

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: P648596

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA 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: 35659.4 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

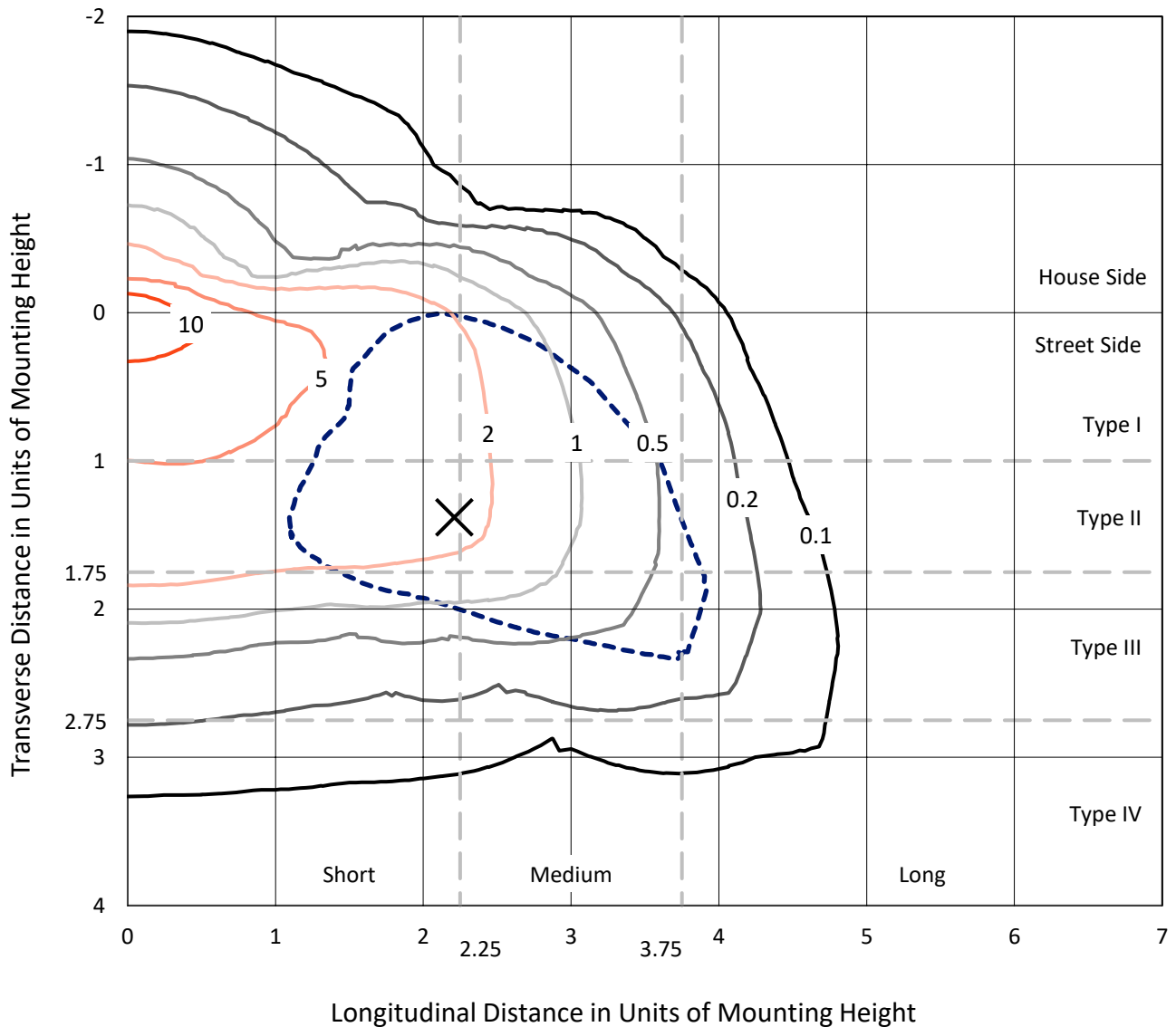
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

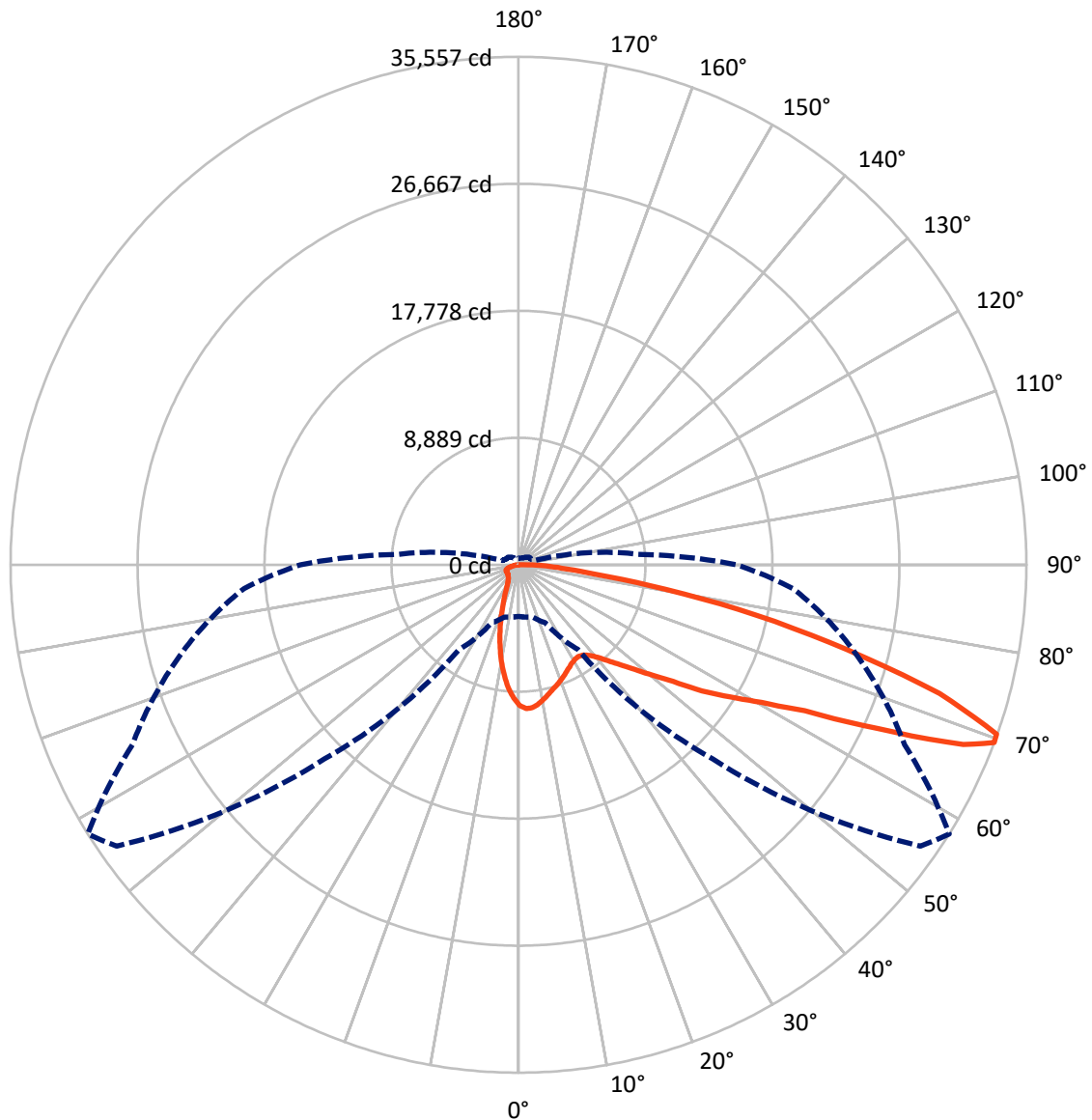
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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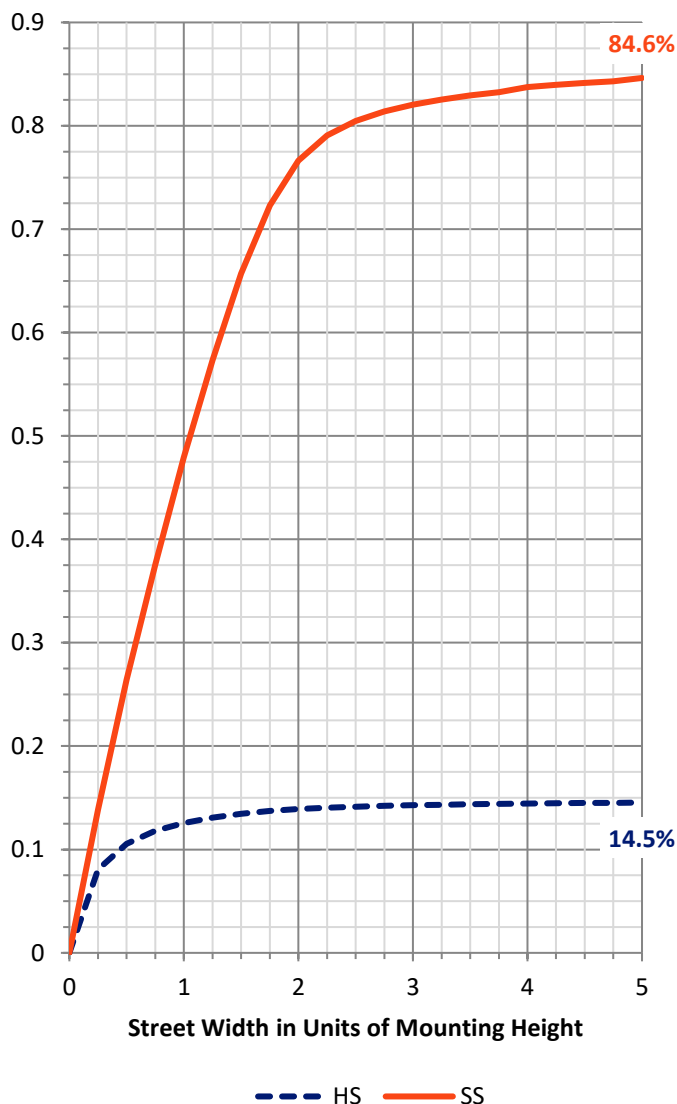
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5225.9	0.0	5225.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	30433.5	0.0	30433.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	35659.4	0.0	35659.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.9	2.3
10°-20°	1837.6	5.2
20°-30°	2374.2	6.7
30°-40°	3083.6	8.6
40°-50°	4483.1	12.6
50°-60°	7153.6	20.1
60°-70°	9556.4	26.8
70°-80°	5508.9	15.4
80°-90°	825.1	2.3
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°	35659.4	100.0
0°-180°	35659.4	100.0

Coefficient of Utilization



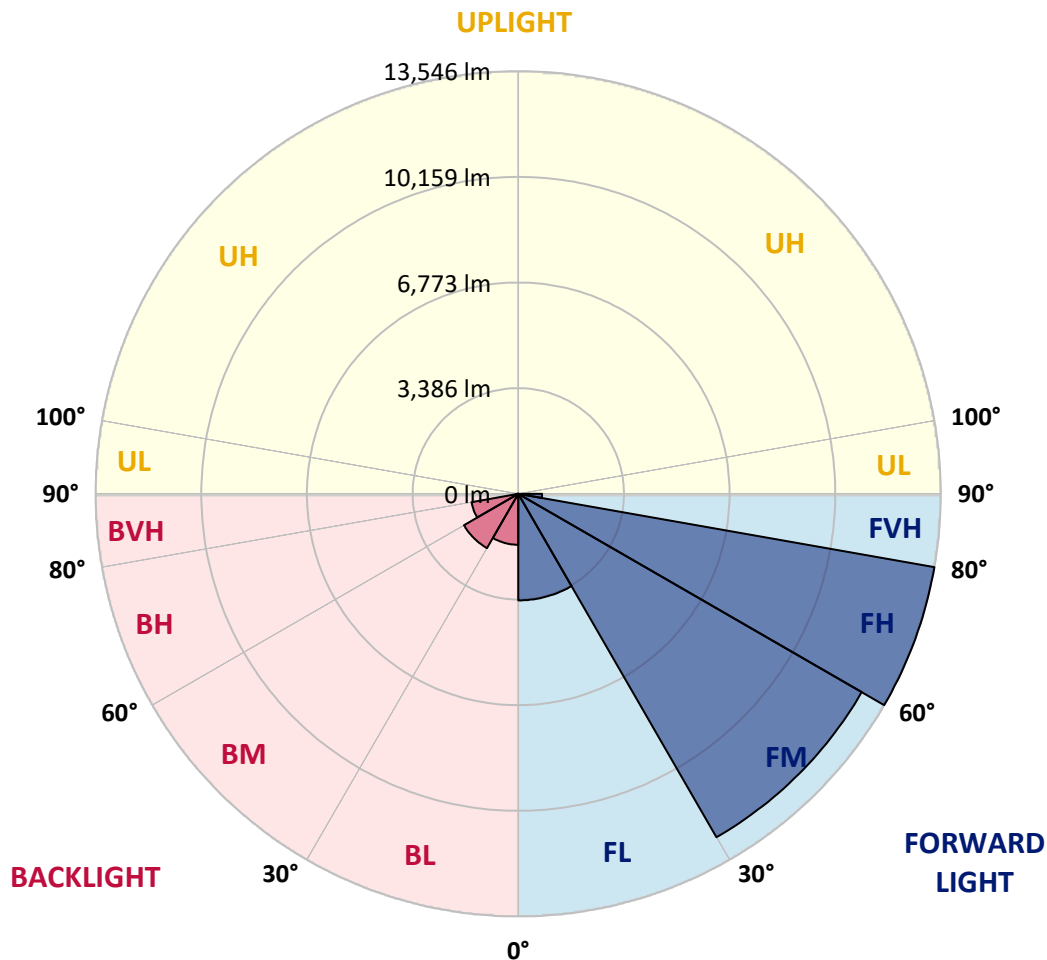
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3415.3	9.6			
FM (30°-60°)	12710.7	35.6			
FH (60°-80°)	13545.6	38.0			G5
FVH (80°-90°)	761.9	2.1			G5
BL (0°-30°)	1633.4	4.6	B3/2500		
BM (30°-60°)	2009.7	5.6	B2/2500		
BH (60°-80°)	1519.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	63.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1
2.5°	10220.1	10247.9	10240.0	10230.1	10214.2	10170.4	10098.7	10086.8	10041.1	9943.6	9822.3
5°	10063.0	10086.8	10088.8	10102.7	10122.6	10114.7	10063.0	10057.0	9989.4	9858.1	9655.3
7.5°	9524.0	9555.9	9625.5	9703.0	9772.6	9838.2	9854.1	9864.1	9822.3	9671.2	9400.7
10°	8917.5	8949.3	8981.1	9096.4	9267.5	9430.5	9565.8	9583.7	9593.6	9454.4	9124.3
12.5°	8245.3	8310.9	8378.5	8549.6	8778.3	9034.8	9273.5	9311.3	9378.9	9273.5	8885.6
15°	7674.5	7742.1	7839.6	7992.7	8269.2	8639.1	8975.1	9036.8	9170.0	9116.3	8662.9
17.5°	7278.8	7302.6	7370.2	7545.2	7843.5	8233.3	8682.8	8806.1	9018.9	9005.0	8472.0
20°	6966.5	6996.3	7038.2	7145.5	7455.7	7867.4	8410.4	8569.5	8857.8	8905.5	8283.0
22.5°	6835.3	6857.1	6851.2	6908.9	7119.7	7533.3	8133.9	8322.8	8714.6	8838.0	8108.0
25°	6843.3	6863.2	6833.3	6819.4	6944.7	7239.0	7845.6	8086.2	8599.3	8792.2	7948.9
27.5°	6976.5	6990.4	6934.7	6879.0	6889.0	7056.0	7606.9	7873.4	8501.8	8812.0	7815.7
30°	7155.4	7181.3	7145.5	7077.9	7004.3	7012.2	7453.8	7716.3	8456.1	8881.6	7752.1
32.5°	7386.1	7410.0	7394.1	7340.4	7244.9	7139.6	7415.9	7658.6	8460.1	9022.9	7738.2
35°	7628.8	7676.5	7702.4	7698.4	7620.8	7437.9	7565.1	7766.0	8555.5	9259.5	7819.7
37.5°	7903.2	7943.0	8054.3	8126.0	8054.3	7841.6	7901.3	8040.5	8766.3	9601.6	7998.7
40°	8169.7	8229.4	8392.4	8615.2	8587.3	8400.4	8414.4	8505.8	9138.2	10110.7	8348.7
42.5°	8448.1	8519.7	8804.1	9134.2	9199.9	9054.7	9092.5	9174.0	9667.2	10816.7	8949.3
45°	8806.1	8891.6	9241.7	9653.3	9911.8	9822.3	9929.8	9969.5	10375.2	11735.5	9740.8
47.5°	9267.5	9367.0	9798.5	10311.6	10677.5	10759.0	10945.9	10922.1	11252.3	12823.3	10767.0
50°	10045.1	10100.8	10508.5	11031.5	11534.6	11902.5	12105.4	12143.2	12340.1	13881.3	11914.5
52.5°	10969.8	11019.6	11313.9	11771.3	12401.7	13181.3	13682.5	13559.2	13606.9	15170.1	13256.9
55°	12010.0	12093.5	12280.4	12584.7	13402.1	14549.5	15555.9	15585.7	15056.7	16403.1	14543.6
57.5°	12815.4	12956.6	13276.8	13710.3	14746.5	16070.9	17423.3	17443.2	16767.0	17719.6	15963.6
60°	12409.7	12576.7	13308.6	14364.6	16510.4	18725.9	19654.6	19541.3	18431.6	19219.1	17695.7
62.5°	10659.6	10689.4	11753.4	13404.0	17053.3	22277.8	22975.8	22496.5	20653.0	21120.3	19455.7
65°	6898.9	7093.8	7937.0	10249.9	15269.5	24248.6	28794.8	27687.1	23767.3	23278.1	20929.4
67.5°	4355.4	4305.6	4655.6	5852.8	10502.5	22512.4	33760.7	33585.7	27840.3	24640.4	20577.4
69°	3611.5	3667.3	3786.5	4486.6	7227.1	19221.1	34347.4	35556.5	29815.1	24533.0	19298.7
70°	3275.4	3301.3	3426.6	3977.5	5576.4	16098.8	33384.8	35502.9	30590.6	24083.5	18371.9
72.5°	2599.2	2597.3	2812.1	3309.3	4168.4	9189.9	27412.7	30823.3	29723.6	21991.4	15180.0
75°	1974.8	2006.6	2243.3	2800.2	3840.2	5021.5	19129.6	23737.5	23739.5	17369.6	9472.3
77.5°	1424.0	1443.9	1720.3	2350.6	3617.5	4070.9	12741.8	17025.6	16005.3	7958.9	2977.1
80°	932.7	944.6	1155.5	1861.4	3261.5	3840.2	7555.2	10420.9	7549.2	2112.1	984.4
82.5°	511.1	570.7	706.0	1205.2	2617.2	3547.9	4592.0	5274.1	2832.0	940.7	513.1
85°	256.5	272.5	397.8	704.0	1710.3	2935.4	3197.9	3024.9	1461.7	467.4	266.5
87.5°	75.6	95.4	165.1	272.5	694.1	1529.4	1779.9	1596.9	562.8	169.0	55.7
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°	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1	9854.1
2.5°	9772.6	9736.8	9577.7	9434.5	9303.3	9164.1	9046.7	8943.3	8953.3	8955.2	8849.9
5°	9549.9	9468.3	9166.0	8883.7	8645.0	8342.7	8084.2	7917.1	7833.6	7722.3	7762.0
7.5°	9247.6	9090.5	8670.9	8201.5	7762.0	7370.2	6944.7	6652.3	6465.4	6284.4	6308.2
10°	8935.4	8682.8	8072.3	7451.8	6883.0	6256.6	5713.6	5248.3	4902.2	4772.9	4687.4
12.5°	8615.2	8283.0	7507.5	6682.1	5896.6	5146.8	4377.2	3878.0	3496.2	3293.4	3319.2
15°	8322.8	7919.1	6918.8	5912.5	4892.3	3999.3	3231.7	2756.4	2489.9	2434.2	2466.1
17.5°	8052.4	7523.4	6367.9	5164.7	3973.5	2999.0	2428.2	2159.7	2052.4	2022.6	2020.5
20°	7773.9	7187.3	5749.4	4365.3	3096.5	2324.8	1992.7	1867.5	1847.6	1859.5	1861.4
22.5°	7491.6	6771.6	5113.1	3571.7	2466.1	1901.2	1742.1	1708.3	1724.2	1752.0	1756.0
25°	7231.0	6405.7	4500.5	2875.7	1968.9	1670.5	1592.9	1592.9	1628.8	1670.5	1672.5
27.5°	7016.2	6051.7	3889.9	2283.1	1648.7	1503.5	1477.6	1491.5	1541.3	1573.1	1575.1
30°	6839.3	5721.6	3313.3	1829.6	1449.8	1370.2	1364.3	1388.1	1424.0	1453.8	1455.8
32.5°	6706.0	5431.2	2774.2	1537.3	1312.5	1268.8	1266.8	1284.7	1304.6	1312.5	1320.5
35°	6654.3	5190.6	2281.1	1352.3	1221.1	1193.2	1193.2	1191.3	1199.2	1203.2	1207.2
37.5°	6696.1	5005.6	1899.2	1233.0	1153.4	1133.5	1121.6	1109.7	1105.8	1105.8	1107.7
40°	6873.1	4908.2	1614.9	1155.5	1105.8	1075.9	1054.0	1040.1	1026.2	1030.2	1034.1
42.5°	7248.9	4926.1	1421.9	1103.7	1063.9	1022.2	990.4	974.4	964.5	976.5	974.4
45°	7847.5	5105.1	1298.6	1067.9	1022.2	968.5	938.7	922.8	922.8	940.7	946.6
47.5°	8684.8	5447.2	1233.0	1040.1	990.4	926.8	896.9	884.9	888.9	918.8	920.8
50°	9707.0	6041.8	1221.1	1026.2	974.4	896.9	863.1	851.2	861.1	892.9	896.9
52.5°	10834.6	6807.4	1278.7	1028.2	960.6	879.0	835.3	817.4	827.3	853.2	861.1
55°	12171.0	7766.0	1427.9	1036.1	940.7	869.1	815.4	775.6	787.5	805.5	807.4
57.5°	13535.3	8975.1	1690.4	1038.1	924.7	851.2	781.6	729.8	729.8	741.8	747.8
60°	15201.9	10291.7	2036.4	1040.1	926.8	825.4	735.9	678.2	670.2	676.2	678.2
62.5°	16856.5	11393.4	2094.1	1034.1	946.6	799.4	686.1	626.5	612.5	610.5	606.6
65°	17586.3	11188.6	1716.3	1006.3	968.5	783.5	646.4	576.8	552.9	544.9	544.9
67.5°	16397.1	9464.4	1290.7	968.5	954.6	767.7	608.5	534.9	507.1	491.3	491.3
69°	15279.5	8418.3	1159.5	942.7	918.8	741.8	584.7	513.1	479.3	461.4	455.4
70°	14416.3	7698.4	1103.7	920.8	884.9	712.0	566.8	497.2	459.4	439.5	435.5
72.5°	11504.8	6039.7	966.5	837.3	753.7	598.6	503.2	447.5	411.7	389.8	383.8
75°	6630.4	3273.5	801.5	727.9	606.6	465.3	425.6	389.8	362.0	342.1	336.1
77.5°	2040.4	1264.9	580.7	574.7	445.4	359.9	340.1	326.1	306.2	284.4	280.4
80°	859.1	644.3	393.8	387.8	296.3	250.6	244.6	242.7	234.7	216.7	210.8
82.5°	471.4	363.9	274.4	238.7	179.0	145.2	151.1	153.2	147.2	129.3	117.4
85°	230.7	198.9	133.3	107.4	81.5	51.7	49.7	59.7	55.7	39.8	43.8
87.5°	45.7	55.7	35.8	15.9	8.0	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)