

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: P402633

Luminaire Tested: **GAN-AF-09-LED-U-SL2-AMB-HSS**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-5)
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-SL2-AMB-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7041 lumens
Efficiency: N/A
Efficacy: 39.4 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 - G2

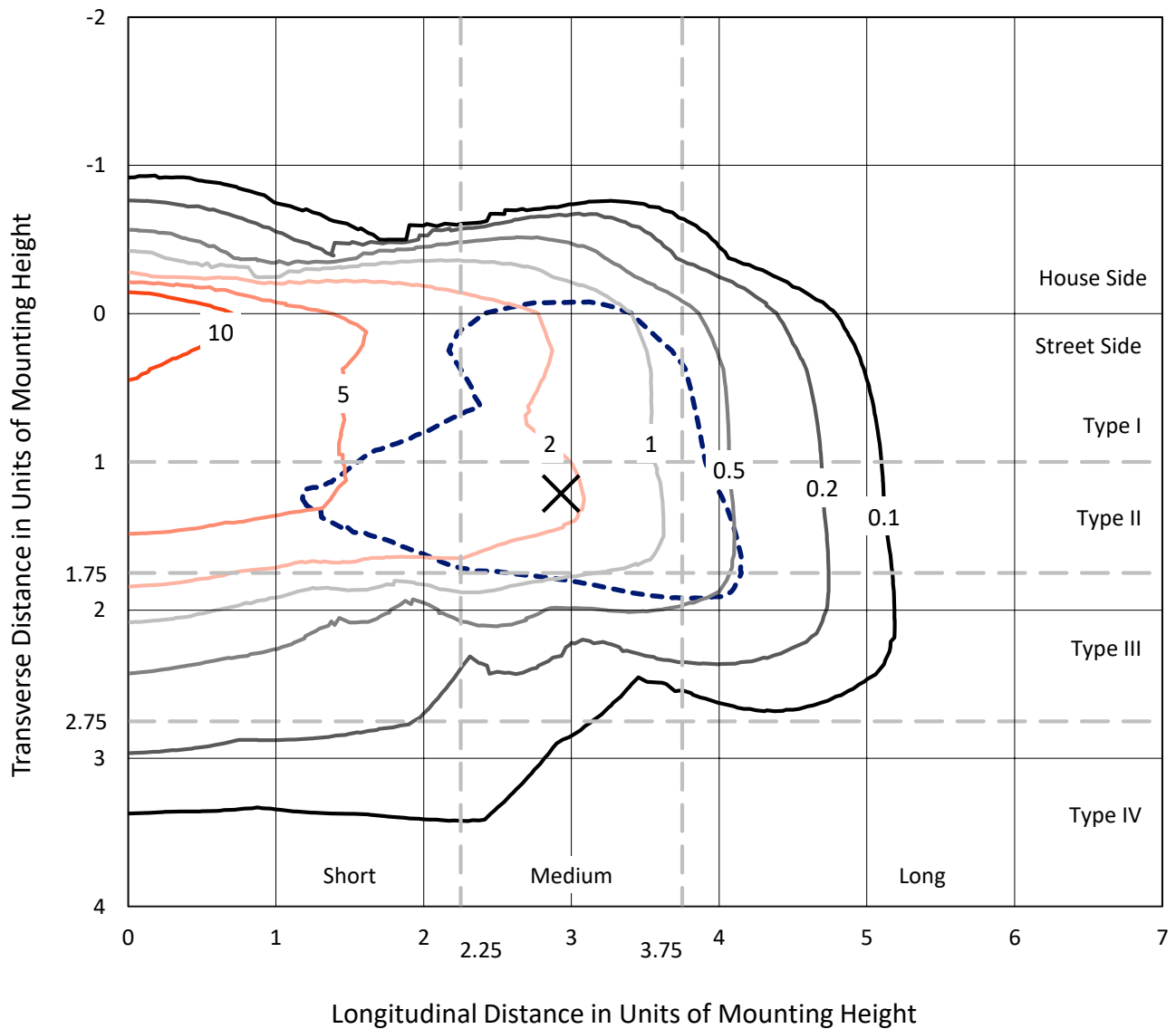
Input Watts (W): 178.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

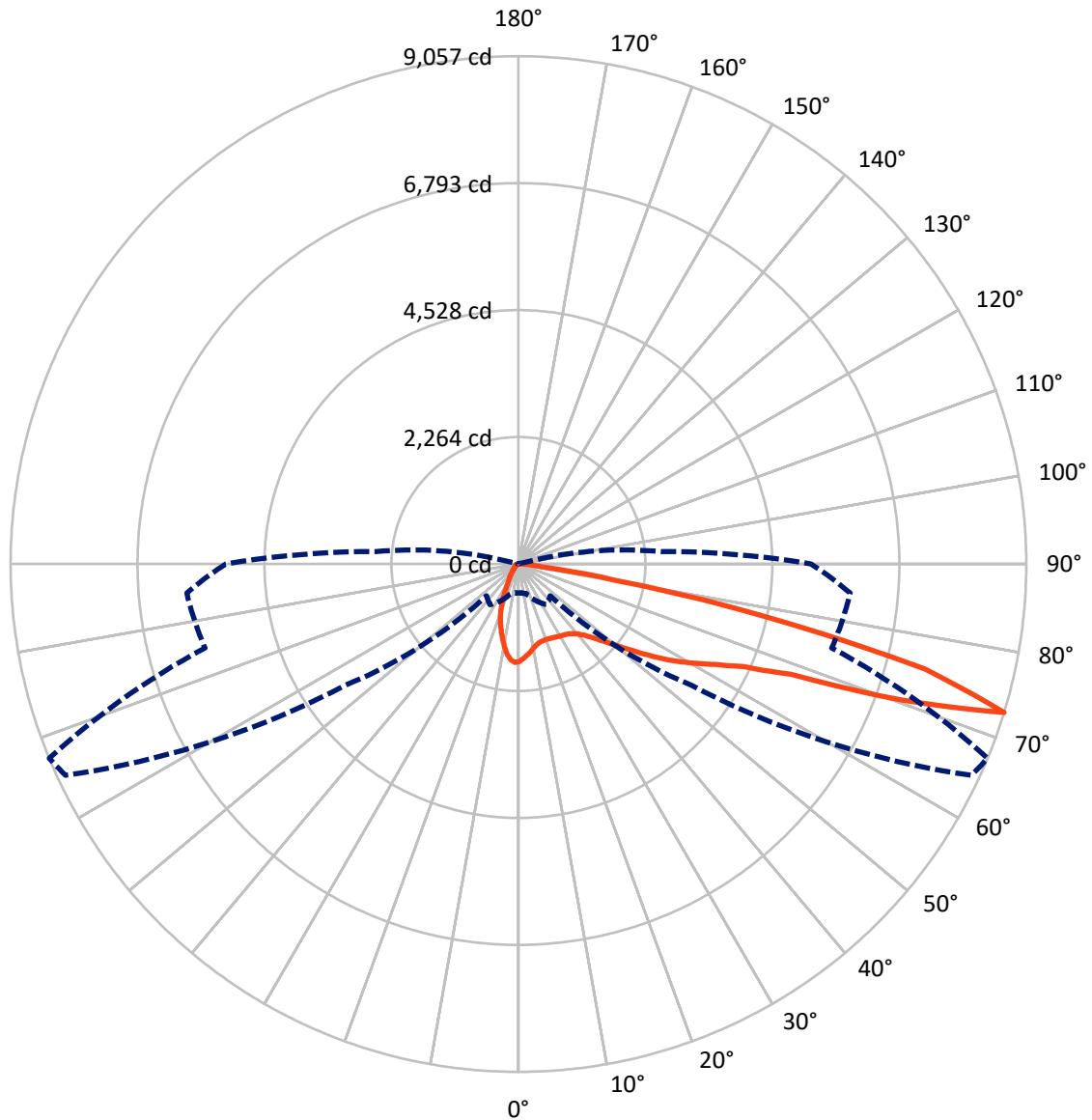
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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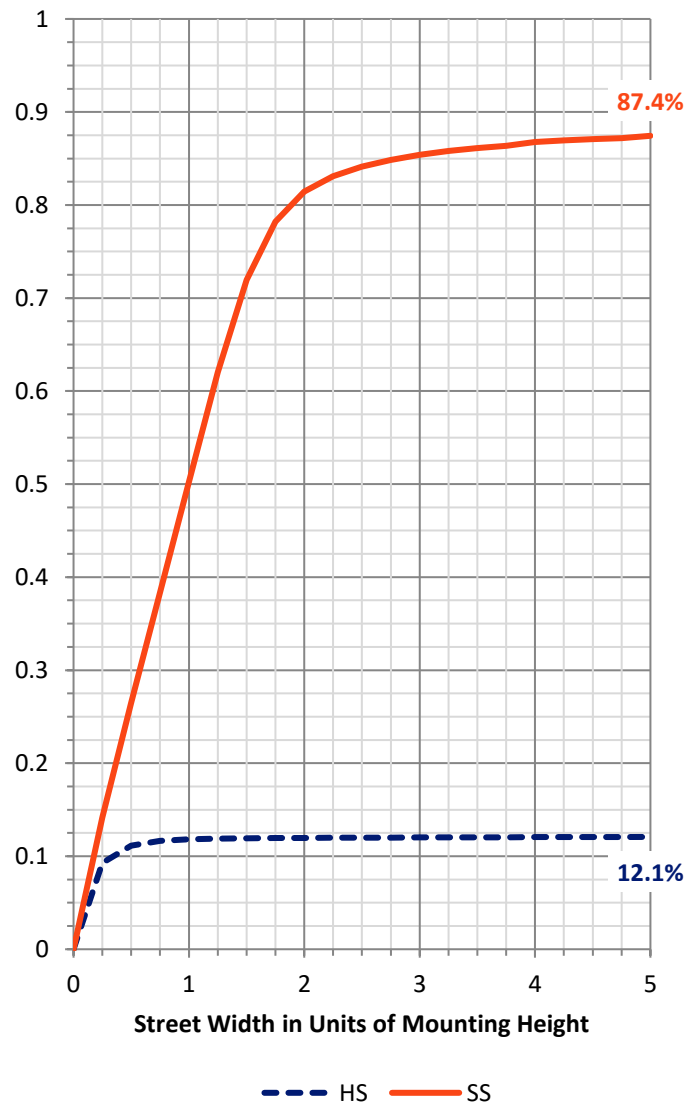
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.9	0.0	858.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6182.2	0.0	6182.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	7041.0	0.0	7041.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	2.0
10°-20°	302.7	4.3
20°-30°	427.6	6.1
30°-40°	612.5	8.7
40°-50°	924.1	13.1
50°-60°	1481.5	21.0
60°-70°	1751.4	24.9
70°-80°	1279.4	18.2
80°-90°	118.3	1.7
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°	7041.0	100.0
0°-180°	7041.0	100.0



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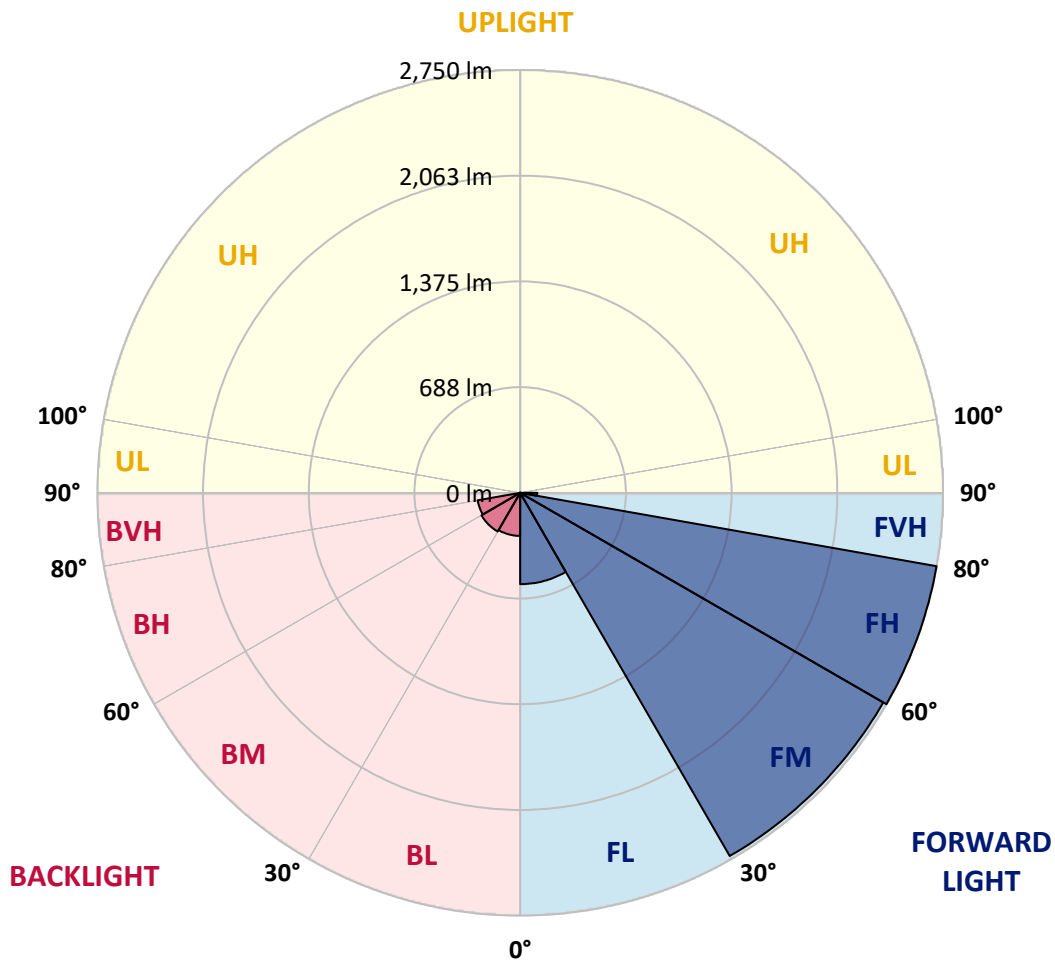
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	593.9	8.4			
FM (30°-60°)	2727.2	38.7			
FH (60°-80°)	2750.1	39.1			G2/5000
FVH (80°-90°)	110.9	1.6			G2/225
BL (0°-30°)	280.0	4.0	B1/500		
BM (30°-60°)	290.9	4.1	B1/1000		
BH (60°-80°)	280.6	4.0	B1/500		G1/500
BVH (80°-90°)	7.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
0°	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1
2.5°	1631.5	1639.3	1639.3	1650.9	1654.8	1658.7	1681.9	1689.7	1685.8	1709.1	1724.6
5°	1523.0	1523.0	1530.8	1550.2	1565.7	1577.3	1604.4	1627.7	1631.5	1658.7	1701.3
7.5°	1433.9	1441.6	1441.6	1453.3	1476.5	1495.9	1530.8	1569.5	1577.3	1612.2	1662.5
10°	1364.1	1360.3	1371.9	1383.5	1402.9	1422.3	1461.0	1503.7	1519.2	1557.9	1616.0
12.5°	1298.3	1302.1	1306.0	1325.4	1348.6	1368.0	1406.8	1457.2	1472.7	1523.0	1592.8
15°	1259.5	1259.5	1263.4	1275.0	1298.3	1325.4	1371.9	1426.1	1445.5	1503.7	1585.0
17.5°	1247.9	1247.9	1244.0	1247.9	1267.3	1294.4	1348.6	1414.5	1433.9	1495.9	1596.7
20°	1251.8	1251.8	1244.0	1240.1	1251.8	1278.9	1340.9	1410.6	1433.9	1507.5	1627.7
22.5°	1275.0	1271.1	1263.4	1251.8	1251.8	1278.9	1344.8	1418.4	1441.6	1523.0	1654.8
25°	1333.1	1317.6	1309.9	1286.6	1271.1	1282.8	1348.6	1430.0	1453.3	1534.7	1693.5
27.5°	1387.4	1383.5	1383.5	1360.3	1309.9	1298.3	1364.1	1449.4	1468.8	1550.2	1743.9
30°	1480.4	1472.7	1472.7	1445.5	1383.5	1329.3	1379.6	1464.9	1488.2	1561.8	1794.3
32.5°	1596.7	1600.5	1592.8	1557.9	1480.4	1387.4	1406.8	1484.3	1503.7	1569.5	1844.7
35°	1724.6	1728.4	1747.8	1709.1	1608.3	1476.5	1449.4	1519.2	1530.8	1585.0	1883.4
37.5°	1829.2	1829.2	1879.6	1887.3	1763.3	1585.0	1519.2	1577.3	1573.4	1604.4	1922.2
40°	1945.5	1945.5	2003.6	2050.1	1961.0	1732.3	1608.3	1647.0	1639.3	1647.0	1976.5
42.5°	2069.5	2077.2	2139.2	2220.6	2174.1	1922.2	1736.2	1755.6	1740.1	1716.8	2034.6
45°	2189.6	2209.0	2294.2	2402.7	2398.9	2147.0	1902.8	1906.7	1879.6	1833.1	2154.7
47.5°	2329.1	2344.6	2464.8	2600.4	2635.3	2402.7	2116.0	2100.5	2065.6	1992.0	2317.5
50°	2565.5	2573.3	2658.5	2817.4	2883.3	2685.7	2356.2	2329.1	2290.4	2197.4	2538.4
52.5°	2848.4	2844.5	2883.3	3049.9	3228.2	3015.1	2670.2	2631.4	2569.4	2449.3	2809.7
55°	2972.4	2984.1	3042.2	3243.7	3588.6	3495.6	3022.8	2968.6	2902.7	2747.7	3088.7
57.5°	2755.4	2755.4	2871.7	3189.5	3790.1	4131.2	3418.1	3332.8	3251.5	3053.8	3406.5
60°	2205.1	2201.2	2340.7	2724.4	3639.0	4685.4	3968.4	3712.6	3588.6	3325.1	3724.3
62.5°	1546.3	1515.3	1577.3	1898.9	2980.2	4693.1	4995.4	4107.9	3941.3	3604.1	4061.4
65°	1108.4	1089.0	1100.6	1189.7	1709.1	4243.6	6130.9	4708.6	4410.2	3898.7	4468.3
67.5°	906.8	883.6	879.7	988.2	984.4	2809.7	6471.9	5894.5	5243.4	4328.8	4929.5
70°	724.7	713.1	709.2	864.2	910.7	914.6	6034.0	8429.0	7274.1	4968.3	5545.7
72.5°	515.4	515.4	546.4	716.9	883.6	802.2	3774.6	8913.4	9056.8	5786.0	5937.1
75°	310.0	306.2	383.7	569.7	852.6	775.1	1166.5	7355.5	7487.3	5417.8	4592.3
77.5°	147.3	147.3	213.1	383.7	755.7	728.6	666.6	4398.6	4429.6	3290.2	2329.1
80°	58.1	58.1	93.0	236.4	573.6	720.8	620.1	1813.7	1747.8	906.8	321.7
82.5°	23.3	23.3	38.8	131.8	356.5	592.9	550.3	600.7	449.5	104.6	85.3
85°	3.9	7.8	15.5	77.5	201.5	313.9	445.7	372.0	236.4	62.0	62.0
87.5°	0.0	3.9	7.8	23.3	58.1	131.8	224.8	170.5	108.5	19.4	27.1
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°	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1
2.5°	1728.4	1736.2	1751.7	1759.4	1763.3	1747.8	1747.8	1732.3	1728.4	1728.4	1728.4
5°	1709.1	1724.6	1736.2	1709.1	1666.4	1612.2	1550.2	1511.4	1472.7	1480.4	1464.9
7.5°	1685.8	1705.2	1689.7	1600.5	1492.0	1391.3	1282.8	1220.8	1147.1	1139.4	1120.0
10°	1650.9	1670.3	1612.2	1457.2	1290.5	1143.2	984.4	887.5	810.0	748.0	732.5
12.5°	1643.2	1654.8	1519.2	1306.0	1089.0	879.7	674.3	492.2	383.7	329.4	329.4
15°	1647.0	1647.0	1433.9	1154.9	872.0	581.3	325.5	236.4	197.6	193.8	189.9
17.5°	1666.4	1643.2	1348.6	1007.6	639.4	302.3	193.8	178.3	170.5	170.5	170.5
20°	1701.3	1643.2	1275.0	852.6	403.0	189.9	166.6	158.9	155.0	151.1	151.1
22.5°	1736.2	1627.7	1182.0	674.3	232.5	158.9	147.3	143.4	135.6	131.8	131.8
25°	1774.9	1612.2	1092.9	484.4	162.8	139.5	127.9	120.1	112.4	108.5	108.5
27.5°	1809.8	1596.7	988.2	306.2	143.4	124.0	112.4	100.8	89.1	85.3	85.3
30°	1833.1	1569.5	887.5	193.8	127.9	112.4	96.9	81.4	69.8	65.9	65.9
32.5°	1836.9	1534.7	763.5	143.4	116.3	96.9	77.5	65.9	58.1	54.3	54.3
35°	1825.3	1492.0	627.8	127.9	104.6	85.3	65.9	54.3	46.5	46.5	46.5
37.5°	1809.8	1449.4	488.3	116.3	93.0	73.6	54.3	46.5	42.6	38.8	38.8
40°	1805.9	1406.8	325.5	108.5	85.3	62.0	46.5	38.8	34.9	31.0	31.0
42.5°	1817.6	1375.8	228.6	100.8	73.6	54.3	42.6	34.9	27.1	27.1	23.3
45°	1875.7	1368.0	166.6	93.0	65.9	46.5	34.9	27.1	23.3	19.4	19.4
47.5°	1972.6	1383.5	135.6	85.3	58.1	38.8	31.0	23.3	19.4	15.5	15.5
50°	2112.1	1441.6	124.0	77.5	46.5	34.9	23.3	19.4	15.5	15.5	15.5
52.5°	2329.1	1534.7	116.3	69.8	38.8	27.1	19.4	15.5	11.6	11.6	11.6
55°	2561.6	1643.2	112.4	62.0	34.9	23.3	15.5	11.6	11.6	7.8	7.8
57.5°	2829.0	1786.6	104.6	54.3	31.0	23.3	15.5	11.6	7.8	7.8	7.8
60°	3166.2	1980.3	93.0	46.5	27.1	19.4	11.6	7.8	7.8	7.8	7.8
62.5°	3515.0	2181.8	81.4	38.8	23.3	15.5	11.6	7.8	7.8	7.8	7.8
65°	3941.3	2414.4	69.8	31.0	19.4	15.5	11.6	7.8	7.8	3.9	3.9
67.5°	4456.7	2650.8	54.3	27.1	19.4	11.6	11.6	7.8	7.8	3.9	3.9
70°	5115.5	2953.1	46.5	23.3	15.5	11.6	11.6	7.8	7.8	3.9	3.9
72.5°	5216.3	2550.0	38.8	23.3	15.5	11.6	11.6	7.8	7.8	3.9	3.9
75°	3565.4	1216.9	34.9	19.4	15.5	15.5	11.6	7.8	7.8	3.9	3.9
77.5°	1554.0	286.8	31.0	19.4	15.5	15.5	15.5	11.6	7.8	3.9	3.9
80°	182.1	54.3	27.1	19.4	15.5	19.4	15.5	11.6	7.8	3.9	3.9
82.5°	73.6	34.9	27.1	23.3	19.4	15.5	15.5	11.6	7.8	3.9	3.9
85°	54.3	27.1	27.1	27.1	19.4	11.6	11.6	7.8	7.8	3.9	3.9
87.5°	27.1	11.6	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9
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)