

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: P533547

Luminaire Tested: **GALN-SA9A-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533547
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-SA9A-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 20705 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

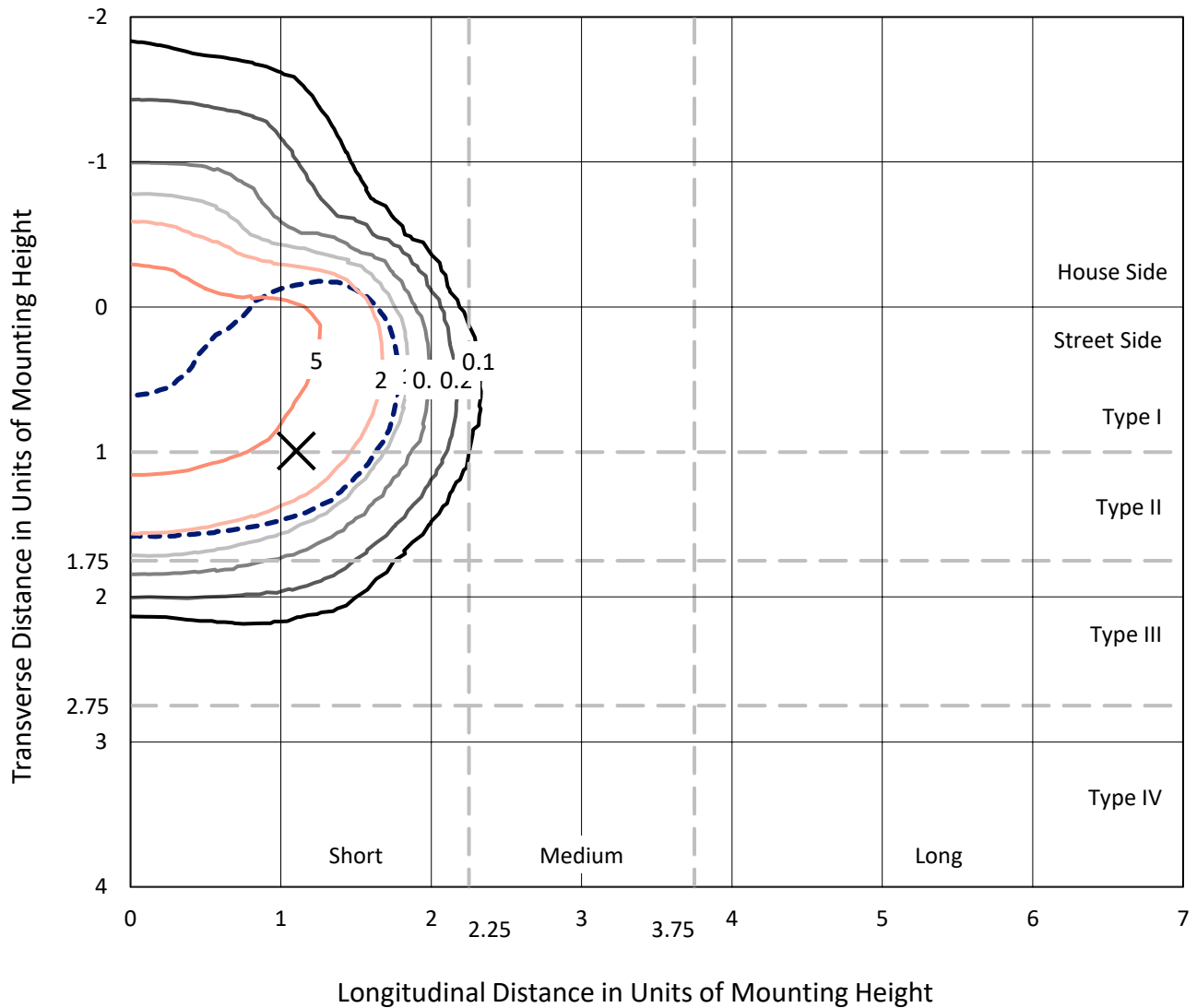
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

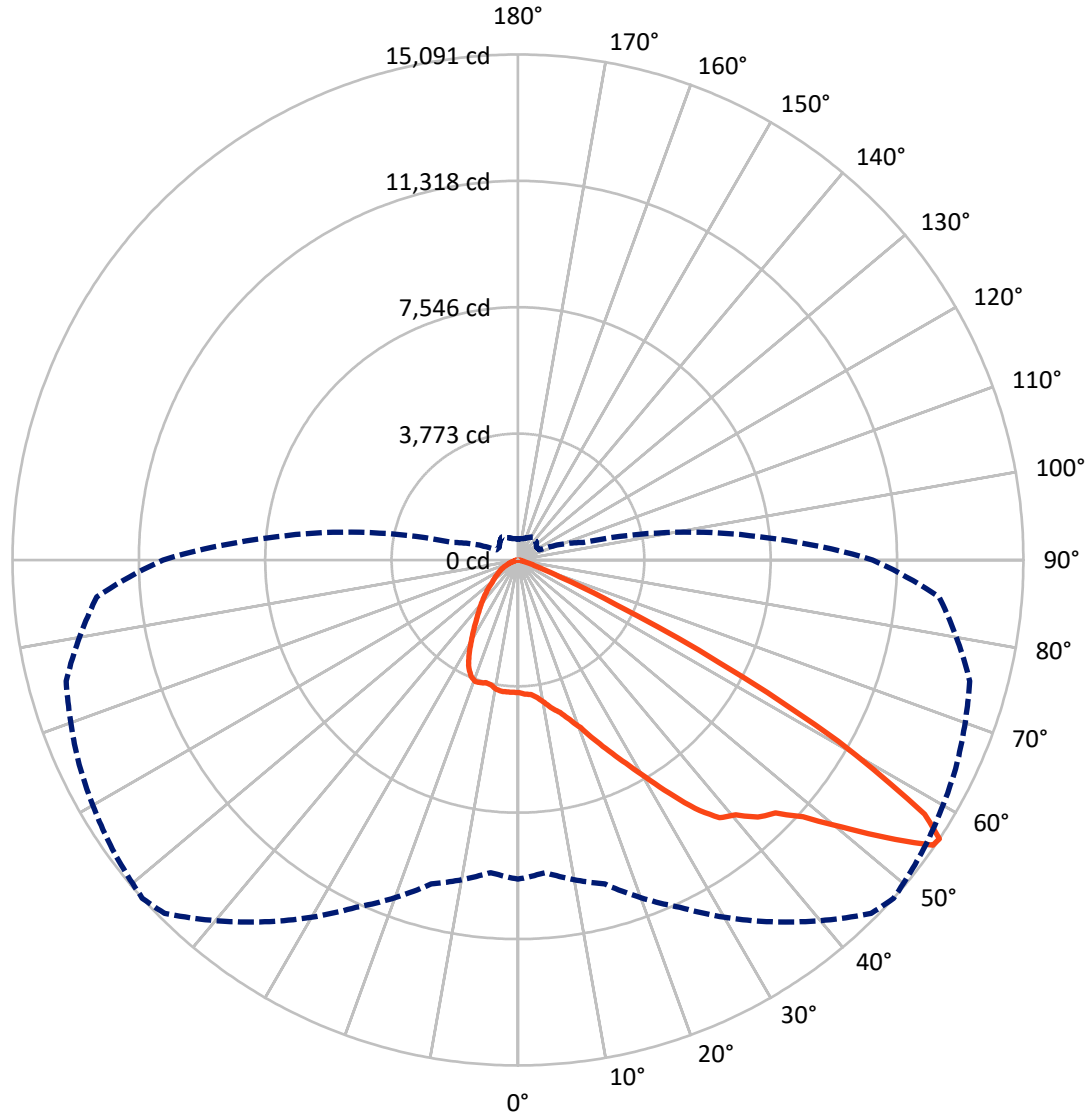
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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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
House Side	Lumens	4502.9	0.0	4502.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16202.1	0.0	16202.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	20705.0	0.0	20705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.2	1.9
10°-20°	1231.1	5.9
20°-30°	2233.0	10.8
30°-40°	3507.6	16.9
40°-50°	5117.0	24.7
50°-60°	6164.9	29.8
60°-70°	1805.0	8.7
70°-80°	229.0	1.1
80°-90°	32.1	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°	20705.0	100.0
0°-180°	20705.0	100.0

Coefficient of Utilization



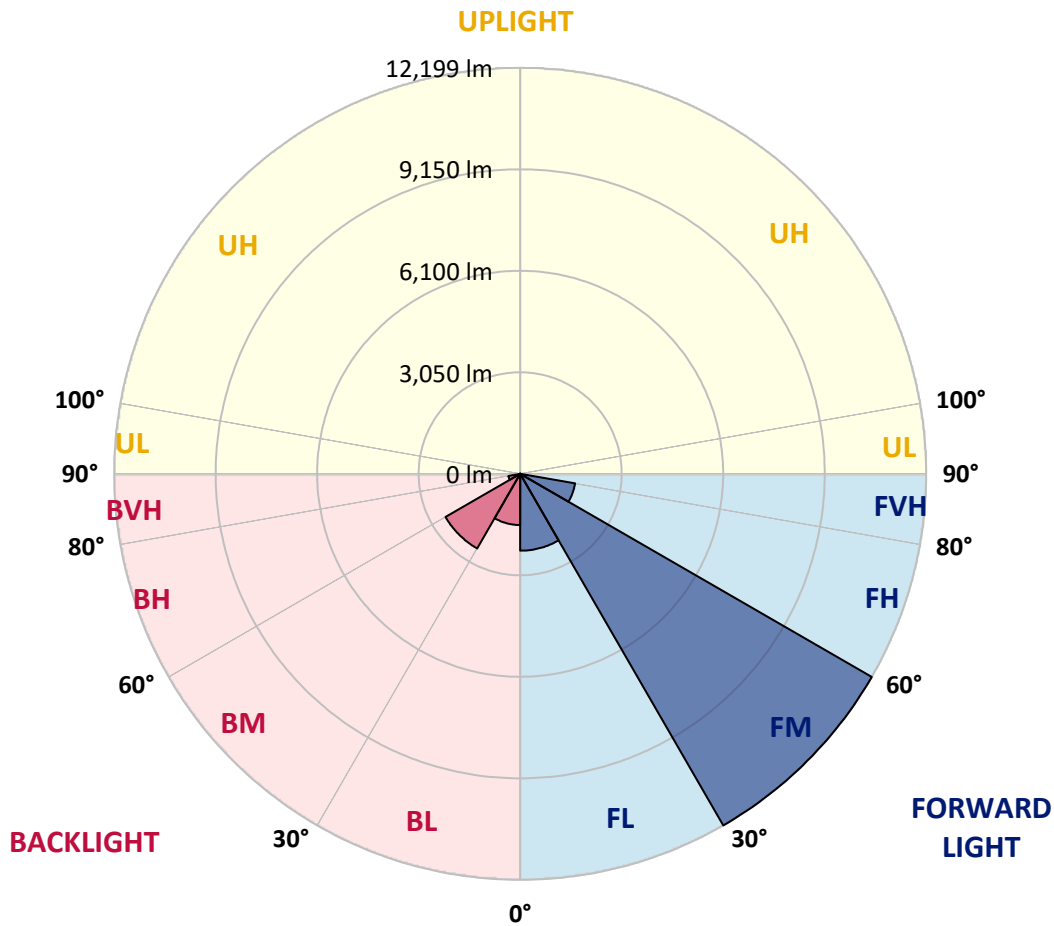
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2310.3	11.2			
FM (30°-60°)	12199.4	58.9			
FH (60°-80°)	1676.2	8.1			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1539.1	7.4	B3/2500		
BM (30°-60°)	2590.1	12.5	B3/5000		
BH (60°-80°)	357.8	1.7	B1/500		G1/500
BVH (80°-90°)	16.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7
2.5°	4026.3	4007.4	4007.4	3977.3	4011.2	3996.1	4007.4	3969.7	4007.4	3950.9	3996.1
5°	4045.1	4048.9	4033.8	4052.7	4052.7	4075.3	4037.6	4071.5	4090.4	4048.9	4030.1
7.5°	4143.2	4150.7	4146.9	4131.9	4162.0	4158.2	4154.5	4128.1	4135.6	4120.5	4097.9
10°	4335.4	4331.7	4350.5	4312.8	4290.2	4316.6	4324.1	4282.6	4252.5	4241.2	4169.6
12.5°	4614.4	4569.2	4542.8	4505.1	4516.4	4478.7	4546.5	4474.9	4459.8	4392.0	4320.3
15°	4840.6	4833.1	4836.8	4776.5	4708.7	4723.7	4723.7	4686.0	4663.4	4580.5	4478.7
17.5°	5304.3	5146.0	5179.9	5104.5	5047.9	5044.2	5010.2	5017.8	4957.5	4784.1	4629.5
20°	5666.2	5598.4	5545.6	5417.4	5330.7	5357.1	5342.0	5304.3	5285.5	5059.3	4840.6
22.5°	5990.4	6013.0	5926.3	5892.4	5771.8	5783.1	5813.2	5779.3	5636.1	5402.3	5078.1
25°	6446.6	6420.2	6303.3	6261.9	6148.8	6190.2	6307.1	6280.7	6190.2	5768.0	5262.8
27.5°	6985.7	6895.2	6917.8	6729.3	6620.0	6736.9	6876.4	7008.3	6752.0	6197.8	5481.5
30°	7366.5	7272.2	7264.7	7257.1	7230.7	7366.5	7528.6	7649.2	7441.9	6627.5	5843.4
32.5°	7555.0	7577.6	7641.7	7619.0	7849.0	8128.0	8297.6	8471.0	8210.9	7328.8	6322.2
35°	8056.4	7913.1	8056.4	8071.4	8308.9	8900.8	9115.7	9530.4	9466.3	8320.3	6906.5
37.5°	8350.4	8339.1	8358.0	8501.2	8731.2	9462.5	9767.9	10088.4	9967.7	8915.9	7634.1
40°	8836.7	8866.9	8863.1	8972.5	9225.0	9884.8	10009.2	10269.3	10280.6	9741.5	8704.8
42.5°	9617.1	9496.5	9417.3	9530.4	9884.8	10250.5	10499.3	10446.5	10819.7	10744.3	10080.8
45°	10318.3	10389.9	10273.1	10461.6	10589.8	10785.8	10778.2	10891.3	11366.4	11724.5	11117.5
47.5°	10974.3	11019.5	11076.1	11204.3	11483.2	11513.4	11449.3	11400.3	12056.3	12425.7	11920.5
50°	11366.4	11407.8	11671.7	11901.7	12421.9	12489.8	12527.5	12403.1	12847.9	12889.4	12678.3
52.5°	11260.8	11306.0	11675.5	12433.3	13262.6	13884.7	13771.6	13560.5	13534.1	13696.2	13379.5
55°	10325.9	10284.4	10793.3	11973.3	13526.5	15019.4	15034.5	14812.1	14386.1	14276.8	13273.9
56°	9530.4	9368.3	10016.7	11441.8	13187.2	14921.4	15091.1	14853.6	14453.9	13963.8	12621.7
57.5°	7807.5	7962.1	8606.8	9786.8	12014.8	14216.4	14314.5	14257.9	13956.3	13134.5	11106.2
60°	4305.3	4576.7	5146.0	6589.8	8554.0	10910.2	10989.4	11449.3	11505.8	10058.2	7641.7
62.5°	1828.4	1798.3	2390.1	3453.3	4870.8	6586.1	6733.1	7204.3	7291.1	5798.2	3834.0
65°	742.7	784.1	1082.0	1737.9	2574.9	3000.9	3208.2	3362.8	3649.3	2393.9	1413.7
67.5°	490.1	486.3	637.1	991.5	1387.3	1338.3	1338.3	1413.7	1308.2	976.4	610.7
70°	350.6	361.9	456.2	686.1	863.3	640.9	614.5	588.1	667.3	644.7	493.9
72.5°	230.0	245.0	305.4	410.9	448.6	350.6	350.6	422.2	550.4	520.3	403.4
75°	150.8	154.6	188.5	237.5	222.4	181.0	199.8	282.7	399.6	384.5	286.5
77.5°	101.8	105.6	128.2	154.6	124.4	101.8	109.3	143.3	196.0	196.0	150.8
80°	37.7	41.5	52.8	49.0	56.5	71.6	79.2	98.0	116.9	116.9	101.8
82.5°	0.0	3.8	11.3	26.4	41.5	56.5	64.1	75.4	86.7	98.0	94.2
85°	0.0	3.8	11.3	18.8	30.2	33.9	37.7	26.4	22.6	22.6	18.8
87.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.5	3.8	3.8
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°	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7	3954.7
2.5°	3954.7	3950.9	3950.9	3939.6	3962.2	3950.9	3958.4	3954.7	3905.7	3943.4	3917.0
5°	3996.1	4022.5	3981.1	3973.5	3943.4	3954.7	3954.7	3917.0	3950.9	3947.1	3939.6
7.5°	4101.7	4056.5	4011.2	3966.0	3958.4	3947.1	3905.7	3890.6	3917.0	3886.8	3932.0
10°	4146.9	4154.5	4086.6	4026.3	3969.7	3890.6	3834.0	3800.1	3758.6	3803.9	3830.3
12.5°	4354.3	4278.9	4162.0	4067.8	3875.5	3796.3	3739.8	3724.7	3796.3	3811.4	3785.0
15°	4425.9	4414.6	4263.8	4052.7	3852.9	3758.6	3769.9	3739.8	3747.3	3709.6	3717.2
17.5°	4572.9	4444.8	4267.6	4003.7	3849.1	3826.5	3758.6	3638.0	3570.1	3540.0	3566.4
20°	4735.0	4610.6	4354.3	4022.5	3883.0	3822.7	3600.3	3453.3	3313.8	3238.4	3242.1
22.5°	4878.3	4723.7	4316.6	4030.1	3913.2	3664.4	3396.7	3106.4	2933.0	2816.1	2819.9
25°	5051.7	4833.1	4331.7	4045.1	3834.0	3411.8	3027.3	2744.5	2537.2	2458.0	2484.4
27.5°	5149.7	4900.9	4414.6	4079.1	3626.7	3053.6	2639.0	2375.1	2254.4	2216.7	2213.0
30°	5443.8	5051.7	4516.4	4011.2	3279.8	2669.1	2284.6	2122.5	2005.6	1971.7	1979.2
32.5°	5881.1	5326.9	4648.3	3834.0	2925.5	2326.1	2054.6	1934.0	1824.6	1760.6	1753.0
35°	6246.8	5798.2	4787.8	3558.8	2514.5	2062.2	1892.5	1741.7	1575.8	1504.2	1485.4
37.5°	6944.2	6329.7	4757.7	3144.1	2122.5	1866.1	1719.1	1534.4	1391.1	1293.1	1281.8
40°	7871.6	6951.8	4610.6	2639.0	1832.2	1692.7	1534.4	1357.2	1180.0	1097.1	1089.5
42.5°	8998.8	7713.3	4343.0	2126.2	1541.9	1519.3	1376.0	1172.5	1014.1	953.8	957.6
45°	9914.9	8365.5	4071.5	1707.8	1327.0	1349.6	1225.2	1033.0	923.6	874.6	874.6
47.5°	10729.2	8806.6	3777.5	1410.0	1127.2	1180.0	1070.7	957.6	863.3	825.6	818.1
50°	11513.4	9255.2	3483.4	1142.3	961.3	1014.1	1002.8	912.3	836.9	791.7	795.5
52.5°	12003.5	9326.8	3110.2	934.9	840.7	901.0	938.7	855.8	772.8	746.4	738.9
55°	11404.1	8403.2	2412.8	769.1	712.5	791.7	863.3	769.1	705.0	659.7	656.0
56°	10597.3	7513.5	2016.9	708.7	674.8	761.5	836.9	735.1	663.5	637.1	618.3
57.5°	8972.5	6148.8	1489.1	629.6	625.8	708.7	795.5	701.2	618.3	595.7	595.7
60°	5594.6	3460.8	901.0	527.8	542.9	629.6	716.3	625.8	550.4	550.4	561.7
62.5°	2548.5	1440.1	546.6	448.6	467.5	542.9	637.1	565.5	524.0	565.5	573.0
65°	867.1	622.0	395.8	358.1	369.5	448.6	546.6	573.0	569.3	595.7	610.7
67.5°	486.3	399.6	331.8	297.8	290.3	331.8	448.6	573.0	550.4	539.1	546.6
70°	410.9	339.3	294.1	263.9	252.6	267.7	346.8	433.5	388.3	377.0	369.5
72.5°	331.8	282.7	256.4	237.5	203.6	173.4	158.3	165.9	184.7	196.0	214.9
75°	233.7	214.9	214.9	192.3	147.0	109.3	86.7	71.6	49.0	33.9	37.7
77.5°	131.9	131.9	135.7	116.9	94.2	71.6	52.8	37.7	18.8	7.5	3.8
80°	90.5	98.0	105.6	94.2	79.2	64.1	45.2	26.4	11.3	0.0	0.0
82.5°	90.5	101.8	109.3	94.2	79.2	60.3	45.2	26.4	11.3	3.8	0.0
85°	18.8	22.6	26.4	30.2	45.2	45.2	33.9	22.6	11.3	3.8	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	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)