

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: P651095

Luminaire Tested: **GALN-SA8C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41678.3 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

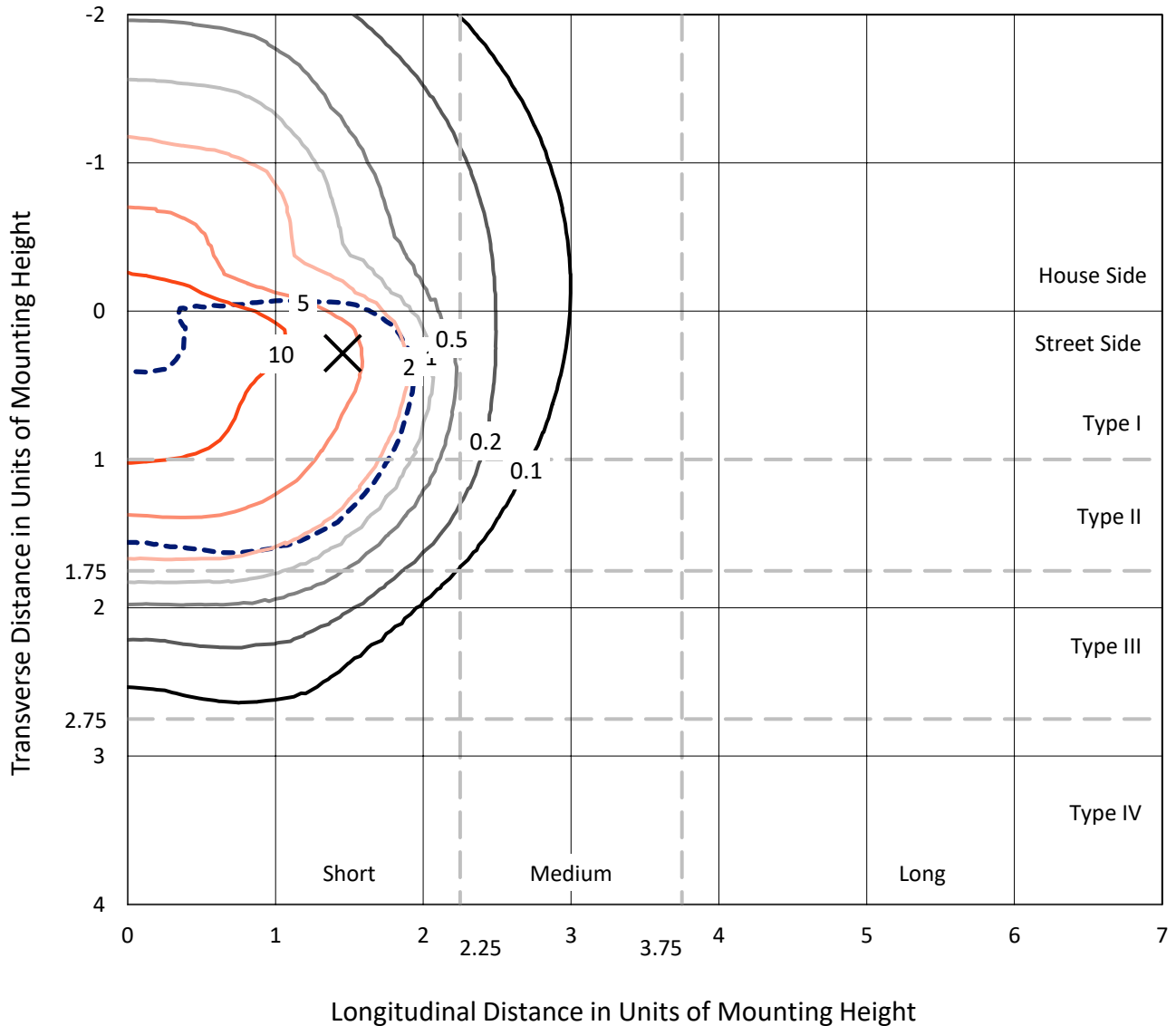
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651095
 CATALOG NUMBER: GALN-SA8C-840-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

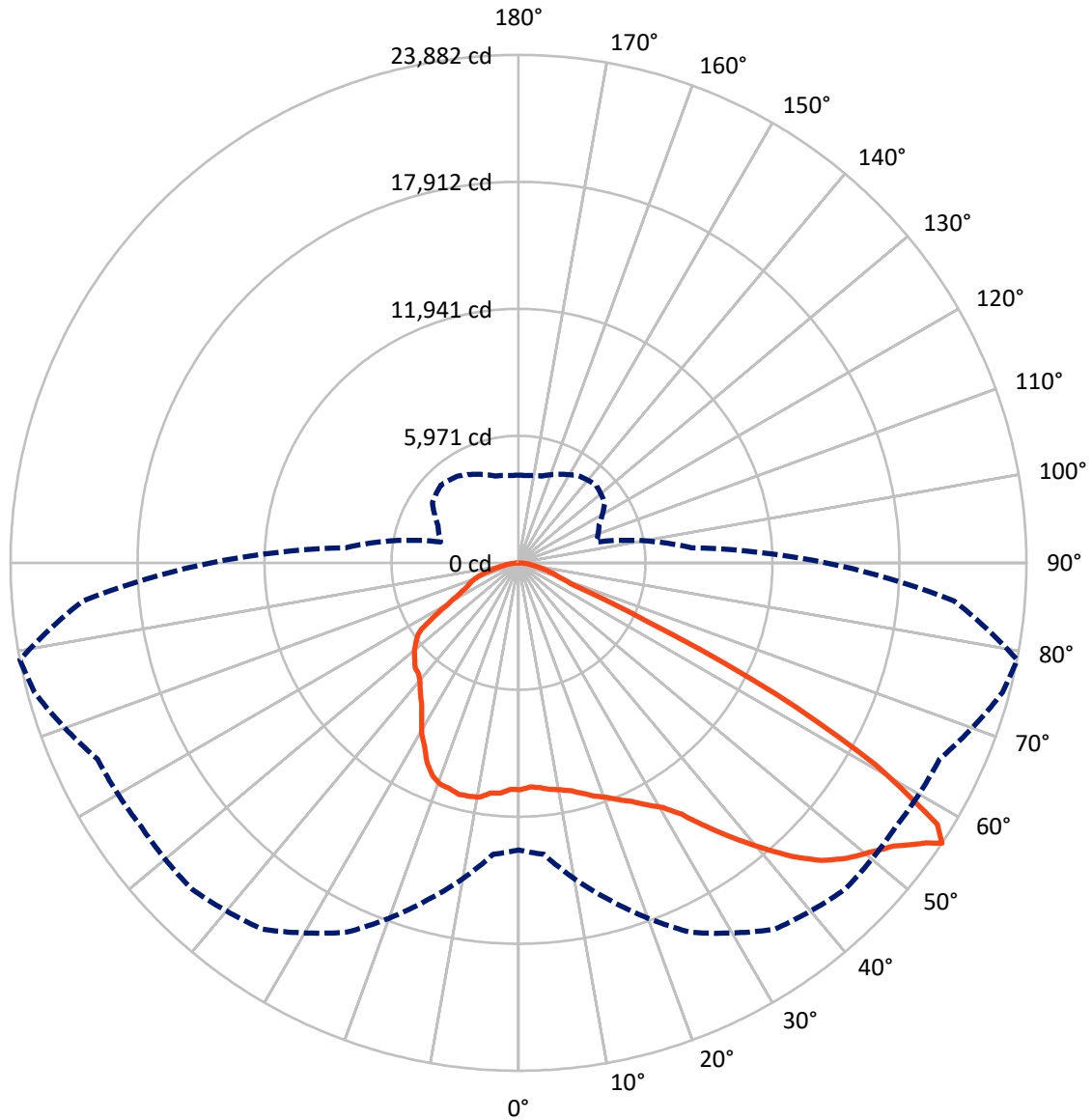
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

REPORT NUMBER: P651095
CATALOG NUMBER: GALN-SA8C-840-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P651095
 CATALOG NUMBER: GALN-SA8C-840-U-T3R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12308.5	0.0	12308.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	29369.8	0.0	29369.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	41678.3	0.0	41678.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.5	2.3
10°-20°	2653.4	6.4
20°-30°	4539.4	10.9
30°-40°	6957.2	16.7
40°-50°	9402.6	22.6
50°-60°	10799.2	25.9
60°-70°	4922.6	11.8
70°-80°	1213.7	2.9
80°-90°	220.6	0.5
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°	41678.3	100.0
0°-180°	41678.3	100.0

Coefficient of Utilization



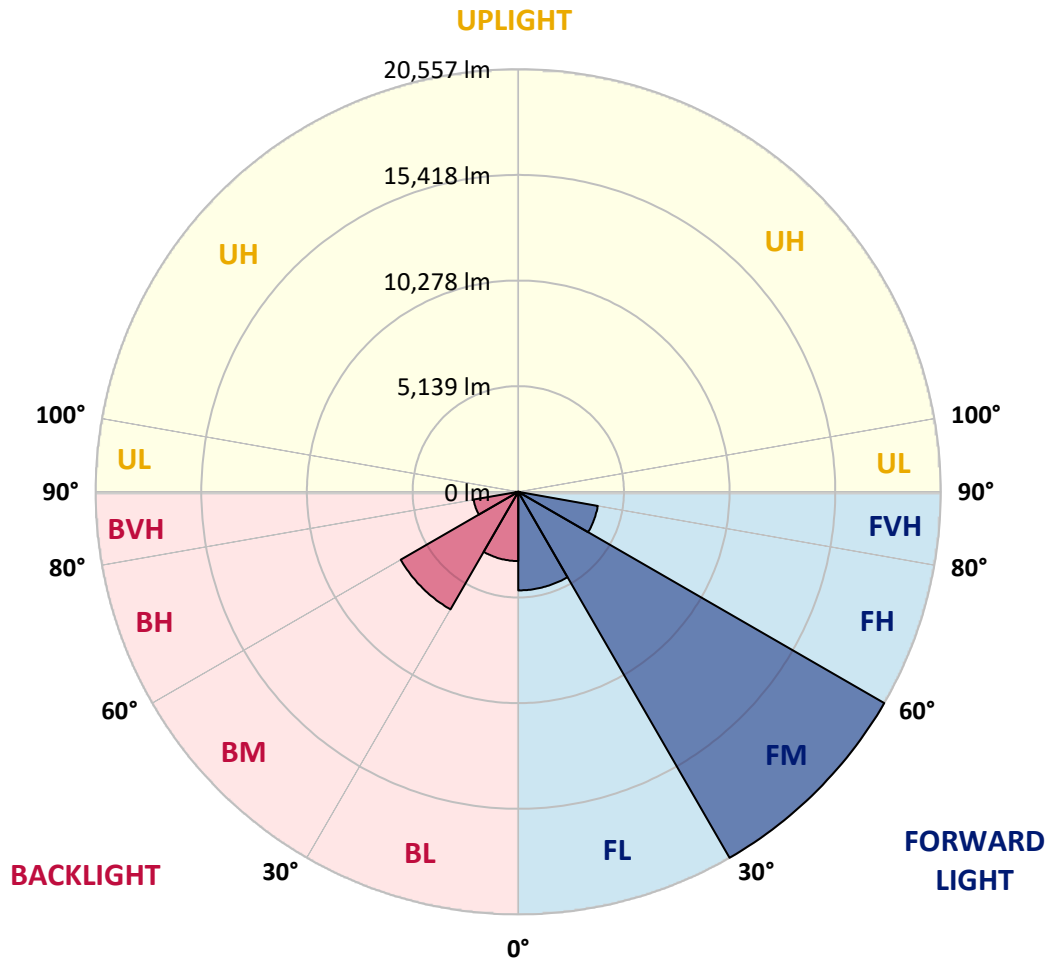
REPORT NUMBER: P651095
 CATALOG NUMBER: GALN-SA8C-840-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4795.4	11.5			
FM (30°-60°)	20557.0	49.3			
FH (60°-80°)	3929.3	9.4			G2/5000
FVH (80°-90°)	88.1	0.2			G1/100
BL (0°-30°)	3366.9	8.1	B4/5000		
BM (30°-60°)	6602.1	15.8	B4/8500		
BH (60°-80°)	2207.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	132.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P651095

CATALOG NUMBER: GALN-SA8C-840-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8
2.5°	10144.6	10118.7	10181.0	10227.7	10284.8	10357.5	10393.8	10414.6	10596.3	10549.6	10689.8
5°	9926.6	9859.1	9905.8	9942.1	10040.8	10129.1	10227.7	10383.5	10549.6	10622.3	10793.6
7.5°	9734.5	9698.2	9687.8	9713.7	9848.7	9962.9	10134.3	10362.7	10632.7	10752.1	10850.8
10°	9417.8	9365.9	9443.8	9615.1	9651.4	9890.2	10087.5	10414.6	10648.2	10855.9	11146.6
12.5°	9277.7	9225.7	9241.2	9339.9	9594.3	9822.8	10056.4	10425.0	10918.2	11001.3	11390.7
15°	9500.9	9449.0	9464.5	9438.5	9682.6	9802.0	10170.6	10632.7	11105.2	11245.3	11660.6
17.5°	10009.7	10014.9	9947.3	9890.2	9833.1	10087.5	10341.9	10757.2	11177.8	11530.9	11842.4
20°	10980.5	10809.2	10674.2	10352.3	10264.1	10373.1	10695.0	11094.7	11473.8	11764.5	12117.5
22.5°	11728.2	11743.7	11551.6	11022.1	10830.0	10876.7	11151.8	11478.9	11894.3	12101.9	12506.8
25°	12813.2	12704.1	12496.5	12076.0	11645.1	11681.4	11883.9	12179.8	12294.0	12439.4	12880.7
27.5°	13804.8	13836.0	13425.8	13031.2	12496.5	12392.6	12756.1	12808.0	12615.9	12891.1	13041.6
30°	14812.0	14786.0	14516.1	14054.0	13529.7	13550.4	13711.3	13457.0	13192.2	13342.7	13446.6
32.5°	15855.5	15559.6	15549.2	15133.9	14734.2	14542.1	14344.8	14469.3	14059.2	14090.4	13991.7
35°	16691.4	16733.0	16494.1	16198.2	16001.0	15663.5	15123.5	15346.7	15268.9	15232.5	14806.8
37.5°	17298.9	17137.9	17257.3	17158.7	16971.8	16551.2	15990.5	16203.4	16239.7	16416.2	15923.1
40°	17797.2	17729.8	18046.4	18098.4	17968.6	17060.0	16052.8	16686.2	17231.3	17615.6	17028.9
42.5°	18036.1	18181.4	18513.7	18913.5	18622.8	17651.9	16374.7	17054.8	18269.7	18877.2	18077.6
45°	18357.9	18171.1	18664.3	19396.3	19401.5	18150.3	16686.2	17553.3	19079.6	19962.2	18794.1
47.5°	18030.9	18124.3	18633.1	19562.4	19801.3	18674.7	17527.3	18259.3	19972.6	20756.6	19458.6
50°	17298.9	17485.7	18415.0	19380.8	20102.4	19230.2	18492.9	19022.5	20798.1	21395.1	19567.6
52.5°	16535.7	16639.5	18093.2	19521.0	20237.4	19946.7	19785.7	20076.4	21805.3	22116.8	19702.6
55°	14459.0	14952.2	17028.9	19458.6	20896.7	21239.4	21114.8	21540.5	22947.4	23258.9	20439.8
56°	13498.5	13758.1	16390.3	19167.9	21026.5	21711.8	21649.5	21841.6	23554.9	23882.0	20554.0
57.5°	11723.0	11743.7	13976.2	17880.3	20538.5	21852.0	21789.7	21940.3	23435.5	23212.3	19552.1
60°	7336.0	7657.8	9511.3	13752.9	17465.0	20273.7	20626.8	19417.1	19759.7	19287.3	15211.8
62.5°	3800.3	3753.6	4984.1	8042.0	11593.1	14516.1	14843.1	14786.0	14256.5	13566.0	9937.0
65°	1894.9	1905.4	2606.3	3982.1	5939.3	7600.7	8514.5	8613.1	7206.1	6629.9	4714.1
67.5°	1375.8	1427.8	1874.3	2434.9	2798.3	3130.6	3836.7	3764.0	2850.2	2710.1	2512.8
70°	1069.5	1116.3	1521.2	1858.6	1687.3	1687.3	1837.8	1900.2	2030.0	2087.1	2154.6
72.5°	778.8	815.1	1162.9	1282.4	1105.8	1188.9	1375.8	1521.2	1656.2	1677.0	1754.8
75°	534.7	565.9	763.2	706.1	664.6	820.3	1007.2	1142.2	1240.8	1292.7	1339.5
77.5°	347.8	358.3	436.1	368.6	425.7	529.6	654.1	768.3	867.0	908.5	919.0
80°	155.8	171.3	186.9	233.6	295.9	379.0	467.3	560.7	623.0	638.6	669.8
82.5°	88.2	88.2	114.2	166.1	218.1	275.2	337.5	404.9	477.6	493.2	488.0
85°	46.8	46.8	67.5	98.6	135.0	161.0	155.8	161.0	171.3	197.3	192.1
87.5°	15.6	15.6	20.8	20.8	26.0	31.1	26.0	36.3	46.8	46.8	46.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651095

CATALOG NUMBER: GALN-SA8C-840-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8	10663.8
2.5°	10648.2	10695.0	10632.7	10767.7	10767.7	10741.7	10611.9	10653.5	10684.6	10684.6	10710.6
5°	10850.8	10835.1	10876.7	10715.8	10617.1	10580.8	10367.9	10264.1	10175.8	10170.6	10092.8
7.5°	10965.0	10923.4	10907.9	10788.4	10352.3	10087.5	9630.6	9365.9	9308.8	9106.3	9184.1
10°	11146.6	11224.5	11146.6	10497.7	9890.2	9282.8	8836.3	8426.1	8265.3	8135.4	8057.5
12.5°	11520.4	11484.1	11032.4	10155.0	9303.6	8581.9	7917.4	7486.5	7325.5	7211.3	7200.9
15°	11837.2	11655.4	10965.0	9615.1	8389.8	7621.5	7076.3	6770.0	6697.3	6707.7	6754.4
17.5°	11946.2	11821.6	10611.9	9054.4	7709.7	6806.4	6552.0	6505.2	6572.8	6650.6	6671.4
20°	12117.5	11920.2	10466.5	8291.2	6868.7	6297.6	6282.0	6448.1	6572.8	6687.0	6702.5
22.5°	12475.7	11977.4	9994.1	7569.6	6292.4	6147.0	6297.6	6437.8	6629.9	6723.3	6640.2
25°	12579.6	11852.7	9329.5	6702.5	5929.0	6053.6	6214.5	6406.6	6541.6	6593.5	6629.9
27.5°	12667.8	11660.6	8431.4	6126.3	5814.8	6048.4	6214.5	6375.5	6448.1	6494.9	6536.4
30°	12917.0	11603.5	7652.6	5742.1	5742.1	5944.5	6157.4	6198.9	6297.6	6354.7	6427.3
32.5°	13041.6	11208.9	6853.1	5498.0	5669.3	5996.4	6012.1	6089.9	6095.1	6141.8	6063.9
35°	13368.7	10928.6	6110.7	5321.5	5700.6	5944.5	6022.4	5975.7	5721.3	5596.7	5622.7
37.5°	13607.5	10788.4	5575.9	5300.7	5705.7	6001.6	6043.2	5690.1	5425.4	5217.7	5269.6
40°	14251.3	10440.6	5171.0	5264.4	5752.4	6063.9	5949.7	5565.6	5087.9	4875.0	4838.7
42.5°	14744.5	10191.4	4916.6	5222.9	5788.8	6152.2	5903.0	5316.3	4828.3	4631.1	4682.9
45°	15315.6	10134.3	4781.6	5233.3	5851.1	6198.9	5845.9	5124.2	4605.1	4527.2	4511.6
47.5°	15518.1	9724.1	4636.2	5145.0	5835.5	6183.4	5653.8	4978.9	4522.0	4532.4	4573.9
50°	15180.6	9303.6	4527.2	4963.3	5731.7	6043.2	5352.7	4786.8	4475.3	4605.1	4677.7
52.5°	14749.7	8872.6	4304.0	4719.3	5518.8	5825.1	5212.5	4776.4	4428.5	4387.0	4402.6
55°	14879.5	8519.7	3992.5	4387.0	5176.2	5420.2	5056.8	4677.7	4314.3	4158.6	4210.5
56°	14459.0	8156.2	3790.0	4179.3	4942.6	5160.5	4978.9	4589.5	4220.9	4117.0	4117.0
57.5°	13270.1	6936.1	3525.2	3847.1	4449.3	4708.9	4828.3	4537.6	4117.0	3935.4	3940.5
60°	9786.4	4932.1	3161.7	3390.2	3686.1	3893.8	4449.3	4392.2	3857.5	3732.9	3686.1
62.5°	6032.8	3603.1	2902.2	2990.4	3141.0	3312.4	3883.4	3976.8	3582.3	3447.3	3416.1
65°	3379.8	2756.8	2704.9	2741.2	2813.9	2902.2	3224.1	3431.7	3161.7	2954.1	2943.8
67.5°	2471.3	2466.1	2507.6	2538.7	2569.9	2569.9	2647.8	2730.8	2694.5	2528.4	2512.8
70°	2196.1	2211.7	2242.9	2248.0	2258.4	2222.1	2159.8	2133.8	2175.3	2071.5	2050.7
72.5°	1811.9	1863.8	1900.2	1905.4	1848.3	1801.5	1718.5	1630.2	1599.1	1578.3	1573.1
75°	1391.4	1427.8	1443.3	1438.1	1417.3	1349.9	1251.2	1162.9	1105.8	1043.5	1074.7
77.5°	939.7	991.6	1017.6	1017.6	986.4	882.6	835.9	768.3	711.2	643.8	654.1
80°	659.3	695.7	737.2	732.0	680.1	628.2	560.7	498.4	451.7	399.7	394.6
82.5°	493.2	514.0	534.7	524.4	488.0	436.1	389.4	332.3	280.4	244.0	244.0
85°	176.5	192.1	233.6	244.0	264.7	264.7	223.3	186.9	150.5	124.6	124.6
87.5°	51.9	51.9	57.1	57.1	51.9	57.1	46.8	51.9	57.1	36.3	36.3
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)