

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: P529617

Luminaire Tested: **GALN-SA4D-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16816 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

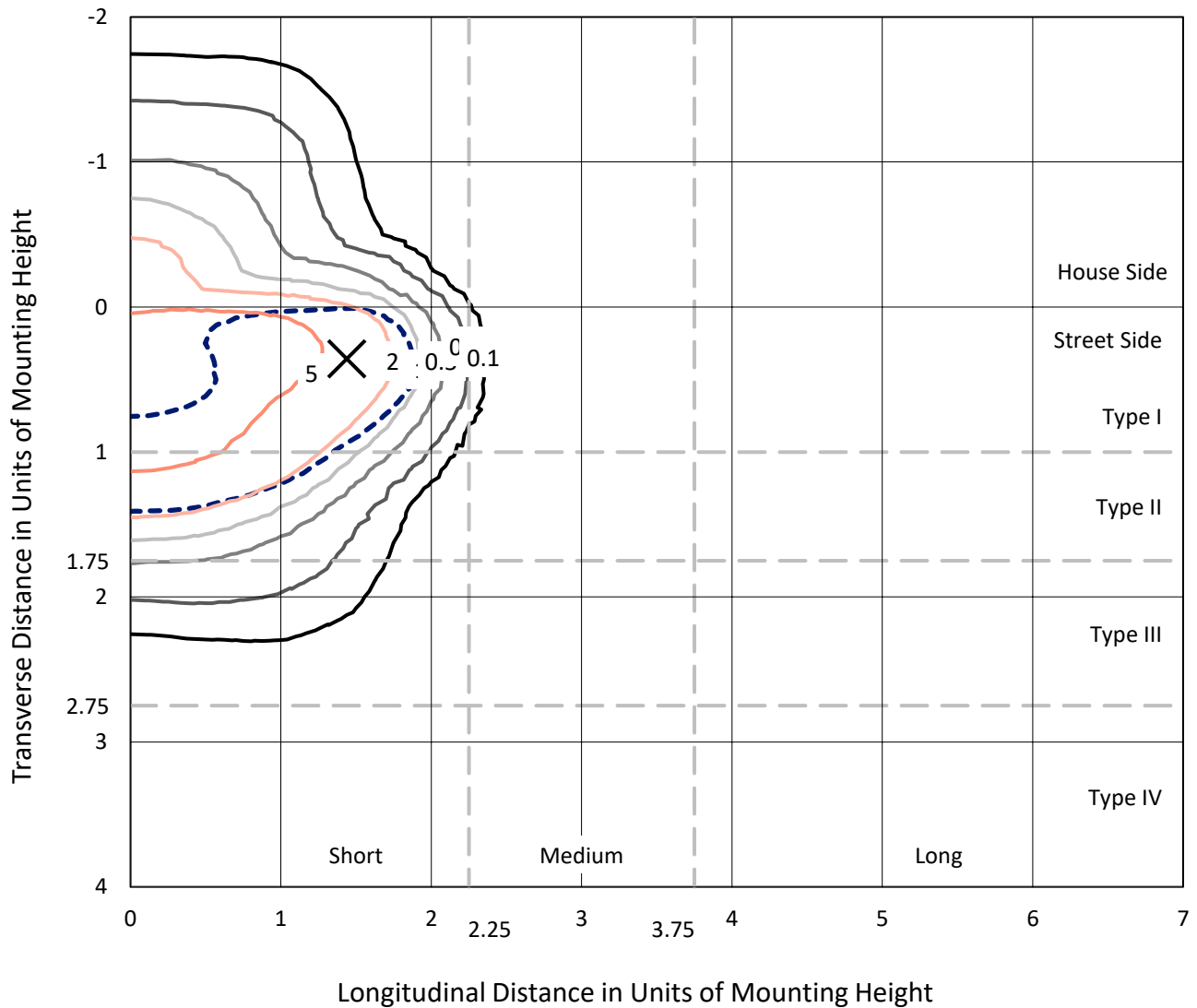
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

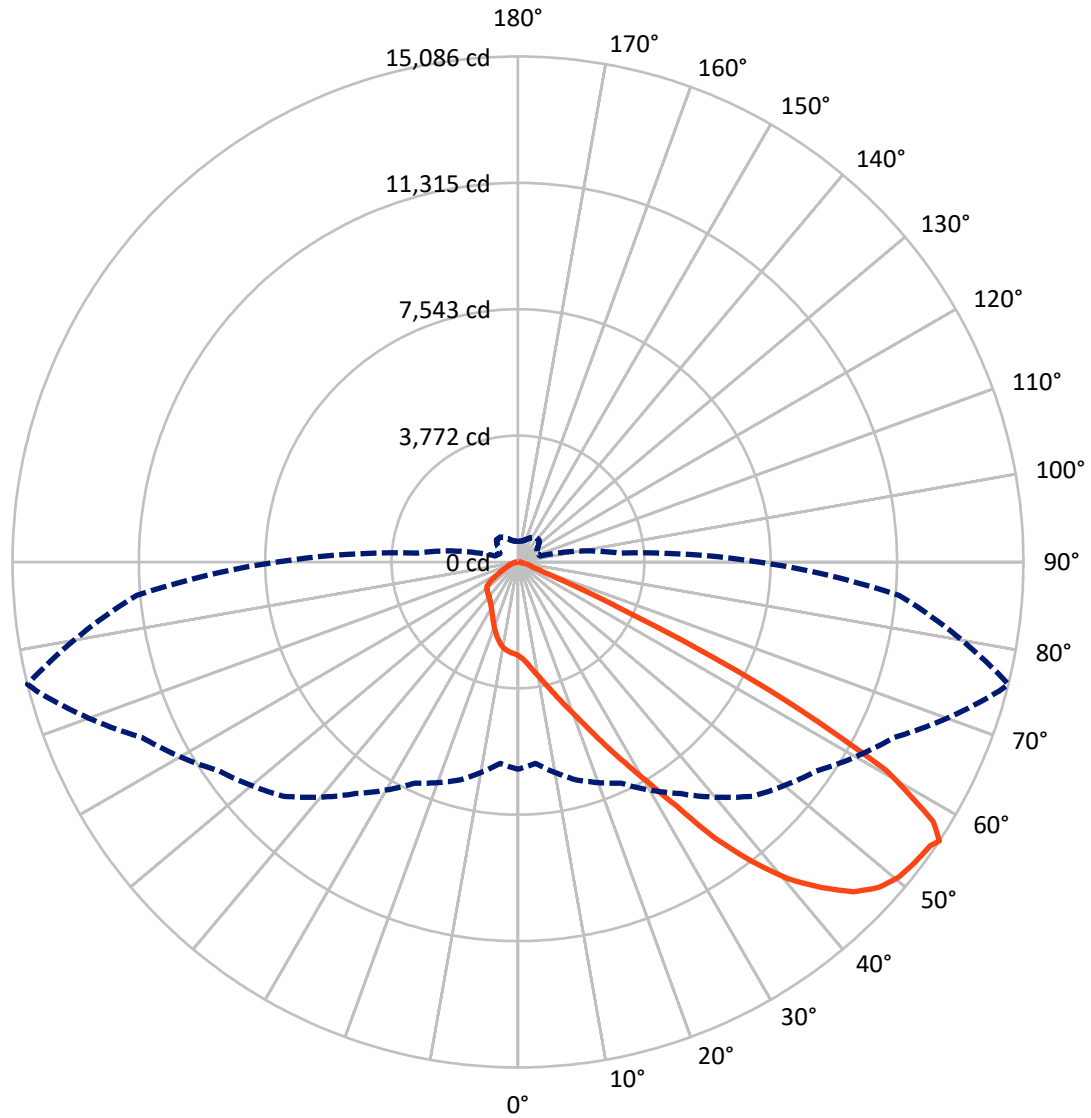
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	2641.7	0.0	2641.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	14174.3	0.0	14174.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	16816.0	0.0	16816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.0	1.7
10°-20°	905.8	5.4
20°-30°	1642.5	9.8
30°-40°	2832.7	16.8
40°-50°	4601.7	27.4
50°-60°	4850.4	28.8
60°-70°	1482.0	8.8
70°-80°	190.0	1.1
80°-90°	28.9	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°	16816.0	100.0
0°-180°	16816.0	100.0

Coefficient of Utilization



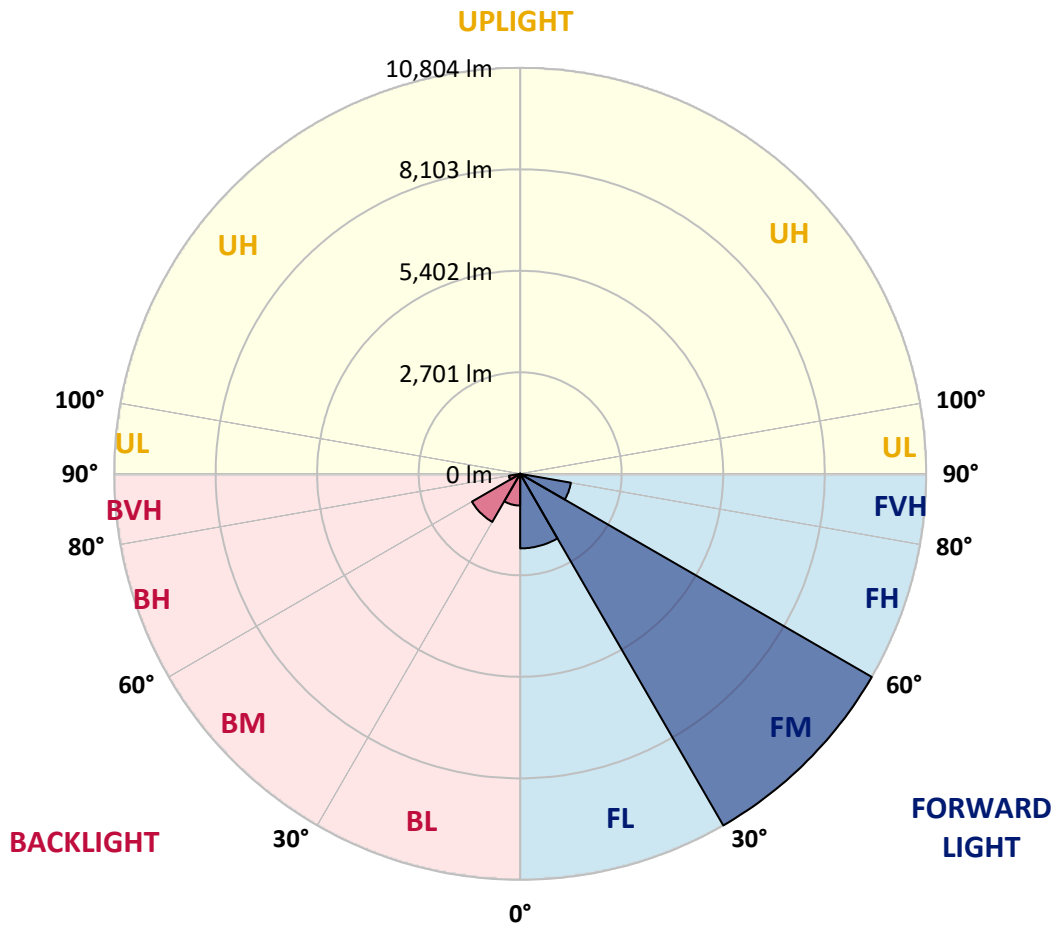
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1985.3	11.8			
FM (30°-60°)	10804.3	64.2			
FH (60°-80°)	1370.6	8.2			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	845.1	5.0	B2/1000		
BM (30°-60°)	1480.5	8.8	B2/2500		
BH (60°-80°)	301.4	1.8	B1/500		G1/500
BVH (80°-90°)	14.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0
2.5°	3223.7	3149.3	3152.4	3146.2	3136.9	3102.8	3000.5	2985.0	2916.8	2898.2	2836.2
5°	3611.2	3546.1	3583.3	3527.5	3474.8	3443.8	3276.4	3198.9	3090.4	3050.1	2963.3
7.5°	3853.0	3822.0	3809.6	3812.7	3763.1	3685.6	3611.2	3440.7	3295.0	3264.0	3081.1
10°	3970.7	3952.1	3970.7	3961.4	3983.1	3992.4	3862.3	3760.0	3546.1	3493.4	3208.2
12.5°	3998.6	4035.8	4051.3	4091.6	4144.3	4234.2	4224.9	4085.4	3800.3	3766.2	3403.5
15°	4066.8	4097.8	4082.3	4147.4	4246.6	4398.5	4479.1	4457.4	4150.5	4088.5	3629.8
17.5°	4128.8	4073.0	4125.7	4255.9	4355.1	4587.6	4782.9	4872.8	4531.8	4460.5	3837.5
20°	4212.5	4197.0	4187.7	4252.8	4429.5	4739.5	5126.9	5291.2	4959.6	4885.2	4135.0
22.5°	4466.7	4469.8	4463.6	4367.5	4494.6	4844.9	5427.6	5833.7	5471.0	5409.0	4472.9
25°	4801.5	4761.2	4730.2	4652.7	4637.2	4941.0	5731.4	6497.0	6084.8	6041.4	4838.7
27.5°	5154.8	5154.8	5061.8	4990.6	4891.4	5179.6	6010.4	7141.8	6825.6	6766.7	5157.9
30°	5539.2	5560.9	5548.5	5396.6	5334.6	5440.0	6295.5	7966.3	7674.9	7600.5	5684.9
32.5°	6106.5	6060.0	6112.7	5985.6	5802.7	5895.7	6745.0	8704.0	8778.4	8673.0	6376.1
35°	6856.6	6828.7	6794.6	6586.9	6369.9	6444.3	7380.4	9612.2	10164.0	10111.3	7073.6
37.5°	7529.2	7513.7	7485.8	7343.2	7092.2	7182.1	8102.7	10557.7	11515.5	11341.9	8059.3
40°	8236.0	8319.7	8229.8	8102.7	7873.3	8071.7	8952.0	11118.7	12653.1	12442.3	8812.5
42.5°	9193.8	9128.7	9169.0	8936.5	8812.5	9029.5	9804.4	11679.8	13536.5	13285.4	9612.2
45°	10213.6	10216.7	10108.2	10033.8	9711.4	9947.0	10328.3	11989.7	14240.1	14044.8	10216.7
47.5°	10867.6	10864.5	10982.3	11100.1	10768.4	10536.0	10684.7	12284.2	14602.8	14512.9	10436.8
50°	10765.3	10796.3	10948.2	11388.4	11562.0	11248.9	11019.5	12197.4	14767.1	14757.8	10625.8
52.5°	9364.3	9466.5	9720.7	10356.2	11230.3	11617.8	11369.8	12358.6	14847.7	14863.2	10907.9
55°	7129.4	7185.2	7668.7	8440.5	9407.7	10734.3	11230.3	12485.7	14909.7	14937.6	11248.9
56°	6183.9	6035.2	6732.6	7281.2	8437.4	9888.1	10876.9	12386.5	14872.5	15086.3	11419.4
57.5°	4668.2	4569.0	5133.1	5818.2	6931.0	8462.2	9779.6	11918.4	14621.4	14618.3	11174.5
60°	2839.3	2740.2	3174.1	3577.1	4200.1	5210.6	6608.6	9491.3	12361.7	12622.1	9048.1
62.5°	1689.3	1751.3	2179.1	2424.0	2625.5	2730.9	3419.0	5641.5	8248.4	8434.3	5613.6
65°	1125.2	1146.9	1469.3	1872.2	1962.1	1562.3	1391.8	2284.5	3577.1	3462.4	2315.5
67.5°	694.3	743.9	985.7	1407.3	1559.2	1140.7	660.2	852.4	985.7	985.7	669.5
70°	421.6	446.4	657.1	957.8	1069.4	734.6	480.5	480.5	474.3	465.0	399.9
72.5°	201.5	217.0	334.8	492.9	502.2	387.5	372.0	406.1	396.8	393.7	331.7
75°	86.8	93.0	117.8	155.0	176.7	164.3	226.3	291.4	300.7	291.4	238.7
77.5°	27.9	31.0	43.4	55.8	58.9	71.3	96.1	120.9	139.5	130.2	117.8
80°	3.1	6.2	12.4	27.9	43.4	55.8	71.3	80.6	89.9	89.9	83.7
82.5°	3.1	3.1	12.4	24.8	40.3	52.7	68.2	77.5	89.9	93.0	86.8
85°	0.0	3.1	9.3	21.7	34.1	34.1	31.0	31.0	21.7	21.7	21.7
87.5°	0.0	0.0	3.1	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2
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°	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0
2.5°	2823.8	2817.6	2734.0	2681.3	2653.4	2597.6	2563.5	2538.7	2520.1	2498.4	2501.5
5°	2861.0	2839.3	2699.9	2603.8	2489.1	2427.1	2374.4	2331.0	2303.1	2296.9	2284.5
7.5°	2966.4	2851.7	2641.0	2467.4	2321.7	2259.7	2213.2	2185.3	2197.7	2169.8	2191.5
10°	3047.0	2876.5	2569.7	2318.6	2172.9	2126.4	2101.6	2123.3	2154.3	2141.9	2126.4
12.5°	3146.2	2901.3	2455.0	2176.0	2039.6	2005.5	2048.9	2089.2	2151.2	2176.0	2145.0
15°	3257.8	2929.2	2309.3	2011.7	1924.9	1952.8	2027.2	2098.5	2160.5	2191.5	2210.1
17.5°	3394.2	2919.9	2166.7	1881.5	1816.4	1897.0	1986.9	2052.0	2145.0	2191.5	2179.1
20°	3521.3	2888.9	2008.6	1751.3	1754.4	1828.8	1903.2	2008.6	2058.2	2120.2	2098.5
22.5°	3642.2	2833.1	1844.3	1661.5	1661.5	1776.1	1813.3	1881.5	1924.9	1955.9	1952.8
25°	3812.7	2727.8	1707.9	1574.7	1611.9	1686.2	1717.2	1738.9	1720.3	1745.1	1748.2
27.5°	3933.5	2619.3	1596.4	1497.2	1565.4	1621.2	1611.9	1599.5	1556.1	1522.0	1543.7
30°	4063.7	2492.2	1500.3	1444.5	1481.7	1531.3	1494.1	1456.9	1388.7	1332.9	1336.0
32.5°	4249.7	2433.3	1416.6	1382.5	1432.1	1438.3	1398.0	1342.2	1274.0	1221.3	1218.2
35°	4596.9	2396.1	1345.3	1342.2	1351.5	1354.6	1314.3	1246.1	1218.2	1174.8	1190.3
37.5°	4944.1	2377.5	1295.7	1283.3	1280.2	1283.3	1236.8	1171.7	1224.4	1221.3	1227.5
40°	5387.3	2461.2	1224.4	1208.9	1212.0	1212.0	1153.1	1134.5	1227.5	1236.8	1239.9
42.5°	5836.8	2566.6	1177.9	1128.3	1140.7	1140.7	1109.7	1088.0	1153.1	1091.1	1081.8
45°	6227.3	2721.6	1128.3	1047.7	1078.7	1094.2	1084.9	1047.7	1007.4	902.0	902.0
47.5°	6354.4	2857.9	1069.4	970.2	995.0	1063.2	1035.3	957.8	886.5	799.7	793.5
50°	6577.6	3006.7	1022.9	880.3	933.0	1016.7	988.8	911.3	830.7	768.7	771.8
52.5°	6807.0	3177.2	936.1	774.9	840.0	979.5	979.5	892.7	768.7	725.3	719.1
55°	7151.1	3171.0	781.1	635.4	750.1	923.7	939.2	799.7	688.1	654.0	654.0
56°	7200.7	3028.4	703.6	595.1	709.8	908.2	911.3	774.9	657.1	619.9	619.9
57.5°	6828.7	2734.0	616.8	545.6	660.2	880.3	883.4	753.2	632.3	579.6	573.4
60°	5254.0	1850.5	514.6	486.7	598.2	793.5	809.0	685.0	554.9	514.6	511.5
62.5°	2966.4	1026.0	452.6	440.2	514.6	675.7	722.2	598.2	471.2	449.5	455.7
65°	1354.6	564.1	381.3	356.5	415.4	520.8	582.7	492.9	387.5	362.7	362.7
67.5°	496.0	384.4	325.5	282.1	291.4	337.9	378.2	319.3	257.3	220.1	229.4
70°	353.4	322.4	285.2	244.9	226.3	220.1	217.0	179.8	127.1	99.2	105.4
72.5°	285.2	266.6	238.7	207.7	176.7	148.8	127.1	93.0	58.9	40.3	37.2
75°	204.6	195.3	173.6	148.8	124.0	105.4	86.8	58.9	31.0	15.5	15.5
77.5°	105.4	105.4	102.3	93.0	77.5	62.0	49.6	34.1	18.6	6.2	6.2
80°	80.6	86.8	89.9	80.6	71.3	55.8	40.3	24.8	12.4	3.1	3.1
82.5°	77.5	89.9	96.1	83.7	71.3	52.7	40.3	24.8	12.4	3.1	3.1
85°	18.6	18.6	27.9	31.0	40.3	43.4	34.1	21.7	9.3	3.1	3.1
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1	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)