

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: P532218

Luminaire Tested: **GALN-SA7C-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41074 lumens
Efficiency: N/A
Efficacy: 108.9 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

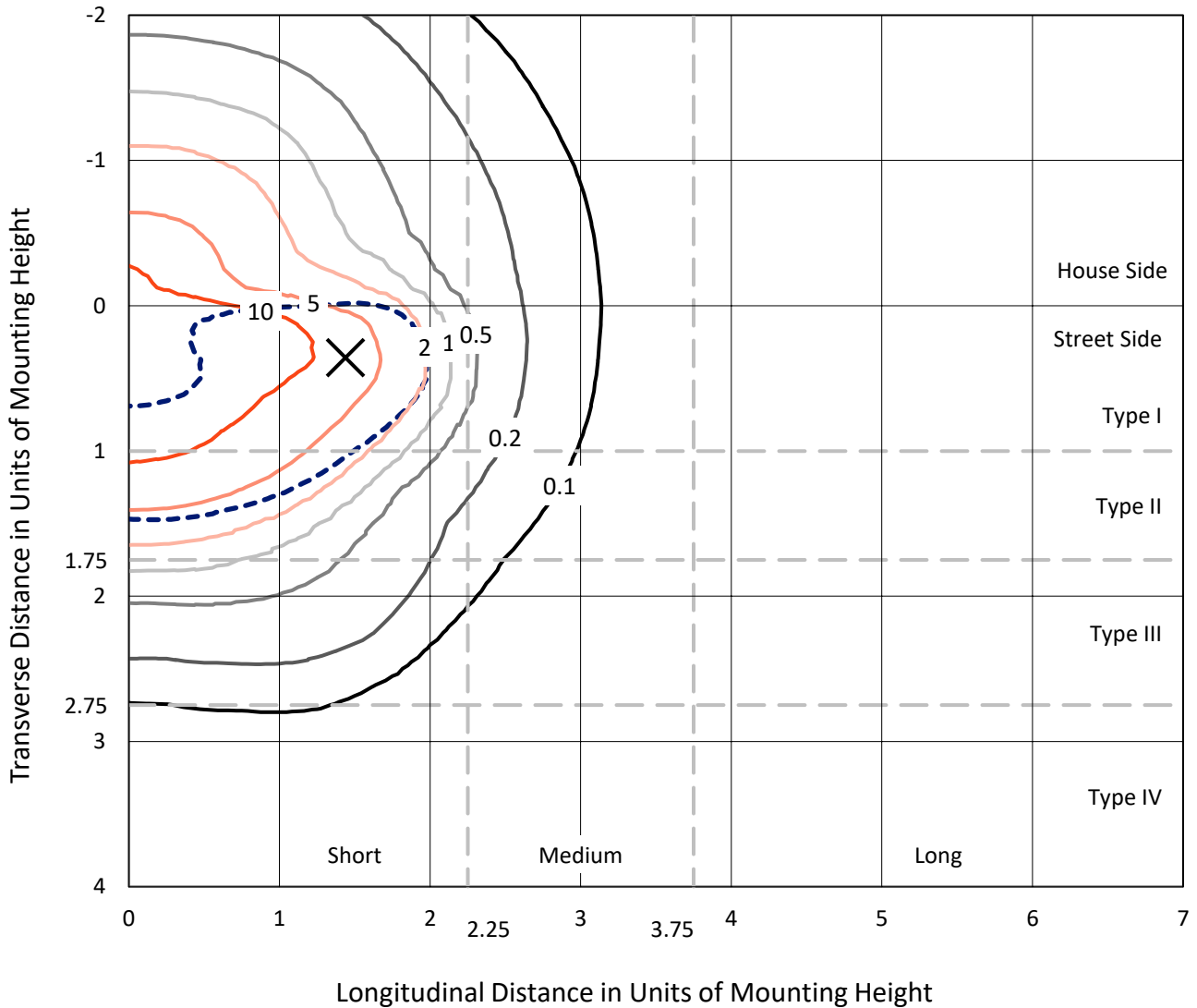
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

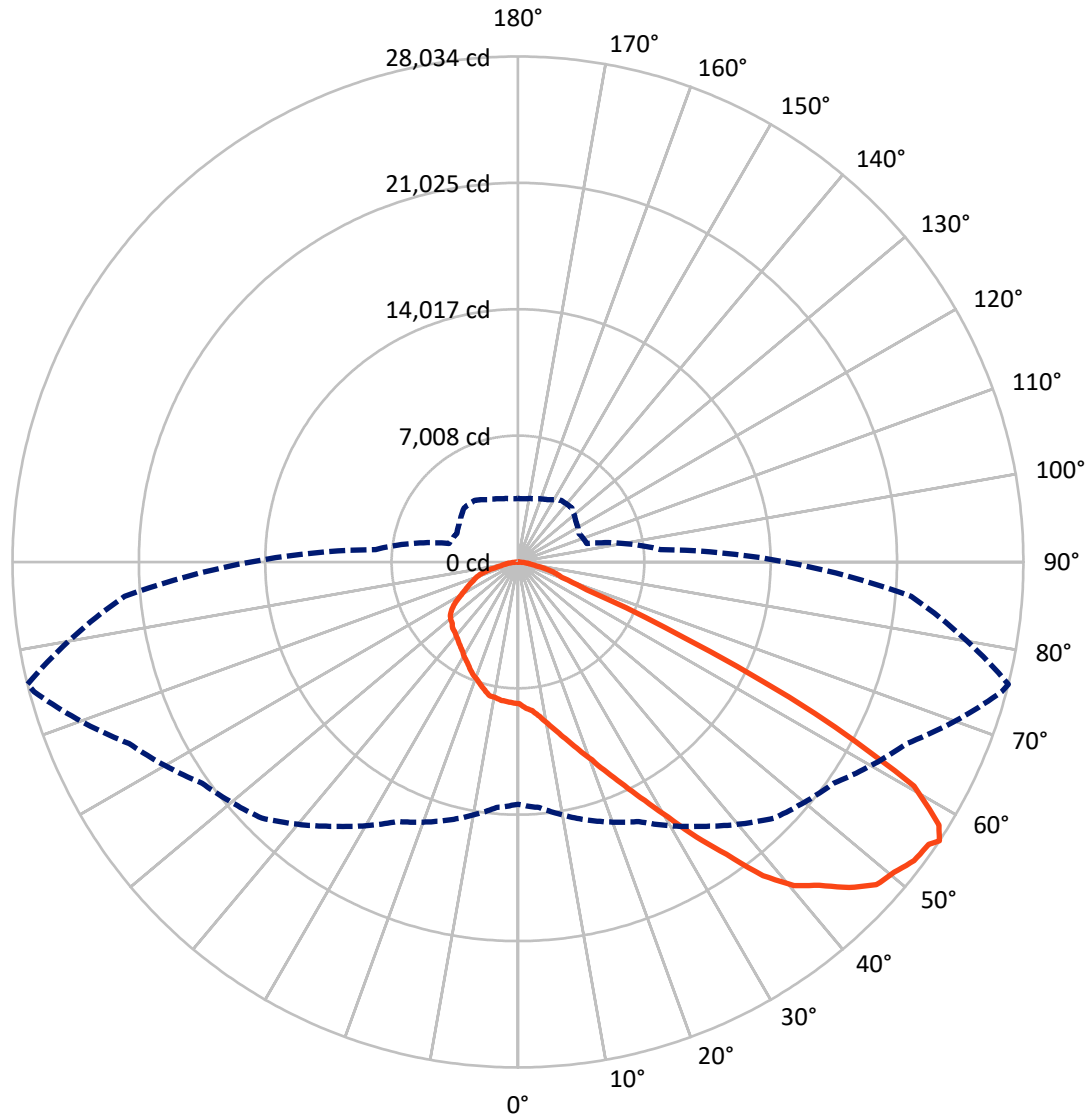
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11043.6	0.0	11043.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	30030.4	0.0	30030.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	41074.0	0.0	41074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.4	1.9
10°-20°	2448.2	6.0
20°-30°	4281.7	10.4
30°-40°	6703.9	16.3
40°-50°	9752.3	23.7
50°-60°	10718.3	26.1
60°-70°	4784.2	11.6
70°-80°	1381.9	3.4
80°-90°	224.1	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°	41074.0	100.0
0°-180°	41074.0	100.0

Coefficient of Utilization



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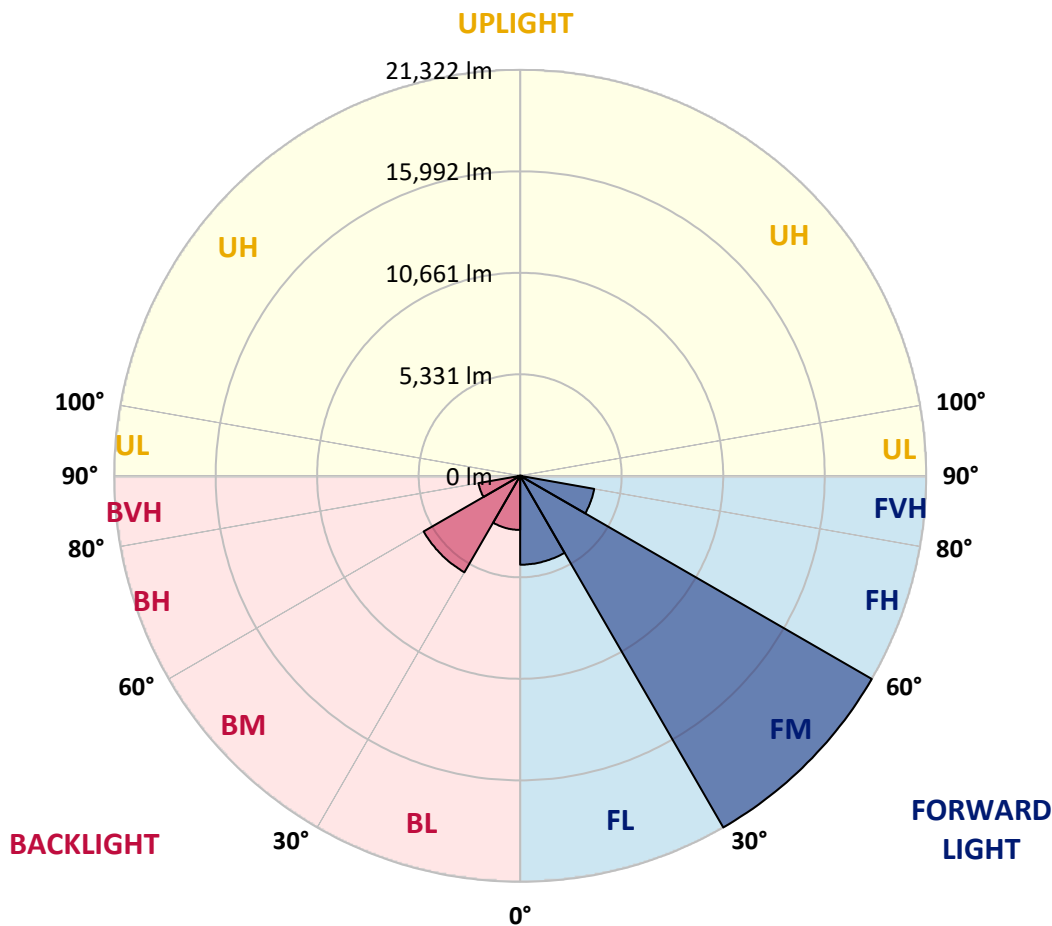
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4667.6	11.4			
FM (30°-60°)	21322.3	51.9			
FH (60°-80°)	3944.1	9.6			G2/5000
FVH (80°-90°)	96.5	0.2			G1/100
BL (0°-30°)	2841.7	6.9	B4/5000		
BM (30°-60°)	5852.2	14.2	B4/8500		
BH (60°-80°)	2222.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	127.7	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°	76°	85°
0°	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0
2.5°	8657.7	8519.2	8508.6	8471.3	8492.6	8396.8	8295.6	8162.5	8024.0	8109.2	7906.9
5°	9264.7	9078.3	9152.8	9025.1	9041.0	8913.2	8705.6	8551.2	8380.8	8279.6	8135.9
7.5°	9477.6	9493.6	9546.9	9525.6	9419.1	9419.1	9280.6	9009.1	8710.9	8652.3	8412.7
10°	9765.2	9770.5	9711.9	9727.9	9877.0	9807.8	9685.3	9568.2	9184.8	9115.6	8689.6
12.5°	9866.3	9770.5	9866.3	9951.5	10127.2	10223.1	10196.4	10111.3	9701.3	9653.3	9030.4
15°	9882.3	9823.7	9903.6	10095.3	10249.7	10654.4	10856.7	10798.1	10255.0	10260.3	9413.7
17.5°	9807.8	9887.6	9919.6	10084.6	10441.4	10819.4	11405.1	11485.0	11037.7	10968.5	9898.3
20°	9908.9	9850.4	9892.9	10042.0	10515.9	11106.9	11873.7	12400.8	11772.5	11724.6	10398.8
22.5°	10297.6	10217.7	10207.1	10302.9	10643.7	11256.0	12368.8	13316.6	12667.0	12693.6	11021.7
25°	10601.1	10643.7	10606.4	10601.1	10814.1	11479.7	13023.8	14408.1	13881.0	13726.6	11756.5
27.5°	11122.9	11224.1	11149.5	11250.7	11202.8	11815.1	13492.3	15616.8	15190.8	14983.2	12422.1
30°	11847.0	11900.3	11831.1	11831.1	11687.3	12283.7	13918.3	16878.7	16703.0	16420.8	13204.8
32.5°	12800.1	12880.0	12741.6	12661.7	12640.4	12981.2	14685.0	18124.6	18422.8	18183.2	14243.1
35°	14062.0	14014.1	13849.1	13774.5	13487.0	14051.4	15824.5	19556.9	20339.6	19913.7	15499.7
37.5°	15174.9	15100.3	15089.7	14674.4	14743.6	15206.8	16793.5	20643.1	22197.9	22075.4	16825.5
40°	16213.1	16282.4	16394.2	16159.9	16053.4	16564.6	17922.3	21473.8	23640.8	23592.9	17847.8
42.5°	17326.0	17262.1	17459.1	17262.1	17102.3	17826.5	19147.0	22048.8	24908.1	24514.1	18918.0
45°	18939.3	18737.0	18806.2	18822.2	18705.0	18971.2	19652.8	22464.1	25797.3	25754.7	19700.7
47.5°	20286.4	20291.7	20174.6	20084.1	19727.3	19993.5	20217.2	22725.0	26819.6	26750.4	20004.2
50°	20786.9	20717.7	21058.5	21255.5	21276.8	20733.7	20659.1	22868.8	27357.4	27053.9	20307.7
52.5°	18987.2	19051.1	19588.9	20760.3	21436.5	21495.1	21175.6	23167.0	27575.7	27511.8	20552.6
55°	15281.4	15590.2	16474.0	17826.5	19429.2	21191.6	21734.7	23475.8	27692.8	27639.6	21638.8
56°	13433.7	13673.4	14823.4	15883.0	17895.7	20089.4	21383.2	23805.9	27783.3	28033.6	21894.4
57.5°	10814.1	11091.0	11916.3	13119.6	15494.3	17991.5	20414.2	23401.2	27431.9	27527.7	22080.8
60°	6762.1	6788.8	7779.1	8572.5	10244.4	12683.0	15579.5	20360.9	25387.3	25248.8	19833.8
62.5°	4435.3	4440.6	5340.5	5990.1	6751.5	7310.6	9168.8	13503.0	18731.6	18486.7	14120.6
65°	3114.8	3184.1	3881.6	4749.5	5058.3	4765.4	4706.9	7118.9	10462.7	10111.3	7587.4
67.5°	2278.9	2284.2	2901.9	3833.7	4280.9	3626.0	2944.5	3476.9	4142.5	4131.8	3514.2
70°	1506.8	1570.7	2044.6	2864.6	3375.7	2912.5	2406.7	2486.5	2635.6	2635.6	2614.3
72.5°	878.5	937.1	1251.3	1815.7	1895.5	1821.0	1906.2	2129.8	2225.6	2220.3	2193.7
75°	500.5	527.1	596.3	756.1	942.4	1112.8	1400.3	1613.3	1709.2	1767.7	1698.5
77.5°	292.8	308.8	351.4	431.3	489.9	601.7	761.4	910.5	1038.3	1022.3	1033.0
80°	154.4	154.4	197.0	255.6	340.8	426.0	505.8	591.0	660.2	676.2	692.2
82.5°	90.5	95.8	127.8	186.4	244.9	303.5	388.7	447.3	511.2	516.5	527.1
85°	47.9	53.2	79.9	122.5	165.1	186.4	191.7	181.0	197.0	186.4	213.0
87.5°	16.0	16.0	26.6	21.3	21.3	26.6	31.9	31.9	42.6	42.6	42.6
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°	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0	7859.0
2.5°	7901.6	7901.6	7811.1	7640.7	7614.1	7544.8	7480.9	7475.6	7427.7	7385.1	7363.8
5°	8050.7	7885.6	7752.5	7598.1	7417.0	7331.9	7236.0	7129.5	7086.9	7129.5	7124.2
7.5°	8221.0	8082.6	7683.3	7395.7	7188.1	7102.9	6996.4	6884.6	6895.2	6895.2	6820.7
10°	8386.1	8199.8	7560.8	7193.4	6889.9	6826.0	6767.5	6810.1	6863.3	6873.9	6826.0
12.5°	8663.0	8242.3	7502.2	6991.1	6799.4	6661.0	6698.2	6815.4	6927.2	6895.2	6932.5
15°	8870.6	8279.6	7236.0	6783.4	6543.8	6607.7	6740.8	6820.7	7007.1	6985.8	7023.0
17.5°	9073.0	8300.9	6975.1	6506.6	6405.4	6581.1	6682.3	6911.2	6969.8	7097.6	7145.5
20°	9488.3	8343.5	6708.9	6336.2	6304.2	6506.6	6682.3	6788.8	6916.5	7028.4	7028.4
22.5°	9701.3	8322.2	6533.2	6112.5	6213.7	6341.5	6501.2	6682.3	6682.3	6788.8	6794.1
25°	9967.5	8237.0	6256.3	6006.1	6080.6	6203.1	6384.1	6320.2	6389.4	6389.4	6474.6
27.5°	10271.0	8056.0	6016.7	5814.4	5963.5	6096.6	6123.2	6080.6	6000.7	5990.1	5958.1
30°	10515.9	7832.4	5841.0	5750.5	5872.9	5947.5	5862.3	5771.8	5633.3	5622.7	5548.1
32.5°	10851.4	7555.5	5622.7	5590.7	5729.2	5734.5	5707.9	5569.4	5367.1	5281.9	5196.7
35°	11415.8	7395.7	5457.6	5505.5	5548.1	5532.2	5484.2	5335.2	5132.8	5095.6	5063.6
37.5°	11831.1	7278.6	5287.2	5345.8	5383.1	5404.4	5260.6	5095.6	5100.9	5026.3	5005.0
40°	12299.6	7204.1	5148.8	5175.4	5180.8	5250.0	5074.3	4994.4	5031.7	4983.7	5015.7
42.5°	12901.3	7225.4	5005.0	4983.7	5084.9	5058.3	4973.1	4866.6	4887.9	4744.1	4765.4
45°	13220.8	7369.1	4919.9	4824.0	4935.8	4930.5	4818.7	4717.5	4589.7	4312.9	4323.5
47.5°	13433.7	7406.4	4717.5	4653.6	4770.8	4840.0	4712.2	4477.9	4296.9	4099.9	4052.0
50°	13652.1	7475.6	4621.7	4488.6	4536.5	4701.5	4541.8	4318.2	4142.5	3966.8	3993.4
52.5°	13843.7	7608.7	4435.3	4238.3	4323.5	4504.5	4419.3	4147.8	3956.1	3812.4	3769.8
55°	14695.7	7906.9	4121.2	3865.6	4067.9	4296.9	4249.0	3918.8	3711.2	3636.6	3626.0
56°	14828.8	7917.6	3956.1	3737.8	3924.2	4227.7	4169.1	3817.7	3631.3	3514.2	3519.5
57.5°	14850.1	7789.8	3721.8	3620.7	3780.4	4126.5	4052.0	3737.8	3482.2	3375.7	3343.8
60°	13066.4	6080.6	3429.0	3365.1	3551.5	3817.7	3791.1	3519.5	3232.0	3109.5	3168.1
62.5°	8907.9	4456.6	3200.0	3189.4	3285.2	3546.1	3476.9	3232.0	2992.4	2912.5	2875.2
65°	5186.1	3381.1	2976.4	2933.8	3013.7	3152.1	3200.0	2944.5	2694.2	2641.0	2625.0
67.5°	3061.6	2795.4	2688.9	2619.7	2593.0	2678.2	2715.5	2566.4	2316.2	2241.6	2305.5
70°	2561.1	2486.5	2491.9	2374.7	2310.8	2252.3	2220.3	2087.2	1879.6	1783.7	1757.1
72.5°	2209.7	2177.7	2156.4	2049.9	1991.4	1858.3	1719.8	1586.7	1432.3	1352.4	1357.8
75°	1687.9	1677.2	1687.9	1634.6	1533.5	1427.0	1299.2	1128.8	1011.7	910.5	931.8
77.5°	1006.3	1038.3	1054.3	1033.0	990.4	894.5	814.7	702.8	591.0	511.2	500.5
80°	692.2	718.8	745.4	718.8	676.2	607.0	521.8	436.6	356.7	314.1	303.5
82.5°	527.1	553.7	569.7	543.1	489.9	415.3	356.7	298.2	234.3	191.7	181.0
85°	191.7	218.3	213.0	255.6	276.9	266.2	229.0	175.7	133.1	95.8	90.5
87.5°	53.2	47.9	53.2	53.2	53.2	47.9	42.6	42.6	42.6	26.6	21.3
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)