

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: P652577

Luminaire Tested: **GALN-SA8B-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32946.2 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

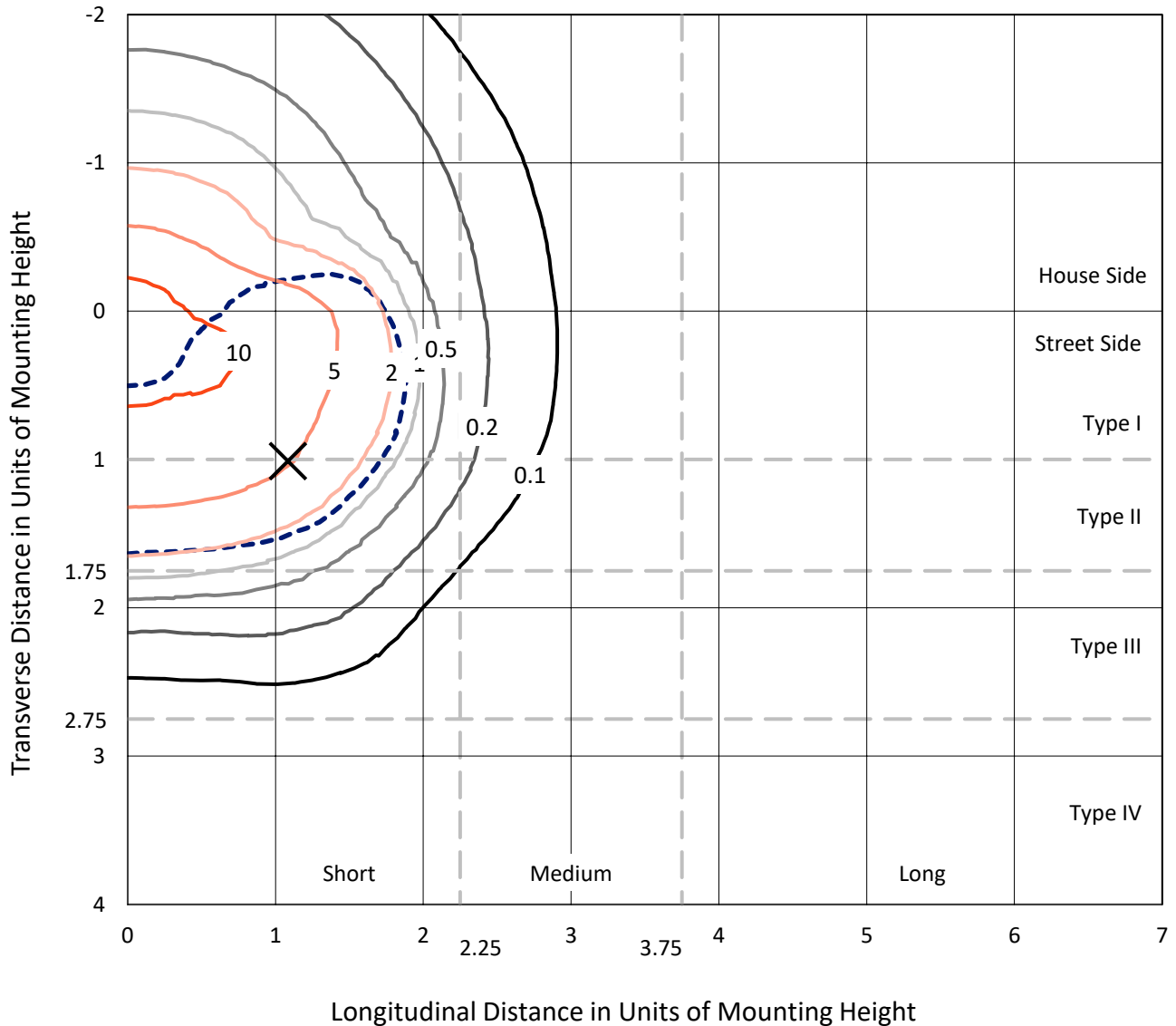
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

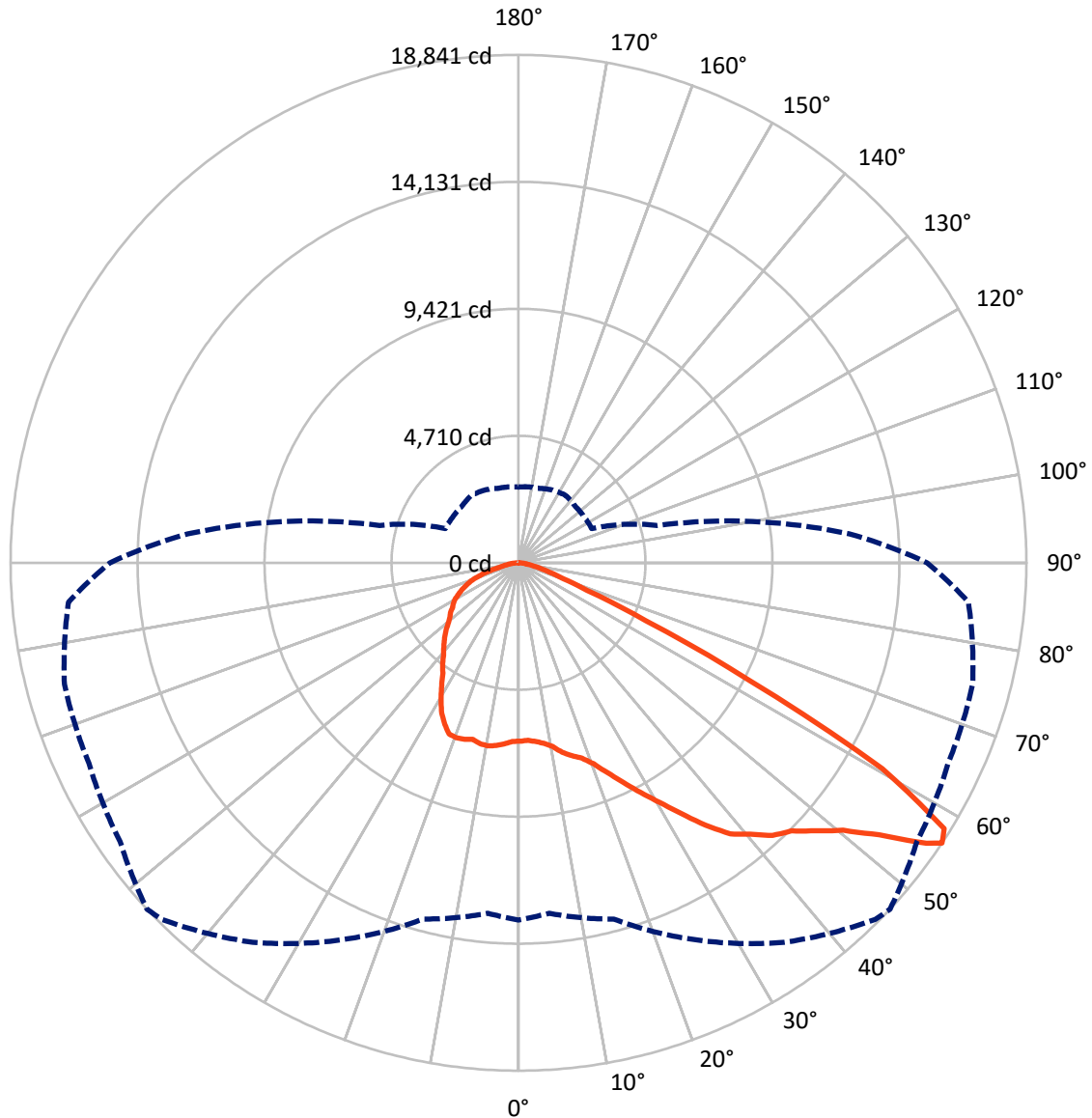
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10440.2	0.0	10440.2
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	22505.9	0.0	22505.9
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	32946.2	0.0	32946.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.8	2.0
10°-20°	2034.1	6.2
20°-30°	3595.8	10.9
30°-40°	5400.8	16.4
40°-50°	7412.0	22.5
50°-60°	8830.4	26.8
60°-70°	3778.9	11.5
70°-80°	1069.4	3.2
80°-90°	180.0	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°	32946.2	100.0
0°-180°	32946.2	100.0

**Coefficient of Utilization**

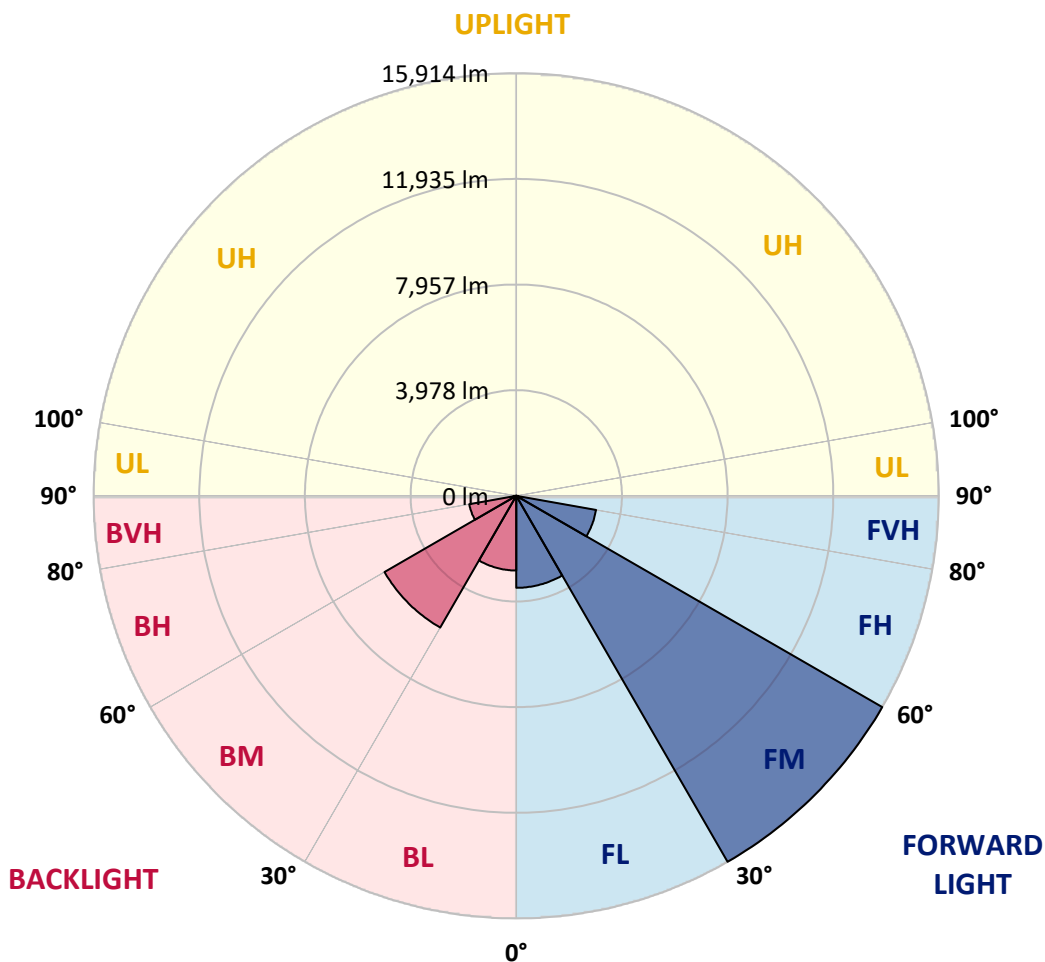


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3463.8	10.5			
FM (30°-60°)	15913.8	48.3			
FH (60°-80°)	3052.0	9.3			G2/5000
FVH (80°-90°)	76.4	0.2			G1/100
BL (0°-30°)	2810.9	8.5	B4/5000		
BM (30°-60°)	5729.4	17.4	B4/8500		
BH (60°-80°)	1796.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	103.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9
2.5°	6592.7	6580.1	6571.7	6638.9	6613.7	6617.9	6592.7	6617.9	6634.7	6596.9	6651.5
5°	6580.1	6617.9	6584.3	6605.3	6659.9	6643.1	6659.9	6710.3	6697.7	6685.1	6668.3
7.5°	6697.7	6701.9	6727.2	6735.6	6752.3	6735.6	6760.7	6807.0	6794.4	6723.0	6731.4
10°	6865.8	6874.2	6878.4	6924.6	6954.1	6958.3	6928.8	6886.8	6882.6	6979.2	6912.0
12.5°	7059.1	7038.1	7088.5	7105.3	7138.9	7176.8	7214.5	7126.3	7181.0	7185.2	7105.3
15°	7340.6	7361.6	7302.8	7302.8	7315.4	7319.6	7424.6	7382.6	7374.2	7328.0	7361.6
17.5°	7760.7	7617.9	7613.7	7554.9	7546.5	7580.1	7617.9	7651.5	7765.0	7672.5	7491.9
20°	8067.5	8101.1	7979.2	7907.8	7920.5	7996.1	7958.3	8109.5	8189.4	8038.1	7861.7
22.5°	8609.6	8496.1	8525.6	8365.8	8378.5	8458.3	8454.1	8609.6	8655.7	8416.3	8160.0
25°	8975.2	8945.7	8970.9	8844.9	8861.7	8924.7	9025.5	9281.9	9206.2	8941.5	8349.0
27.5°	9508.8	9449.9	9428.9	9382.7	9365.9	9534.0	9651.6	9924.7	9870.1	9483.5	8685.2
30°	10055.0	10017.2	10038.2	9849.1	9916.3	10273.5	10307.1	10681.0	10655.8	9975.2	9059.2
32.5°	10433.1	10454.1	10492.0	10386.9	10685.2	10971.0	11084.5	11508.8	11529.9	10819.7	9781.8
35°	11042.4	10971.0	10992.0	11113.8	11252.5	11773.5	11958.4	12239.9	12416.4	11706.3	10475.2
37.5°	11424.8	11500.4	11412.2	11605.5	11966.8	12592.9	12761.0	13050.9	13235.7	12580.3	11420.6
40°	12021.4	11899.6	11962.6	12101.3	12471.0	13286.2	13239.9	13538.3	13597.1	13324.0	12303.0
42.5°	12664.3	12605.5	12517.3	12832.4	13143.3	13735.8	13828.2	13689.5	13987.9	14050.9	13563.5
45°	13433.3	13504.7	13517.3	13525.7	13798.8	14315.7	14189.6	14067.7	14412.3	14870.3	14345.0
47.5°	14147.6	13920.7	14084.6	14311.5	14698.0	14702.2	14849.3	14559.3	14924.9	15332.5	15051.0
50°	14387.1	14277.8	14496.3	14924.9	15521.6	15584.6	15601.4	15189.6	15378.7	15702.2	15294.7
52.5°	14294.6	14256.8	14815.6	15479.5	16353.5	16672.9	16756.9	16248.5	16353.5	16206.5	15832.5
55°	13853.5	13966.9	14530.0	15883.0	17223.3	18210.8	18370.4	17727.5	17059.4	17172.9	16761.1
56°	13248.4	13050.9	13681.1	15424.9	17185.5	18710.7	18841.0	18038.4	17584.6	17437.6	16752.7
57.5°	11239.9	10983.6	11811.3	13878.7	16231.6	18521.7	18618.3	18168.7	17496.4	17198.1	15530.0
60°	6580.1	6706.1	7756.5	9571.8	12521.5	15185.4	15509.0	15836.7	15387.1	14050.9	11559.2
62.5°	3176.6	3096.7	3848.8	5487.6	7630.6	9693.6	9597.0	10517.2	11021.4	9983.6	7298.6
65°	1663.9	1655.5	2100.9	2995.9	4193.4	5092.6	5180.9	5676.7	6370.0	5143.1	3706.0
67.5°	1222.7	1256.4	1479.1	2105.1	2697.6	2752.2	2739.6	2987.5	3054.8	2584.1	2277.4
70°	958.0	974.8	1138.7	1600.9	2008.5	1798.4	1760.5	1790.0	1987.5	2071.5	1970.6
72.5°	693.3	710.1	848.7	1079.8	1256.4	1226.9	1252.2	1416.0	1659.7	1747.9	1642.9
75°	462.2	474.8	550.4	659.7	743.7	802.6	848.7	1037.9	1264.8	1315.2	1264.8
77.5°	319.3	331.9	382.4	466.4	474.8	512.6	529.4	617.6	756.3	819.4	785.7
80°	180.6	180.6	205.9	239.5	294.1	344.6	353.0	424.4	487.4	529.4	537.8
82.5°	84.0	88.2	109.2	147.1	193.3	239.5	247.9	294.1	340.4	382.4	394.9
85°	42.0	46.3	63.0	88.2	117.7	142.9	138.7	142.9	151.3	142.9	147.1
87.5°	12.6	12.6	16.8	21.0	16.8	21.0	21.0	25.2	29.4	33.6	37.8
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°	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9	6617.9
2.5°	6655.7	6668.3	6584.3	6664.1	6634.7	6630.5	6689.3	6680.9	6701.9	6693.5	6643.1
5°	6659.9	6630.5	6718.7	6638.9	6676.7	6756.5	6701.9	6828.0	6764.9	6807.0	6714.5
7.5°	6790.1	6798.6	6781.7	6815.4	6798.6	6836.4	6807.0	6836.4	6785.9	6790.1	6874.2
10°	6903.6	6878.4	6907.8	6865.8	6895.2	6882.6	6815.4	6794.4	6811.2	6790.1	6844.8
12.5°	7113.7	7067.5	7046.5	6996.0	6962.5	6836.4	6731.4	6672.5	6752.3	6764.9	6739.8
15°	7328.0	7332.2	7235.5	7122.1	6912.0	6723.0	6748.2	6769.1	6769.1	6802.8	6739.8
17.5°	7462.4	7462.4	7374.2	7147.3	6933.0	6823.8	6798.6	6731.4	6672.5	6664.1	6659.9
20°	7697.8	7626.4	7424.6	7143.1	6924.6	6874.2	6685.1	6525.5	6403.6	6361.6	6357.4
22.5°	7966.7	7786.0	7504.5	7151.5	6912.0	6840.6	6487.6	6248.1	6029.6	5937.2	5949.8
25°	8214.6	7924.7	7550.7	7113.7	6865.8	6521.3	6126.3	5794.3	5567.4	5491.8	5454.0
27.5°	8386.9	8071.7	7550.7	7147.3	6693.5	6164.1	5760.7	5336.3	5138.8	5088.4	5096.8
30°	8618.0	8256.6	7680.9	7075.9	6349.0	5701.9	5218.7	4941.4	4823.7	4781.7	4811.1
32.5°	9160.0	8739.8	7861.7	6903.6	5941.4	5239.7	4849.0	4693.5	4521.1	4437.1	4407.7
35°	9748.3	9197.8	8038.1	6613.7	5483.4	4819.5	4575.8	4432.9	4227.0	4134.6	4151.4
37.5°	10580.2	9786.0	8050.7	6134.7	4987.6	4584.2	4361.5	4138.8	3970.7	3827.9	3785.8
40°	11702.1	10588.6	8021.3	5630.5	4588.4	4306.8	4143.0	3865.7	3676.6	3575.8	3596.8
42.5°	12689.5	11529.9	7899.4	5059.0	4227.0	4117.8	3932.9	3659.8	3474.9	3369.9	3361.5
45°	13521.5	12223.1	7668.3	4571.6	3924.5	3907.7	3693.4	3483.3	3336.2	3239.6	3281.7
47.5°	14290.4	12781.9	7319.6	4084.1	3647.2	3680.8	3474.9	3344.7	3252.2	3164.0	3159.8
50°	14567.7	12773.5	7012.8	3680.8	3424.5	3407.6	3399.3	3260.6	3164.0	3088.3	3122.0
52.5°	15029.9	12916.4	6680.9	3403.4	3222.8	3227.0	3256.4	3155.6	3046.4	3000.1	3042.1
55°	15693.8	12937.4	5949.8	3079.9	3054.8	3084.1	3084.1	3016.9	2924.5	2886.6	2865.6
56°	15151.8	12311.4	5336.3	2995.9	2970.7	2970.7	3050.6	2974.9	2861.4	2832.1	2806.8
57.5°	13975.3	10786.1	4466.6	2895.1	2857.2	2916.1	2958.0	2878.2	2773.2	2731.2	2756.4
60°	9639.0	7298.6	3357.3	2676.6	2676.6	2773.2	2806.8	2689.2	2642.9	2638.7	2605.2
62.5°	5626.3	4252.3	2626.1	2479.1	2487.5	2567.3	2592.6	2525.3	2466.5	2537.9	2571.5
65°	2983.3	2537.9	2252.2	2269.0	2273.2	2336.2	2445.5	2441.3	2437.0	2458.1	2462.3
67.5°	2159.8	2109.3	2046.3	2029.5	2037.9	2084.1	2193.3	2277.4	2273.2	2222.8	2184.9
70°	1924.5	1853.0	1815.2	1819.4	1785.8	1840.4	1928.7	1983.2	1886.6	1827.8	1802.6
72.5°	1600.9	1579.9	1554.7	1558.9	1491.7	1479.1	1378.2	1378.2	1353.0	1336.2	1365.6
75°	1222.7	1214.3	1226.9	1205.9	1134.5	1058.9	1000.0	945.5	861.4	827.8	811.0
77.5°	773.1	798.4	827.8	781.5	752.1	697.5	638.7	584.1	516.8	479.0	479.0
80°	525.2	546.2	567.3	558.8	525.2	474.8	428.6	369.8	323.5	294.1	289.9
82.5°	399.1	416.0	445.4	411.8	378.2	336.1	298.3	256.3	214.3	180.6	180.6
85°	142.9	163.9	180.6	197.5	210.1	214.3	184.9	151.3	121.9	96.6	92.4
87.5°	37.8	42.0	46.3	42.0	42.0	42.0	46.3	42.0	37.8	29.4	29.4
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)