

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: P531676

Luminaire Tested: **GALN-SA7A-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531676
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-SA7A-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 22711 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

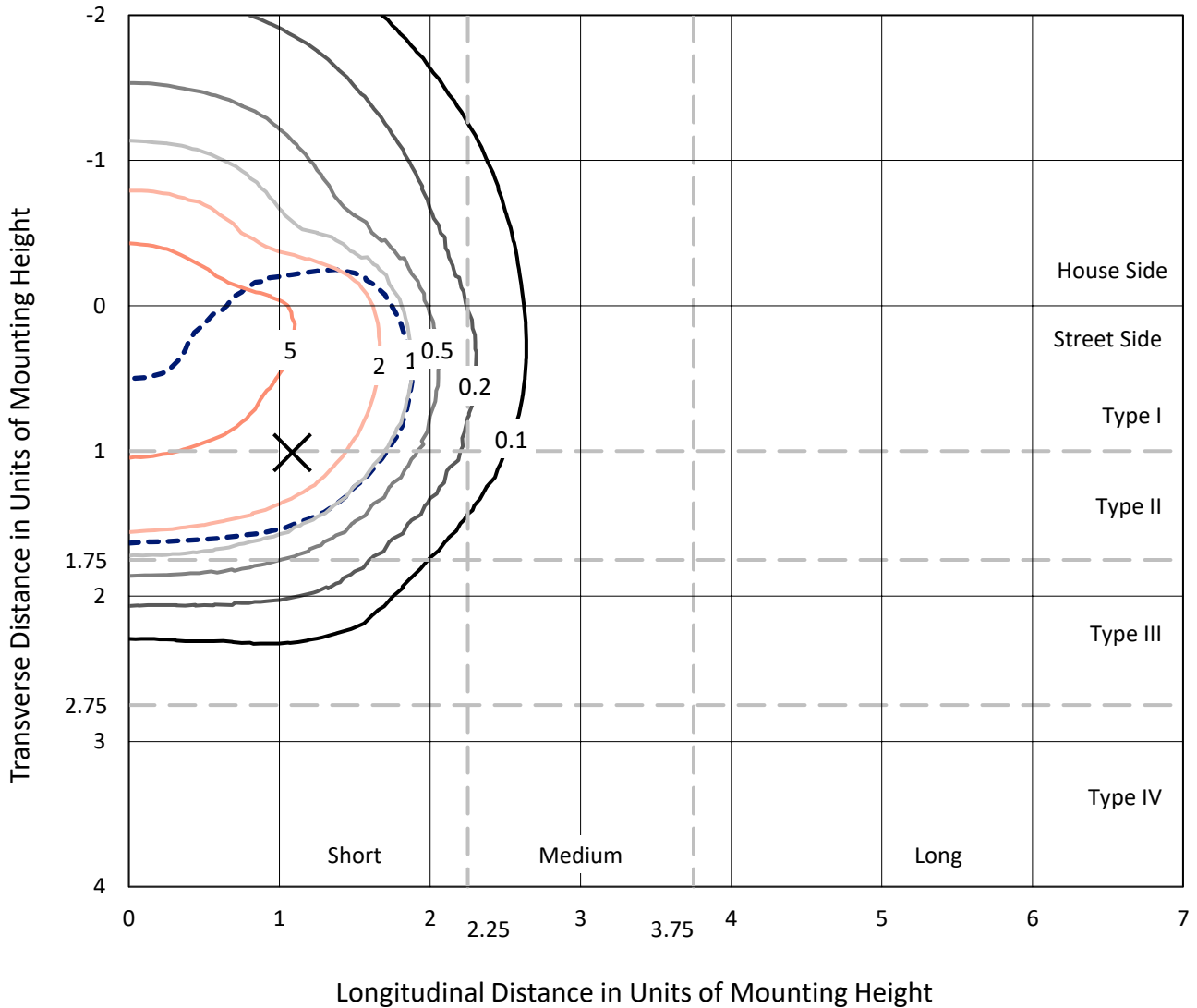
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

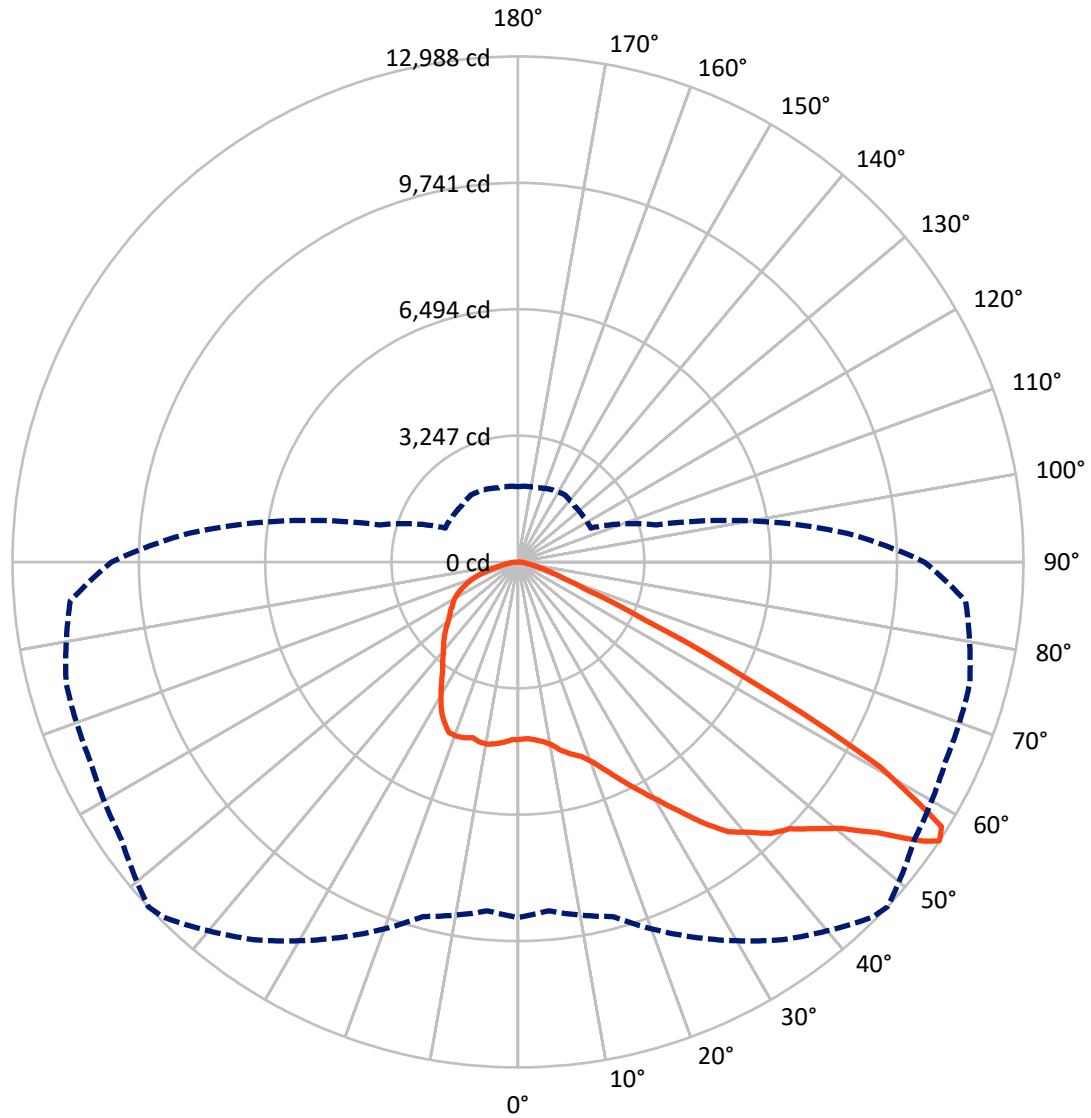
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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
House Side	Lumens	7196.8	0.0	7196.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	15514.2	0.0	15514.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	22711.0	0.0	22711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.5	2.0
10°-20°	1402.2	6.2
20°-30°	2478.7	10.9
30°-40°	3722.9	16.4
40°-50°	5109.4	22.5
50°-60°	6087.1	26.8
60°-70°	2604.9	11.5
70°-80°	737.2	3.2
80°-90°	124.1	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°	22711.0	100.0
0°-180°	22711.0	100.0

Coefficient of Utilization

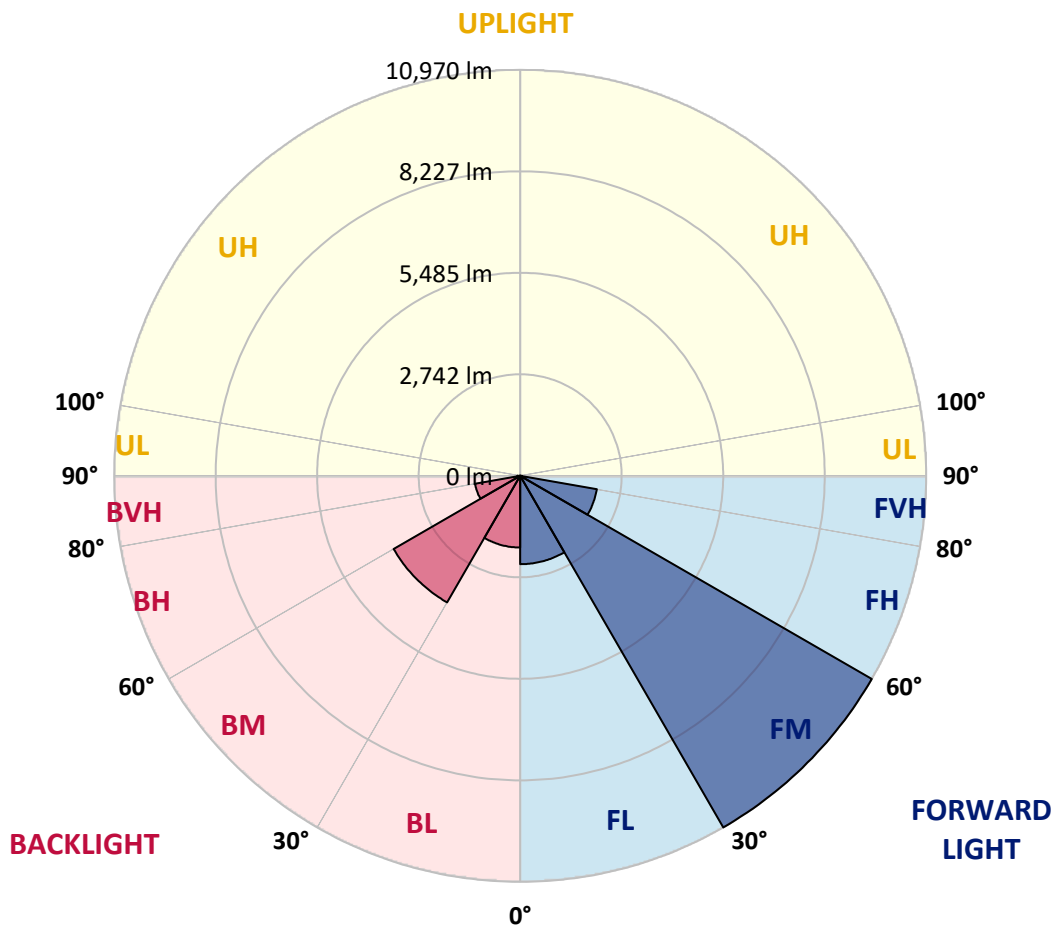


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2387.7	10.5			
FM (30°-60°)	10969.9	48.3			
FH (60°-80°)	2103.9	9.3			G2/5000
FVH (80°-90°)	52.7	0.2			G1/100
BL (0°-30°)	1937.7	8.5	B3/2500		
BM (30°-60°)	3949.5	17.4	B3/5000		
BH (60°-80°)	1238.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	71.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9
2.5°	4544.6	4535.9	4530.1	4576.4	4559.1	4561.9	4544.6	4561.9	4573.5	4547.5	4585.1
5°	4535.9	4561.9	4538.8	4553.3	4590.9	4579.3	4590.9	4625.7	4617.0	4608.3	4596.7
7.5°	4617.0	4619.9	4637.3	4643.1	4654.6	4643.1	4660.4	4692.3	4683.6	4634.4	4640.2
10°	4732.8	4738.6	4741.5	4773.4	4793.7	4796.6	4776.3	4747.3	4744.4	4811.0	4764.7
12.5°	4866.1	4851.6	4886.4	4897.9	4921.1	4947.2	4973.2	4912.4	4950.1	4953.0	4897.9
15°	5060.1	5074.6	5034.1	5034.1	5042.8	5045.7	5118.1	5089.1	5083.3	5051.5	5074.6
17.5°	5349.8	5251.3	5248.4	5207.9	5202.1	5225.2	5251.3	5274.5	5352.7	5289.0	5164.4
20°	5561.2	5584.4	5500.4	5451.2	5459.9	5512.0	5485.9	5590.2	5645.2	5541.0	5419.3
22.5°	5934.9	5856.7	5877.0	5766.9	5775.6	5830.6	5827.7	5934.9	5966.7	5801.6	5625.0
25°	6186.9	6166.6	6184.0	6097.1	6108.7	6152.1	6221.6	6398.3	6346.2	6163.7	5755.3
27.5°	6554.7	6514.2	6499.7	6467.8	6456.2	6572.1	6653.2	6841.5	6803.8	6537.3	5987.0
30°	6931.3	6905.2	6919.7	6789.3	6835.7	7081.9	7105.1	7362.8	7345.5	6876.2	6244.8
32.5°	7192.0	7206.4	7232.5	7160.1	7365.7	7562.7	7640.9	7933.4	7947.9	7458.4	6743.0
35°	7611.9	7562.7	7577.2	7661.2	7756.8	8115.9	8243.4	8437.4	8559.1	8069.6	7220.9
37.5°	7875.5	7927.7	7866.8	8000.1	8249.2	8680.7	8796.6	8996.5	9123.9	8672.0	7872.6
40°	8286.8	8202.8	8246.3	8341.9	8596.7	9158.7	9126.8	9332.4	9373.0	9184.7	8480.9
42.5°	8730.0	8689.4	8628.6	8845.8	9060.2	9468.6	9532.3	9436.7	9642.4	9685.8	9349.8
45°	9260.0	9309.3	9318.0	9323.8	9512.0	9868.3	9781.4	9697.4	9934.9	10250.6	9888.6
47.5°	9752.4	9596.0	9709.0	9865.4	10131.9	10134.8	10236.1	10036.3	10288.3	10569.2	10375.2
50°	9917.5	9842.2	9992.8	10288.3	10699.6	10743.0	10754.6	10470.8	10601.1	10824.1	10543.2
52.5°	9853.8	9827.7	10213.0	10670.6	11273.1	11493.2	11551.1	11200.7	11273.1	11171.7	10913.9
55°	9549.7	9627.9	10016.0	10948.7	11872.7	12553.3	12663.4	12220.2	11759.7	11837.9	11554.0
56°	9132.6	8996.5	9430.9	10633.0	11846.6	12898.0	12987.8	12434.6	12121.8	12020.4	11548.3
57.5°	7748.1	7571.4	8142.0	9567.1	11189.1	12767.7	12834.3	12524.4	12060.9	11855.3	10705.4
60°	4535.9	4622.8	5346.9	6598.2	8631.5	10467.9	10690.9	10916.8	10606.9	9685.8	7968.2
62.5°	2189.7	2134.7	2653.2	3782.8	5260.0	6682.2	6615.6	7249.9	7597.5	6882.0	5031.2
65°	1147.0	1141.2	1448.2	2065.2	2890.7	3510.5	3571.4	3913.1	4391.1	3545.3	2554.7
67.5°	842.9	866.0	1019.6	1451.1	1859.5	1897.2	1888.5	2059.4	2105.7	1781.3	1569.9
70°	660.4	672.0	784.9	1103.6	1384.5	1239.7	1213.6	1233.9	1370.0	1428.0	1358.4
72.5°	477.9	489.5	585.1	744.4	866.0	845.8	863.1	976.1	1144.1	1204.9	1132.5
75°	318.6	327.3	379.4	454.7	512.7	553.2	585.1	715.4	871.8	906.6	871.8
77.5°	220.1	228.8	263.6	321.5	327.3	353.4	365.0	425.8	521.4	564.8	541.6
80°	124.5	124.5	141.9	165.1	202.8	237.5	243.3	292.5	336.0	365.0	370.7
82.5°	57.9	60.8	75.3	101.4	133.2	165.1	170.9	202.8	234.6	263.6	272.3
85°	29.0	31.9	43.4	60.8	81.1	98.5	95.6	98.5	104.3	98.5	101.4
87.5°	8.7	8.7	11.6	14.5	11.6	14.5	14.5	17.4	20.3	23.2	26.1
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°	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9	4561.9
2.5°	4588.0	4596.7	4538.8	4593.8	4573.5	4570.6	4611.2	4605.4	4619.9	4614.1	4579.3
5°	4590.9	4570.6	4631.5	4576.4	4602.5	4657.5	4619.9	4706.8	4663.3	4692.3	4628.6
7.5°	4680.7	4686.5	4674.9	4698.1	4686.5	4712.6	4692.3	4712.6	4677.8	4680.7	4738.6
10°	4758.9	4741.5	4761.8	4732.8	4753.1	4744.4	4698.1	4683.6	4695.2	4680.7	4718.4
12.5°	4903.7	4871.9	4857.4	4822.6	4799.5	4712.6	4640.2	4599.6	4654.6	4663.3	4645.9
15°	5051.5	5054.4	4987.7	4909.5	4764.7	4634.4	4651.7	4666.2	4666.2	4689.4	4645.9
17.5°	5144.1	5144.1	5083.3	4926.9	4779.2	4703.9	4686.5	4640.2	4599.6	4593.8	4590.9
20°	5306.3	5257.1	5118.1	4924.0	4773.4	4738.6	4608.3	4498.2	4414.2	4385.3	4382.4
22.5°	5491.7	5367.2	5173.1	4929.8	4764.7	4715.5	4472.2	4307.1	4156.4	4092.7	4101.4
25°	5662.6	5462.8	5205.0	4903.7	4732.8	4495.3	4223.1	3994.2	3837.8	3785.7	3759.6
27.5°	5781.4	5564.1	5205.0	4926.9	4614.1	4249.1	3971.1	3678.5	3542.4	3507.6	3513.4
30°	5940.7	5691.6	5294.8	4877.7	4376.6	3930.5	3597.4	3406.3	3325.2	3296.2	3316.5
32.5°	6314.3	6024.7	5419.3	4758.9	4095.6	3611.9	3342.5	3235.4	3116.6	3058.7	3038.4
35°	6719.8	6340.4	5541.0	4559.1	3779.9	3322.3	3154.3	3055.8	2913.9	2850.1	2861.7
37.5°	7293.3	6745.9	5549.6	4228.9	3438.1	3160.1	3006.5	2853.0	2737.2	2638.7	2609.7
40°	8066.7	7299.1	5529.4	3881.3	3163.0	2968.9	2855.9	2664.8	2534.4	2464.9	2479.4
42.5°	8747.4	7947.9	5445.4	3487.4	2913.9	2838.5	2711.1	2522.8	2395.4	2323.0	2317.2
45°	9320.9	8425.8	5286.1	3151.4	2705.3	2693.7	2546.0	2401.2	2299.8	2233.2	2262.1
47.5°	9850.9	8811.1	5045.7	2815.4	2514.1	2537.3	2395.4	2305.6	2241.9	2181.0	2178.2
50°	10042.1	8805.3	4834.2	2537.3	2360.6	2349.0	2343.2	2247.7	2181.0	2128.9	2152.1
52.5°	10360.7	8903.8	4605.4	2346.1	2221.6	2224.5	2244.8	2175.3	2099.9	2068.1	2097.0
55°	10818.3	8918.2	4101.4	2123.1	2105.7	2126.0	2126.0	2079.7	2015.9	1989.9	1975.4
56°	10444.7	8486.7	3678.5	2065.2	2047.8	2047.8	2102.8	2050.7	1972.5	1952.2	1934.8
57.5°	9633.7	7435.3	3079.0	1995.7	1969.6	2010.2	2039.1	1984.1	1911.7	1882.7	1900.1
60°	6644.5	5031.2	2314.3	1845.1	1845.1	1911.7	1934.8	1853.7	1821.9	1819.0	1795.8
62.5°	3878.4	2931.2	1810.3	1708.9	1714.7	1769.7	1787.1	1740.8	1700.2	1749.5	1772.6
65°	2056.5	1749.5	1552.5	1564.1	1567.0	1610.4	1685.7	1682.9	1680.0	1694.4	1697.3
67.5°	1488.8	1454.0	1410.6	1399.0	1404.8	1436.7	1512.0	1569.9	1567.0	1532.2	1506.2
70°	1326.6	1277.3	1251.3	1254.2	1231.0	1268.7	1329.5	1367.1	1300.5	1260.0	1242.6
72.5°	1103.6	1089.1	1071.7	1074.6	1028.2	1019.6	950.0	950.0	932.7	921.1	941.4
75°	842.9	837.1	845.8	831.3	782.0	729.9	689.4	651.7	593.8	570.6	559.0
77.5°	533.0	550.3	570.6	538.7	518.5	480.8	440.3	402.6	356.3	330.2	330.2
80°	362.1	376.5	391.0	385.2	362.1	327.3	295.4	254.9	223.0	202.8	199.9
82.5°	275.2	286.8	307.0	283.9	260.7	231.7	205.6	176.7	147.7	124.5	124.5
85°	98.5	113.0	124.5	136.1	144.8	147.7	127.4	104.3	84.0	66.6	63.7
87.5°	26.1	29.0	31.9	29.0	29.0	29.0	31.9	29.0	26.1	20.3	20.3
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)