

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: P533001

Luminaire Tested: **GALN-SA8B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533001  
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-SA8B-827-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA 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: 20171 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

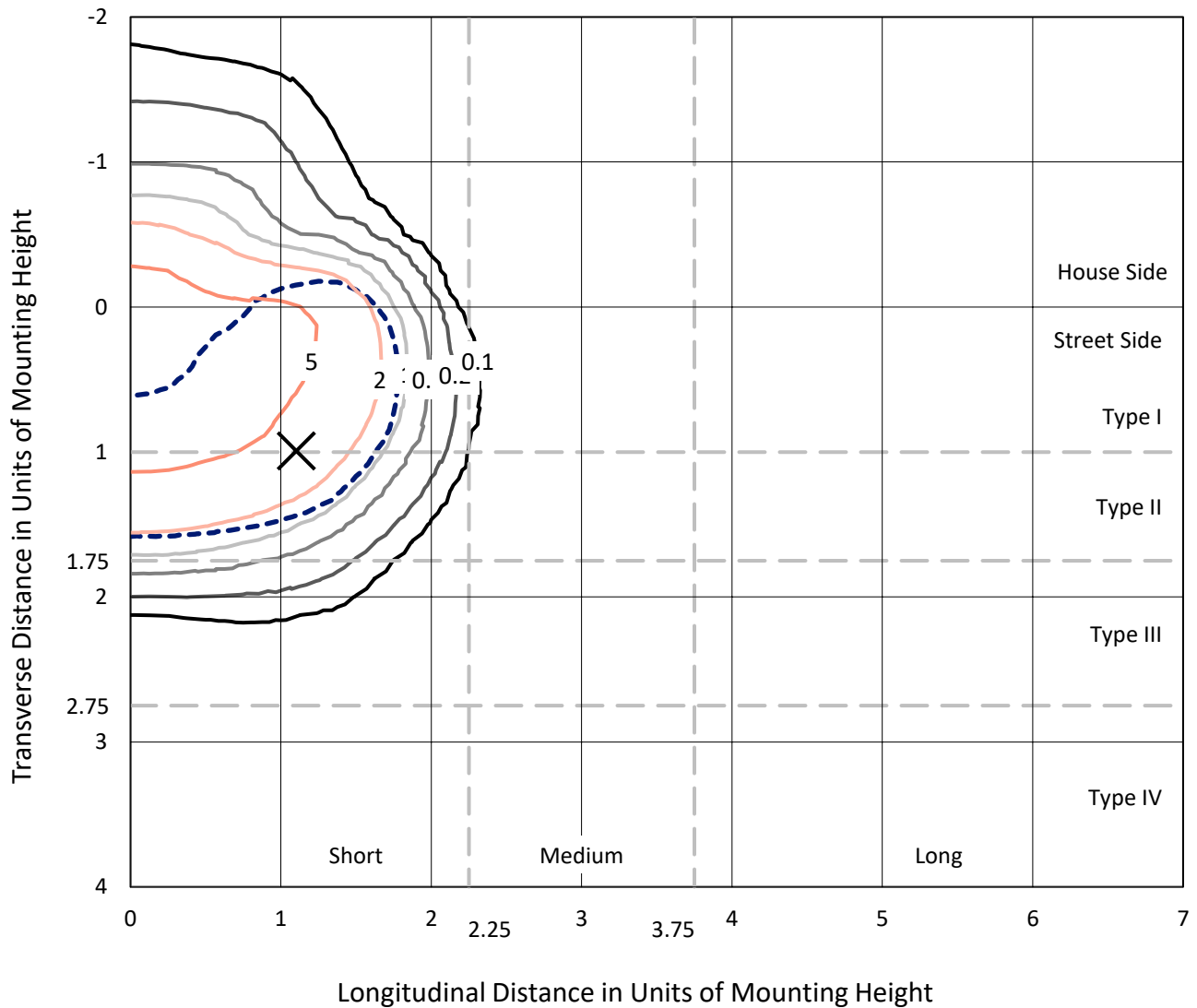
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

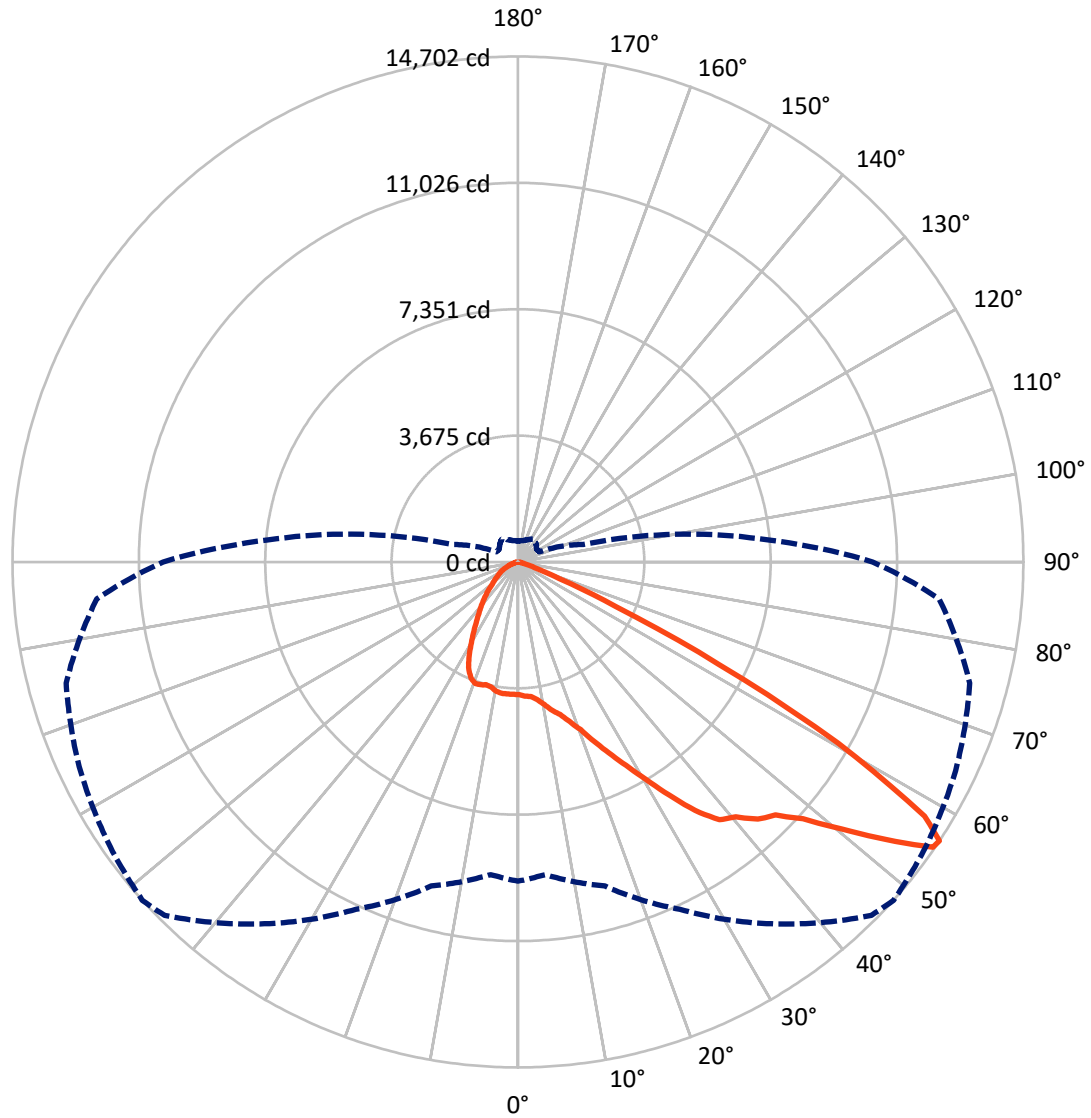
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

REPORT NUMBER: P533001  
CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSBK

### 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
<b>House Side</b>	Lumens	4386.8	0.0	4386.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	15784.2	0.0	15784.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	20171.0	0.0	20171.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.3	1.9
10°-20°	1199.4	5.9
20°-30°	2175.4	10.8
30°-40°	3417.1	16.9
40°-50°	4985.0	24.7
50°-60°	6005.9	29.8
60°-70°	1758.5	8.7
70°-80°	223.1	1.1
80°-90°	31.3	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°	20171.0	100.0
0°-180°	20171.0	100.0

**Coefficient of Utilization**



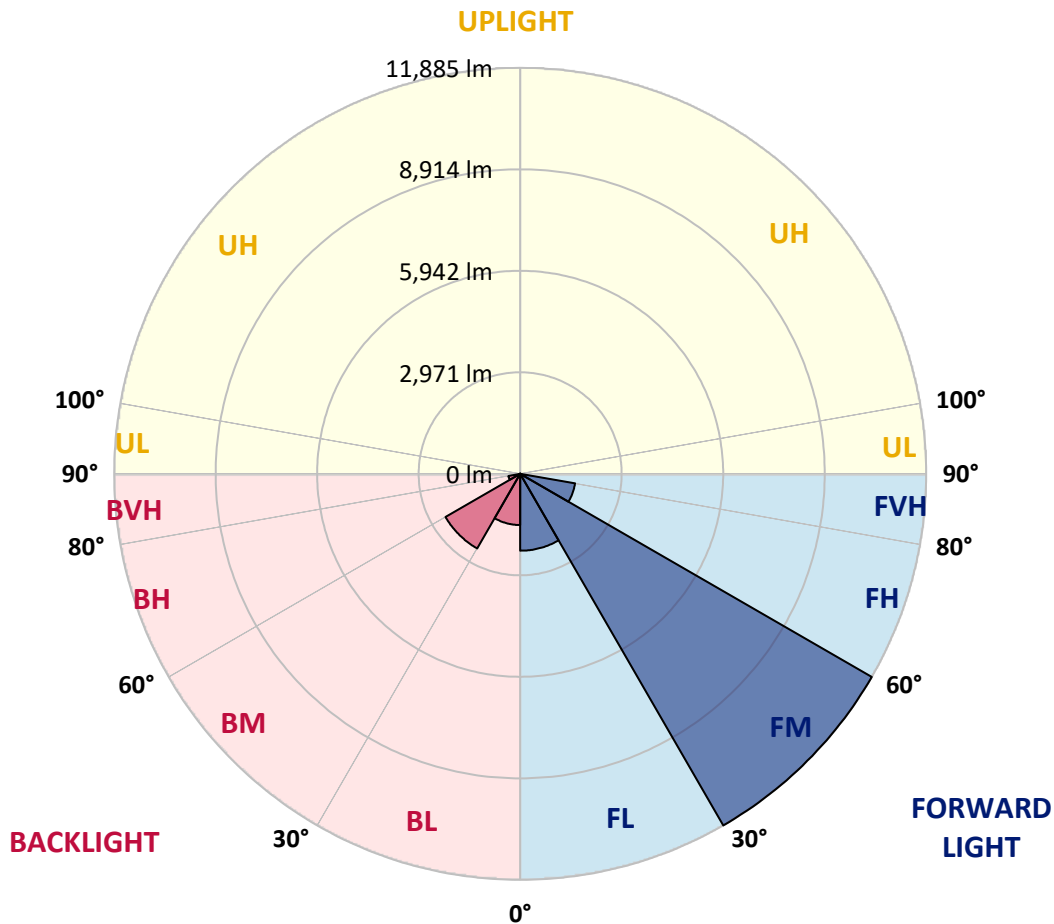
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2250.7	11.2			
FM (30°-60°)	11884.8	58.9			
FH (60°-80°)	1633.0	8.1			G1/1800
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1499.4	7.4	B3/2500		
BM (30°-60°)	2523.3	12.5	B3/5000		
BH (60°-80°)	348.6	1.7	B1/500		G1/500
BVH (80°-90°)	15.6	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-G1**

Type II Short





REPORT NUMBER: P533001

CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7
2.5°	3922.5	3904.1	3904.1	3874.7	3907.8	3893.1	3904.1	3867.4	3904.1	3849.0	3893.1
5°	3940.8	3944.5	3929.8	3948.2	3948.2	3970.2	3933.5	3966.5	3984.9	3944.5	3926.1
7.5°	4036.3	4043.7	4040.0	4025.3	4054.7	4051.0	4047.3	4021.6	4029.0	4014.3	3992.2
10°	4223.6	4219.9	4238.3	4201.6	4179.5	4205.2	4212.6	4172.2	4142.8	4131.8	4062.0
12.5°	4495.4	4451.3	4425.6	4388.9	4399.9	4363.2	4429.3	4359.5	4344.8	4278.7	4208.9
15°	4715.8	4708.4	4712.1	4653.3	4587.2	4601.9	4601.9	4565.2	4543.1	4462.3	4363.2
17.5°	5167.5	5013.2	5046.3	4972.8	4917.8	4914.1	4881.0	4888.4	4829.6	4660.7	4510.1
20°	5520.1	5454.0	5402.6	5277.7	5193.2	5218.9	5204.2	5167.5	5149.1	4928.8	4715.8
22.5°	5835.9	5858.0	5773.5	5740.4	5622.9	5633.9	5663.3	5630.3	5490.7	5263.0	4947.1
25°	6280.3	6254.6	6140.8	6100.4	5990.2	6030.6	6144.4	6118.7	6030.6	5619.2	5127.1
27.5°	6805.5	6717.4	6739.4	6555.8	6449.3	6563.1	6699.0	6827.6	6577.8	6037.9	5340.1
30°	7176.5	7084.7	7077.3	7070.0	7044.3	7176.5	7334.4	7451.9	7249.9	6456.6	5692.7
32.5°	7360.1	7382.1	7444.6	7422.5	7646.6	7918.4	8083.6	8252.6	7999.2	7139.7	6159.1
35°	7848.6	7709.0	7848.6	7863.3	8094.6	8671.3	8880.6	9284.6	9222.2	8105.7	6728.4
37.5°	8135.0	8124.0	8142.4	8282.0	8506.0	9218.5	9516.0	9828.2	9710.6	8686.0	7437.2
40°	8608.8	8638.2	8634.5	8741.0	8987.1	9629.8	9751.0	10004.5	10015.5	9490.3	8480.3
42.5°	9369.1	9251.5	9174.4	9284.6	9629.8	9986.1	10228.5	10177.1	10540.7	10467.2	9820.8
45°	10052.2	10122.0	10008.1	10191.8	10316.6	10507.6	10500.3	10610.5	11073.2	11422.1	10830.8
47.5°	10691.3	10735.3	10790.4	10915.3	11187.1	11216.4	11154.0	11106.3	11745.3	12105.2	11613.1
50°	11073.2	11113.6	11370.7	11594.7	12101.6	12167.7	12204.4	12083.2	12516.6	12557.0	12351.3
52.5°	10970.4	11014.4	11374.4	12112.6	12920.6	13526.6	13416.4	13210.7	13185.0	13342.9	13034.4
55°	10059.5	10019.1	10515.0	11664.5	13177.7	14632.1	14646.8	14430.1	14015.1	13908.5	12931.6
56°	9284.6	9126.7	9758.4	11146.7	12847.1	14536.6	14701.8	14470.5	14081.2	13603.7	12296.2
57.5°	7606.2	7756.8	8384.8	9534.3	11704.9	13849.8	13945.3	13890.2	13596.4	12795.7	10819.8
60°	4194.2	4458.7	5013.2	6419.9	8333.4	10628.8	10705.9	11154.0	11209.1	9798.8	7444.6
62.5°	1781.3	1751.9	2328.5	3364.2	4745.1	6416.2	6559.5	7018.5	7103.0	5648.6	3735.1
65°	723.5	763.9	1054.1	1693.1	2508.5	2923.5	3125.5	3276.1	3555.2	2332.2	1377.3
67.5°	477.5	473.8	620.7	965.9	1351.6	1303.8	1303.8	1377.3	1274.4	951.2	595.0
70°	341.6	352.6	444.4	668.4	841.0	624.4	598.7	572.9	650.1	628.0	481.1
72.5°	224.0	238.7	297.5	400.3	437.1	341.6	341.6	411.3	536.2	506.8	393.0
75°	146.9	150.6	183.6	231.4	216.7	176.3	194.7	275.5	389.3	374.6	279.1
77.5°	99.2	102.8	124.9	150.6	121.2	99.2	106.5	139.6	191.0	191.0	146.9
80°	36.7	40.4	51.4	47.7	55.1	69.8	77.1	95.5	113.9	113.9	99.2
82.5°	0.0	3.7	11.0	25.7	40.4	55.1	62.4	73.5	84.5	95.5	91.8
85°	0.0	3.7	11.0	18.4	29.4	33.1	36.7	25.7	22.0	22.0	18.4
87.5°	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	7.3	3.7	3.7
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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CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7
2.5°	3852.7	3849.0	3849.0	3838.0	3860.0	3849.0	3856.3	3852.7	3804.9	3841.7	3815.9
5°	3893.1	3918.8	3878.4	3871.0	3841.7	3852.7	3852.7	3815.9	3849.0	3845.3	3838.0
7.5°	3995.9	3951.8	3907.8	3863.7	3856.3	3845.3	3804.9	3790.2	3815.9	3786.6	3830.6
10°	4040.0	4047.3	3981.2	3922.5	3867.4	3790.2	3735.1	3702.1	3661.7	3705.8	3731.5
12.5°	4242.0	4168.5	4054.7	3962.9	3775.5	3698.4	3643.3	3628.6	3698.4	3713.1	3687.4
15°	4311.8	4300.7	4153.8	3948.2	3753.5	3661.7	3672.7	3643.3	3650.7	3613.9	3621.3
17.5°	4455.0	4330.1	4157.5	3900.4	3749.8	3727.8	3661.7	3544.2	3478.1	3448.7	3474.4
20°	4612.9	4491.7	4242.0	3918.8	3782.9	3724.1	3507.4	3364.2	3228.3	3154.9	3158.5
22.5°	4752.5	4601.9	4205.2	3926.1	3812.3	3569.9	3309.1	3026.3	2857.4	2743.5	2747.2
25°	4921.4	4708.4	4219.9	3940.8	3735.1	3323.8	2949.2	2673.7	2471.7	2394.6	2420.3
27.5°	5016.9	4774.5	4300.7	3973.9	3533.1	2974.9	2570.9	2313.8	2196.3	2159.6	2155.9
30°	5303.4	4921.4	4399.9	3907.8	3195.3	2600.3	2225.7	2067.7	1953.9	1920.8	1928.2
32.5°	5729.4	5189.5	4528.4	3735.1	2850.0	2266.1	2001.6	1884.1	1777.6	1715.2	1707.8
35°	6085.7	5648.6	4664.3	3467.0	2449.7	2009.0	1843.7	1696.8	1535.2	1465.4	1447.0
37.5°	6765.1	6166.5	4635.0	3063.0	2067.7	1818.0	1674.8	1494.8	1355.2	1259.7	1248.7
40°	7668.6	6772.5	4491.7	2570.9	1784.9	1649.0	1494.8	1322.2	1149.6	1068.8	1061.4
42.5°	8766.8	7514.4	4231.0	2071.4	1502.1	1480.1	1340.5	1142.2	988.0	929.2	932.9
45°	9659.2	8149.7	3966.5	1663.7	1292.8	1314.8	1193.6	1006.3	899.8	852.1	852.1
47.5°	10452.5	8579.4	3680.1	1373.6	1098.1	1149.6	1043.0	932.9	841.0	804.3	797.0
50°	11216.4	9016.5	3393.6	1112.8	936.5	988.0	976.9	888.8	815.3	771.3	774.9
52.5°	11693.9	9086.3	3030.0	910.8	819.0	877.8	914.5	833.7	752.9	727.2	719.9
55°	11109.9	8186.5	2350.5	749.2	694.1	771.3	841.0	749.2	686.8	642.7	639.1
56°	10324.0	7319.7	1964.9	690.5	657.4	741.9	815.3	716.2	646.4	620.7	602.3
57.5°	8741.0	5990.2	1450.7	613.3	609.7	690.5	774.9	683.1	602.3	580.3	580.3
60°	5450.3	3371.5	877.8	514.2	528.9	613.3	697.8	609.7	536.2	536.2	547.2
62.5°	2482.7	1403.0	532.5	437.1	455.4	528.9	620.7	550.9	510.5	550.9	558.3
65°	844.7	606.0	385.6	348.9	359.9	437.1	532.5	558.3	554.6	580.3	595.0
67.5°	473.8	389.3	323.2	290.1	282.8	323.2	437.1	558.3	536.2	525.2	532.5
70°	400.3	330.5	286.5	257.1	246.1	260.8	337.9	422.4	378.3	367.3	359.9
72.5°	323.2	275.5	249.7	231.4	198.3	168.9	154.3	161.6	180.0	191.0	209.3
75°	227.7	209.3	209.3	187.3	143.2	106.5	84.5	69.8	47.7	33.1	36.7
77.5°	128.5	128.5	132.2	113.9	91.8	69.8	51.4	36.7	18.4	7.3	3.7
80°	88.1	95.5	102.8	91.8	77.1	62.4	44.1	25.7	11.0	0.0	0.0
82.5°	88.1	99.2	106.5	91.8	77.1	58.8	44.1	25.7	11.0	3.7	0.0
85°	18.4	22.0	25.7	29.4	44.1	44.1	33.1	22.0	11.0	3.7	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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)