

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: P402644

Luminaire Tested: **GAN-AF-10-LED-U-SL3-AMB**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402644
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-10-LED-U-SL3-AMB
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 10128 lumens
Efficiency: N/A
Efficacy: 50.9 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

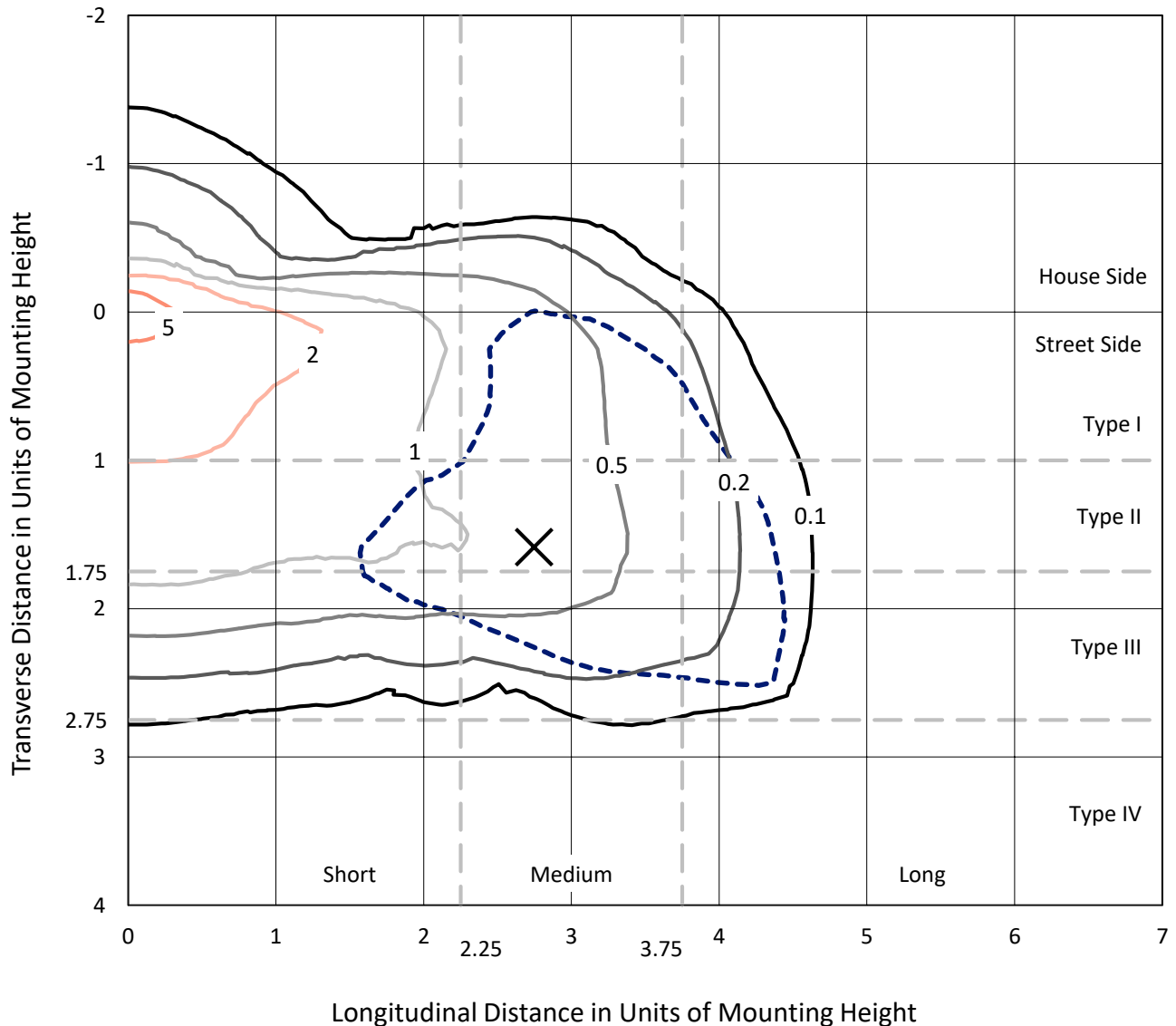
Input Watts (W): 198.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

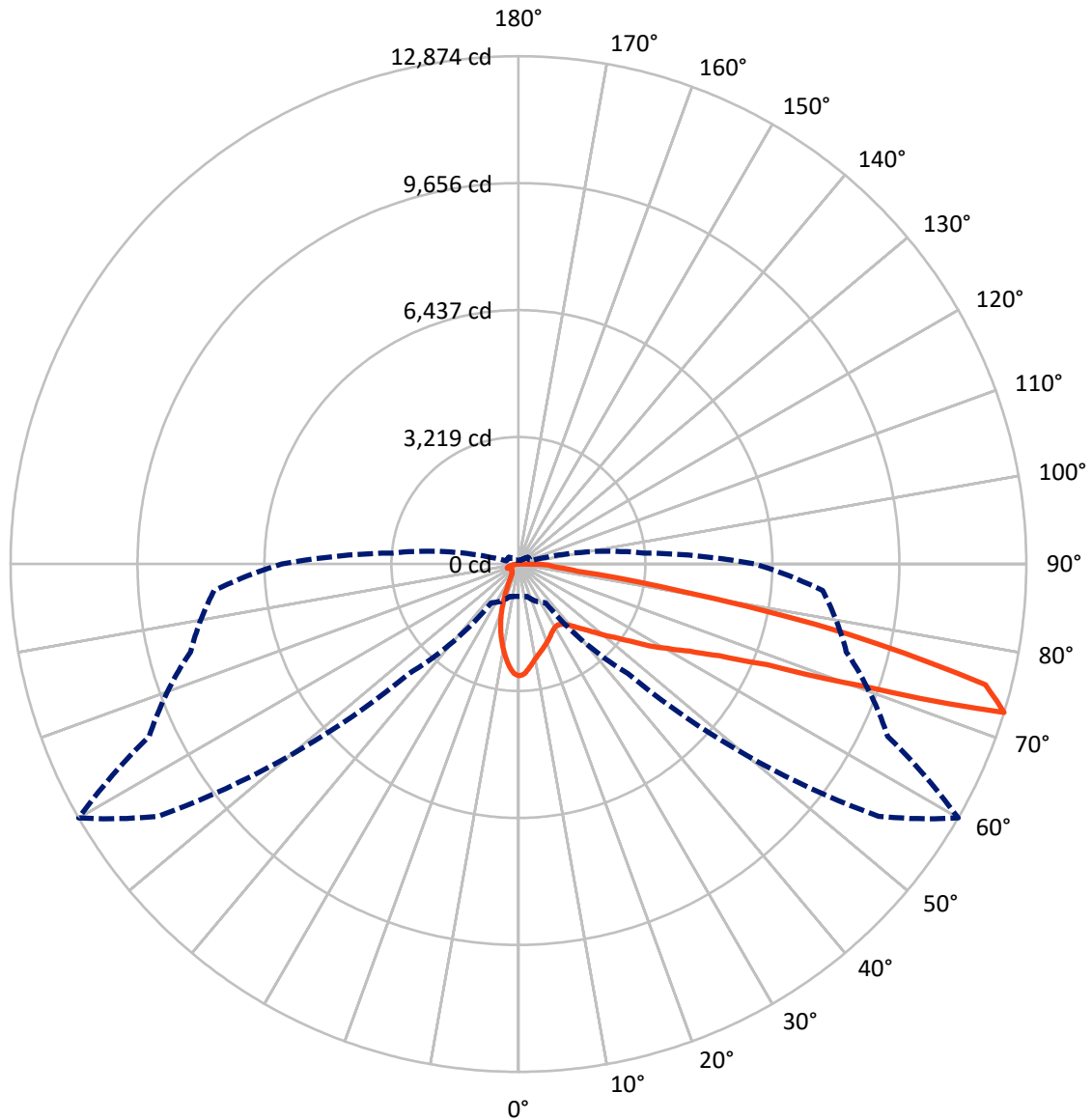
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 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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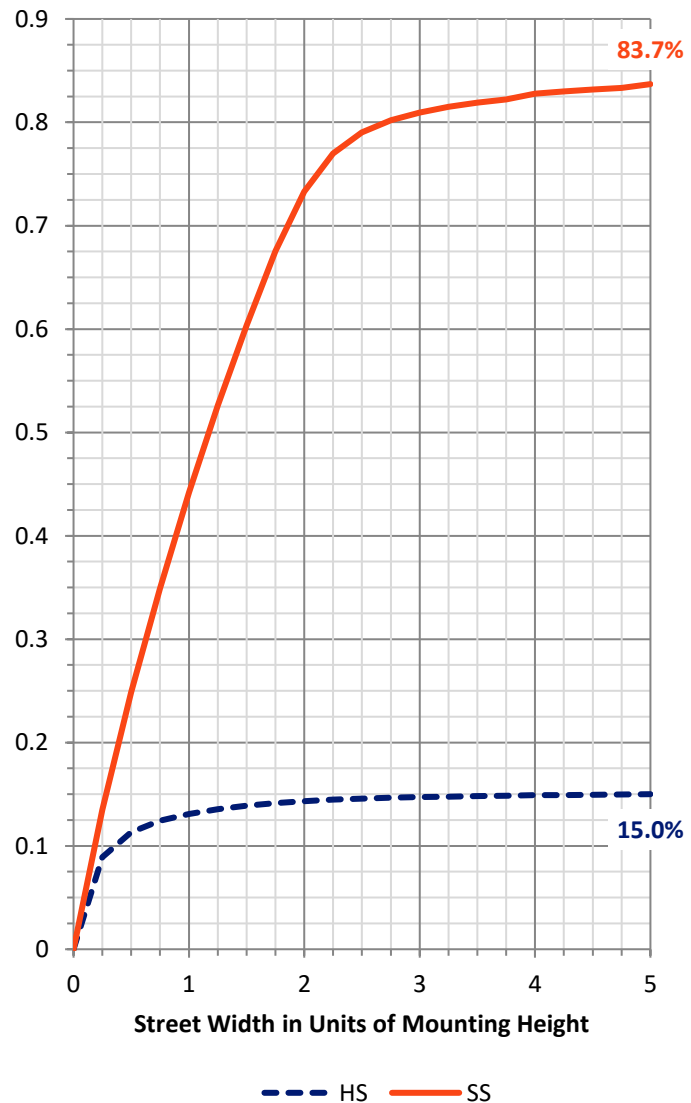
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1538.9	0.0	1538.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	8589.1	0.0	8589.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	10128.0	0.0	10128.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	2.3
10°-20°	504.5	5.0
20°-30°	623.7	6.2
30°-40°	788.5	7.8
40°-50°	1119.9	11.1
50°-60°	1707.2	16.9
60°-70°	2575.1	25.4
70°-80°	2265.4	22.4
80°-90°	306.0	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°	10128.0	100.0
0°-180°	10128.0	100.0



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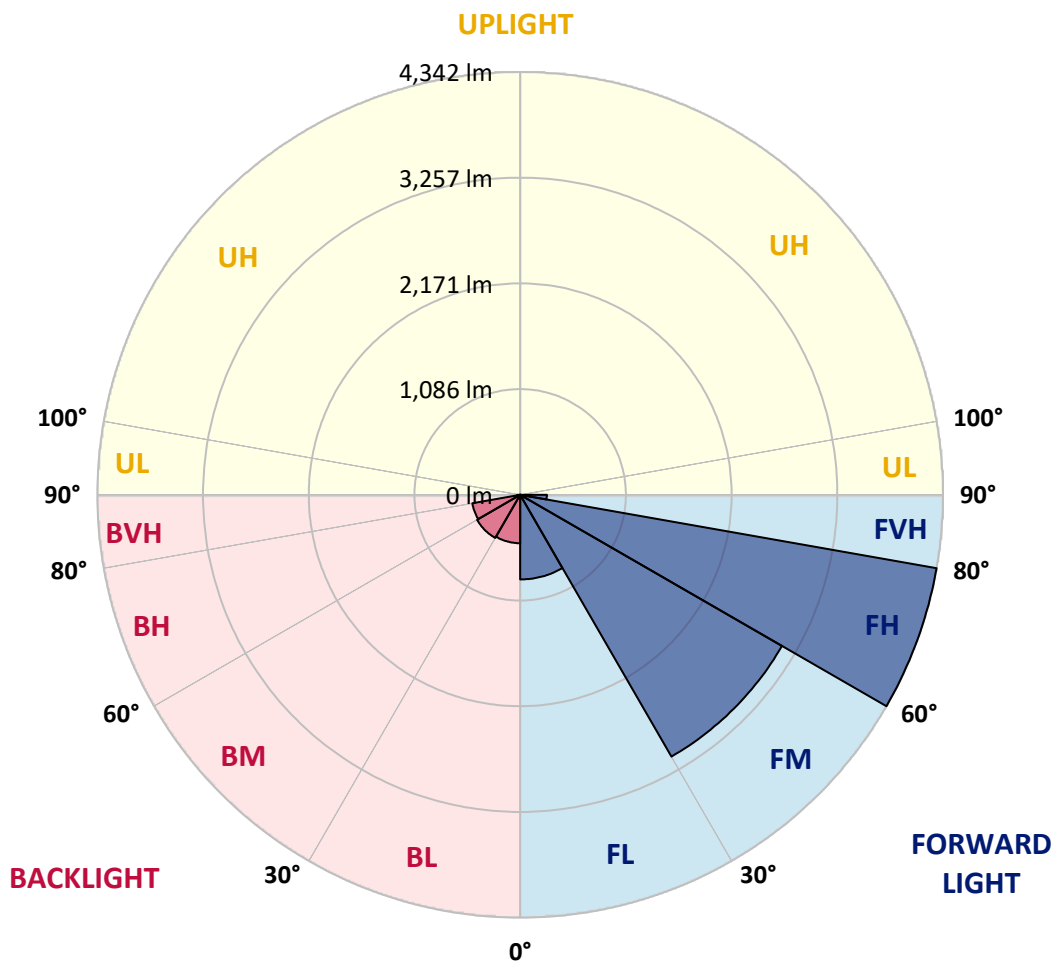
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	868.9	8.6			
FM (30°-60°)	3104.2	30.6			
FH (60°-80°)	4342.0	42.9			G2/5000
FVH (80°-90°)	274.0	2.7			G3/500
BL (0°-30°)	497.1	4.9	B1/500		
BM (30°-60°)	511.4	5.0	B1/1000		
BH (60°-80°)	498.5	4.9	B1/500		G1/500
BVH (80°-90°)	32.0	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°	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2
2.5°	2753.2	2753.2	2753.2	2770.6	2774.9	2774.9	2792.2	2792.2	2787.9	2805.2	2800.9
5°	2584.4	2593.1	2593.1	2601.7	2627.7	2640.7	2666.7	2671.0	2684.0	2710.0	2727.3
7.5°	2376.6	2389.6	2411.2	2445.9	2471.9	2493.5	2541.1	2541.1	2562.8	2601.7	2632.0
10°	2181.8	2186.1	2203.5	2242.4	2294.4	2350.6	2406.9	2424.2	2450.2	2497.8	2545.4
12.5°	2047.6	2056.3	2064.9	2099.6	2155.8	2212.1	2298.7	2333.3	2363.6	2419.9	2484.8
15°	1904.8	1909.1	1930.7	1974.0	2043.3	2103.9	2203.5	2251.1	2298.7	2372.3	2441.6
17.5°	1809.5	1805.2	1822.5	1852.8	1926.4	2008.7	2116.9	2173.2	2229.4	2329.0	2402.6
20°	1757.6	1761.9	1761.9	1770.6	1818.2	1900.4	2026.0	2099.6	2173.2	2303.0	2380.9
22.5°	1744.6	1744.6	1731.6	1727.3	1748.9	1818.2	1943.7	2026.0	2112.5	2298.7	2368.0
25°	1744.6	1744.6	1731.6	1714.3	1714.3	1753.2	1865.8	1943.7	2047.6	2303.0	2350.6
27.5°	1774.9	1774.9	1757.6	1731.6	1710.0	1718.6	1805.2	1887.4	2004.3	2311.7	2337.7
30°	1822.5	1818.2	1805.2	1783.5	1740.3	1710.0	1774.9	1848.5	1961.0	2333.3	2329.0
32.5°	1870.1	1874.5	1865.8	1848.5	1800.9	1735.9	1770.6	1839.8	1952.4	2363.6	2329.0
35°	1943.7	1948.0	1948.0	1930.7	1891.8	1800.9	1813.8	1874.5	1978.4	2411.2	2346.3
37.5°	2026.0	2026.0	2039.0	2039.0	1991.3	1891.8	1896.1	1943.7	2030.3	2476.2	2389.6
40°	2108.2	2108.2	2129.9	2160.2	2121.2	2017.3	2021.6	2056.3	2134.2	2567.1	2476.2
42.5°	2212.1	2203.5	2251.1	2290.0	2272.7	2177.5	2155.8	2199.1	2255.4	2692.6	2606.1
45°	2285.7	2285.7	2359.3	2406.9	2445.9	2350.6	2337.7	2372.3	2428.6	2831.2	2787.9
47.5°	2372.3	2376.6	2454.5	2554.1	2614.7	2558.4	2541.1	2588.7	2627.7	3013.0	3017.3
50°	2445.9	2458.9	2562.8	2705.6	2805.2	2809.5	2779.2	2839.8	2839.8	3216.4	3285.7
52.5°	2545.4	2567.1	2701.3	2857.1	3021.6	3077.9	3086.6	3103.9	3108.2	3467.5	3584.4
55°	2796.5	2822.5	2935.1	3064.9	3259.7	3389.6	3480.5	3450.2	3415.6	3740.3	3896.1
57.5°	3242.4	3220.8	3264.1	3294.4	3484.8	3697.0	3922.1	3909.1	3805.2	4056.3	4229.4
60°	3627.7	3636.4	3692.6	3619.0	3744.6	4077.9	4342.0	4346.3	4168.8	4393.9	4536.8
62.5°	3662.3	3718.6	3956.7	4121.2	4311.7	4519.5	4922.1	4865.8	4636.4	4722.9	4896.1
65°	2982.7	3056.3	3445.9	3982.7	4965.4	5848.5	5632.0	5606.0	5207.8	5181.8	5402.6
67.5°	1536.8	1593.1	1800.9	2792.2	4467.5	7220.8	7363.6	6805.2	5995.7	5883.1	6151.5
70°	1051.9	1056.3	1056.3	1272.7	2181.8	6619.0	10476.2	9294.3	7562.8	7051.9	7389.6
72.5°	822.5	822.5	852.8	1039.0	1199.1	3926.4	11151.5	12874.4	10329.0	8606.0	7744.6
75°	614.7	619.0	675.3	865.8	1168.8	1173.2	9329.0	12229.4	11666.6	8489.2	6017.3
77.5°	467.5	458.9	532.5	714.3	1138.5	1069.3	5034.6	8545.4	8259.7	5770.5	2181.8
80°	294.4	307.4	359.3	597.4	1090.9	1069.3	1761.9	4168.8	3337.7	1380.9	368.0
82.5°	168.8	177.5	225.1	372.3	978.4	1064.9	1099.6	1510.8	826.8	342.0	173.2
85°	99.6	99.6	142.9	233.8	710.0	1051.9	1069.3	909.1	458.9	177.5	90.9
87.5°	43.3	51.9	82.3	112.6	320.3	887.4	969.7	770.6	333.3	99.6	47.6
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°	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2	2831.2
2.5°	2796.5	2796.5	2787.9	2787.9	2792.2	2770.6	2766.2	2753.2	2761.9	2757.6	2740.3
5°	2722.9	2718.6	2710.0	2662.3	2636.4	2571.4	2571.4	2532.5	2519.5	2519.5	2493.5
7.5°	2632.0	2619.0	2562.8	2484.8	2411.2	2342.0	2277.1	2229.4	2194.8	2164.5	2168.8
10°	2545.4	2519.5	2428.6	2294.4	2177.5	2047.6	1948.0	1835.5	1774.9	1688.3	1722.9
12.5°	2476.2	2437.2	2290.0	2099.6	1926.4	1735.9	1536.8	1368.0	1229.4	1142.9	1090.9
15°	2419.9	2355.0	2138.5	1900.4	1666.7	1389.6	1121.2	891.8	718.6	666.7	671.0
17.5°	2368.0	2277.1	2004.3	1697.0	1380.9	1043.3	735.9	584.4	528.1	502.2	502.2
20°	2320.3	2186.1	1831.2	1471.9	1064.9	701.3	528.1	476.2	454.5	441.6	437.2
22.5°	2259.7	2103.9	1662.3	1238.1	761.9	506.5	437.2	411.3	406.9	406.9	406.9
25°	2212.1	2004.3	1484.8	948.0	528.1	411.3	376.6	372.3	376.6	381.0	381.0
27.5°	2155.8	1904.8	1307.4	666.7	402.6	346.3	333.3	342.0	350.6	359.3	359.3
30°	2103.9	1809.5	1116.9	467.5	333.3	303.0	303.0	311.7	324.7	333.3	333.3
32.5°	2069.3	1740.3	891.8	368.0	294.4	277.1	281.4	285.7	298.7	303.0	303.0
35°	2043.3	1671.0	671.0	311.7	268.4	259.7	264.1	268.4	272.7	277.1	277.1
37.5°	2047.6	1632.0	480.5	277.1	251.1	246.8	251.1	251.1	251.1	255.4	255.4
40°	2099.6	1614.7	381.0	255.4	242.4	238.1	238.1	233.8	233.8	238.1	238.1
42.5°	2177.5	1619.0	337.7	246.8	233.8	229.4	225.1	220.8	220.8	220.8	220.8
45°	2303.0	1662.3	311.7	238.1	229.4	220.8	212.1	207.8	207.8	216.4	216.4
47.5°	2489.2	1727.3	285.7	233.8	220.8	207.8	203.5	199.1	203.5	207.8	212.1
50°	2705.6	1783.5	272.7	229.4	220.8	199.1	194.8	190.5	194.8	207.8	207.8
52.5°	2956.7	1865.8	268.4	229.4	216.4	194.8	186.1	186.1	190.5	203.5	203.5
55°	3238.1	1991.3	272.7	229.4	212.1	190.5	181.8	177.5	186.1	194.8	194.8
57.5°	3532.5	2160.2	281.4	229.4	203.5	190.5	177.5	168.8	173.2	181.8	181.8
60°	3826.8	2389.6	294.4	225.1	199.1	186.1	173.2	160.2	160.2	168.8	168.8
62.5°	4177.5	2675.3	337.7	233.8	199.1	177.5	160.2	147.2	147.2	151.5	151.5
65°	4636.4	3090.9	402.6	264.1	216.4	168.8	147.2	134.2	134.2	134.2	134.2
67.5°	5393.9	3753.2	428.6	294.4	246.8	168.8	138.5	125.5	121.2	121.2	116.9
70°	6380.9	4186.1	381.0	307.4	294.4	173.2	129.9	112.6	108.2	108.2	103.9
72.5°	5991.3	3190.5	324.7	298.7	298.7	177.5	125.5	108.2	99.6	95.2	95.2
75°	4116.9	1480.5	285.7	277.1	259.7	151.5	116.9	99.6	90.9	82.3	82.3
77.5°	1212.1	398.3	238.1	242.4	199.1	125.5	108.2	90.9	82.3	73.6	73.6
80°	285.7	229.4	173.2	177.5	134.2	95.2	86.6	82.3	73.6	64.9	64.9
82.5°	164.5	147.2	121.2	112.6	82.3	64.9	69.3	69.3	64.9	56.3	51.9
85°	82.3	86.6	73.6	64.9	51.9	43.3	43.3	47.6	43.3	34.6	34.6
87.5°	47.6	43.3	47.6	34.6	26.0	21.6	26.0	26.0	26.0	17.3	17.3
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)