

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: P651586

Luminaire Tested: **GALN-SA8D-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31372.7 lumens
Efficiency: N/A
Efficacy: 63.6 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

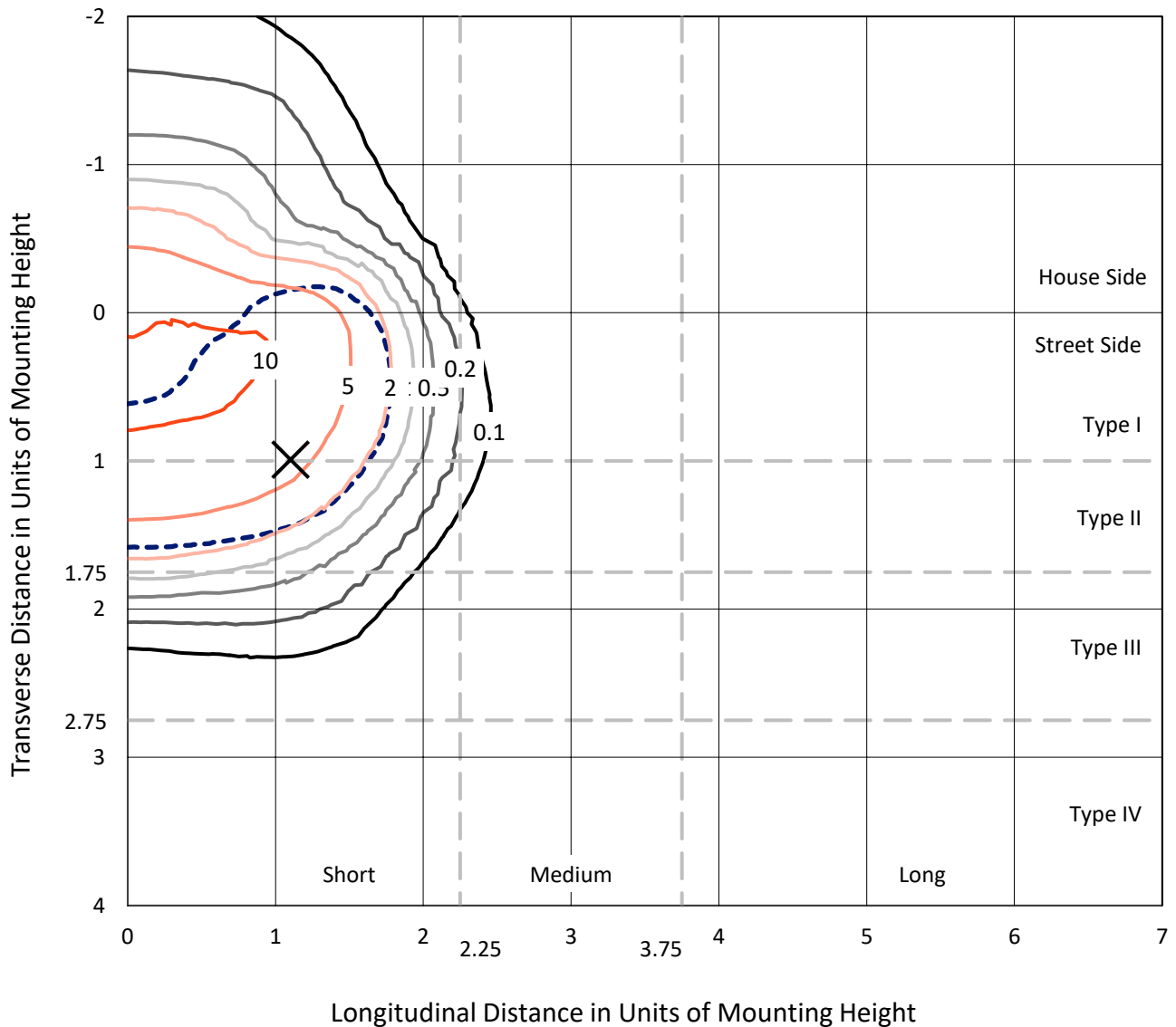
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

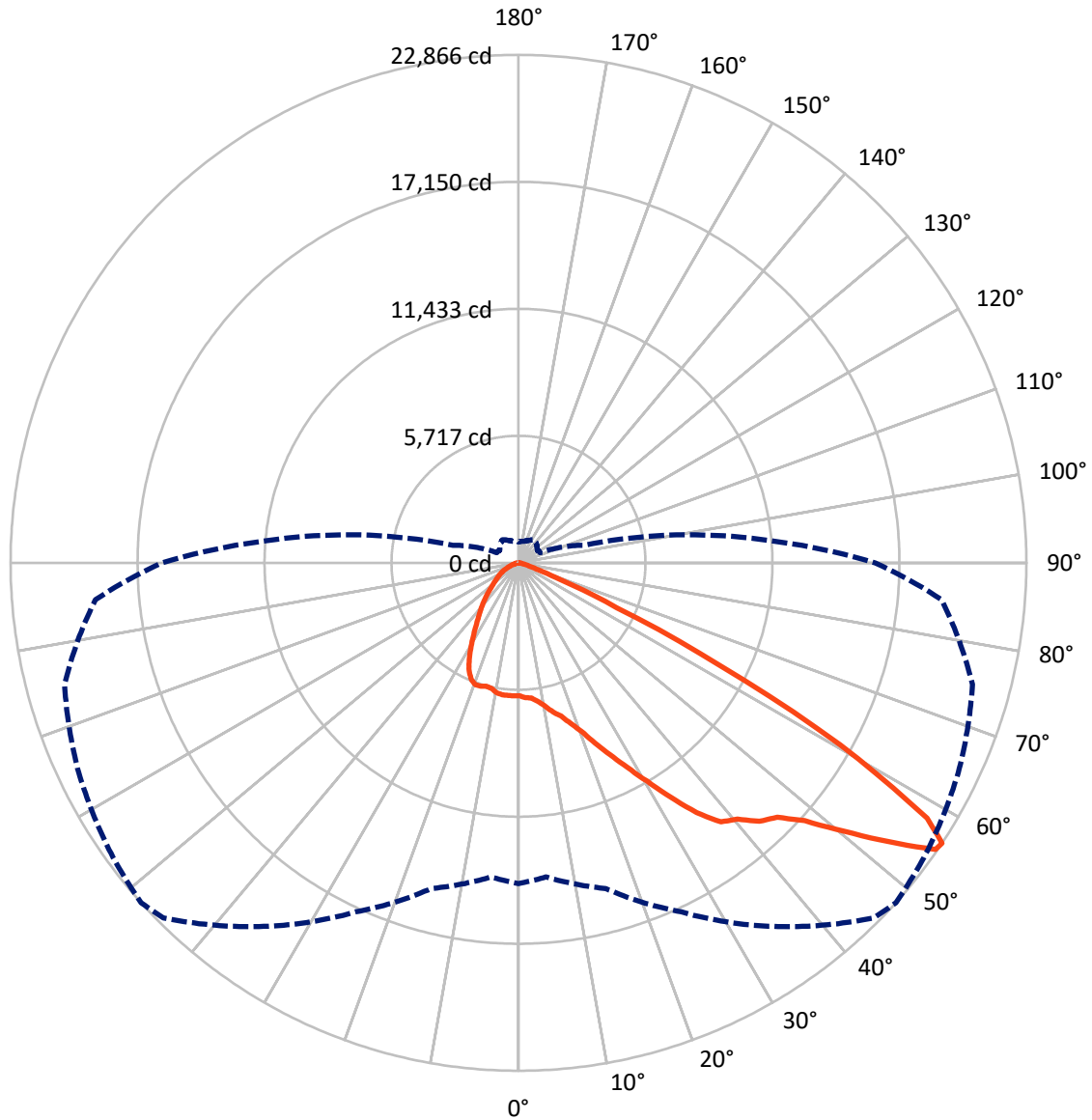
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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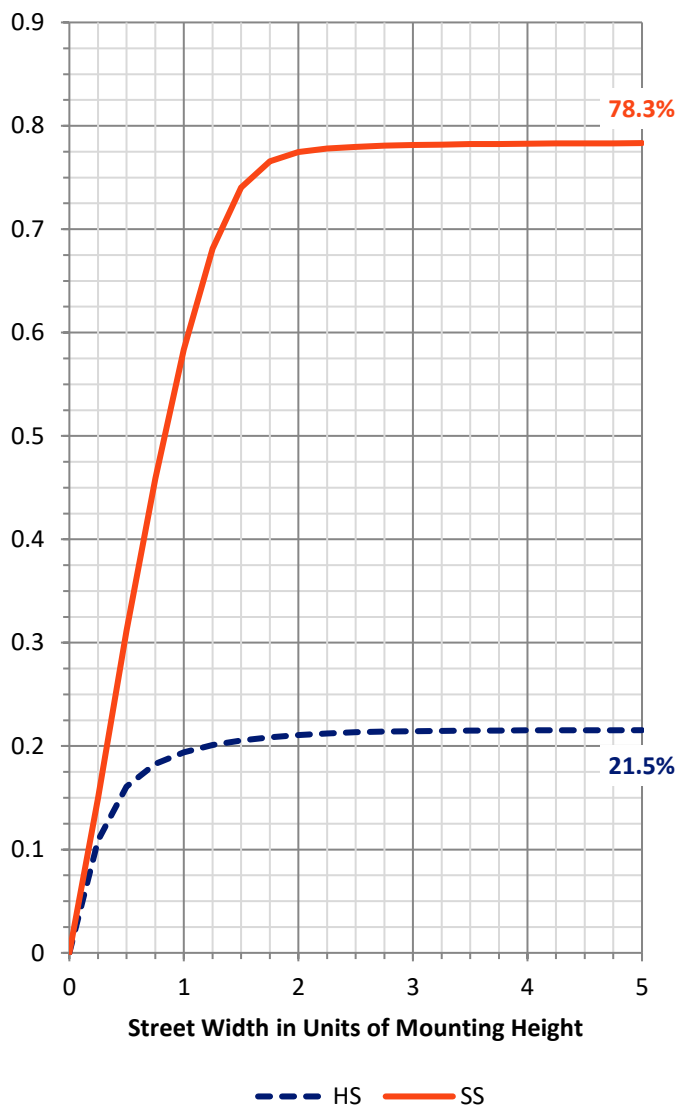
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6823.0	0.0	6823.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	24549.7	0.0	24549.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	31372.7	0.0	31372.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.7	1.9
10°-20°	1865.4	5.9
20°-30°	3383.5	10.8
30°-40°	5314.8	16.9
40°-50°	7753.3	24.7
50°-60°	9341.3	29.8
60°-70°	2735.0	8.7
70°-80°	347.0	1.1
80°-90°	48.6	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°	31372.7	100.0
0°-180°	31372.7	100.0

Coefficient of Utilization



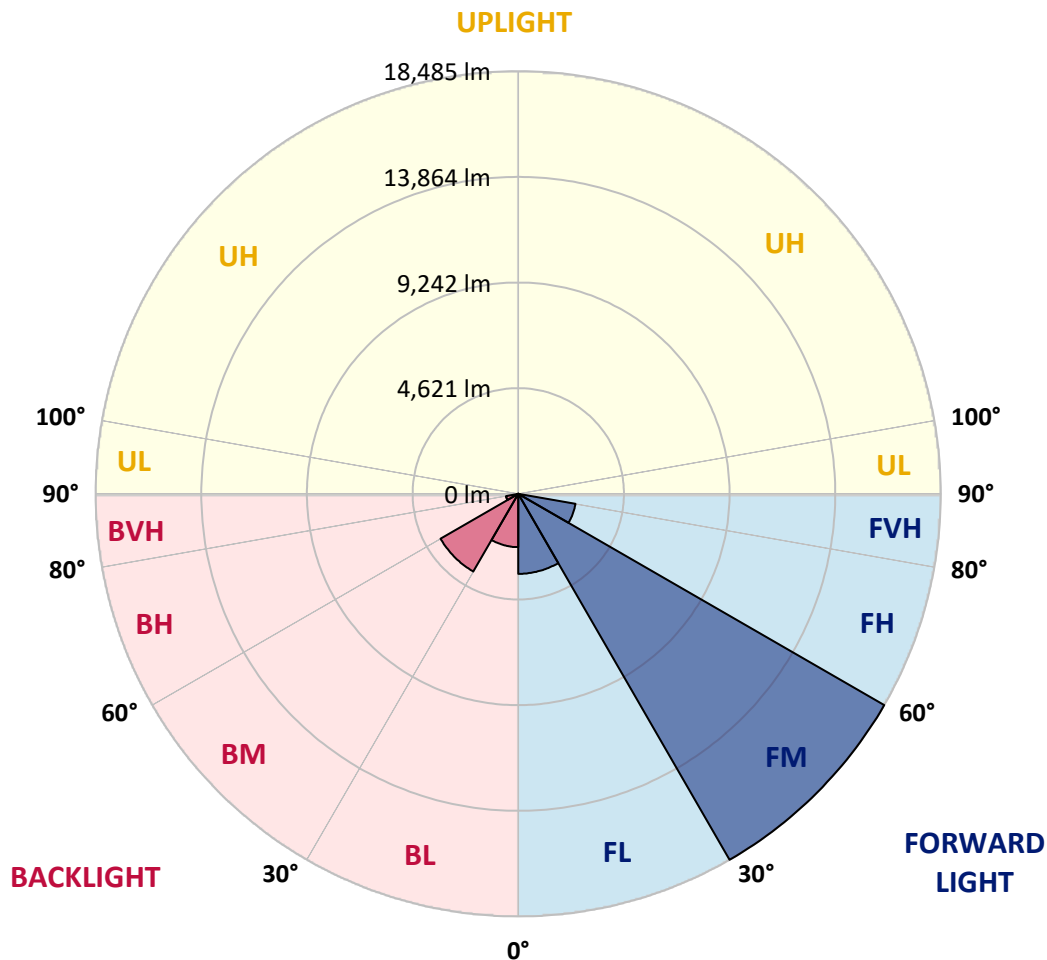
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3500.6	11.2			
FM (30°-60°)	18484.9	58.9			
FH (60°-80°)	2539.9	8.1			G2/5000
FVH (80°-90°)	24.4	0.1			G1/100
BL (0°-30°)	2332.1	7.4	B3/2500		
BM (30°-60°)	3924.5	12.5	B3/5000		
BH (60°-80°)	542.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	24.2	0.1			G1/100
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°	48°	55°	65°	75°	85°
0°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	6100.7	6072.2	6072.2	6026.4	6077.9	6055.0	6072.2	6015.0	6072.2	5986.5	6055.0
5°	6129.3	6135.0	6112.1	6140.7	6140.7	6175.0	6117.9	6169.2	6197.8	6135.0	6106.4
7.5°	6277.8	6289.3	6283.5	6260.7	6306.4	6300.7	6295.0	6254.9	6266.4	6243.5	6209.3
10°	6569.1	6563.4	6592.0	6534.8	6500.6	6540.5	6552.0	6489.2	6443.5	6426.3	6317.8
12.5°	6991.8	6923.3	6883.3	6826.2	6843.3	6786.2	6889.1	6780.5	6757.6	6654.8	6546.3
15°	7334.6	7323.2	7328.9	7237.5	7134.6	7157.5	7157.5	7100.4	7066.1	6940.4	6786.2
17.5°	8037.2	7797.2	7848.7	7734.4	7648.7	7643.0	7591.6	7603.1	7511.6	7248.9	7014.7
20°	8585.6	8482.7	8402.8	8208.6	8077.2	8117.2	8094.3	8037.2	8008.6	7665.9	7334.6
22.5°	9076.8	9111.1	8979.7	8928.3	8745.5	8762.6	8808.4	8756.9	8539.9	8185.7	7694.5
25°	9768.0	9728.0	9551.0	9488.1	9316.8	9379.6	9556.7	9516.7	9379.6	8739.8	7974.4
27.5°	10584.9	10447.7	10482.1	10196.5	10030.8	10207.9	10419.2	10619.1	10230.7	9391.0	8305.6
30°	11161.8	11019.0	11007.6	10996.2	10956.2	11161.8	11407.4	11590.2	11276.0	10042.2	8854.0
32.5°	11447.4	11481.7	11578.8	11544.6	11893.0	12315.7	12572.8	12835.5	12441.3	11104.7	9579.5
35°	12207.2	11990.1	12207.2	12230.0	12589.9	13486.7	13812.3	14440.6	14343.6	12607.0	10464.9
37.5°	12652.8	12635.6	12664.1	12881.2	13229.7	14337.9	14800.5	15286.1	15103.3	13509.6	11567.4
40°	13389.6	13435.3	13429.6	13595.3	13978.0	14977.6	15166.1	15560.3	15577.4	14760.6	13189.7
42.5°	14572.1	14389.3	14269.3	14440.6	14977.6	15531.8	15908.7	15828.8	16394.3	16280.0	15274.7
45°	15634.5	15743.1	15566.0	15851.6	16045.9	16342.9	16331.5	16502.8	17222.6	17765.2	16845.6
47.5°	16628.5	16697.0	16782.7	16976.9	17399.6	17445.4	17348.2	17274.0	18267.9	18827.7	18062.2
50°	17222.6	17285.4	17685.2	18033.7	18822.0	18924.9	18982.0	18793.4	19467.5	19530.3	19210.5
52.5°	17062.6	17131.2	17690.9	18839.2	20095.9	21038.4	20867.0	20547.1	20507.1	20752.8	20272.9
55°	15646.0	15583.1	16354.3	18142.2	20495.7	22757.8	22780.6	22443.6	21798.1	21632.5	20112.9
56°	14440.6	14195.1	15177.5	17336.8	19981.6	22609.3	22866.3	22506.4	21900.9	21158.3	19124.8
57.5°	11830.2	12064.4	13041.1	14829.1	18205.0	21541.0	21689.6	21603.9	21146.9	19901.6	16828.4
60°	6523.5	6934.7	7797.2	9985.1	12961.2	16531.4	16651.3	17348.2	17433.9	15240.3	11578.8
62.5°	2770.4	2724.8	3621.6	5232.4	7380.3	9979.4	10202.2	10916.2	11047.5	8785.5	5809.4
65°	1125.3	1188.2	1639.4	2633.3	3901.5	4547.0	4861.1	5095.4	5529.5	3627.3	2142.1
67.5°	742.6	736.9	965.4	1502.4	2102.2	2027.9	2027.9	2142.1	1982.2	1479.5	925.4
70°	531.3	548.4	691.2	1039.6	1308.1	971.1	931.1	891.1	1011.1	976.8	748.3
72.5°	348.4	371.3	462.7	622.7	679.8	531.3	531.3	639.7	834.0	788.3	611.2
75°	228.5	234.2	285.6	359.9	337.0	274.2	302.8	428.4	605.5	582.6	434.1
77.5°	154.2	160.0	194.2	234.2	188.5	154.2	165.7	217.1	297.0	297.0	228.5
80°	57.1	62.8	80.0	74.3	85.7	108.6	119.9	148.5	177.1	177.1	154.2
82.5°	0.0	5.7	17.2	39.9	62.8	85.7	97.1	114.2	131.4	148.5	142.8
85°	0.0	5.7	17.2	28.6	45.7	51.4	57.1	39.9	34.3	34.3	28.6
87.5°	0.0	0.0	5.7	5.7	5.7	5.7	5.7	5.7	11.4	5.7	5.7
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°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	5992.2	5986.5	5986.5	5969.3	6003.6	5986.5	5997.9	5992.2	5917.9	5975.1	5935.1
5°	6055.0	6095.0	6032.2	6020.7	5975.1	5992.2	5992.2	5935.1	5986.5	5980.8	5969.3
7.5°	6215.0	6146.4	6077.9	6009.4	5997.9	5980.8	5917.9	5895.1	5935.1	5889.4	5957.9
10°	6283.5	6295.0	6192.1	6100.7	6015.0	5895.1	5809.4	5758.0	5695.2	5763.7	5803.7
12.5°	6597.7	6483.4	6306.4	6163.5	5872.2	5752.3	5666.6	5643.8	5752.3	5775.1	5735.1
15°	6706.2	6689.1	6460.6	6140.7	5838.0	5695.2	5712.3	5666.6	5678.0	5620.9	5632.3
17.5°	6929.0	6734.8	6466.3	6066.5	5832.3	5797.9	5695.2	5512.3	5409.6	5363.8	5403.8
20°	7174.7	6986.1	6597.7	6095.0	5883.6	5792.3	5455.2	5232.4	5021.1	4906.9	4912.5
22.5°	7391.7	7157.5	6540.5	6106.4	5929.4	5552.4	5146.8	4706.9	4444.2	4267.1	4272.8
25°	7654.4	7323.2	6563.4	6129.3	5809.4	5169.6	4587.0	4158.6	3844.4	3724.5	3764.4
27.5°	7803.0	7425.9	6689.1	6180.7	5495.3	4626.9	3998.6	3598.7	3416.0	3358.8	3353.2
30°	8248.5	7654.4	6843.3	6077.9	4969.7	4044.3	3461.6	3216.0	3039.0	2987.6	2998.9
32.5°	8911.2	8071.5	7043.3	5809.4	4432.7	3524.5	3113.2	2930.4	2764.8	2667.7	2656.2
35°	9465.3	8785.5	7254.6	5392.4	3810.1	3124.7	2867.6	2639.1	2387.8	2279.2	2250.7
37.5°	10522.0	9590.9	7208.9	4764.0	3216.0	2827.6	2604.8	2324.9	2107.8	1959.3	1942.2
40°	11927.2	10533.4	6986.1	3998.6	2776.1	2564.8	2324.9	2056.4	1788.0	1662.2	1650.9
42.5°	13635.2	11687.4	6580.6	3221.7	2336.3	2302.1	2085.0	1776.5	1536.6	1445.2	1450.9
45°	15023.3	12675.6	6169.2	2587.7	2010.7	2045.0	1856.5	1565.2	1399.5	1325.2	1325.2
47.5°	16257.2	13343.9	5723.7	2136.4	1708.0	1788.0	1622.3	1450.9	1308.1	1251.0	1239.5
50°	17445.4	14023.7	5278.1	1730.9	1456.6	1536.6	1519.4	1382.4	1268.1	1199.6	1205.3
52.5°	18188.0	14132.2	4712.6	1416.7	1273.9	1365.3	1422.4	1296.7	1171.0	1131.1	1119.6
55°	17279.7	12732.7	3655.8	1165.3	1079.6	1199.6	1308.1	1165.3	1068.2	999.6	994.0
56°	16057.2	11384.6	3056.1	1073.9	1022.5	1153.9	1268.1	1113.9	1005.3	965.4	936.8
57.5°	13595.3	9316.8	2256.3	953.9	948.2	1073.9	1205.3	1062.5	936.8	902.6	902.6
60°	8477.0	5243.9	1365.3	799.7	822.6	953.9	1085.3	948.2	834.0	834.0	851.1
62.5°	3861.5	2182.1	828.3	679.8	708.3	822.6	965.4	856.8	794.0	856.8	868.2
65°	1313.8	942.5	599.8	542.7	559.8	679.8	828.3	868.2	862.5	902.6	925.4
67.5°	736.9	605.5	502.7	451.3	439.8	502.7	679.8	868.2	834.0	816.9	828.3
70°	622.7	514.1	445.6	399.9	382.7	405.6	525.5	656.9	588.4	571.2	559.8
72.5°	502.7	428.4	388.5	359.9	308.5	262.7	239.9	251.4	279.9	297.0	325.6
75°	354.1	325.6	325.6	291.3	222.8	165.7	131.4	108.6	74.3	51.4	57.1
77.5°	199.9	199.9	205.6	177.1	142.8	108.6	80.0	57.1	28.6	11.4	5.7
80°	137.1	148.5	160.0	142.8	119.9	97.1	68.5	39.9	17.2	0.0	0.0
82.5°	137.1	154.2	165.7	142.8	119.9	91.4	68.5	39.9	17.2	5.7	0.0
85°	28.6	34.3	39.9	45.7	68.5	68.5	51.4	34.3	17.2	5.7	0.0
87.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	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)