

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P402636

Luminaire Tested: **GAN-AF-09-LED-U-SL3-AMB**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/8/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-SL3-AMB  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9068 lumens  
Efficiency: N/A  
Efficacy: 50.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G3

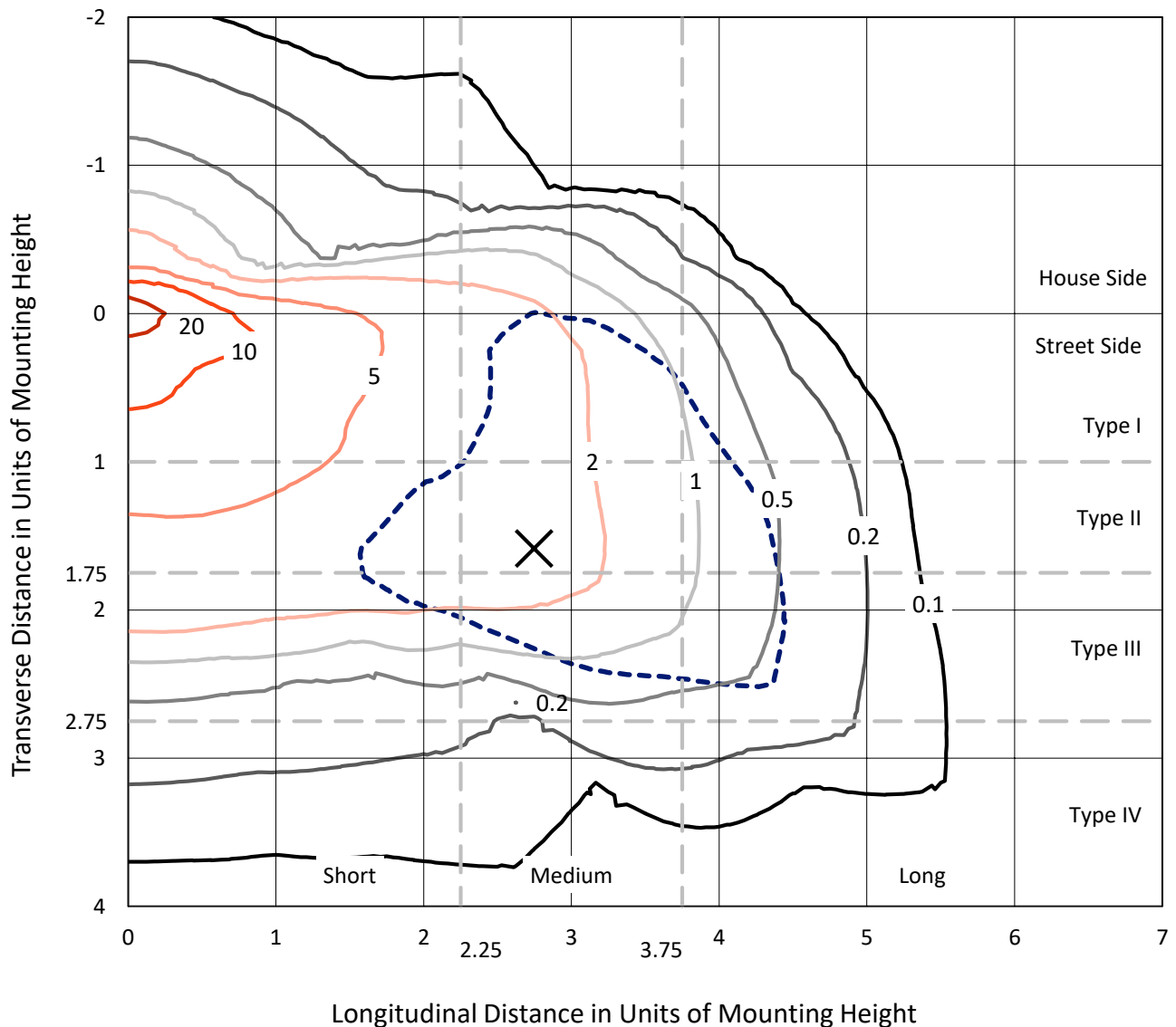
Input Watts (W): 178.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

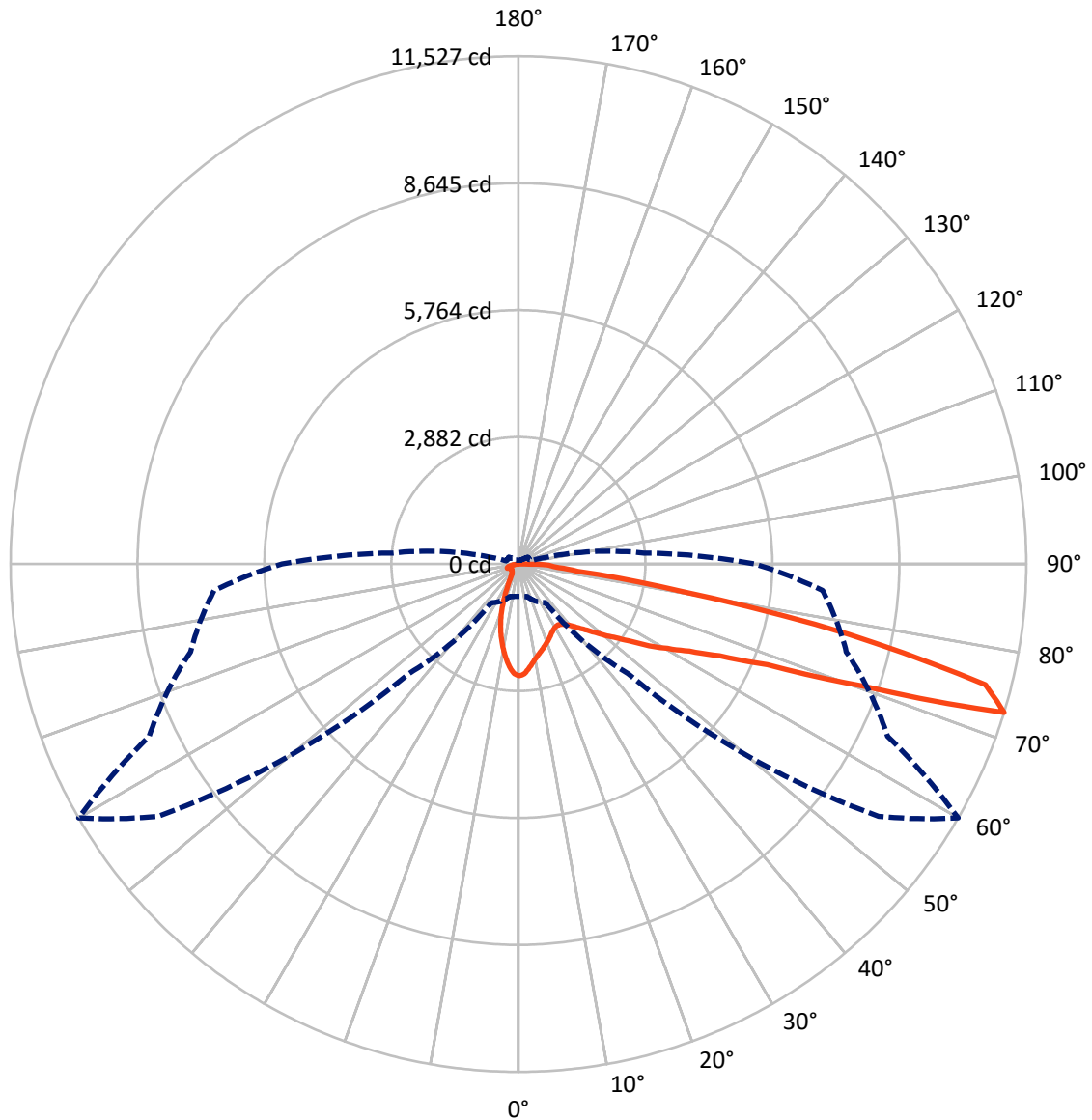
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.3 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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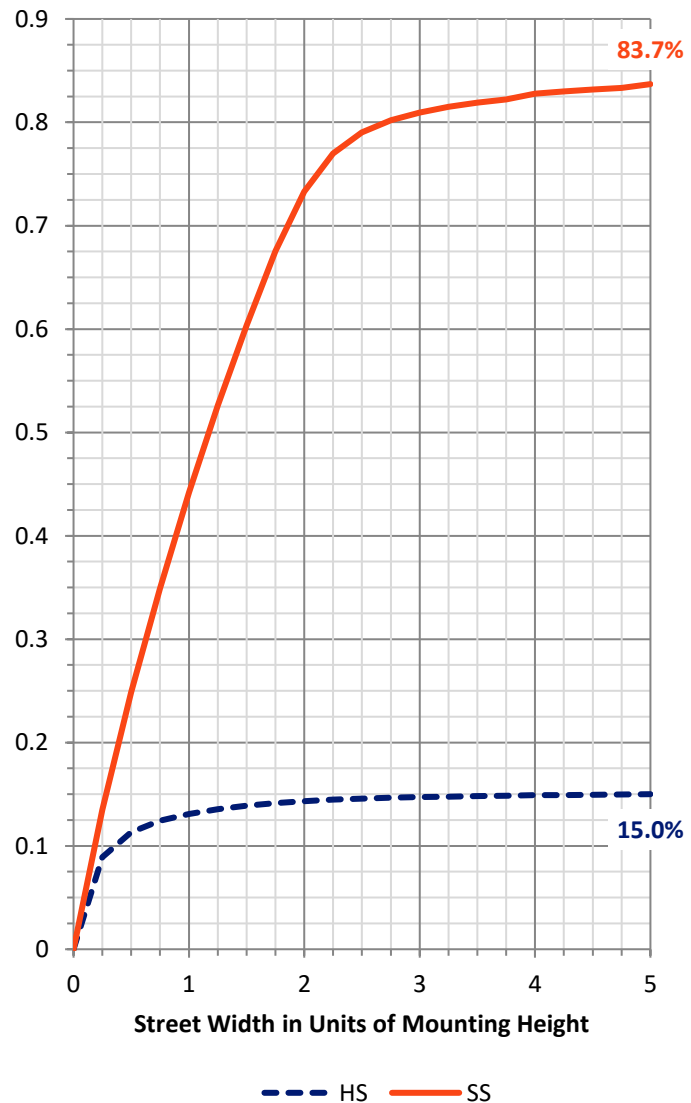
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1377.8	0.0	1377.8
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	7690.2	0.0	7690.2
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	9068.0	0.0	9068.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.8	2.3
10°-20°	451.7	5.0
20°-30°	558.4	6.2
30°-40°	706.0	7.8
40°-50°	1002.7	11.1
50°-60°	1528.5	16.9
60°-70°	2305.6	25.4
70°-80°	2028.3	22.4
80°-90°	273.9	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9068.0	100.0
0°-180°	9068.0	100.0

**Coefficient of Utilization**



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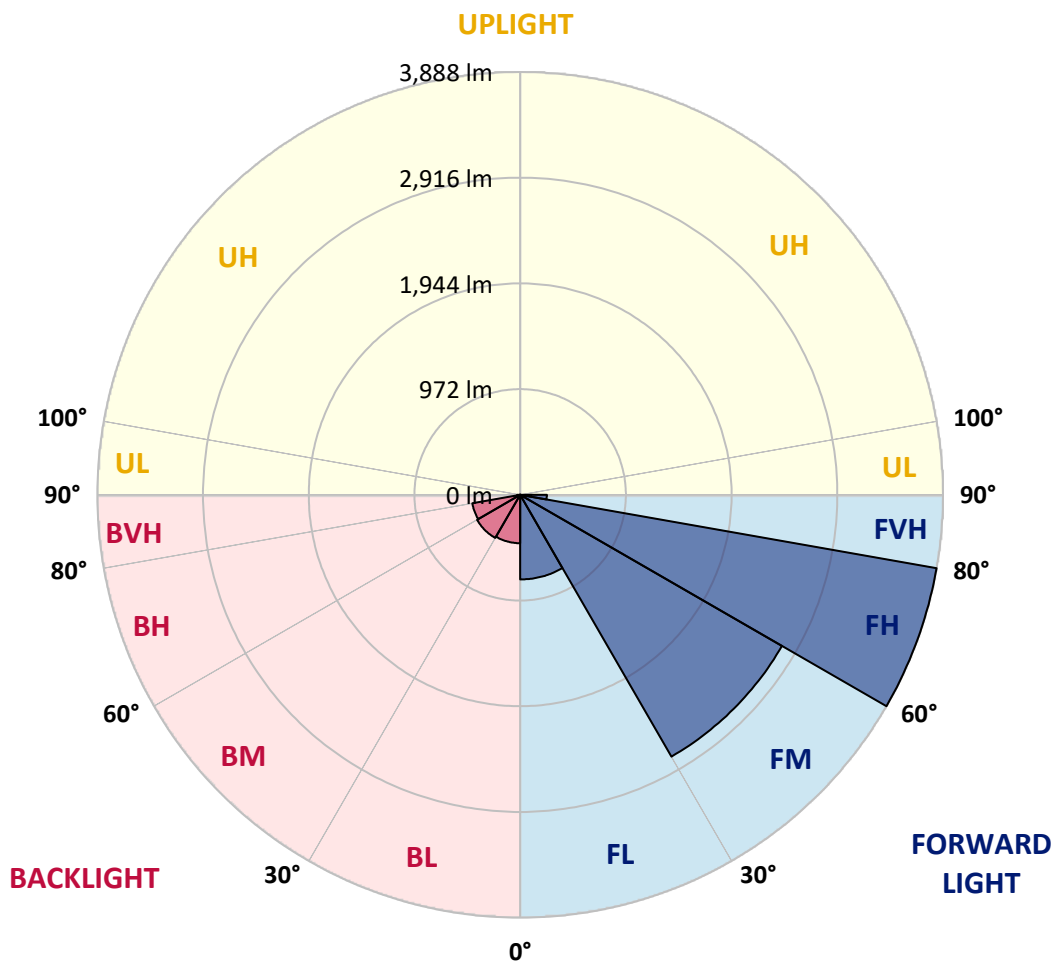
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.9	8.6			
FM	(30°-60°)	2779.3	30.6			
FH	(60°-80°)	3887.6	42.9			G2/5000
FVH	(80°-90°)	245.3	2.7			G3/500
BL	(0°-30°)	445.1	4.9	B1/500		
BM	(30°-60°)	457.9	5.0	B1/1000		
BH	(60°-80°)	446.3	4.9	B1/500		G1/500
BVH	(80°-90°)	28.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9
2.5°	2465.1	2465.1	2465.1	2480.6	2484.5	2484.5	2500.0	2500.0	2496.1	2511.6	2507.7
5°	2313.9	2321.7	2321.7	2329.4	2352.7	2364.3	2387.6	2391.4	2403.1	2426.3	2441.8
7.5°	2127.9	2139.5	2158.9	2189.9	2213.2	2232.5	2275.2	2275.2	2294.5	2329.4	2356.6
10°	1953.5	1957.3	1972.8	2007.7	2054.2	2104.6	2155.0	2170.5	2193.8	2236.4	2279.0
12.5°	1833.3	1841.1	1848.8	1879.8	1930.2	1980.6	2058.1	2089.1	2116.3	2166.6	2224.8
15°	1705.4	1709.3	1728.7	1767.4	1829.4	1883.7	1972.8	2015.5	2058.1	2124.0	2186.0
17.5°	1620.1	1616.3	1631.8	1658.9	1724.8	1798.4	1895.3	1945.7	1996.1	2085.2	2151.1
20°	1573.6	1577.5	1577.5	1585.3	1627.9	1701.5	1813.9	1879.8	1945.7	2062.0	2131.8
22.5°	1562.0	1562.0	1550.4	1546.5	1565.9	1627.9	1740.3	1813.9	1891.4	2058.1	2120.1
25°	1562.0	1562.0	1550.4	1534.9	1534.9	1569.7	1670.5	1740.3	1833.3	2062.0	2104.6
27.5°	1589.1	1589.1	1573.6	1550.4	1531.0	1538.7	1616.3	1689.9	1794.6	2069.7	2093.0
30°	1631.8	1627.9	1616.3	1596.9	1558.1	1531.0	1589.1	1655.0	1755.8	2089.1	2085.2
32.5°	1674.4	1678.3	1670.5	1655.0	1612.4	1554.2	1585.3	1647.3	1748.0	2116.3	2085.2
35°	1740.3	1744.2	1744.2	1728.7	1693.8	1612.4	1624.0	1678.3	1771.3	2158.9	2100.7
37.5°	1813.9	1813.9	1825.6	1825.6	1782.9	1693.8	1697.7	1740.3	1817.8	2217.0	2139.5
40°	1887.6	1887.6	1907.0	1934.1	1899.2	1806.2	1810.1	1841.1	1910.8	2298.4	2217.0
42.5°	1980.6	1972.8	2015.5	2050.4	2034.9	1949.6	1930.2	1969.0	2019.4	2410.8	2333.3
45°	2046.5	2046.5	2112.4	2155.0	2189.9	2104.6	2093.0	2124.0	2174.4	2534.9	2496.1
47.5°	2124.0	2127.9	2197.6	2286.8	2341.1	2290.7	2275.2	2317.8	2352.7	2697.6	2701.5
50°	2189.9	2201.5	2294.5	2422.4	2511.6	2515.5	2488.3	2542.6	2542.6	2879.8	2941.8
52.5°	2279.0	2298.4	2418.6	2558.1	2705.4	2755.8	2763.5	2779.0	2782.9	3104.6	3209.3
55°	2503.8	2527.1	2627.9	2744.2	2918.6	3034.8	3116.2	3089.1	3058.1	3348.8	3488.3
57.5°	2903.1	2883.7	2922.4	2949.6	3120.1	3310.0	3511.6	3500.0	3406.9	3631.7	3786.8
60°	3248.0	3255.8	3306.2	3240.3	3352.7	3651.1	3887.5	3891.4	3732.5	3934.1	4062.0
62.5°	3279.0	3329.4	3542.6	3689.9	3860.4	4046.5	4406.9	4356.5	4151.1	4228.6	4383.7
65°	2670.5	2736.4	3085.2	3565.8	4445.7	5236.4	5042.6	5019.3	4662.7	4639.5	4837.1
67.5°	1376.0	1426.3	1612.4	2500.0	3999.9	6465.0	6592.9	6092.9	5368.1	5267.4	5507.7
70°	941.8	945.7	945.7	1139.5	1953.5	5926.3	9379.7	8321.6	6771.2	6313.9	6616.2
72.5°	736.4	736.4	763.6	930.2	1073.6	3515.5	9984.4	11527.0	9247.9	7705.3	6934.0
75°	550.4	554.3	604.6	775.2	1046.5	1050.4	8352.6	10949.5	10445.6	7600.7	5387.5
77.5°	418.6	410.8	476.7	639.5	1019.4	957.4	4507.7	7651.1	7395.3	5166.6	1953.5
80°	263.6	275.2	321.7	534.9	976.7	957.4	1577.5	3732.5	2988.3	1236.4	329.5
82.5°	151.2	158.9	201.5	333.3	876.0	953.5	984.5	1352.7	740.3	306.2	155.0
85°	89.1	89.1	127.9	209.3	635.7	941.8	957.4	813.9	410.8	158.9	81.4
87.5°	38.8	46.5	73.6	100.8	286.8	794.6	868.2	689.9	298.4	89.1	42.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9	2534.9
2.5°	2503.8	2503.8	2496.1	2496.1	2500.0	2480.6	2476.7	2465.1	2472.8	2469.0	2453.5
5°	2438.0	2434.1	2426.3	2383.7	2360.4	2302.3	2302.3	2267.4	2255.8	2255.8	2232.5
7.5°	2356.6	2344.9	2294.5	2224.8	2158.9	2096.9	2038.7	1996.1	1965.1	1938.0	1941.8
10°	2279.0	2255.8	2174.4	2054.2	1949.6	1833.3	1744.2	1643.4	1589.1	1511.6	1542.6
12.5°	2217.0	2182.1	2050.4	1879.8	1724.8	1554.2	1376.0	1224.8	1100.8	1023.2	976.7
15°	2166.6	2108.5	1914.7	1701.5	1492.2	1244.2	1003.9	798.4	643.4	596.9	600.8
17.5°	2120.1	2038.7	1794.6	1519.4	1236.4	934.1	658.9	523.2	472.9	449.6	449.6
20°	2077.5	1957.3	1639.5	1317.8	953.5	627.9	472.9	426.4	407.0	395.3	391.5
22.5°	2023.2	1883.7	1488.4	1108.5	682.2	453.5	391.5	368.2	364.3	364.3	364.3
25°	1980.6	1794.6	1329.4	848.8	472.9	368.2	337.2	333.3	337.2	341.1	341.1
27.5°	1930.2	1705.4	1170.5	596.9	360.5	310.1	298.4	306.2	313.9	321.7	321.7
30°	1883.7	1620.1	1000.0	418.6	298.4	271.3	271.3	279.1	290.7	298.4	298.4
32.5°	1852.7	1558.1	798.4	329.5	263.6	248.1	251.9	255.8	267.4	271.3	271.3
35°	1829.4	1496.1	600.8	279.1	240.3	232.6	236.4	240.3	244.2	248.1	248.1
37.5°	1833.3	1461.2	430.2	248.1	224.8	220.9	224.8	224.8	224.8	228.7	228.7
40°	1879.8	1445.7	341.1	228.7	217.1	213.2	213.2	209.3	209.3	213.2	213.2
42.5°	1949.6	1449.6	302.3	220.9	209.3	205.4	201.5	197.7	197.7	197.7	197.7
45°	2062.0	1488.4	279.1	213.2	205.4	197.7	189.9	186.0	186.0	193.8	193.8
47.5°	2228.7	1546.5	255.8	209.3	197.7	186.0	182.2	178.3	182.2	186.0	189.9
50°	2422.4	1596.9	244.2	205.4	197.7	178.3	174.4	170.5	174.4	186.0	186.0
52.5°	2647.3	1670.5	240.3	205.4	193.8	174.4	166.7	166.7	170.5	182.2	182.2
55°	2899.2	1782.9	244.2	205.4	189.9	170.5	162.8	158.9	166.7	174.4	174.4
57.5°	3162.8	1934.1	251.9	205.4	182.2	170.5	158.9	151.2	155.0	162.8	162.8
60°	3426.3	2139.5	263.6	201.5	178.3	166.7	155.0	143.4	143.4	151.2	151.2
62.5°	3740.3	2395.3	302.3	209.3	178.3	158.9	143.4	131.8	131.8	135.7	135.7
65°	4151.1	2767.4	360.5	236.4	193.8	151.2	131.8	120.2	120.2	120.2	120.2
67.5°	4829.4	3360.4	383.7	263.6	220.9	151.2	124.0	112.4	108.5	108.5	104.6
70°	5713.1	3748.0	341.1	275.2	263.6	155.0	116.3	100.8	96.9	96.9	93.0
72.5°	5364.3	2856.6	290.7	267.4	267.4	158.9	112.4	96.9	89.1	85.3	85.3
75°	3686.0	1325.6	255.8	248.1	232.6	135.7	104.6	89.1	81.4	73.6	73.6
77.5°	1085.3	356.6	213.2	217.1	178.3	112.4	96.9	81.4	73.6	65.9	65.9
80°	255.8	205.4	155.0	158.9	120.2	85.3	77.5	73.6	65.9	58.1	58.1
82.5°	147.3	131.8	108.5	100.8	73.6	58.1	62.0	62.0	58.1	50.4	46.5
85°	73.6	77.5	65.9	58.1	46.5	38.8	38.8	42.6	38.8	31.0	31.0
87.5°	42.6	38.8	42.6	31.0	23.3	19.4	23.3	23.3	23.3	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)