

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: P531255

Luminaire Tested: **GALN-SA6C-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531255
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-SA6C-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA 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: 22909 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

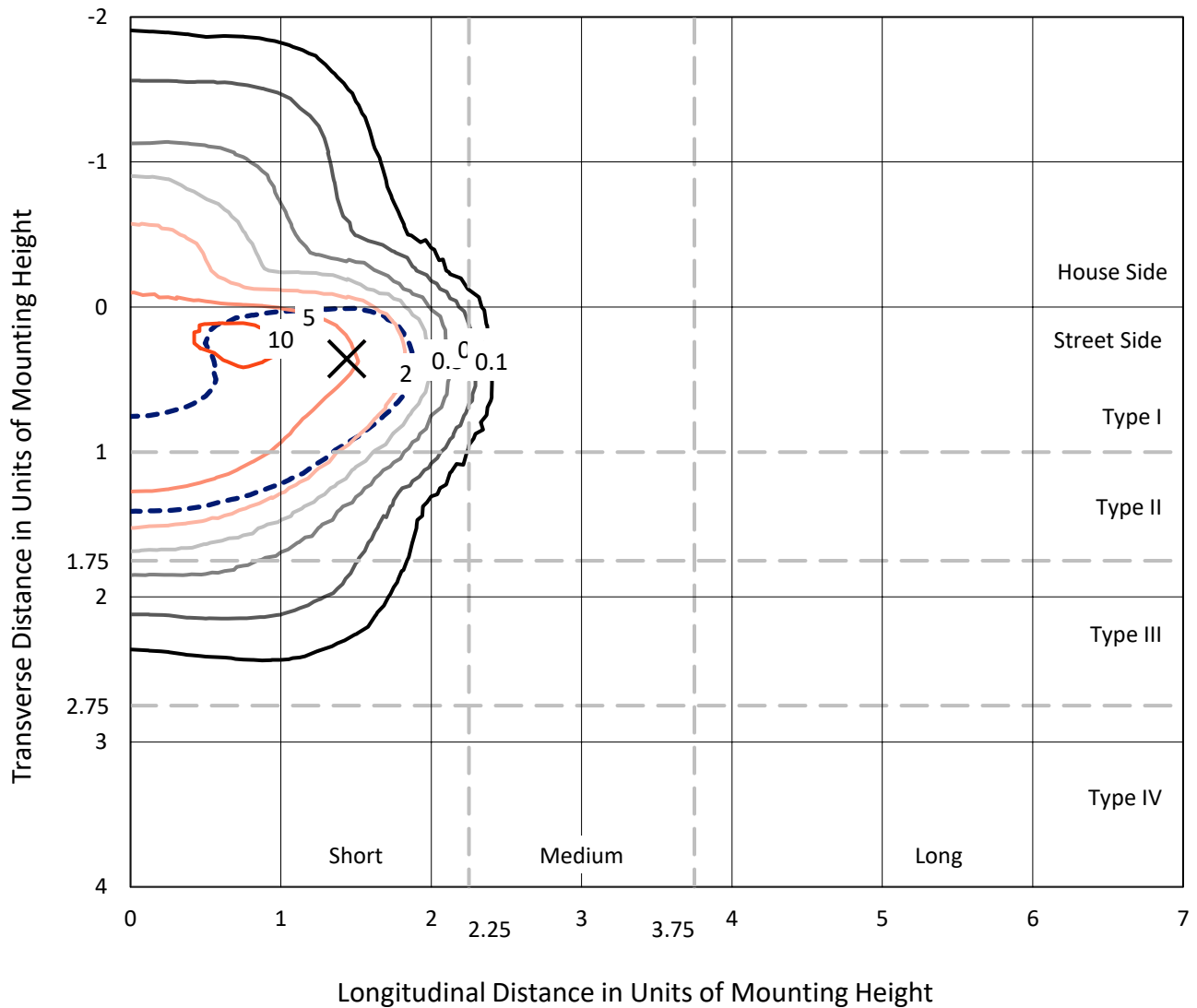
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

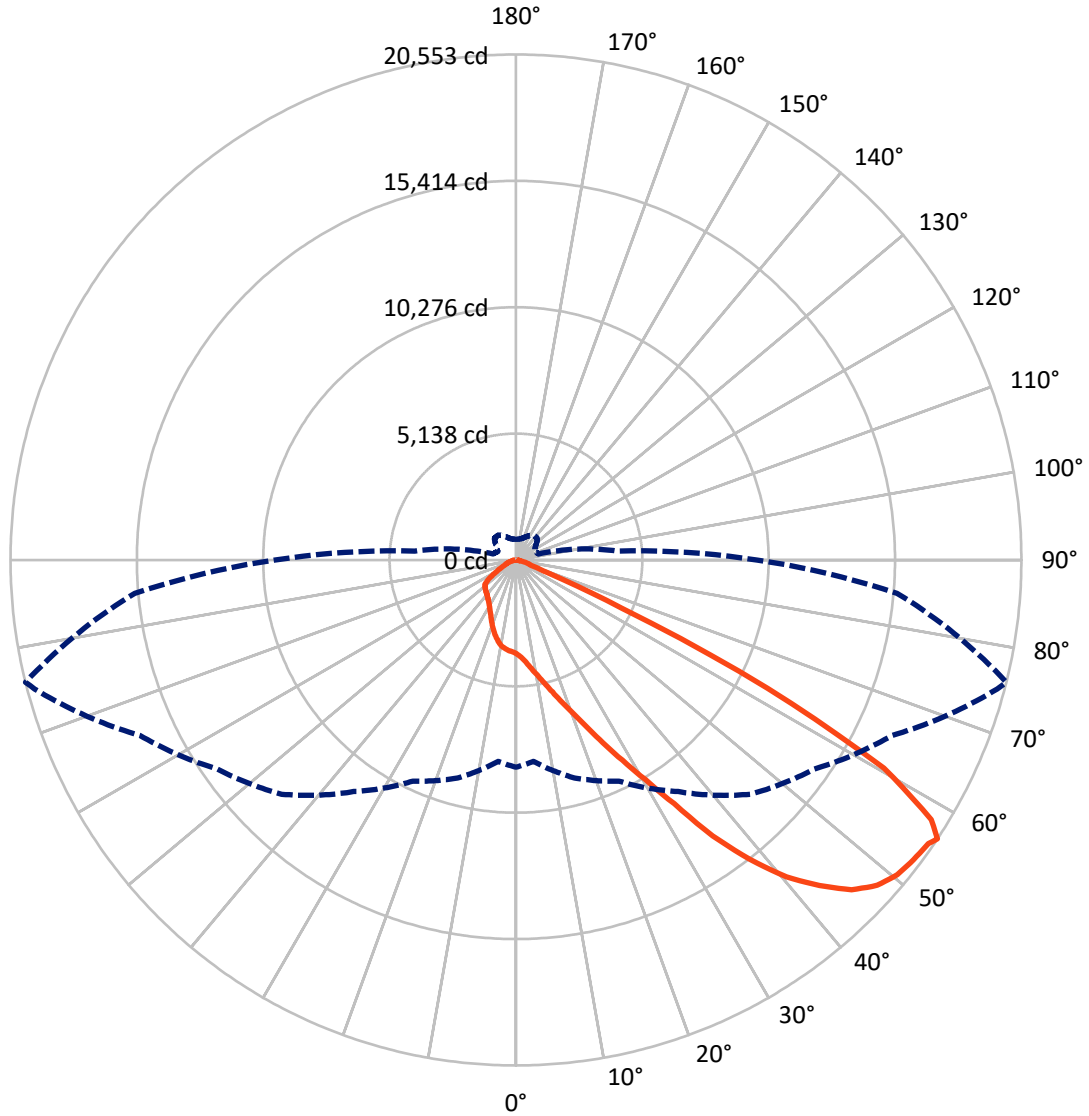
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	3598.9	0.0	3598.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	19310.1	0.0	19310.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	22909.0	0.0	22909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.1	1.7
10°-20°	1234.1	5.4
20°-30°	2237.7	9.8
30°-40°	3859.0	16.8
40°-50°	6269.1	27.4
50°-60°	6607.9	28.8
60°-70°	2019.0	8.8
70°-80°	258.8	1.1
80°-90°	39.3	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°	22909.0	100.0
0°-180°	22909.0	100.0

Coefficient of Utilization

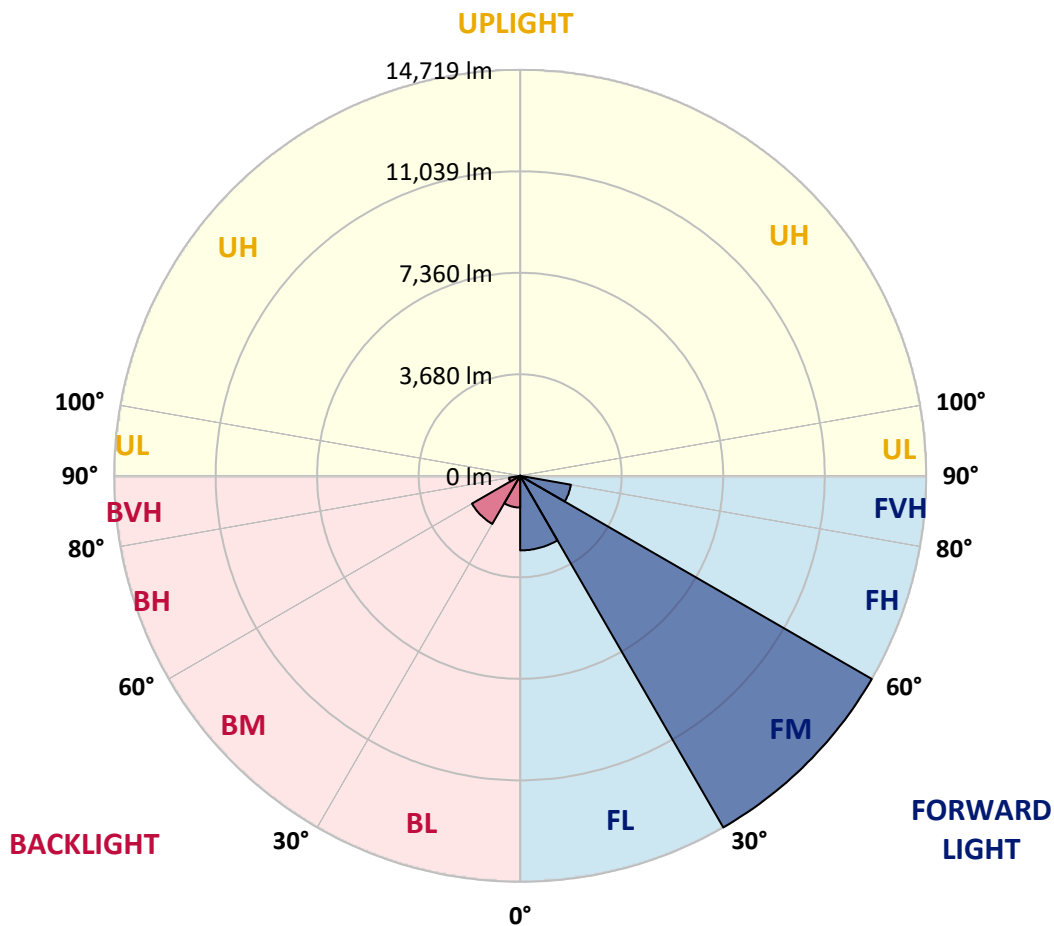


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2704.6	11.8			
FM (30°-60°)	14719.0	64.2			
FH (60°-80°)	1867.2	8.2			G2/5000
FVH (80°-90°)	19.3	0.1			G1/100
BL (0°-30°)	1151.3	5.0	B3/2500		
BM (30°-60°)	2017.0	8.8	B2/2500		
BH (60°-80°)	410.6	1.8	B1/500		G1/500
BVH (80°-90°)	20.1	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2
2.5°	4391.8	4290.4	4294.6	4286.2	4273.5	4227.1	4087.7	4066.6	3973.7	3948.4	3863.9
5°	4919.6	4830.9	4881.6	4805.6	4733.8	4691.6	4463.6	4358.0	4210.2	4155.3	4037.0
7.5°	5249.0	5206.8	5189.9	5194.1	5126.5	5021.0	4919.6	4687.4	4488.9	4446.7	4197.5
10°	5409.5	5384.1	5409.5	5396.8	5426.4	5439.0	5261.7	5122.3	4830.9	4759.2	4370.7
12.5°	5447.5	5498.2	5519.3	5574.2	5646.0	5768.4	5755.8	5565.7	5177.2	5130.8	4636.7
15°	5540.4	5582.6	5561.5	5650.2	5785.3	5992.2	6102.0	6072.5	5654.4	5569.9	4945.0
17.5°	5624.8	5548.8	5620.6	5798.0	5933.1	6249.8	6515.9	6638.3	6173.8	6076.7	5227.9
20°	5738.9	5717.7	5705.1	5793.8	6034.5	6456.7	6984.6	7208.4	6756.6	6655.2	5633.3
22.5°	6085.1	6089.4	6080.9	5950.0	6123.1	6600.3	7394.2	7947.4	7453.3	7368.9	6093.6
25°	6541.2	6486.3	6444.1	6338.5	6317.4	6731.2	7808.1	8851.1	8289.5	8230.3	6591.9
27.5°	7022.6	7022.6	6895.9	6798.8	6663.7	7056.4	8188.1	9729.5	9298.7	9218.5	7026.8
30°	7546.2	7575.8	7558.9	7352.0	7267.5	7411.1	8576.6	10852.7	10455.8	10354.4	7744.7
32.5°	8319.0	8255.7	8327.5	8154.3	7905.2	8031.9	9188.9	11857.8	11959.1	11815.5	8686.4
35°	9341.0	9302.9	9256.5	8973.6	8678.0	8779.3	10054.6	13095.1	13846.7	13775.0	9636.6
37.5°	10257.3	10236.2	10198.2	10003.9	9661.9	9784.4	11038.5	14383.0	15687.9	15451.4	10979.4
40°	11220.1	11334.1	11211.7	11038.5	10726.1	10996.3	12195.6	15147.4	17237.7	16950.5	12005.6
42.5°	12525.0	12436.3	12491.2	12174.5	12005.6	12301.2	13356.9	15911.7	18441.2	18099.2	13095.1
45°	13914.3	13918.5	13770.7	13669.4	13230.2	13551.1	14070.6	16334.0	19399.8	19133.8	13918.5
47.5°	14805.3	14801.1	14961.6	15122.0	14670.2	14353.5	14556.2	16735.2	19893.9	19771.4	14218.4
50°	14666.0	14708.2	14915.1	15514.8	15751.2	15324.7	15012.2	16616.9	20117.7	20105.0	14475.9
52.5°	12757.2	12896.6	13242.9	14108.6	15299.4	15827.3	15489.4	16836.5	20227.5	20248.6	14860.2
55°	9712.6	9788.6	10447.3	11498.8	12816.4	14623.7	15299.4	17009.7	20311.9	20349.9	15324.7
56°	8424.6	8221.9	9172.0	9919.5	11494.6	13470.9	14818.0	16874.5	20261.3	20552.6	15557.0
57.5°	6359.6	6224.5	6993.0	7926.3	9442.3	11528.4	13323.1	16236.9	19919.2	19915.0	15223.4
60°	3868.1	3733.0	4324.2	4873.2	5722.0	7098.6	9003.1	12930.4	16840.7	17195.5	12326.5
62.5°	2301.5	2385.9	2968.7	3302.3	3576.8	3720.3	4657.8	7685.6	11237.0	11490.4	7647.6
65°	1532.9	1562.5	2001.6	2550.6	2673.1	2128.3	1896.1	3112.2	4873.2	4716.9	3154.5
67.5°	945.9	1013.5	1342.9	1917.2	2124.1	1554.0	899.5	1161.3	1342.9	1342.9	912.1
70°	574.3	608.1	895.2	1304.9	1456.9	1000.8	654.5	654.5	646.1	633.4	544.7
72.5°	274.5	295.6	456.1	671.4	684.1	527.9	506.7	553.2	540.5	536.3	451.8
75°	118.2	126.7	160.5	211.1	240.7	223.8	308.3	396.9	409.6	396.9	325.2
77.5°	38.0	42.2	59.1	76.0	80.2	97.1	130.9	164.7	190.0	177.4	160.5
80°	4.2	8.4	16.9	38.0	59.1	76.0	97.1	109.8	122.5	122.5	114.0
82.5°	4.2	4.2	16.9	33.8	54.9	71.8	92.9	105.6	122.5	126.7	118.2
85°	0.0	4.2	12.7	29.6	46.5	46.5	42.2	42.2	29.6	29.6	29.6
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2
2.5°	3847.0	3838.6	3724.6	3652.8	3614.8	3538.8	3492.3	3458.5	3433.2	3403.6	3407.8
5°	3897.7	3868.1	3678.1	3547.2	3391.0	3306.5	3234.7	3175.6	3137.6	3129.1	3112.2
7.5°	4041.3	3885.0	3597.9	3361.4	3162.9	3078.5	3015.1	2977.1	2994.0	2956.0	2985.6
10°	4151.1	3918.8	3500.7	3158.7	2960.2	2896.9	2863.1	2892.7	2934.9	2918.0	2896.9
12.5°	4286.2	3952.6	3344.5	2964.4	2778.6	2732.2	2791.3	2846.2	2930.7	2964.4	2922.2
15°	4438.2	3990.6	3146.0	2740.6	2622.4	2660.4	2761.7	2858.9	2943.3	2985.6	3010.9
17.5°	4624.0	3977.9	2951.8	2563.3	2474.6	2584.4	2706.8	2795.5	2922.2	2985.6	2968.7
20°	4797.2	3935.7	2736.4	2385.9	2390.1	2491.5	2592.8	2736.4	2804.0	2888.4	2858.9
22.5°	4961.9	3859.7	2512.6	2263.4	2263.4	2419.7	2470.4	2563.3	2622.4	2664.6	2660.4
25°	5194.1	3716.1	2326.8	2145.2	2195.9	2297.2	2339.5	2369.0	2343.7	2377.5	2381.7
27.5°	5358.8	3568.3	2174.8	2039.6	2132.5	2208.6	2195.9	2179.0	2119.9	2073.4	2103.0
30°	5536.2	3395.2	2043.9	1967.9	2018.5	2086.1	2035.4	1984.7	1891.8	1815.8	1820.1
32.5°	5789.5	3314.9	1929.8	1883.4	1951.0	1959.4	1904.5	1828.5	1735.6	1663.8	1659.6
35°	6262.5	3264.3	1832.7	1828.5	1841.2	1845.4	1790.5	1697.6	1659.6	1600.5	1621.6
37.5°	6735.5	3238.9	1765.2	1748.3	1744.0	1748.3	1684.9	1596.2	1668.0	1663.8	1672.3
40°	7339.3	3352.9	1668.0	1646.9	1651.1	1651.1	1570.9	1545.6	1672.3	1684.9	1689.1
42.5°	7951.6	3496.5	1604.7	1537.1	1554.0	1554.0	1511.8	1482.2	1570.9	1486.4	1473.8
45°	8483.7	3707.7	1537.1	1427.3	1469.6	1490.7	1478.0	1427.3	1372.4	1228.9	1228.9
47.5°	8656.9	3893.5	1456.9	1321.8	1355.5	1448.4	1410.4	1304.9	1207.7	1089.5	1081.1
50°	8960.9	4096.2	1393.5	1199.3	1271.1	1385.1	1347.1	1241.5	1131.7	1047.3	1051.5
52.5°	9273.4	4328.4	1275.3	1055.7	1144.4	1334.4	1334.4	1216.2	1047.3	988.1	979.7
55°	9742.1	4320.0	1064.2	865.7	1021.9	1258.4	1279.5	1089.5	937.5	891.0	891.0
56°	9809.7	4125.7	958.6	810.8	967.0	1237.3	1241.5	1055.7	895.2	844.6	844.6
57.5°	9302.9	3724.6	840.3	743.2	899.5	1199.3	1203.5	1026.2	861.5	789.7	781.2
60°	7157.7	2521.0	701.0	663.0	815.0	1081.1	1102.2	933.3	755.9	701.0	696.8
62.5°	4041.3	1397.8	616.5	599.6	701.0	920.6	983.9	815.0	641.9	612.3	620.8
65°	1845.4	768.6	519.4	485.6	565.9	709.4	793.9	671.4	527.9	494.1	494.1
67.5°	675.7	523.6	443.4	384.3	396.9	460.3	515.2	435.0	350.5	299.8	312.5
70°	481.4	439.2	388.5	333.6	308.3	299.8	295.6	244.9	173.1	135.1	143.6
72.5°	388.5	363.2	325.2	282.9	240.7	202.7	173.1	126.7	80.2	54.9	50.7
75°	278.7	266.0	236.5	202.7	168.9	143.6	118.2	80.2	42.2	21.1	21.1
77.5°	143.6	143.6	139.4	126.7	105.6	84.5	67.6	46.5	25.3	8.4	8.4
80°	109.8	118.2	122.5	109.8	97.1	76.0	54.9	33.8	16.9	4.2	4.2
82.5°	105.6	122.5	130.9	114.0	97.1	71.8	54.9	33.8	16.9	4.2	4.2
85°	25.3	25.3	38.0	42.2	54.9	59.1	46.5	29.6	12.7	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	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)