

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: P529747

Luminaire Tested: **GLAN-SA4D-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14345 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

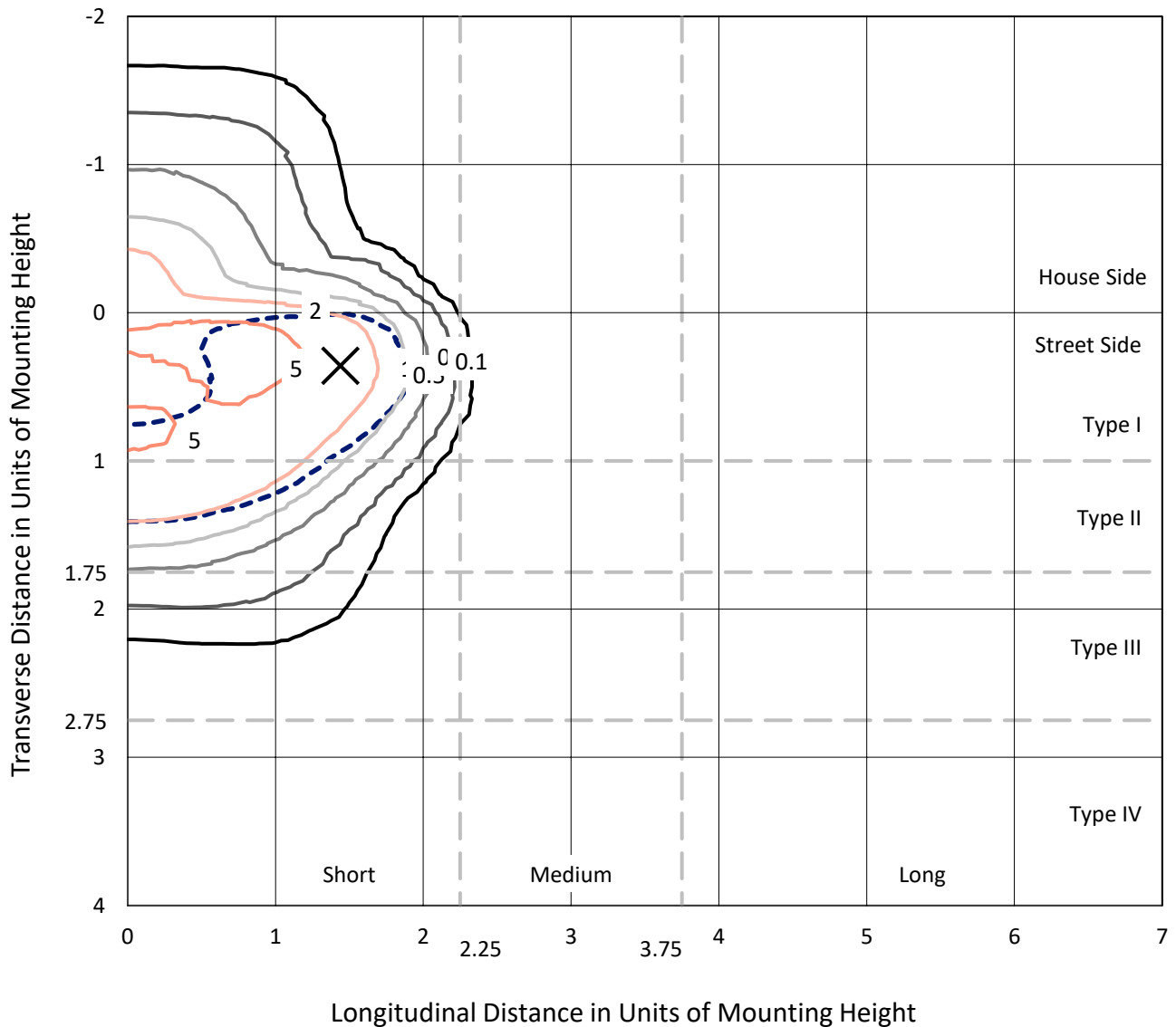
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

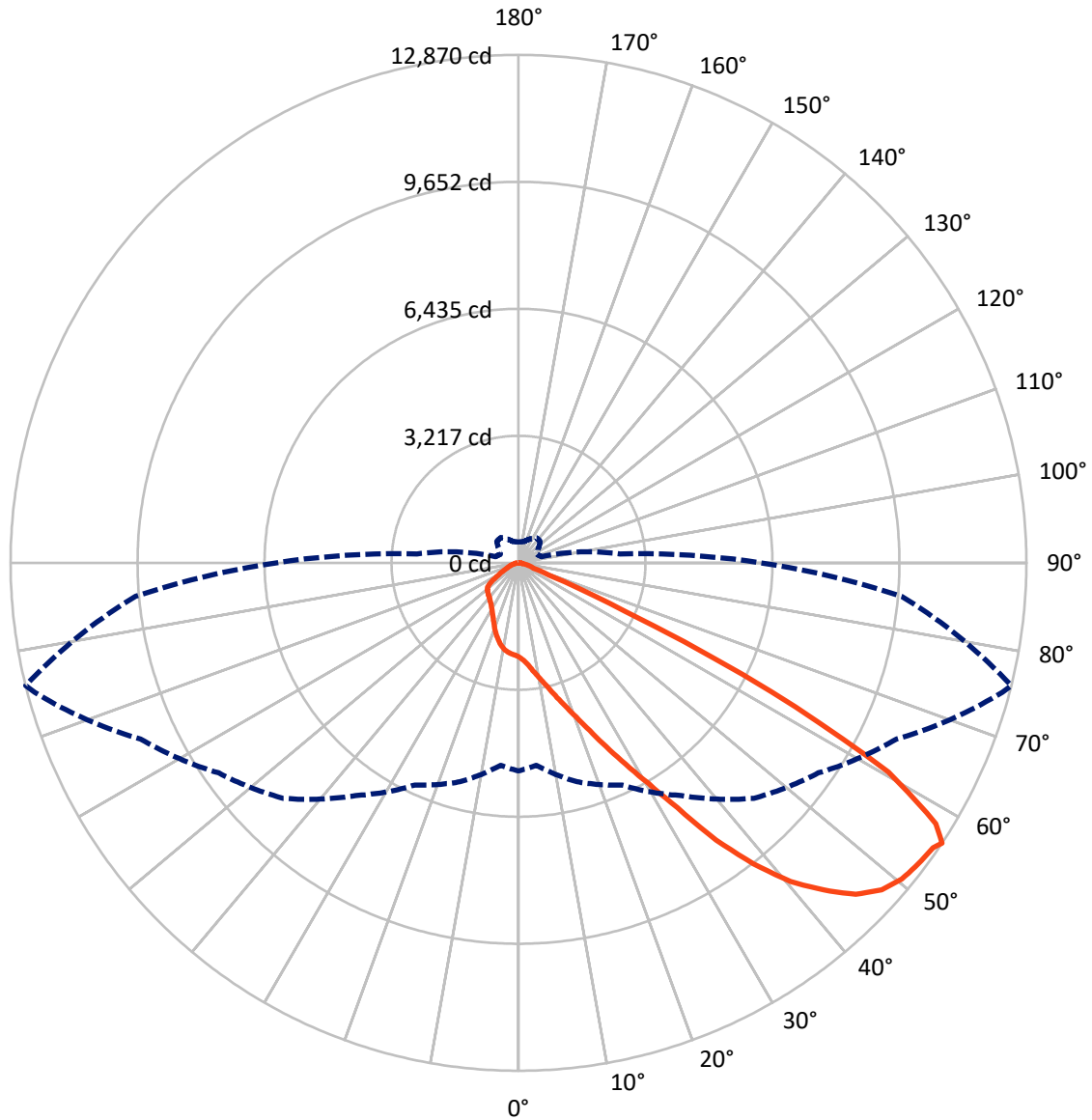
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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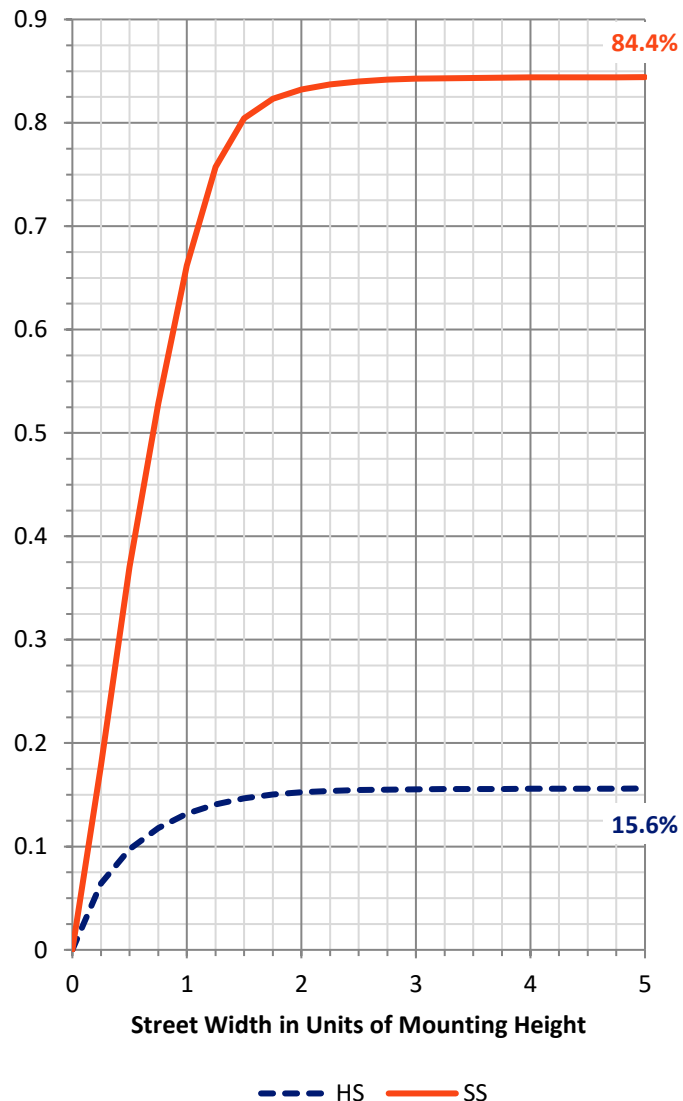
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2253.5	0.0	2253.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	12091.5	0.0	12091.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	14345.0	0.0	14345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	1.7
10°-20°	772.7	5.4
20°-30°	1401.2	9.8
30°-40°	2416.4	16.8
40°-50°	3925.5	27.4
50°-60°	4137.7	28.8
60°-70°	1264.2	8.8
70°-80°	162.1	1.1
80°-90°	24.6	0.2
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°	14345.0	100.0
0°-180°	14345.0	100.0

Coefficient of Utilization

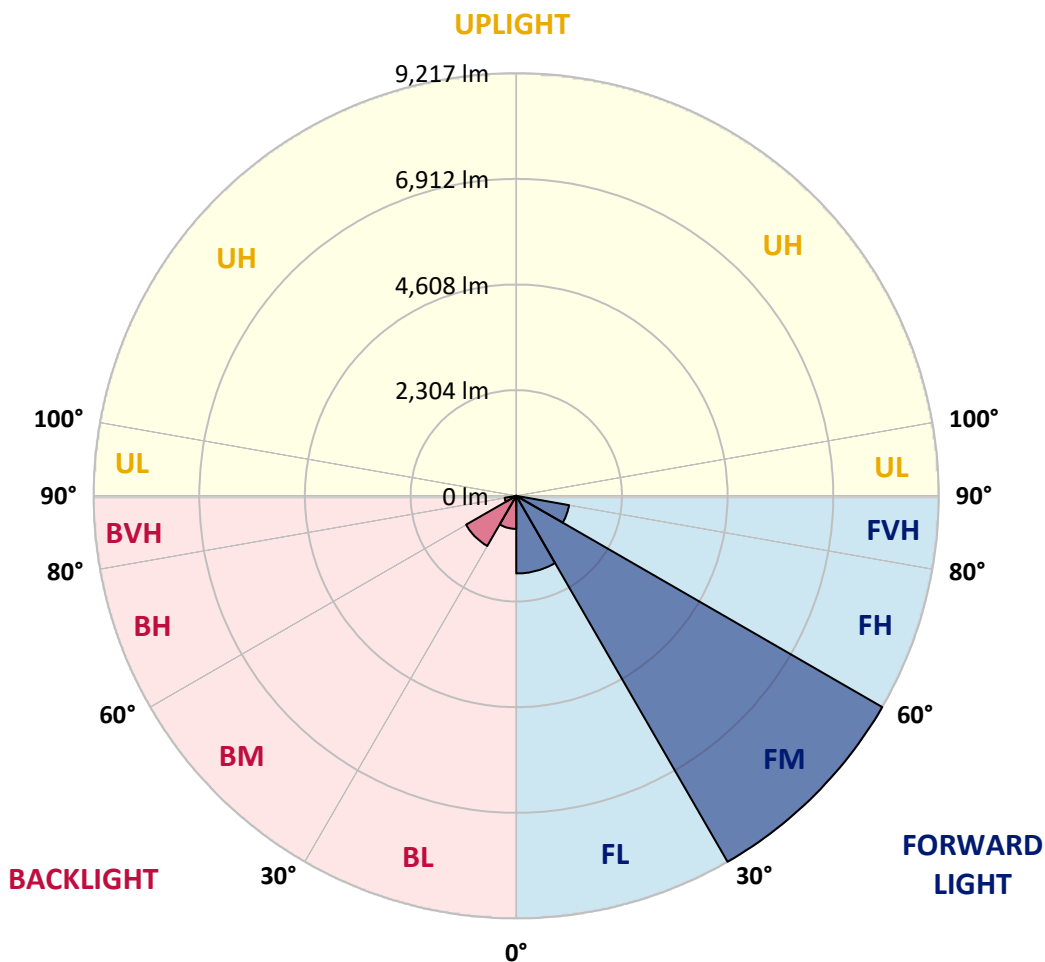


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.6	11.8			
FM (30°-60°)	9216.6	64.2			
FH (60°-80°)	1169.2	8.2			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	720.9	5.0	B2/1000		
BM (30°-60°)	1263.0	8.8	B2/2500		
BH (60°-80°)	257.1	1.8	B1/500		G1/500
BVH (80°-90°)	12.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7
2.5°	2750.0	2686.5	2689.2	2683.9	2676.0	2646.9	2559.6	2546.4	2488.2	2472.4	2419.5
5°	3080.5	3025.0	3056.7	3009.1	2964.2	2937.7	2795.0	2728.9	2636.3	2601.9	2527.9
7.5°	3286.8	3260.3	3249.8	3252.4	3210.1	3144.0	3080.5	2935.1	2810.8	2784.4	2628.4
10°	3387.3	3371.4	3387.3	3379.3	3397.8	3405.8	3294.7	3207.5	3025.0	2980.1	2736.8
12.5°	3411.1	3442.8	3456.0	3490.4	3535.3	3612.0	3604.1	3485.1	3241.8	3212.7	2903.4
15°	3469.2	3495.7	3482.5	3538.0	3622.6	3752.2	3820.9	3802.4	3540.6	3487.7	3096.4
17.5°	3522.1	3474.5	3519.5	3630.5	3715.2	3913.5	4080.1	4156.7	3865.9	3805.1	3273.6
20°	3593.5	3580.3	3572.4	3627.9	3778.6	4043.0	4373.6	4513.7	4230.8	4167.3	3527.4
22.5°	3810.3	3813.0	3807.7	3725.7	3834.1	4132.9	4630.1	4976.5	4667.1	4614.2	3815.6
25°	4095.9	4061.5	4035.1	3969.0	3955.8	4214.9	4889.2	5542.3	5190.6	5153.6	4127.7
27.5°	4397.4	4397.4	4318.0	4257.2	4172.6	4418.5	5127.2	6092.3	5822.6	5772.4	4400.0
30°	4725.3	4743.8	4733.2	4603.6	4550.7	4640.6	5370.4	6795.7	6547.1	6483.7	4849.5
32.5°	5209.1	5169.5	5214.4	5106.0	4950.0	5029.3	5753.9	7425.0	7488.5	7398.6	5439.2
35°	5849.1	5825.3	5796.2	5619.0	5433.9	5497.4	6295.9	8199.8	8670.5	8625.5	6034.2
37.5°	6422.9	6409.6	6385.8	6264.2	6050.0	6126.7	6912.0	9006.3	9823.3	9675.3	6875.0
40°	7025.7	7097.1	7020.5	6912.0	6716.4	6885.6	7636.6	9484.9	10793.8	10614.0	7517.6
42.5°	7842.8	7787.3	7821.7	7623.3	7517.6	7702.7	8363.7	9963.5	11547.4	11333.2	8199.8
45°	8712.8	8715.4	8622.9	8559.4	8284.4	8485.4	8810.6	10227.9	12147.6	11981.0	8715.4
47.5°	9270.7	9268.1	9368.5	9469.0	9186.1	8987.8	9114.7	10479.1	12457.0	12380.3	8903.1
50°	9183.4	9209.9	9339.4	9714.9	9863.0	9595.9	9400.3	10405.1	12597.1	12589.2	9064.4
52.5°	7988.2	8075.5	8292.3	8834.4	9580.1	9910.6	9699.1	10542.6	12665.9	12679.1	9305.1
55°	6081.7	6129.3	6541.8	7200.3	8025.3	9157.0	9580.1	10651.0	12718.8	12742.6	9595.9
56°	5275.3	5148.3	5743.3	6211.3	7197.6	8435.1	9278.6	10566.4	12687.1	12869.5	9741.4
57.5°	3982.2	3897.6	4378.9	4963.2	5912.5	7218.8	8342.6	10167.1	12472.9	12470.2	9532.5
60°	2422.1	2337.5	2707.7	3051.5	3582.9	4445.0	5637.5	8096.7	10545.2	10767.3	7718.5
62.5°	1441.1	1494.0	1858.9	2067.8	2239.7	2329.6	2916.6	4812.5	7036.3	7195.0	4788.7
65°	959.9	978.4	1253.4	1597.1	1673.8	1332.7	1187.3	1948.8	3051.5	2953.6	1975.2
67.5°	592.3	634.6	840.9	1200.5	1330.1	973.1	563.2	727.2	840.9	840.9	571.2
70°	359.6	380.8	560.6	817.1	912.3	626.7	409.9	409.9	404.6	396.6	341.1
72.5°	171.9	185.1	285.6	420.4	428.4	330.5	317.3	346.4	338.5	335.8	282.9
75°	74.0	79.3	100.5	132.2	150.7	140.1	193.0	248.6	256.5	248.6	203.6
77.5°	23.8	26.4	37.0	47.6	50.2	60.8	82.0	103.1	119.0	111.1	100.5
80°	2.6	5.3	10.6	23.8	37.0	47.6	60.8	68.8	76.7	76.7	71.4
82.5°	2.6	2.6	10.6	21.2	34.4	45.0	58.2	66.1	76.7	79.3	74.0
85°	0.0	2.6	7.9	18.5	29.1	29.1	26.4	26.4	18.5	18.5	18.5
87.5°	0.0	0.0	2.6	2.6	2.6	5.3	5.3	5.3	5.3	5.3	5.3
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°	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7
2.5°	2408.9	2403.6	2332.2	2287.3	2263.5	2215.9	2186.8	2165.6	2149.8	2131.3	2133.9
5°	2440.6	2422.1	2303.1	2221.2	2123.3	2070.4	2025.5	1988.5	1964.7	1959.4	1948.8
7.5°	2530.5	2432.7	2252.9	2104.8	1980.5	1927.6	1888.0	1864.2	1874.8	1851.0	1869.5
10°	2599.3	2453.9	2192.1	1977.9	1853.6	1813.9	1792.8	1811.3	1837.7	1827.2	1813.9
12.5°	2683.9	2475.0	2094.2	1856.3	1739.9	1710.8	1747.8	1782.2	1835.1	1856.3	1829.8
15°	2779.1	2498.8	1970.0	1716.1	1642.1	1665.9	1729.3	1790.1	1843.0	1869.5	1885.3
17.5°	2895.4	2490.9	1848.3	1605.1	1549.5	1618.3	1695.0	1750.5	1829.8	1869.5	1858.9
20°	3003.9	2464.4	1713.5	1494.0	1496.6	1560.1	1623.6	1713.5	1755.8	1808.7	1790.1
22.5°	3107.0	2416.8	1573.3	1417.3	1417.3	1515.1	1546.9	1605.1	1642.1	1668.5	1665.9
25°	3252.4	2326.9	1457.0	1343.3	1375.0	1438.5	1464.9	1483.4	1467.6	1488.7	1491.4
27.5°	3355.5	2234.4	1361.8	1277.2	1335.3	1382.9	1375.0	1364.4	1327.4	1298.3	1316.8
30°	3466.6	2126.0	1279.8	1232.2	1263.9	1306.3	1274.5	1242.8	1184.6	1137.0	1139.7
32.5°	3625.3	2075.7	1208.4	1179.3	1221.6	1226.9	1192.6	1145.0	1086.8	1041.8	1039.2
35°	3921.4	2044.0	1147.6	1145.0	1152.9	1155.5	1121.2	1063.0	1039.2	1002.2	1015.4
37.5°	4217.6	2028.1	1105.3	1094.7	1092.1	1094.7	1055.1	999.5	1044.5	1041.8	1047.1
40°	4595.7	2099.5	1044.5	1031.3	1033.9	1033.9	983.7	967.8	1047.1	1055.1	1057.7
42.5°	4979.1	2189.4	1004.8	962.5	973.1	973.1	946.6	928.1	983.7	930.8	922.8
45°	5312.3	2321.6	962.5	893.8	920.2	933.4	925.5	893.8	859.4	769.5	769.5
47.5°	5420.7	2438.0	912.3	827.6	848.8	907.0	883.2	817.1	756.3	682.2	676.9
50°	5611.1	2564.9	872.6	751.0	795.9	867.3	843.5	777.4	708.7	655.8	658.4
52.5°	5806.7	2710.3	798.6	661.1	716.6	835.6	835.6	761.5	655.8	618.8	613.5
55°	6100.3	2705.1	666.3	542.1	639.9	788.0	801.2	682.2	587.0	557.9	557.9
56°	6142.6	2583.4	600.2	507.7	605.5	774.8	777.4	661.1	560.6	528.8	528.8
57.5°	5825.3	2332.2	526.2	465.4	563.2	751.0	753.6	642.5	539.4	494.5	489.2
60°	4482.0	1578.6	438.9	415.1	510.3	676.9	690.1	584.4	473.3	438.9	436.3
62.5°	2530.5	875.2	386.1	375.5	438.9	576.4	616.1	510.3	401.9	383.4	388.7
65°	1155.5	481.3	325.2	304.1	354.3	444.2	497.1	420.4	330.5	309.4	309.4
67.5°	423.1	327.9	277.6	240.6	248.6	288.2	322.6	272.4	219.5	187.7	195.7
70°	301.4	275.0	243.3	208.9	193.0	187.7	185.1	153.4	108.4	84.6	89.9
72.5°	243.3	227.4	203.6	177.2	150.7	126.9	108.4	79.3	50.2	34.4	31.7
75°	174.5	166.6	148.1	126.9	105.8	89.9	74.0	50.2	26.4	13.2	13.2
77.5°	89.9	89.9	87.3	79.3	66.1	52.9	42.3	29.1	15.9	5.3	5.3
80°	68.8	74.0	76.7	68.8	60.8	47.6	34.4	21.2	10.6	2.6	2.6
82.5°	66.1	76.7	82.0	71.4	60.8	45.0	34.4	21.2	10.6	2.6	2.6
85°	15.9	15.9	23.8	26.4	34.4	37.0	29.1	18.5	7.9	2.6	2.6
87.5°	5.3	5.3	5.3	5.3	5.3	5.3	2.6	2.6	2.6	2.6	0.0
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)