

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: P532763

Luminaire Tested: **GALN-SA8A-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532763
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-SA8A-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 16013 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

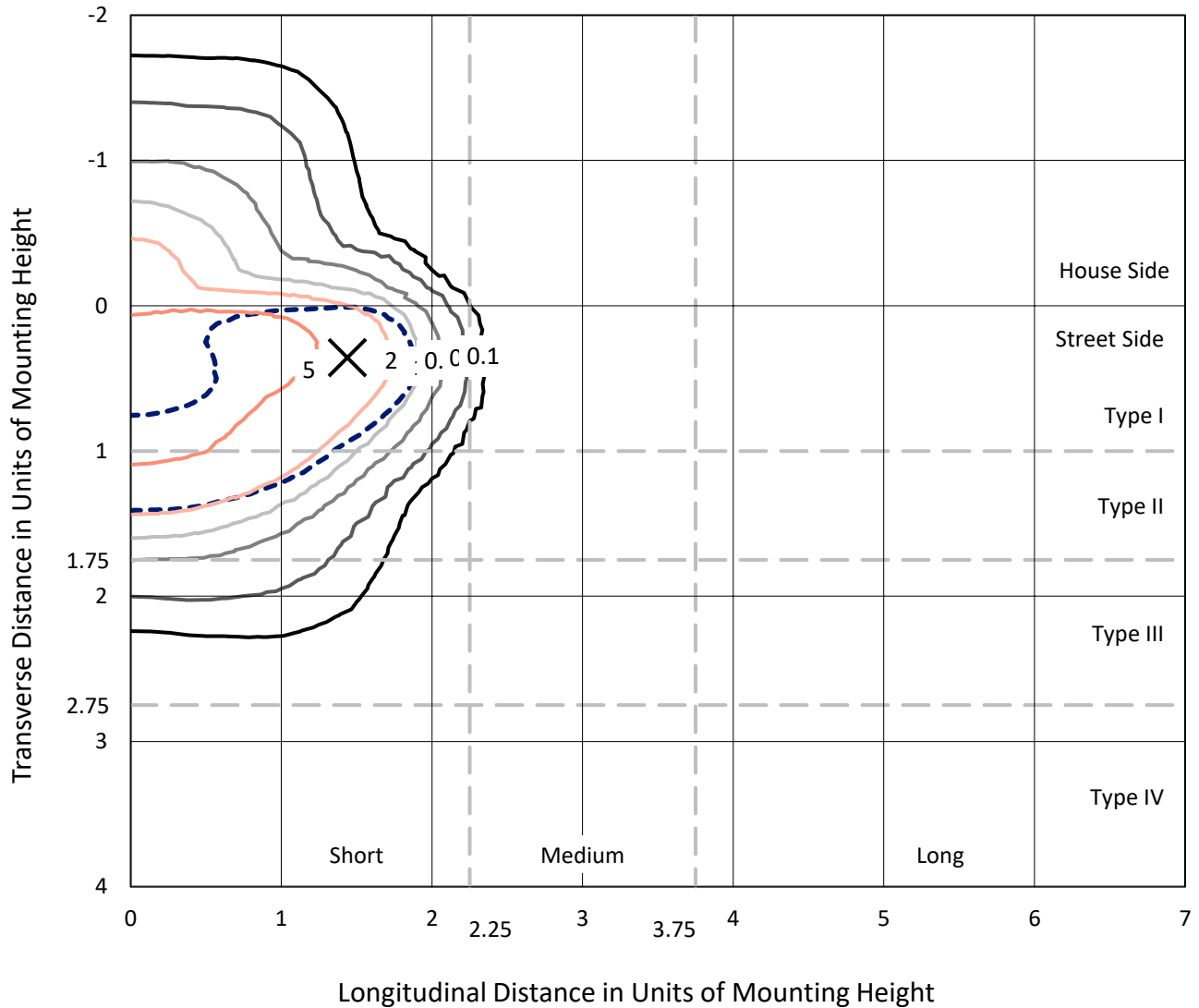
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

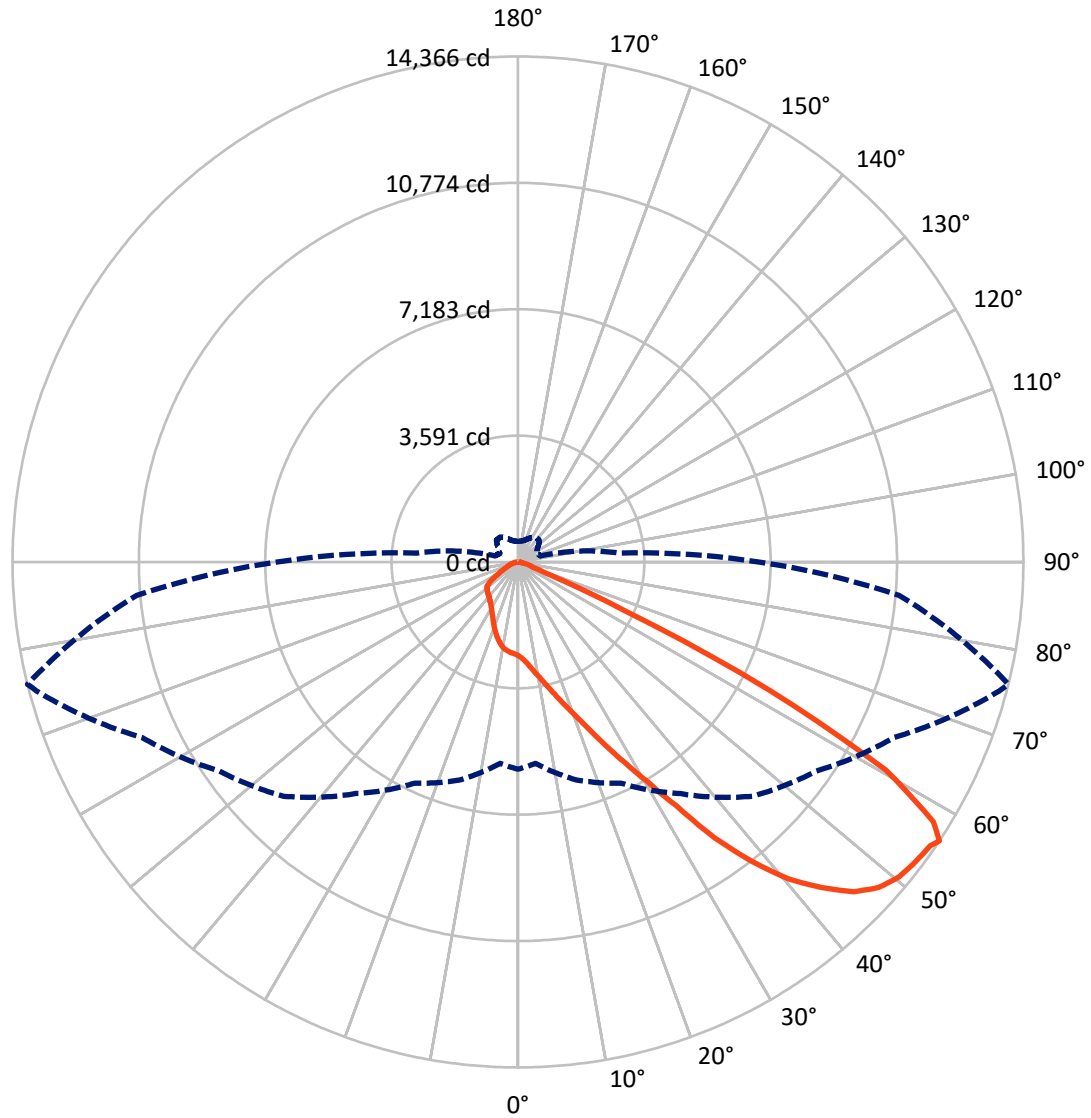
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	2515.6	0.0	2515.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	13497.4	0.0	13497.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	16013.0	0.0	16013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	1.7
10°-20°	862.6	5.4
20°-30°	1564.1	9.8
30°-40°	2697.4	16.8
40°-50°	4382.0	27.4
50°-60°	4618.8	28.8
60°-70°	1411.2	8.8
70°-80°	180.9	1.1
80°-90°	27.5	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°	16013.0	100.0
0°-180°	16013.0	100.0

Coefficient of Utilization

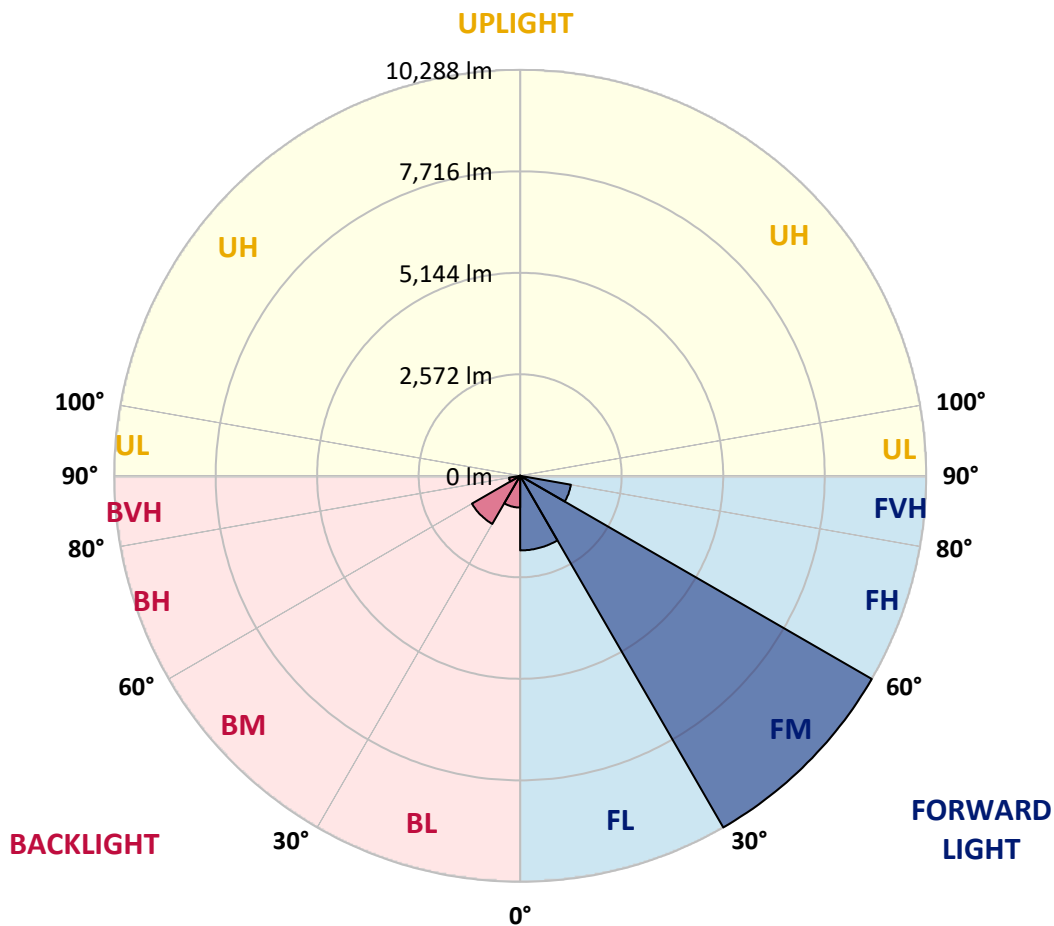


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1890.5	11.8			
FM (30°-60°)	10288.3	64.2			
FH (60°-80°)	1305.2	8.2			G1/1800
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	804.7	5.0	B2/1000		
BM (30°-60°)	1409.8	8.8	B2/2500		
BH (60°-80°)	287.0	1.8	B1/500		G1/500
BVH (80°-90°)	14.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4
2.5°	3069.8	2998.9	3001.9	2996.0	2987.1	2954.7	2857.2	2842.5	2777.6	2759.8	2700.8
5°	3438.7	3376.7	3412.2	3359.0	3308.9	3279.3	3120.0	3046.2	2942.8	2904.5	2821.8
7.5°	3669.0	3639.4	3627.6	3630.6	3583.4	3509.6	3438.7	3276.4	3137.7	3108.1	2934.0
10°	3781.1	3763.4	3781.1	3772.3	3792.9	3801.8	3677.8	3580.4	3376.7	3326.6	3055.0
12.5°	3807.7	3843.1	3857.9	3896.2	3946.4	4032.0	4023.2	3890.3	3618.8	3586.3	3241.0
15°	3872.6	3902.2	3887.4	3949.4	4043.8	4188.5	4265.2	4244.5	3952.3	3893.3	3456.4
17.5°	3931.7	3878.5	3928.7	4052.7	4147.1	4368.5	4554.5	4640.1	4315.4	4247.5	3654.2
20°	4011.4	3996.6	3987.8	4049.7	4218.0	4513.2	4882.1	5038.6	4722.7	4651.9	3937.6
22.5°	4253.4	4256.4	4250.5	4158.9	4280.0	4613.5	5168.4	5555.1	5209.8	5150.7	4259.3
25°	4572.2	4533.8	4504.3	4430.5	4415.7	4705.0	5457.7	6186.8	5794.2	5752.9	4607.6
27.5°	4908.7	4908.7	4820.1	4752.2	4657.8	4932.3	5723.4	6800.7	6499.7	6443.6	4911.6
30°	5274.7	5295.4	5283.5	5138.9	5079.9	5180.2	5994.9	7585.9	7308.4	7237.6	5413.4
32.5°	5814.9	5770.6	5820.8	5699.7	5525.6	5614.1	6422.9	8288.4	8359.2	8258.9	6071.7
35°	6529.2	6502.6	6470.1	6272.4	6065.7	6136.6	7028.0	9153.2	9678.6	9628.5	6735.8
37.5°	7169.7	7154.9	7128.4	6992.6	6753.5	6839.1	7715.8	10053.5	10965.6	10800.3	7674.4
40°	7842.7	7922.4	7836.8	7715.8	7497.3	7686.2	8524.5	10587.8	12048.9	11848.1	8391.7
42.5°	8754.8	8692.8	8731.1	8509.8	8391.7	8598.3	9336.2	11122.0	12890.1	12651.0	9153.2
45°	9725.9	9728.8	9625.5	9554.7	9247.7	9472.0	9835.1	11417.2	13560.1	13374.2	9728.8
47.5°	10348.7	10345.7	10457.9	10570.0	10254.2	10032.8	10174.5	11697.6	13905.5	13819.9	9938.4
50°	10251.3	10280.8	10425.4	10844.6	11009.9	10711.7	10493.3	11615.0	14061.9	14053.1	10118.4
52.5°	8917.1	9014.5	9256.5	9861.6	10694.0	11063.0	10826.8	11768.4	14138.7	14153.4	10387.0
55°	6788.9	6842.0	7302.5	8037.5	8958.4	10221.7	10694.0	11889.5	14197.7	14224.3	10711.7
56°	5888.6	5747.0	6411.1	6933.6	8034.5	9415.9	10357.5	11795.0	14162.3	14365.9	10874.1
57.5°	4445.3	4350.8	4888.0	5540.3	6600.0	8058.1	9312.6	11349.3	13923.2	13920.2	10640.9
60°	2703.8	2609.3	3022.5	3406.3	3999.6	4961.8	6293.0	9038.1	11771.4	12019.3	8616.0
62.5°	1608.7	1667.7	2075.0	2308.2	2500.1	2600.5	3255.7	5372.1	7854.5	8031.6	5345.5
65°	1071.5	1092.1	1399.1	1782.8	1868.4	1487.7	1325.3	2175.4	3406.3	3297.1	2204.9
67.5°	661.2	708.4	938.6	1340.1	1484.7	1086.2	628.7	811.7	938.6	938.6	637.6
70°	401.4	425.0	625.8	912.1	1018.3	699.6	457.5	457.5	451.6	442.8	380.8
72.5°	191.9	206.6	318.8	469.3	478.2	369.0	354.2	386.7	377.8	374.9	315.8
75°	82.6	88.6	112.2	147.6	168.2	156.4	215.5	277.5	286.3	277.5	227.3
77.5°	26.6	29.5	41.3	53.1	56.1	67.9	91.5	115.1	132.8	124.0	112.2
80°	3.0	5.9	11.8	26.6	41.3	53.1	67.9	76.7	85.6	85.6	79.7
82.5°	3.0	3.0	11.8	23.6	38.4	50.2	64.9	73.8	85.6	88.6	82.6
85°	0.0	3.0	8.9	20.7	32.5	32.5	29.5	29.5	20.7	20.7	20.7
87.5°	0.0	0.0	3.0	3.0	3.0	5.9	5.9	5.9	5.9	5.9	5.9
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°	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4	2665.4
2.5°	2689.0	2683.1	2603.4	2553.2	2526.7	2473.5	2441.1	2417.4	2399.7	2379.1	2382.0
5°	2724.4	2703.8	2570.9	2479.4	2370.2	2311.2	2261.0	2219.7	2193.1	2187.2	2175.4
7.5°	2824.8	2715.6	2514.9	2349.6	2210.8	2151.8	2107.5	2081.0	2092.8	2066.2	2086.9
10°	2901.5	2739.2	2447.0	2207.9	2069.1	2024.9	2001.3	2021.9	2051.4	2039.6	2024.9
12.5°	2996.0	2762.8	2337.7	2072.1	1942.2	1909.8	1951.1	1989.4	2048.5	2072.1	2042.6
15°	3102.2	2789.4	2199.0	1915.7	1833.0	1859.6	1930.4	1998.3	2057.3	2086.9	2104.6
17.5°	3232.1	2780.5	2063.2	1791.7	1729.7	1806.4	1892.0	1954.0	2042.6	2086.9	2075.0
20°	3353.1	2751.0	1912.7	1667.7	1670.7	1741.5	1812.3	1912.7	1959.9	2019.0	1998.3
22.5°	3468.3	2697.9	1756.3	1582.1	1582.1	1691.3	1726.7	1791.7	1833.0	1862.5	1859.6
25°	3630.6	2597.5	1626.4	1499.5	1534.9	1605.7	1635.2	1655.9	1638.2	1661.8	1664.8
27.5°	3745.7	2494.2	1520.1	1425.7	1490.6	1543.7	1534.9	1523.1	1481.8	1449.3	1469.9
30°	3869.7	2373.2	1428.6	1375.5	1410.9	1458.1	1422.7	1387.3	1322.4	1269.2	1272.2
32.5°	4046.8	2317.1	1348.9	1316.5	1363.7	1369.6	1331.2	1278.1	1213.1	1163.0	1160.0
35°	4377.4	2281.7	1281.0	1278.1	1286.9	1289.9	1251.5	1186.6	1160.0	1118.7	1133.5
37.5°	4708.0	2264.0	1233.8	1222.0	1219.1	1222.0	1177.7	1115.7	1165.9	1163.0	1168.9
40°	5130.1	2343.7	1165.9	1151.2	1154.1	1154.1	1098.0	1080.3	1168.9	1177.7	1180.7
42.5°	5558.1	2444.0	1121.6	1074.4	1086.2	1086.2	1056.7	1036.0	1098.0	1039.0	1030.1
45°	5930.0	2591.6	1074.4	997.7	1027.2	1042.0	1033.1	997.7	959.3	858.9	858.9
47.5°	6051.0	2721.5	1018.3	923.9	947.5	1012.4	985.9	912.1	844.2	761.5	755.6
50°	6263.5	2863.2	974.1	838.3	888.5	968.2	941.6	867.8	791.1	732.0	735.0
52.5°	6481.9	3025.5	891.4	737.9	799.9	932.7	932.7	850.1	732.0	690.7	684.8
55°	6809.6	3019.6	743.8	605.1	714.3	879.6	894.4	761.5	655.3	622.8	622.8
56°	6856.8	2883.8	670.0	566.7	675.9	864.8	867.8	737.9	625.8	590.3	590.3
57.5°	6502.6	2603.4	587.4	519.5	628.7	838.3	841.2	717.3	602.1	552.0	546.1
60°	5003.1	1762.2	490.0	463.4	569.7	755.6	770.4	652.3	528.4	490.0	487.0
62.5°	2824.8	977.0	430.9	419.1	490.0	643.5	687.7	569.7	448.7	428.0	433.9
65°	1289.9	537.2	363.1	339.4	395.5	495.9	554.9	469.3	369.0	345.3	345.3
67.5°	472.3	366.0	309.9	268.6	277.5	321.7	360.1	304.0	245.0	209.6	218.4
70°	336.5	307.0	271.6	233.2	215.5	209.6	206.6	171.2	121.0	94.5	100.4
72.5°	271.6	253.8	227.3	197.8	168.2	141.7	121.0	88.6	56.1	38.4	35.4
75°	194.8	186.0	165.3	141.7	118.1	100.4	82.6	56.1	29.5	14.8	14.8
77.5°	100.4	100.4	97.4	88.6	73.8	59.0	47.2	32.5	17.7	5.9	5.9
80°	76.7	82.6	85.6	76.7	67.9	53.1	38.4	23.6	11.8	3.0	3.0
82.5°	73.8	85.6	91.5	79.7	67.9	50.2	38.4	23.6	11.8	3.0	3.0
85°	17.7	17.7	26.6	29.5	38.4	41.3	32.5	20.7	8.9	3.0	3.0
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	3.0	3.0	3.0	3.0	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)