

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: McGRAW-EDISON

Report Number: P648593

Luminaire Tested: **GALN-SA8B-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21040 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

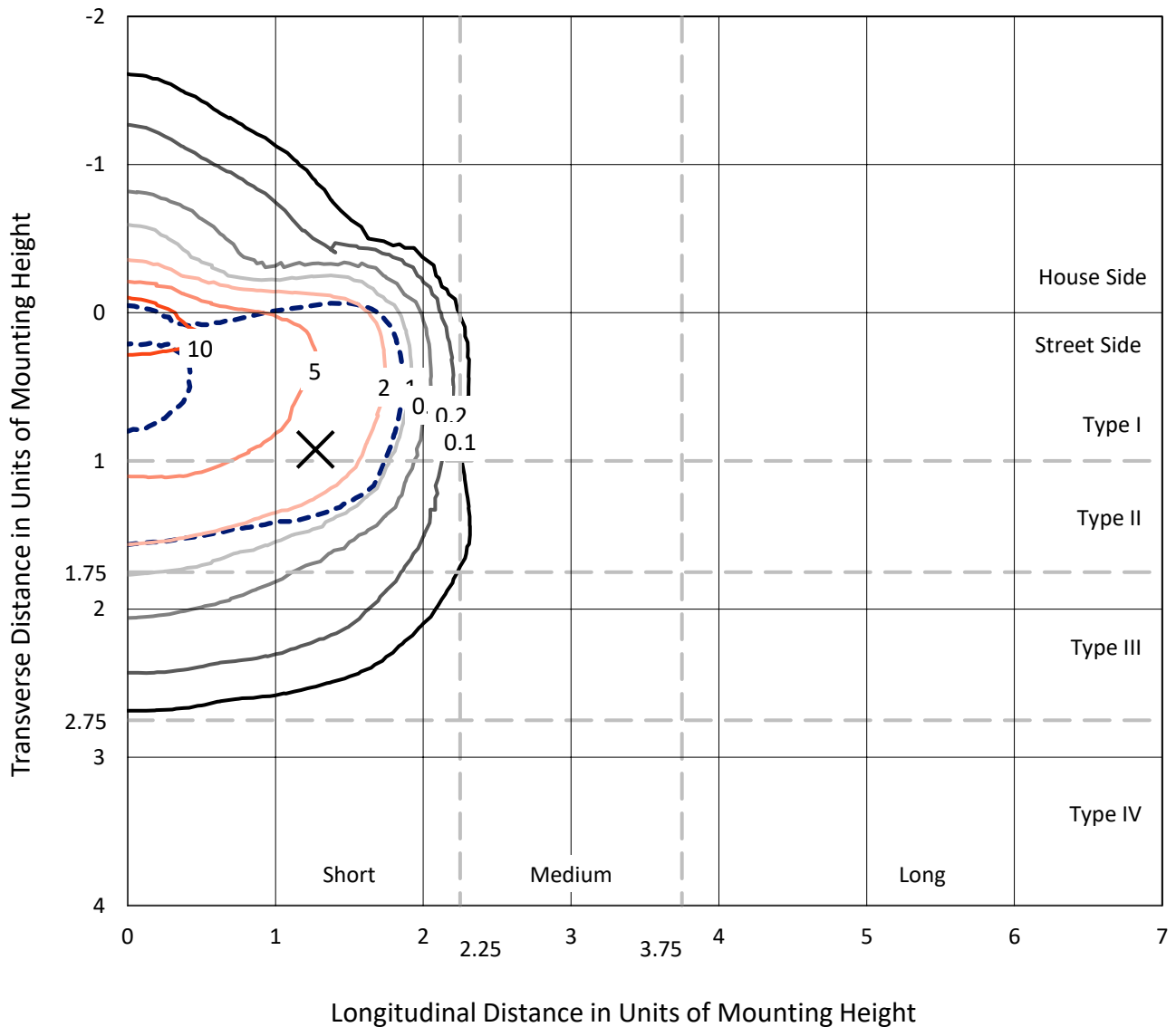
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

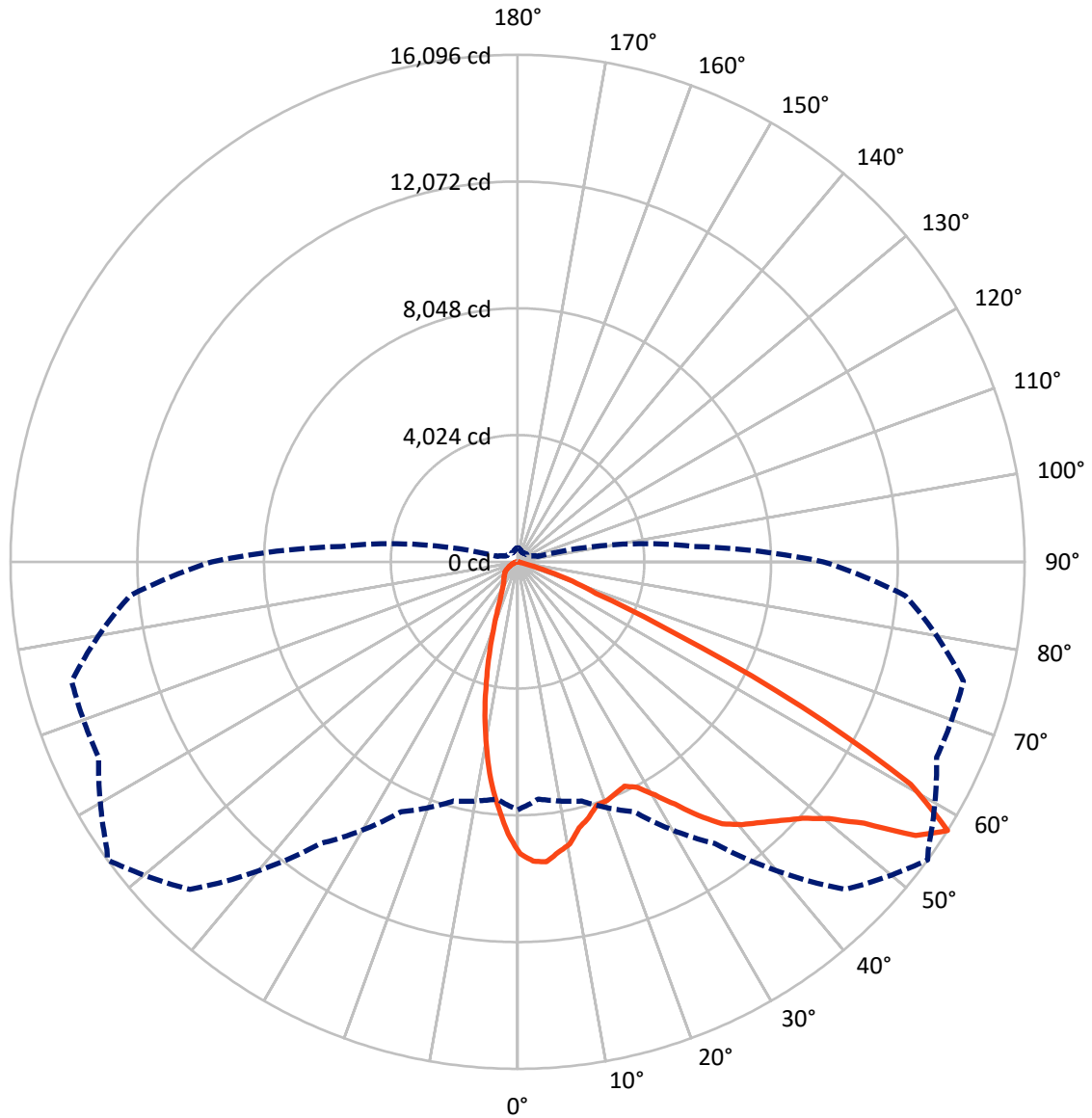
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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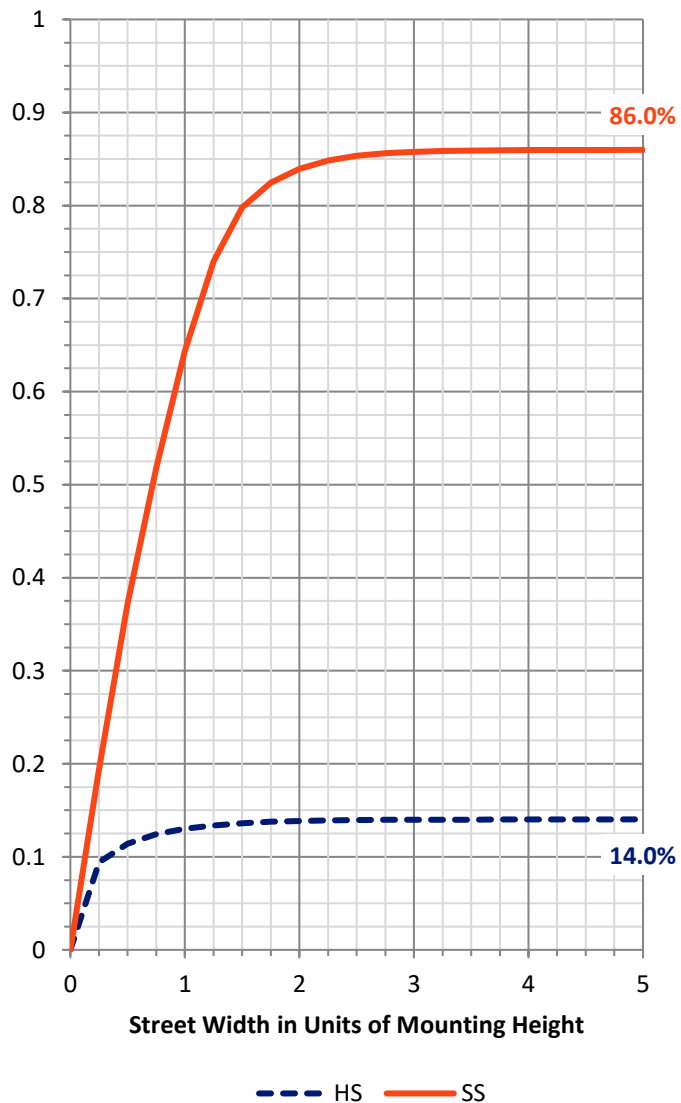
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2973.3	0.0	2973.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18066.7	0.0	18066.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	21040.0	0.0	21040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.6	3.7
10°-20°	1655.9	7.9
20°-30°	2194.4	10.4
30°-40°	3189.1	15.2
40°-50°	4728.9	22.5
50°-60°	5913.3	28.1
60°-70°	2332.5	11.1
70°-80°	232.3	1.1
80°-90°	18.1	0.1
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°	21040.0	100.0
0°-180°	21040.0	100.0

Coefficient of Utilization



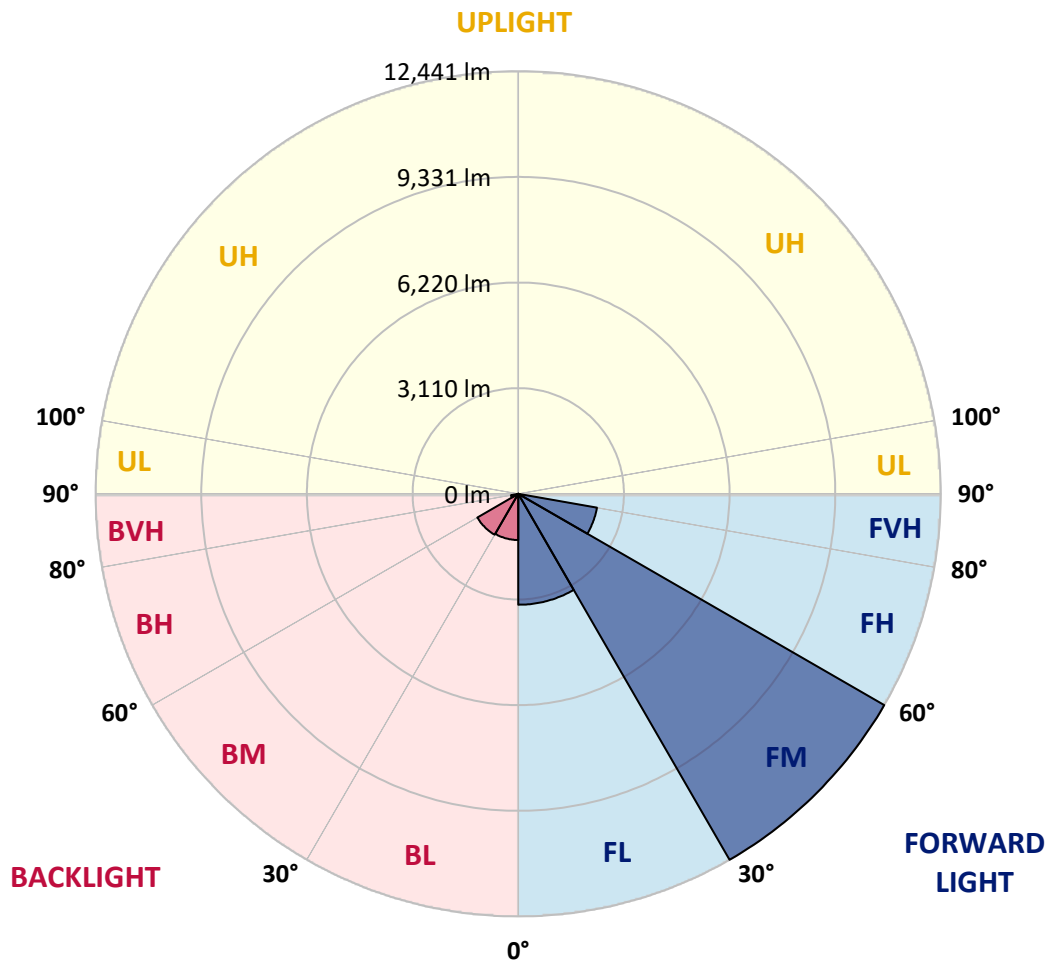
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3266.0	15.5			
FM (30°-60°)	12440.9	59.1			
FH (60°-80°)	2351.6	11.2			G2/5000
FVH (80°-90°)	8.2	0.0			G0/10
BL (0°-30°)	1359.8	6.5	B3/2500		
BM (30°-60°)	1390.4	6.6	B2/2500		
BH (60°-80°)	213.2	1.0	B1/500		G1/500
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4
2.5°	9808.3	9706.6	9714.4	9679.2	9632.2	9667.5	9514.9	9550.1	9546.2	9338.8	9201.9
5°	9561.8	9671.4	9557.9	9651.8	9561.8	9659.6	9565.8	9495.3	9381.8	9229.3	8975.0
7.5°	9143.2	9037.5	9068.9	9186.2	9205.8	9424.9	9307.5	9397.5	9350.6	9049.3	8701.1
10°	8302.1	8278.6	8435.1	8591.5	8783.3	9018.0	9108.0	9057.1	9021.9	8908.4	8442.9
12.5°	7656.5	7723.0	7719.1	7977.3	8302.1	8435.1	8669.8	8662.0	8857.6	8646.4	8200.4
15°	7042.2	7077.5	7241.8	7402.2	7762.1	8141.6	8431.2	8470.3	8705.0	8556.3	8012.5
17.5°	6666.7	6615.8	6744.9	6936.6	7304.4	7801.3	8122.1	8215.9	8536.8	8505.5	7797.3
20°	6295.0	6295.0	6400.6	6627.5	6964.0	7523.5	8094.7	8067.3	8536.8	8446.8	7566.5
22.5°	6169.8	6232.4	6259.8	6432.0	6831.0	7312.2	7977.3	8028.2	8603.3	8419.4	7464.8
25°	6342.0	6259.8	6267.6	6404.5	6780.2	7210.5	7891.2	8004.7	8724.6	8556.3	7382.7
27.5°	6369.3	6451.5	6474.9	6568.9	6819.2	7241.8	8106.4	8337.2	9025.8	8877.2	7406.1
30°	6608.0	6690.2	6686.3	6846.6	7018.8	7496.1	8587.6	8634.6	9647.9	9280.1	7550.9
32.5°	6897.5	6983.6	7011.0	7198.7	7335.7	7961.7	9174.5	9295.8	10246.5	9914.0	7930.4
35°	7257.5	7226.2	7351.4	7539.1	7832.6	8642.4	9890.5	10093.9	10892.0	10735.6	8321.6
37.5°	7707.4	7668.2	7789.5	8094.7	8493.7	9448.4	10551.6	10684.7	11361.5	11498.4	9045.4
40°	8024.3	8039.9	8407.7	8818.5	9241.0	10215.2	10970.3	11099.4	11690.2	12210.5	9593.2
42.5°	8552.5	8650.3	9092.4	9593.2	10035.2	10790.3	11310.7	11435.9	11842.7	12781.7	10332.5
45°	9319.3	9276.2	9765.3	10324.7	10813.8	11388.9	11713.6	11670.6	11932.7	13349.0	10798.1
47.5°	10305.1	10313.0	10637.8	11115.1	11623.6	11909.3	12163.5	12011.0	12120.5	13947.6	11420.2
50°	10978.1	11036.8	11298.9	11788.0	12042.3	12480.5	12805.2	12711.3	12676.1	14307.5	11811.5
52.5°	11150.2	11326.3	11467.1	12077.5	12672.2	13364.6	13779.4	13978.9	13352.9	14428.8	12308.3
55°	9851.3	10007.8	10504.7	11342.0	12910.8	14765.3	15336.5	15340.4	14237.1	14968.7	12656.5
57.5°	7875.6	7558.7	7863.8	8752.0	10915.5	14706.6	16095.5	15911.6	14679.2	14651.8	12355.3
60°	5446.0	5367.8	5387.4	5739.5	7554.8	11697.9	14342.8	14581.4	13517.2	12699.6	9780.9
62.5°	4315.3	4248.8	4162.7	4123.7	4691.0	7288.7	10117.4	10453.8	9452.3	8235.5	5798.1
65°	3380.3	3341.1	3352.9	3509.4	3505.5	4135.3	5532.1	5395.2	4319.3	3192.5	1823.1
67.5°	2280.9	2339.6	2386.5	2859.9	3102.5	2879.5	2672.1	2593.9	1404.5	590.8	403.0
70°	1283.3	1291.1	1341.9	1788.0	2355.3	2234.0	1842.7	1842.7	700.3	215.2	230.8
72.5°	700.3	676.8	629.9	770.7	1048.5	1064.2	821.6	716.0	207.3	140.9	129.1
75°	340.4	336.5	289.6	238.7	226.9	187.8	144.8	133.0	93.9	90.0	78.2
77.5°	70.4	66.5	35.2	35.2	39.2	43.1	54.8	54.8	66.5	66.5	54.8
80°	0.0	0.0	3.9	15.7	27.4	39.2	47.0	47.0	54.8	54.8	43.1
82.5°	0.0	0.0	3.9	11.7	23.5	35.2	43.1	47.0	54.8	58.6	47.0
85°	0.0	0.0	0.0	7.8	19.6	27.4	23.5	23.5	19.6	15.7	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4	9268.4
2.5°	9131.5	9123.7	8943.7	8841.9	8658.1	8497.7	8368.5	8274.7	8274.7	8215.9	8161.2
5°	8873.3	8806.7	8423.4	8176.9	7828.7	7570.4	7394.3	7257.5	7042.2	7100.9	6870.1
7.5°	8552.5	8384.2	7875.6	7500.0	7018.8	6651.0	6275.4	5942.9	5622.1	5477.3	5555.5
10°	8208.1	7914.7	7230.1	6635.4	6036.8	5363.9	4925.7	4393.6	4064.9	4045.4	3959.3
12.5°	7844.3	7511.7	6678.4	5856.8	5070.4	4260.5	3591.5	3094.7	2871.7	2625.2	2672.1
15°	7570.4	7077.5	6064.2	5074.3	4029.7	3212.0	2539.1	2155.7	1944.4	1885.8	1866.2
17.5°	7273.1	6744.9	5438.2	4241.0	3161.2	2312.2	1827.1	1643.2	1561.1	1561.1	1549.3
20°	6964.0	6369.3	4816.2	3466.3	2370.9	1725.3	1463.2	1404.5	1400.6	1396.7	1396.7
22.5°	6760.6	5939.0	4252.7	2754.3	1788.0	1381.1	1271.5	1248.0	1263.7	1310.7	1310.7
25°	6545.4	5524.3	3630.7	2124.4	1385.0	1185.5	1122.8	1138.5	1177.6	1220.7	1205.0
27.5°	6326.3	5254.3	3043.8	1666.7	1134.6	1036.8	1013.3	1048.5	1091.6	1130.7	1118.9
30°	6275.4	4964.8	2488.3	1263.7	974.2	903.7	919.4	950.7	993.7	1009.4	1025.0
32.5°	6353.7	4737.9	2038.3	1036.8	849.0	829.4	829.4	845.1	872.5	907.7	895.9
35°	6576.7	4608.7	1611.9	899.8	778.5	759.0	755.1	770.7	786.4	798.1	786.4
37.5°	6917.1	4507.0	1318.5	798.1	731.6	700.3	692.5	688.6	704.2	708.1	716.0
40°	7351.4	4561.8	1118.9	735.6	684.7	649.4	626.0	626.0	626.0	637.8	641.6
42.5°	7820.8	4636.1	966.4	700.3	641.6	598.6	575.1	567.3	575.1	590.8	586.9
45°	8313.8	4780.9	868.6	645.5	602.5	547.7	516.5	508.6	528.1	559.5	555.5
47.5°	8775.5	4988.3	794.2	610.3	563.4	512.6	473.4	465.6	500.8	543.8	547.7
50°	9237.1	5348.2	766.8	582.9	536.0	477.3	442.1	434.3	473.4	528.1	539.9
52.5°	9769.2	5735.6	747.3	547.7	504.7	449.9	410.8	403.0	446.0	516.5	520.4
55°	10117.4	6064.2	731.6	485.1	446.0	406.9	375.6	371.7	418.6	481.2	496.9
57.5°	9710.5	5606.4	676.8	422.5	379.5	359.9	332.5	332.5	371.7	430.3	442.1
60°	7363.1	3689.3	481.2	340.4	320.8	309.1	297.3	297.3	328.6	371.7	375.6
62.5°	4311.4	1987.5	309.1	273.9	273.9	262.1	242.6	242.6	273.9	297.3	301.2
65°	1279.3	637.8	250.4	234.7	230.8	211.3	191.7	187.8	211.3	223.0	219.1
67.5°	367.8	293.4	207.3	195.6	191.7	160.4	148.7	144.8	148.7	140.9	136.9
70°	219.1	199.5	160.4	164.4	144.8	117.4	105.6	101.7	93.9	82.1	74.3
72.5°	121.3	121.3	117.4	125.2	101.7	78.2	66.5	54.8	43.1	35.2	31.3
75°	74.3	78.2	82.1	86.1	66.5	50.9	43.1	27.4	15.7	7.8	7.8
77.5°	50.9	54.8	58.6	62.6	54.8	47.0	35.2	19.6	3.9	0.0	0.0
80°	39.2	43.1	50.9	54.8	58.6	62.6	47.0	19.6	3.9	0.0	0.0
82.5°	43.1	47.0	58.6	54.8	54.8	54.8	43.1	19.6	3.9	0.0	0.0
85°	7.8	11.7	19.6	19.6	27.4	35.2	27.4	7.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)