

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: P532536

Luminaire Tested: **GALN-SA7D-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532536  
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-SA7D-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA 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: 34577 lumens  
Efficiency: N/A  
Efficacy: 79.9 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

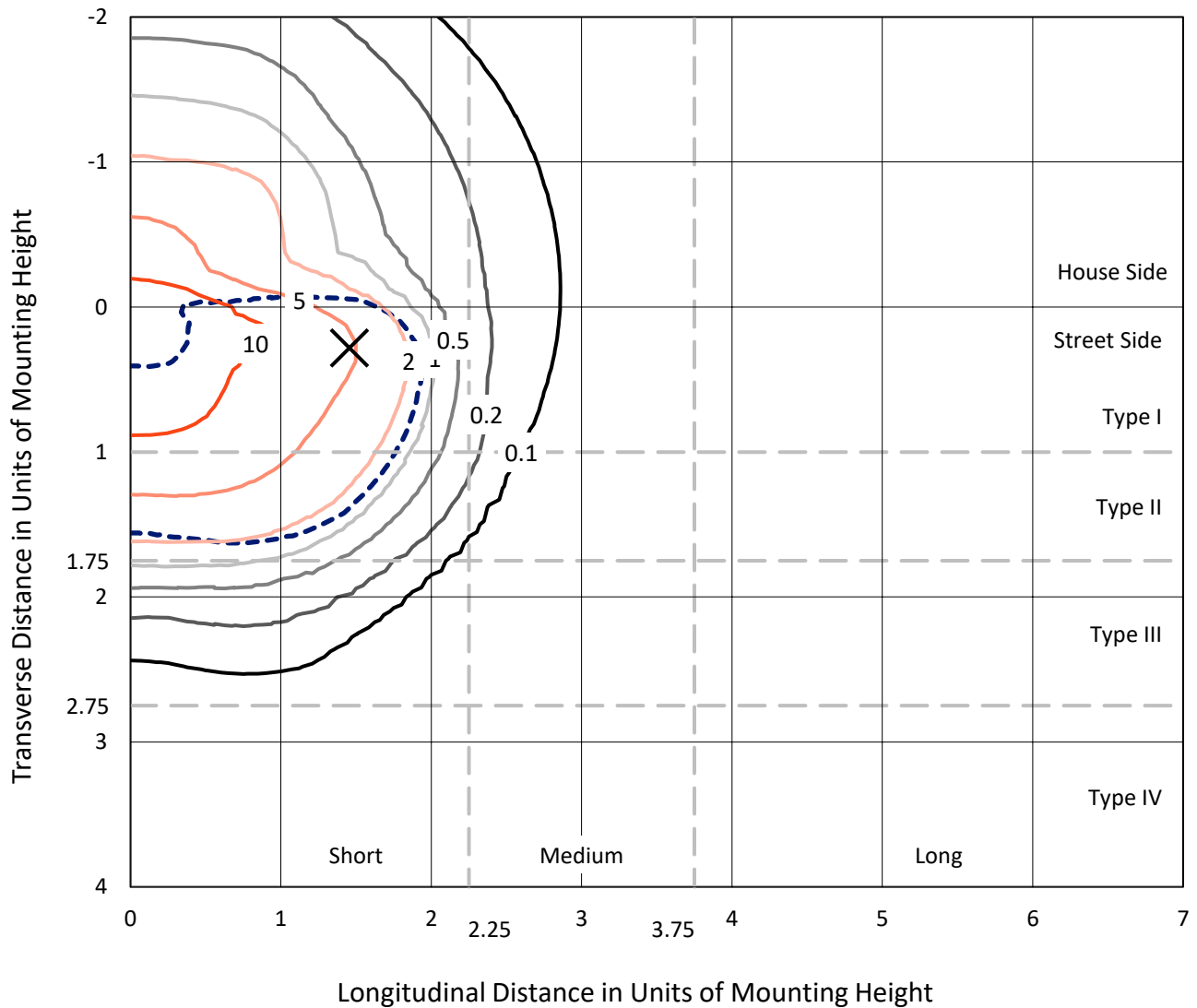
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

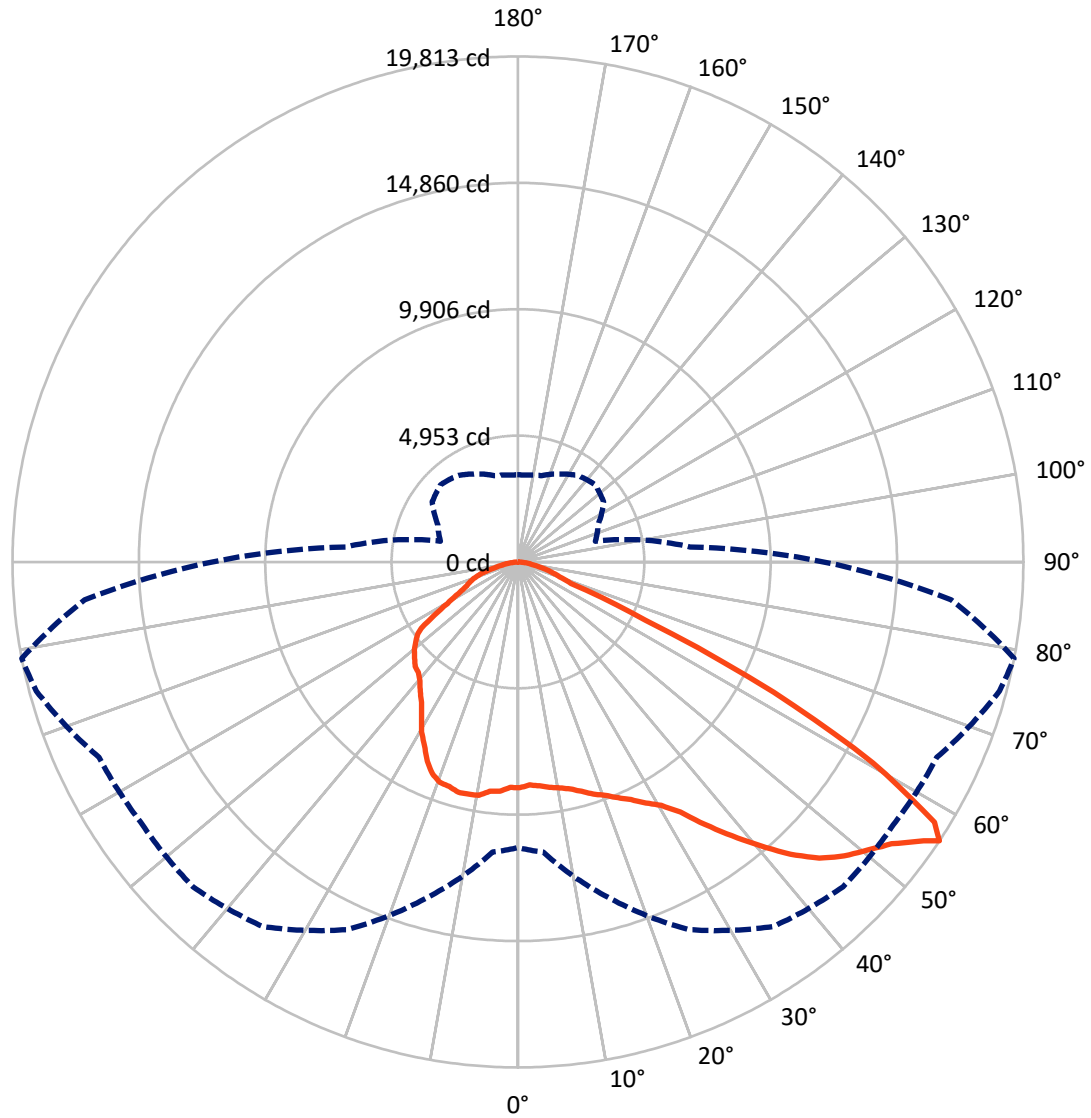
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10211.3	0.0	10211.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	24365.7	0.0	24365.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	34577.0	0.0	34577.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	804.3	2.3
10°-20°	2201.3	6.4
20°-30°	3766.0	10.9
30°-40°	5771.8	16.7
40°-50°	7800.6	22.6
50°-60°	8959.2	25.9
60°-70°	4083.9	11.8
70°-80°	1006.9	2.9
80°-90°	183.0	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°	34577.0	100.0
0°-180°	34577.0	100.0

**Coefficient of Utilization**

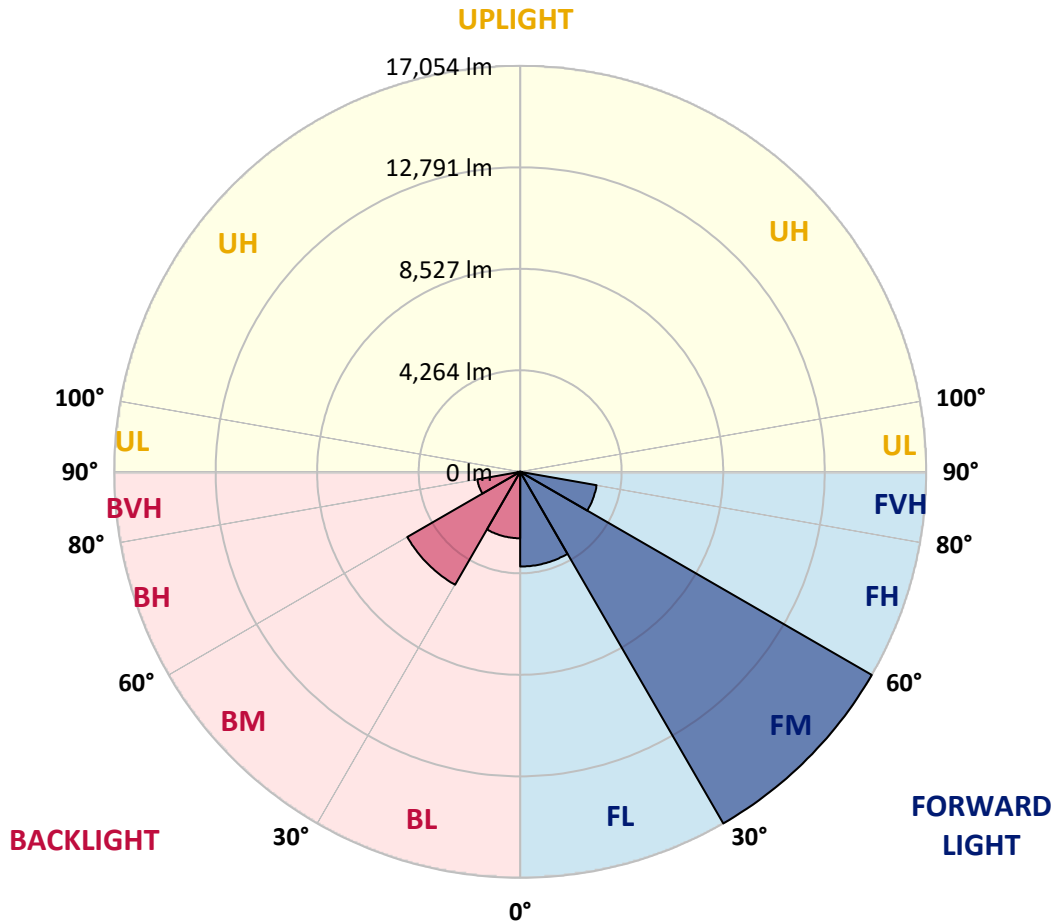


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3978.4	11.5			
FM (30°-60°)	17054.4	49.3			
FH (60°-80°)	3259.8	9.4			G2/5000
FVH (80°-90°)	73.1	0.2			G1/100
BL (0°-30°)	2793.2	8.1	B4/5000		
BM (30°-60°)	5477.2	15.8	B4/8500		
BH (60°-80°)	1830.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	109.9	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°	55°	65°	75°	79°	85°
0°	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9
2.5°	8416.2	8394.6	8446.3	8485.1	8532.5	8592.8	8622.9	8640.1	8790.9	8752.1	8868.4
5°	8235.3	8179.3	8218.0	8248.2	8330.0	8403.2	8485.1	8614.3	8752.1	8812.4	8954.6
7.5°	8075.9	8045.8	8037.1	8058.7	8170.7	8265.4	8407.6	8597.1	8821.0	8920.1	9001.9
10°	7813.2	7770.1	7834.7	7976.8	8007.0	8205.1	8368.8	8640.1	8834.0	9006.2	9247.4
12.5°	7696.9	7653.8	7666.7	7748.6	7959.6	8149.1	8342.9	8648.8	9057.9	9126.8	9449.9
15°	7882.1	7839.0	7851.9	7830.4	8032.8	8131.9	8437.7	8821.0	9213.0	9329.3	9673.9
17.5°	8304.2	8308.5	8252.5	8205.1	8157.7	8368.8	8579.8	8924.4	9273.3	9566.2	9824.6
20°	9109.6	8967.5	8855.5	8588.5	8515.2	8605.7	8872.7	9204.4	9518.8	9760.0	10052.9
22.5°	9729.9	9742.8	9583.4	9144.1	8984.7	9023.5	9251.8	9523.1	9867.7	10040.0	10375.9
25°	10630.0	10539.6	10367.3	10018.4	9660.9	9691.1	9859.1	10104.6	10199.3	10319.9	10686.0
27.5°	11452.7	11478.6	11138.3	10810.9	10367.3	10281.2	10582.7	10625.7	10466.4	10694.7	10819.6
30°	12288.3	12266.8	12042.8	11659.5	11224.4	11241.7	11375.2	11164.1	10944.5	11069.4	11155.5
32.5°	13154.0	12908.5	12899.9	12555.3	12223.7	12064.3	11900.7	12004.0	11663.8	11689.6	11607.8
35°	13847.5	13881.9	13683.8	13438.3	13274.6	12994.7	12546.7	12731.9	12667.3	12637.2	12284.0
37.5°	14351.4	14217.9	14317.0	14235.1	14080.1	13731.2	13266.0	13442.6	13472.8	13619.2	13210.0
40°	14764.9	14708.9	14971.7	15014.7	14907.0	14153.3	13317.7	13843.2	14295.4	14614.2	14127.5
42.5°	14963.0	15083.6	15359.3	15690.9	15449.7	14644.3	13584.7	14149.0	15156.9	15660.8	14997.5
45°	15230.1	15075.0	15484.2	16091.5	16095.8	15057.8	13843.2	14562.5	15828.8	16561.0	15591.9
47.5°	14958.7	15036.3	15458.4	16229.3	16427.5	15492.8	14540.9	15148.2	16569.6	17220.0	16143.2
50°	14351.4	14506.5	15277.5	16078.6	16677.3	15953.7	15342.1	15781.4	17254.4	17749.8	16233.6
52.5°	13718.3	13804.4	15010.4	16194.9	16789.3	16548.1	16414.5	16655.7	18090.0	18348.5	16345.6
55°	11995.4	12404.6	14127.5	16143.2	17336.3	17620.5	17517.2	17870.4	19037.6	19296.0	16957.2
56°	11198.6	11413.9	13597.7	15902.0	17444.0	18012.5	17960.8	18120.2	19541.5	19812.9	17052.0
57.5°	9725.5	9742.8	11594.8	14833.8	17039.1	18128.8	18077.1	18202.0	19442.5	19257.3	16220.7
60°	6086.0	6353.0	7890.7	11409.6	14489.3	16819.4	17112.3	16108.7	16393.0	16001.1	12619.9
62.5°	3152.8	3114.1	4134.9	6671.8	9617.9	12042.8	12314.1	12266.8	11827.4	11254.6	8243.9
65°	1572.1	1580.7	2162.2	3303.6	4927.4	6305.7	7063.7	7145.6	5978.3	5500.2	3910.9
67.5°	1141.4	1184.5	1554.9	2020.1	2321.6	2597.2	3183.0	3122.7	2364.6	2248.3	2084.7
70°	887.3	926.0	1262.0	1542.0	1399.8	1399.8	1524.7	1576.4	1684.1	1731.5	1787.5
72.5°	646.1	676.2	964.8	1063.9	917.4	986.3	1141.4	1262.0	1374.0	1391.2	1455.8
75°	443.6	469.5	633.2	585.8	551.3	680.5	835.6	947.6	1029.4	1072.5	1111.2
77.5°	288.6	297.2	361.8	305.8	353.2	439.3	542.7	637.5	719.3	753.8	762.4
80°	129.2	142.1	155.1	193.8	245.5	314.4	387.6	465.2	516.9	529.8	555.6
82.5°	73.2	73.2	94.8	137.8	180.9	228.3	280.0	336.0	396.3	409.2	404.9
85°	38.8	38.8	56.0	81.8	112.0	133.5	129.2	133.5	142.1	163.7	159.4
87.5°	12.9	12.9	17.2	17.2	21.5	25.8	21.5	30.2	38.8	38.8	38.8
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°	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9	8846.9
2.5°	8834.0	8872.7	8821.0	8933.0	8933.0	8911.5	8803.8	8838.3	8864.1	8864.1	8885.6
5°	9001.9	8989.0	9023.5	8890.0	8808.1	8778.0	8601.4	8515.2	8442.0	8437.7	8373.1
7.5°	9096.7	9062.2	9049.3	8950.3	8588.5	8368.8	7989.8	7770.1	7722.7	7554.7	7619.3
10°	9247.4	9312.1	9247.4	8709.1	8205.1	7701.2	7330.8	6990.5	6857.0	6749.3	6684.7
12.5°	9557.6	9527.4	9152.7	8424.8	7718.4	7119.7	6568.4	6210.9	6077.4	5982.6	5974.0
15°	9820.3	9669.6	9096.7	7976.8	6960.4	6322.9	5870.6	5616.5	5556.2	5564.8	5603.6
17.5°	9910.8	9807.4	8803.8	7511.7	6396.1	5646.7	5435.6	5396.9	5452.9	5517.5	5534.7
20°	10052.9	9889.2	8683.2	6878.5	5698.4	5224.6	5211.7	5349.5	5452.9	5547.6	5560.5
22.5°	10350.1	9936.6	8291.3	6279.8	5220.3	5099.7	5224.6	5340.9	5500.2	5577.8	5508.8
25°	10436.2	9833.2	7739.9	5560.5	4918.8	5022.1	5155.7	5315.0	5427.0	5470.1	5500.2
27.5°	10509.4	9673.9	6994.8	5082.4	4824.0	5017.8	5155.7	5289.2	5349.5	5388.2	5422.7
30°	10716.2	9626.5	6348.7	4763.7	4763.7	4931.7	5108.3	5142.7	5224.6	5272.0	5332.3
32.5°	10819.6	9299.1	5685.4	4561.3	4703.4	4974.8	4987.7	5052.3	5056.6	5095.4	5030.8
35°	11090.9	9066.5	5069.5	4414.8	4729.3	4931.7	4996.3	4957.5	4746.5	4643.1	4664.6
37.5°	11289.0	8950.3	4625.9	4397.6	4733.6	4979.1	5013.5	4720.6	4501.0	4328.7	4371.8
40°	11823.1	8661.7	4289.9	4367.4	4772.3	5030.8	4936.0	4617.3	4221.0	4044.4	4014.3
42.5°	12232.3	8454.9	4078.9	4333.0	4802.5	5104.0	4897.2	4410.5	4005.6	3842.0	3885.0
45°	12706.1	8407.6	3966.9	4341.6	4854.2	5142.7	4849.9	4251.2	3820.4	3755.8	3742.9
47.5°	12874.1	8067.3	3846.3	4268.4	4841.2	5129.8	4690.5	4130.6	3751.5	3760.1	3794.6
50°	12594.1	7718.4	3755.8	4117.6	4755.1	5013.5	4440.7	3971.2	3712.8	3820.4	3880.7
52.5°	12236.6	7360.9	3570.6	3915.2	4578.5	4832.6	4324.4	3962.6	3674.0	3639.5	3652.5
55°	12344.3	7068.0	3312.2	3639.5	4294.2	4496.7	4195.2	3880.7	3579.2	3450.0	3493.1
56°	11995.4	6766.5	3144.2	3467.3	4100.4	4281.3	4130.6	3807.5	3501.7	3415.6	3415.6
57.5°	11009.1	5754.4	2924.6	3191.6	3691.2	3906.6	4005.6	3764.4	3415.6	3264.8	3269.1
60°	8119.0	4091.8	2623.1	2812.6	3058.1	3230.4	3691.2	3643.8	3200.2	3096.8	3058.1
62.5°	5004.9	2989.2	2407.7	2480.9	2605.8	2748.0	3221.7	3299.3	2971.9	2859.9	2834.1
65°	2804.0	2287.1	2244.0	2274.2	2334.5	2407.7	2674.7	2847.0	2623.1	2450.8	2442.2
67.5°	2050.2	2045.9	2080.4	2106.2	2132.0	2132.0	2196.6	2265.6	2235.4	2097.6	2084.7
70°	1821.9	1834.8	1860.7	1865.0	1873.6	1843.5	1791.8	1770.2	1804.7	1718.6	1701.3
72.5°	1503.2	1546.3	1576.4	1580.7	1533.3	1494.6	1425.7	1352.4	1326.6	1309.4	1305.1
75°	1154.3	1184.5	1197.4	1193.1	1175.9	1119.9	1038.0	964.8	917.4	865.7	891.6
77.5°	779.6	822.7	844.2	844.2	818.4	732.2	693.5	637.5	590.1	534.1	542.7
80°	547.0	577.2	611.6	607.3	564.2	521.2	465.2	413.5	374.7	331.7	327.3
82.5°	409.2	426.4	443.6	435.0	404.9	361.8	323.0	275.7	232.6	202.4	202.4
85°	146.4	159.4	193.8	202.4	219.7	219.7	185.2	155.1	124.9	103.4	103.4
87.5°	43.1	43.1	47.4	47.4	43.1	47.4	38.8	43.1	47.4	30.2	30.2
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)