

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: P530085

Luminaire Tested: **GALN-SA5B-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530085
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-SA5B-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA 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: 15659 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

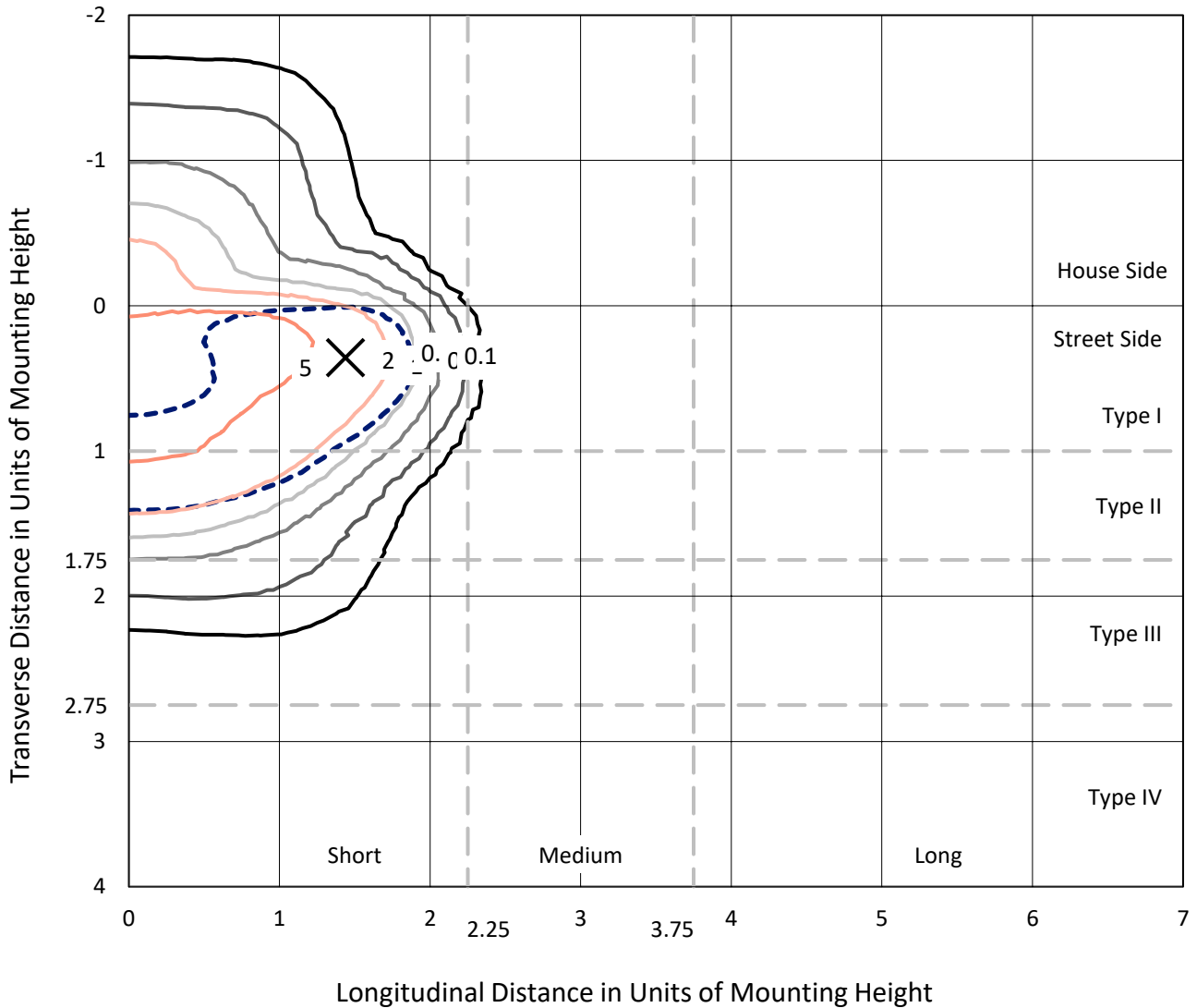
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

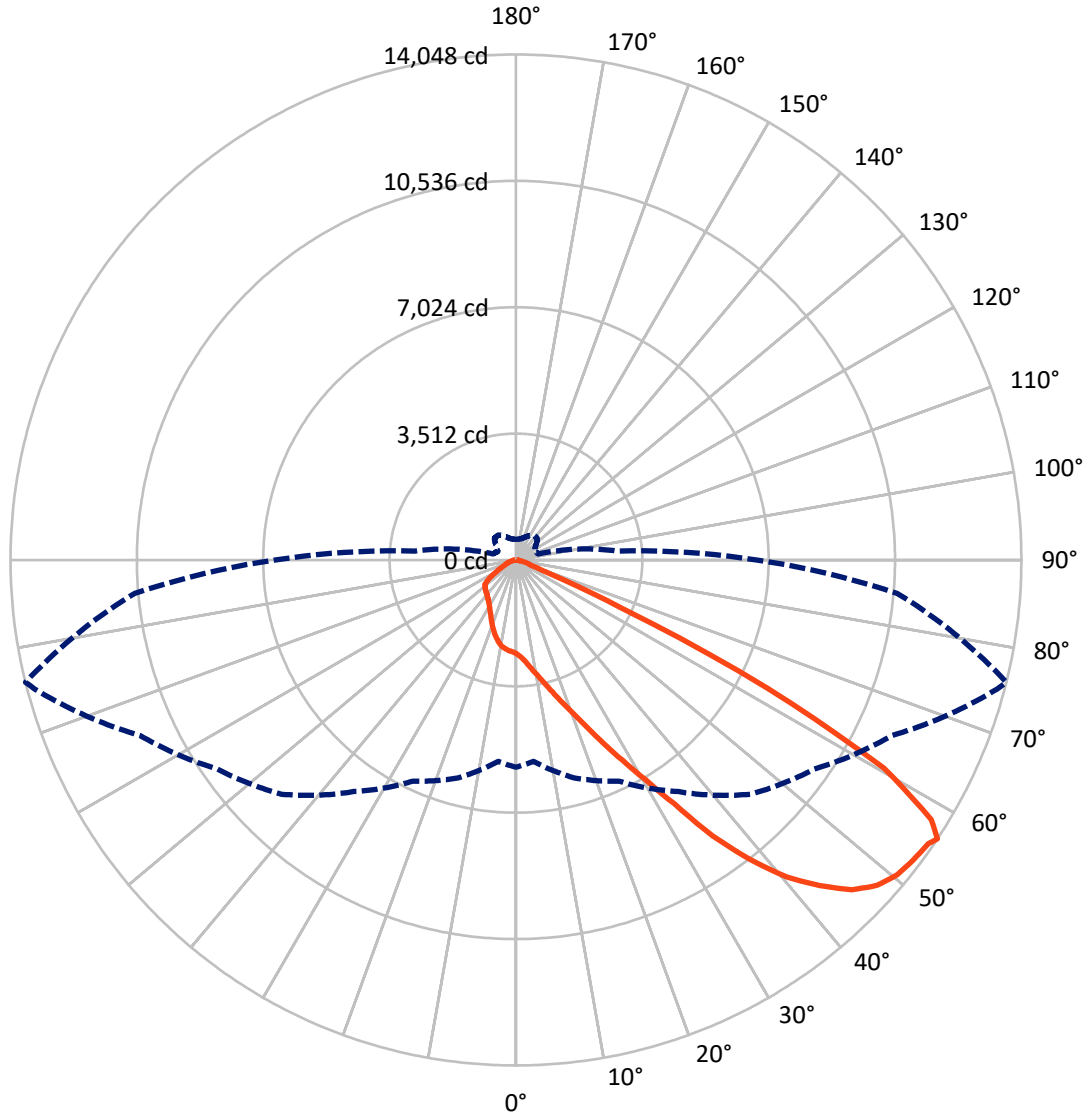
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2459.9	0.0	2459.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	13199.1	0.0	13199.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	15659.0	0.0	15659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	1.7
10°-20°	843.5	5.4
20°-30°	1529.5	9.8
30°-40°	2637.8	16.8
40°-50°	4285.1	27.4
50°-60°	4516.7	28.8
60°-70°	1380.0	8.8
70°-80°	176.9	1.1
80°-90°	26.9	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°	15659.0	100.0
0°-180°	15659.0	100.0

Coefficient of Utilization

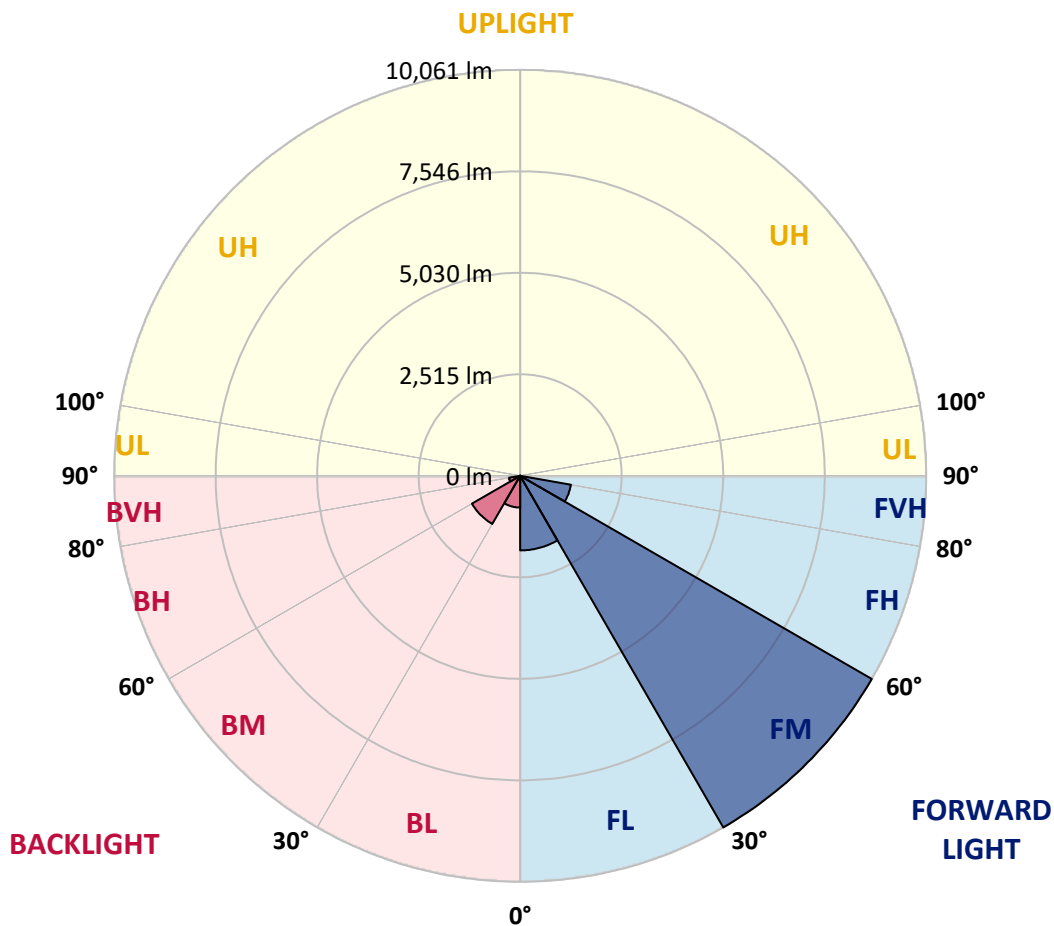


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1848.7	11.8			
FM (30°-60°)	10060.9	64.2			
FH (60°-80°)	1276.3	8.2			G1/1800
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	786.9	5.0	B2/1000		
BM (30°-60°)	1378.7	8.8	B2/2500		
BH (60°-80°)	280.6	1.8	B1/500		G1/500
BVH (80°-90°)	13.7	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°	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5
2.5°	3001.9	2932.6	2935.5	2929.7	2921.1	2889.3	2794.1	2779.7	2716.1	2698.8	2641.1
5°	3362.7	3302.1	3336.7	3284.8	3235.7	3206.8	3051.0	2978.8	2877.8	2840.3	2759.4
7.5°	3587.9	3559.0	3547.4	3550.3	3504.1	3432.0	3362.7	3204.0	3068.3	3039.4	2869.1
10°	3697.5	3680.2	3697.5	3688.9	3709.1	3717.7	3596.5	3501.3	3302.1	3253.0	2987.5
12.5°	3723.5	3758.2	3772.6	3810.1	3859.2	3942.9	3934.2	3804.3	3538.8	3507.0	3169.3
15°	3787.0	3815.9	3801.5	3862.1	3954.4	4095.9	4170.9	4150.7	3865.0	3807.2	3380.0
17.5°	3844.8	3792.8	3841.9	3963.1	4055.5	4271.9	4453.8	4537.5	4220.0	4153.6	3573.4
20°	3922.7	3908.3	3899.6	3960.2	4124.7	4413.4	4774.2	4927.2	4618.3	4549.0	3850.5
22.5°	4159.4	4162.3	4156.5	4067.0	4185.4	4511.5	5054.2	5432.3	5094.6	5036.9	4165.1
25°	4471.1	4433.6	4404.7	4332.6	4318.1	4601.0	5337.0	6050.0	5666.1	5625.7	4505.7
27.5°	4800.2	4800.2	4713.6	4647.2	4554.8	4823.3	5596.8	6650.4	6356.0	6301.1	4803.1
30°	5158.1	5178.3	5166.7	5025.3	4967.6	5065.7	5862.4	7418.2	7146.8	7077.6	5293.7
32.5°	5686.3	5643.0	5692.1	5573.7	5403.4	5490.0	6280.9	8105.2	8174.4	8076.3	5937.4
35°	6384.8	6358.8	6327.1	6133.7	5931.7	6000.9	6872.6	8950.9	9464.7	9415.6	6586.9
37.5°	7011.2	6996.8	6970.8	6838.0	6604.2	6687.9	7545.2	9831.2	10723.2	10561.5	7504.8
40°	7669.3	7747.2	7663.5	7545.2	7331.6	7516.3	8336.1	10353.7	11782.5	11586.2	8206.2
42.5°	8561.2	8500.6	8538.1	8321.6	8206.2	8408.2	9129.8	10876.1	12605.1	12371.3	8950.9
45°	9510.9	9513.7	9412.7	9343.4	9043.2	9262.6	9617.7	11164.8	13260.3	13078.5	9513.7
47.5°	10119.9	10117.0	10226.7	10336.4	10027.5	9811.0	9949.6	11439.0	13598.1	13514.4	9718.7
50°	10024.6	10053.5	10194.9	10604.8	10766.5	10474.9	10261.3	11358.2	13751.0	13742.4	9894.7
52.5°	8720.0	8815.2	9051.9	9643.6	10457.6	10818.4	10587.5	11508.3	13826.1	13840.5	10157.4
55°	6638.8	6690.8	7141.1	7859.8	8760.4	9995.8	10457.6	11626.6	13883.8	13909.8	10474.9
56°	5758.5	5619.9	6269.4	6780.3	7856.9	9207.8	10128.6	11534.3	13849.2	14048.4	10633.7
57.5°	4347.0	4254.6	4780.0	5417.9	6454.1	7880.0	9106.7	11098.4	13615.4	13612.5	10405.7
60°	2644.0	2551.6	2955.7	3331.0	3911.1	4852.1	6153.9	8838.3	11511.2	11753.6	8425.5
62.5°	1573.1	1630.8	2029.2	2257.2	2444.8	2543.0	3183.8	5253.3	7680.8	7854.0	5227.4
65°	1047.8	1068.0	1368.2	1743.4	1827.1	1454.8	1296.0	2127.3	3331.0	3224.2	2156.2
67.5°	646.6	692.7	917.9	1310.4	1451.9	1062.2	614.8	793.8	917.9	917.9	623.5
70°	392.6	415.6	611.9	891.9	995.8	684.1	447.4	447.4	441.6	433.0	372.4
72.5°	187.6	202.1	311.7	458.9	467.6	360.8	346.4	378.1	369.5	366.6	308.9
75°	80.8	86.6	109.7	144.3	164.5	153.0	210.7	271.3	280.0	271.3	222.3
77.5°	26.0	28.9	40.4	52.0	54.8	66.4	89.5	112.6	129.9	121.2	109.7
80°	2.9	5.8	11.5	26.0	40.4	52.0	66.4	75.0	83.7	83.7	77.9
82.5°	2.9	2.9	11.5	23.1	37.5	49.1	63.5	72.2	83.7	86.6	80.8
85°	0.0	2.9	8.7	20.2	31.8	31.8	28.9	28.9	20.2	20.2	20.2
87.5°	0.0	0.0	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5	2606.5
2.5°	2629.6	2623.8	2545.8	2496.8	2470.8	2418.8	2387.1	2364.0	2346.7	2326.5	2329.4
5°	2664.2	2644.0	2514.1	2424.6	2317.8	2260.1	2211.0	2170.6	2144.6	2138.9	2127.3
7.5°	2762.3	2655.5	2459.3	2297.6	2162.0	2104.2	2060.9	2034.9	2046.5	2020.5	2040.7
10°	2837.4	2678.6	2392.9	2159.1	2023.4	1980.1	1957.0	1977.2	2006.1	1994.5	1980.1
12.5°	2929.7	2701.7	2286.1	2026.3	1899.3	1867.5	1907.9	1945.5	2003.2	2026.3	1997.4
15°	3033.7	2727.7	2150.4	1873.3	1792.5	1818.5	1887.7	1954.1	2011.9	2040.7	2058.0
17.5°	3160.7	2719.0	2017.6	1752.1	1691.5	1766.5	1850.2	1910.8	1997.4	2040.7	2029.2
20°	3279.0	2690.2	1870.4	1630.8	1633.7	1703.0	1772.3	1870.4	1916.6	1974.3	1954.1
22.5°	3391.6	2638.2	1717.4	1547.1	1547.1	1653.9	1688.6	1752.1	1792.5	1821.3	1818.5
25°	3550.3	2540.1	1590.4	1466.3	1501.0	1570.2	1599.1	1619.3	1602.0	1625.1	1628.0
27.5°	3662.9	2439.1	1486.5	1394.2	1457.7	1509.6	1501.0	1489.4	1449.0	1417.2	1437.5
30°	3784.1	2320.7	1397.0	1345.1	1379.7	1425.9	1391.3	1356.6	1293.1	1241.2	1244.1
32.5°	3957.3	2265.9	1319.1	1287.4	1333.5	1339.3	1301.8	1249.8	1186.3	1137.3	1134.4
35°	4280.6	2231.2	1252.7	1249.8	1258.5	1261.4	1223.9	1160.4	1134.4	1094.0	1108.4
37.5°	4603.9	2213.9	1206.5	1195.0	1192.1	1195.0	1151.7	1091.1	1140.1	1137.3	1143.0
40°	5016.6	2291.8	1140.1	1125.7	1128.6	1128.6	1073.8	1056.4	1143.0	1151.7	1154.6
42.5°	5435.2	2390.0	1096.9	1050.7	1062.2	1062.2	1033.3	1013.1	1073.8	1016.0	1007.4
45°	5798.9	2534.3	1050.7	975.6	1004.5	1018.9	1010.3	975.6	938.1	840.0	840.0
47.5°	5917.2	2661.3	995.8	903.5	926.6	990.1	964.1	891.9	825.5	744.7	738.9
50°	6125.0	2799.9	952.5	819.8	868.8	946.8	920.8	848.6	773.6	715.8	718.7
52.5°	6338.6	2958.6	871.7	721.6	782.2	912.1	912.1	831.3	715.8	675.4	669.7
55°	6659.0	2952.8	727.4	591.7	698.5	860.2	874.6	744.7	640.8	609.0	609.0
56°	6705.2	2820.1	655.2	554.2	661.0	845.7	848.6	721.6	611.9	577.3	577.3
57.5°	6358.8	2545.8	574.4	508.0	614.8	819.8	822.6	701.4	588.8	539.8	534.0
60°	4892.5	1723.2	479.2	453.2	557.1	738.9	753.4	637.9	516.7	479.2	476.3
62.5°	2762.3	955.4	421.4	409.9	479.2	629.2	672.5	557.1	438.7	418.5	424.3
65°	1261.4	525.3	355.0	331.9	386.8	484.9	542.7	458.9	360.8	337.7	337.7
67.5°	461.8	357.9	303.1	262.7	271.3	314.6	352.1	297.3	239.6	204.9	213.6
70°	329.1	300.2	265.6	228.0	210.7	204.9	202.1	167.4	118.3	92.4	98.1
72.5°	265.6	248.2	222.3	193.4	164.5	138.5	118.3	86.6	54.8	37.5	34.6
75°	190.5	181.8	161.6	138.5	115.5	98.1	80.8	54.8	28.9	14.4	14.4
77.5°	98.1	98.1	95.3	86.6	72.2	57.7	46.2	31.8	17.3	5.8	5.8
80°	75.0	80.8	83.7	75.0	66.4	52.0	37.5	23.1	11.5	2.9	2.9
82.5°	72.2	83.7	89.5	77.9	66.4	49.1	37.5	23.1	11.5	2.9	2.9
85°	17.3	17.3	26.0	28.9	37.5	40.4	31.8	20.2	8.7	2.9	2.9
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	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)