

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: P456967

Luminaire Tested: **GALN-SA8B-730-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42646 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

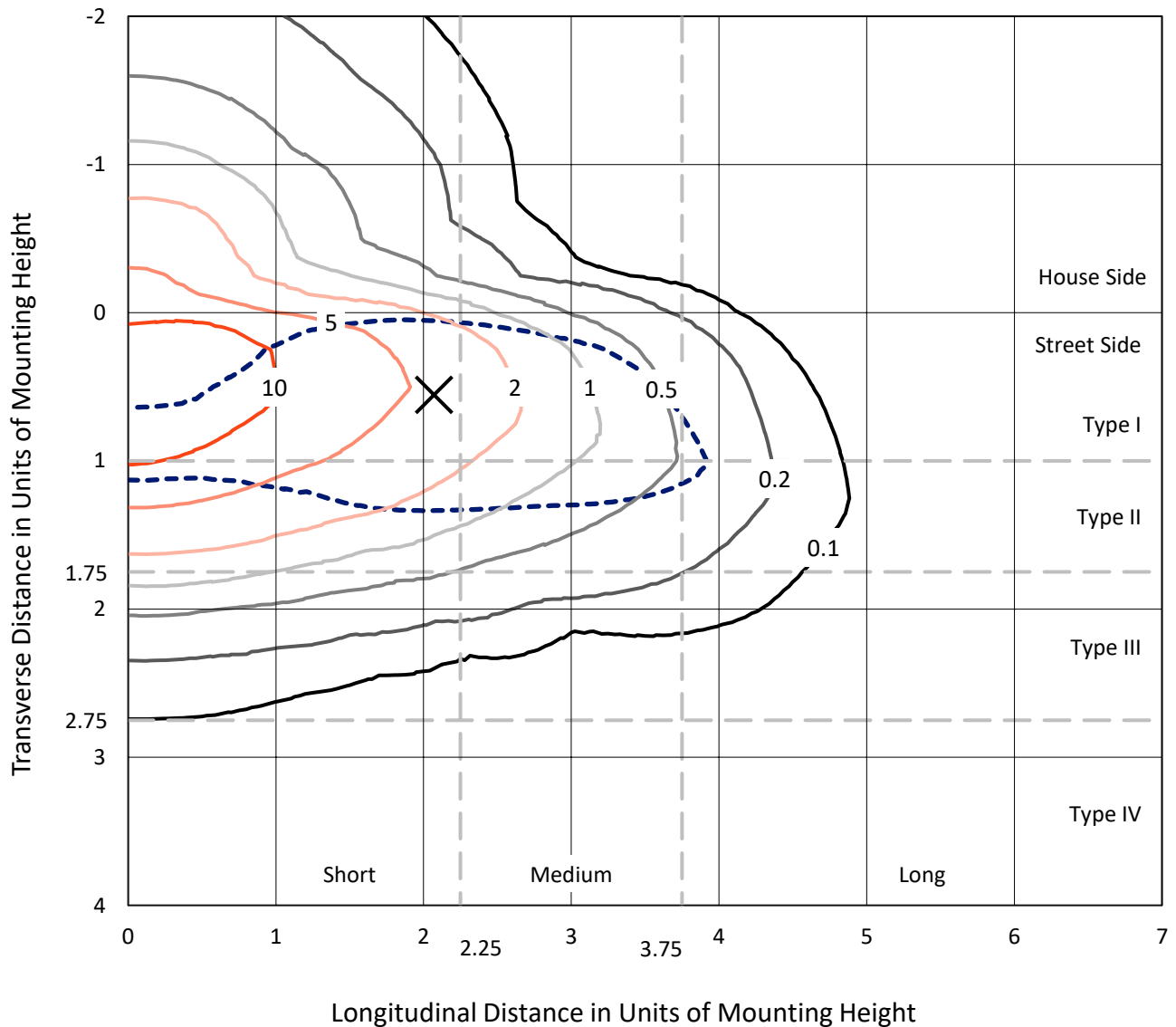
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

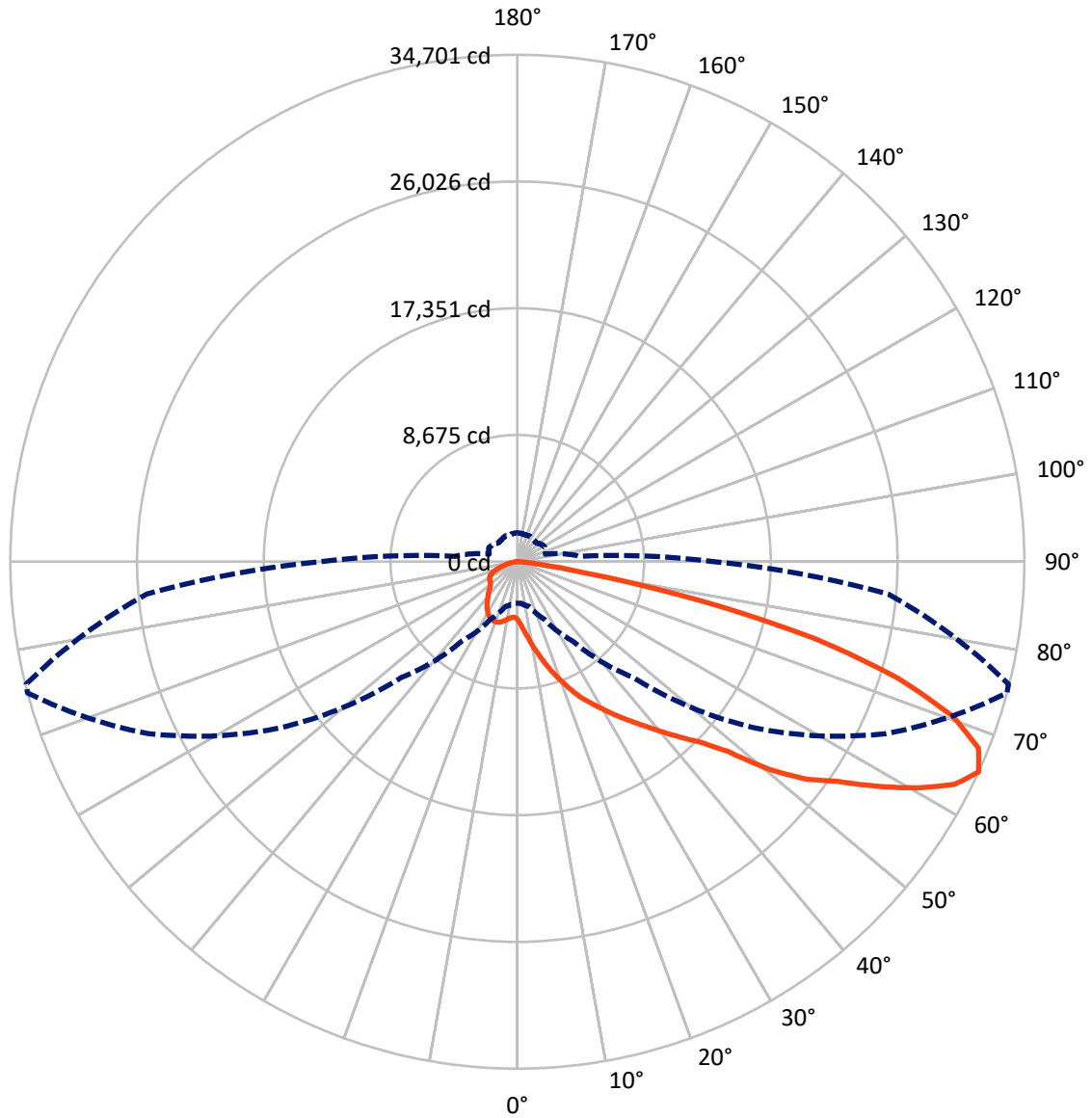
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7169.3	0.0	7169.3
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	35476.7	0.0	35476.7
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	42646.0	0.0	42646.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.4	1.1
10°-20°	1885.6	4.4
20°-30°	3642.4	8.5
30°-40°	5916.4	13.9
40°-50°	8138.5	19.1
50°-60°	9608.8	22.5
60°-70°	8418.9	19.7
70°-80°	4019.2	9.4
80°-90°	534.8	1.3
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°	42646.0	100.0
0°-180°	42646.0	100.0

**Coefficient of Utilization**



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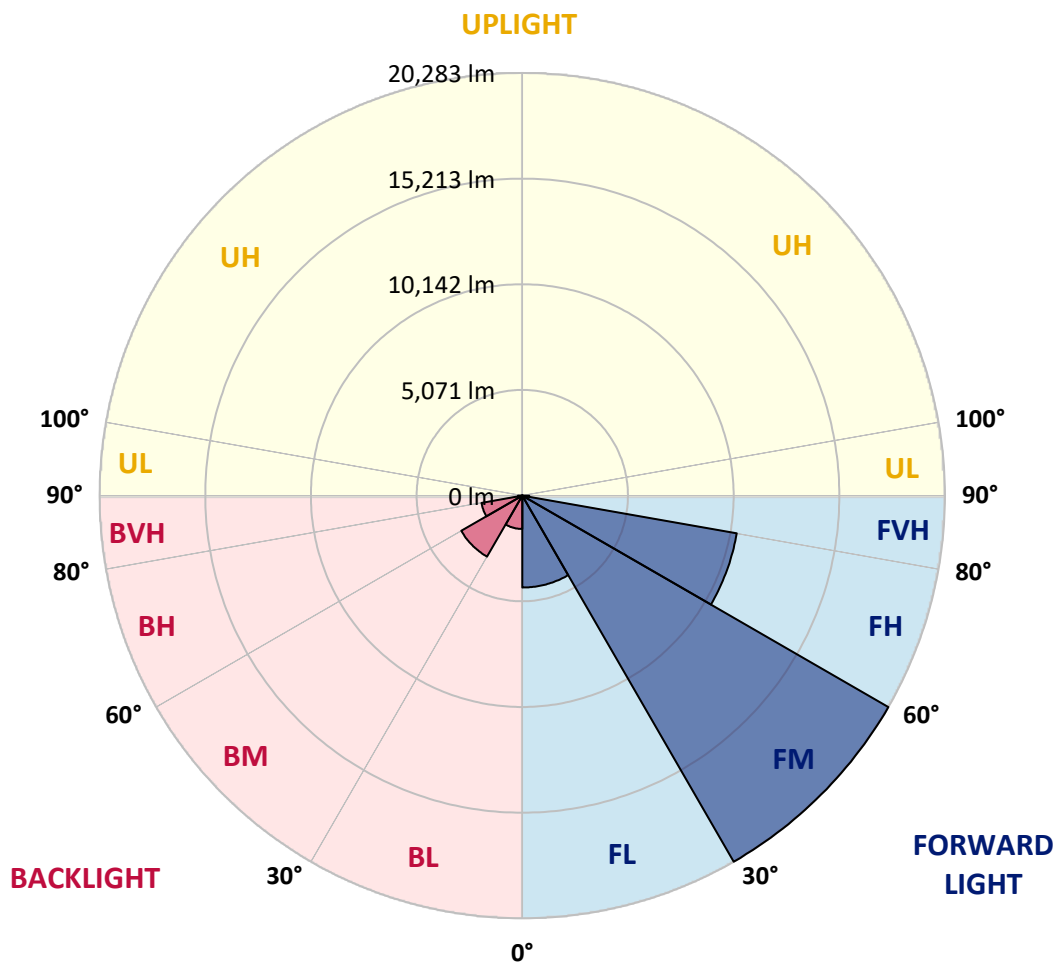
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4408.9	10.3			
FM	(30°-60°)	20283.3	47.6			
FH	(60°-80°)	10450.2	24.5			G4/12000
FVH	(80°-90°)	334.2	0.8			G3/500
BL	(0°-30°)	1600.5	3.8	B3/2500		
BM	(30°-60°)	3380.3	7.9	B3/5000		
BH	(60°-80°)	1987.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	200.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4
2.5°	5264.6	5229.9	5192.9	5091.1	4982.4	4859.8	4684.0	4515.2	4290.8	4283.9	4117.3
5°	6724.2	6701.1	6536.8	6442.0	6189.9	5854.5	5570.0	5128.2	4718.7	4670.2	4346.3
7.5°	8065.8	7975.6	7913.1	7742.0	7492.2	7061.9	6511.4	5914.6	5229.9	5165.2	4628.5
10°	9076.6	9067.4	9035.0	8887.0	8699.6	8271.7	7661.0	6805.2	5877.6	5750.4	4970.9
12.5°	9833.0	9840.0	9835.3	9833.0	9698.9	9335.7	8674.2	7772.0	6532.2	6442.0	5366.4
15°	10330.3	10399.7	10427.5	10543.1	10554.7	10311.8	9742.8	8706.5	7270.1	7135.9	5792.0
17.5°	10658.8	10693.5	10823.0	11019.6	11179.2	11135.3	10628.7	9571.6	8024.2	7799.8	6233.8
20°	10973.4	11033.5	11133.0	11401.3	11683.5	11813.0	11456.8	10457.6	8771.3	8627.9	6721.9
22.5°	11628.0	11713.6	11748.3	11884.7	12125.3	12354.3	12192.4	11306.5	9590.1	9395.8	7240.0
25°	12736.0	12826.2	12729.0	12696.6	12775.3	12888.6	12853.9	12106.8	10362.7	10085.1	7730.4
27.5°	14179.3	14190.9	14001.2	13820.8	13626.5	13568.7	13462.3	12816.9	11033.5	10802.2	8223.1
30°	15729.1	15673.6	15359.0	15032.9	14704.4	14380.6	14075.3	13501.6	11780.7	11514.6	8706.5
32.5°	17167.9	17137.8	16788.5	16282.0	15726.8	15421.5	14803.9	14193.2	12581.0	12324.2	9203.9
35°	18245.8	18289.7	17905.8	17352.9	16746.9	16476.3	15696.7	14919.5	13409.1	13129.2	9745.1
37.5°	19011.4	18988.3	18648.3	18169.5	17637.4	17401.5	16740.0	15712.9	14299.6	14031.3	10337.3
40°	19284.4	19270.5	19018.4	18669.1	18331.4	18248.1	17831.7	16568.8	15319.7	15005.1	11049.7
42.5°	19110.9	19141.0	18974.4	18879.6	18817.1	18877.3	18916.6	17690.6	16432.3	16143.2	11822.3
45°	18578.9	18562.7	18539.6	18694.5	19046.1	19441.7	19989.9	18750.0	17642.1	17410.8	12858.6
47.5°	17628.2	17743.8	17801.7	18229.6	18997.5	19934.4	21225.1	20170.3	19397.7	19196.5	14438.4
50°	16298.2	16390.7	16733.0	17494.0	18639.0	20119.4	22432.5	22492.7	22326.1	21949.1	16154.7
52.5°	14221.0	14364.4	15069.9	16464.7	17903.4	20043.1	23163.5	24484.2	24704.0	24421.8	17845.6
55°	11896.3	12097.5	12842.4	14672.0	16890.3	19626.7	23667.7	25638.5	26515.1	26253.8	19474.0
57.5°	9620.2	9833.0	10598.7	12370.5	15123.1	18706.1	23998.5	26924.6	28980.9	28640.9	21500.3
60°	7210.0	7432.0	8088.9	9914.0	12606.4	16906.5	23774.1	28039.5	31444.4	31298.6	23528.9
62.5°	4651.7	4896.8	5468.2	6978.6	9689.6	14447.7	22573.6	28654.8	33577.1	33401.3	25009.3
65°	2833.6	2861.3	3175.9	4332.4	6631.7	11186.2	19828.0	27838.2	34701.2	34648.0	25460.4
67.5°	1832.0	1875.9	2019.3	2595.3	3976.2	7769.7	15854.0	25143.5	34044.3	34025.8	24528.2
70°	1547.5	1561.3	1626.1	1751.0	2310.8	4711.8	11133.0	20848.0	31548.5	31548.5	22286.8
72.5°	1383.2	1401.7	1424.9	1464.2	1649.2	2669.3	6643.2	16228.8	27239.1	27419.6	18969.8
75°	1256.0	1251.4	1265.3	1272.2	1406.4	1744.1	3435.0	12002.7	21072.4	20711.6	13737.5
77.5°	1075.6	1082.5	1075.6	1105.7	1242.1	1327.7	1744.1	8054.2	12770.7	12303.4	6895.4
80°	883.6	895.2	906.7	925.2	1061.7	1008.5	1047.8	3670.9	4723.4	4623.9	2130.4
82.5°	663.9	680.1	698.6	742.5	835.0	666.2	661.5	1568.3	1704.8	1561.3	784.1
85°	268.3	316.9	478.8	522.8	525.1	365.5	407.1	654.6	696.2	680.1	307.6
87.5°	62.5	74.0	155.0	233.6	215.1	136.5	150.4	212.8	242.9	224.4	104.1
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°	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4	3962.4
2.5°	4041.0	3960.0	3821.3	3714.8	3638.5	3571.4	3529.8	3504.4	3495.1	3492.8	3495.1
5°	4177.5	4034.1	3814.3	3675.5	3599.2	3555.2	3529.8	3527.5	3529.8	3532.1	3525.2
7.5°	4364.8	4159.0	3872.1	3742.6	3684.8	3652.4	3640.8	3636.2	3638.5	3636.2	3636.2
10°	4614.6	4332.4	3985.5	3851.3	3802.7	3765.7	3747.2	3735.7	3726.4	3717.2	3712.5
12.5°	4889.9	4524.4	4108.1	3978.5	3909.2	3851.3	3809.7	3779.6	3758.8	3738.0	3733.4
15°	5197.6	4728.0	4244.6	4064.1	3964.7	3879.1	3807.4	3758.8	3721.8	3691.7	3689.4
17.5°	5491.3	4920.0	4337.1	4103.5	3957.7	3837.4	3742.6	3675.5	3629.3	3589.9	3585.3
20°	5805.9	5102.7	4378.7	4078.0	3888.3	3742.6	3617.7	3536.7	3483.5	3439.6	3432.7
22.5°	6122.8	5257.7	4374.1	3997.0	3768.1	3596.9	3465.0	3379.4	3317.0	3273.0	3256.9
25°	6425.8	5382.6	4316.3	3867.5	3601.5	3423.4	3289.2	3210.6	3155.1	3101.9	3101.9
27.5°	6698.8	5456.6	4207.5	3710.2	3430.3	3243.0	3136.6	3064.9	3014.0	2979.3	2958.5
30°	6967.1	5491.3	4059.5	3511.3	3249.9	3090.3	3004.7	2963.1	2916.8	2877.5	2872.9
32.5°	7207.6	5484.4	3874.5	3317.0	3078.7	2965.4	2930.7	2898.3	2849.7	2794.2	2780.4
35°	7441.3	5438.1	3654.7	3104.2	2935.3	2891.4	2900.6	2854.4	2766.5	2697.1	2685.5
37.5°	7695.7	5354.8	3414.1	2930.7	2815.1	2856.7	2879.8	2778.0	2634.6	2525.9	2500.5
40°	7989.5	5260.0	3164.3	2757.2	2720.2	2824.3	2824.3	2636.9	2440.3	2373.2	2354.7
42.5°	8334.1	5181.4	2956.2	2611.5	2641.6	2745.7	2734.1	2449.6	2368.6	2333.9	2324.7
45°	8880.0	5153.6	2741.0	2484.3	2576.8	2653.1	2558.3	2384.8	2338.6	2310.8	2301.5
47.5°	9742.8	5186.0	2551.4	2389.4	2502.8	2560.6	2361.7	2340.9	2308.5	2269.2	2264.5
50°	10543.1	5155.9	2417.2	2336.2	2438.0	2449.6	2280.7	2287.7	2269.2	2225.2	2216.0
52.5°	11197.8	5061.1	2331.6	2308.5	2382.5	2255.3	2204.4	2229.8	2222.9	2167.4	2158.1
55°	11917.1	5003.3	2290.0	2308.5	2345.5	2086.4	2132.7	2169.7	2160.4	2121.1	2118.8
57.5°	12789.2	5014.8	2259.9	2315.4	2308.5	2000.8	2061.0	2104.9	2102.6	2091.0	2091.0
60°	13682.0	5019.4	2213.6	2313.1	2264.5	1933.8	1987.0	2049.4	2054.0	2061.0	2061.0
62.5°	13978.1	4818.2	2123.4	2271.5	2167.4	1869.0	1917.6	2003.2	1998.5	2017.0	2019.3
65°	13425.3	4260.7	1989.3	2176.6	2042.5	1822.7	1864.4	1943.0	1917.6	1966.1	1975.4
67.5°	12220.1	3525.2	1781.1	2005.5	1903.7	1774.2	1829.7	1859.7	1813.5	1908.3	1910.6
70°	10561.6	2752.6	1517.4	1762.6	1746.4	1723.3	1801.9	1755.6	1690.9	1806.5	1783.4
72.5°	8831.4	2102.6	1212.1	1441.1	1535.9	1646.9	1753.3	1621.5	1531.3	1566.0	1524.3
75°	6634.0	1554.4	973.8	1128.8	1279.1	1538.2	1709.4	1459.6	1320.8	1288.4	1279.1
77.5°	3381.8	1015.5	728.6	844.3	959.9	1390.2	1649.2	1269.9	1094.1	1043.2	1020.1
80°	1207.4	631.5	513.5	582.9	647.7	1195.9	1441.1	1050.2	848.9	839.7	848.9
82.5°	559.8	407.1	344.7	381.7	384.0	798.0	1098.7	784.1	645.4	980.8	828.1
85°	240.6	203.6	194.3	189.7	175.8	356.2	617.6	421.0	656.9	293.8	270.6
87.5°	71.7	81.0	71.7	53.2	39.3	39.3	62.5	23.1	16.2	11.6	11.6
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)