

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: P530790

Luminaire Tested: **GALN-SA6A-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22199 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

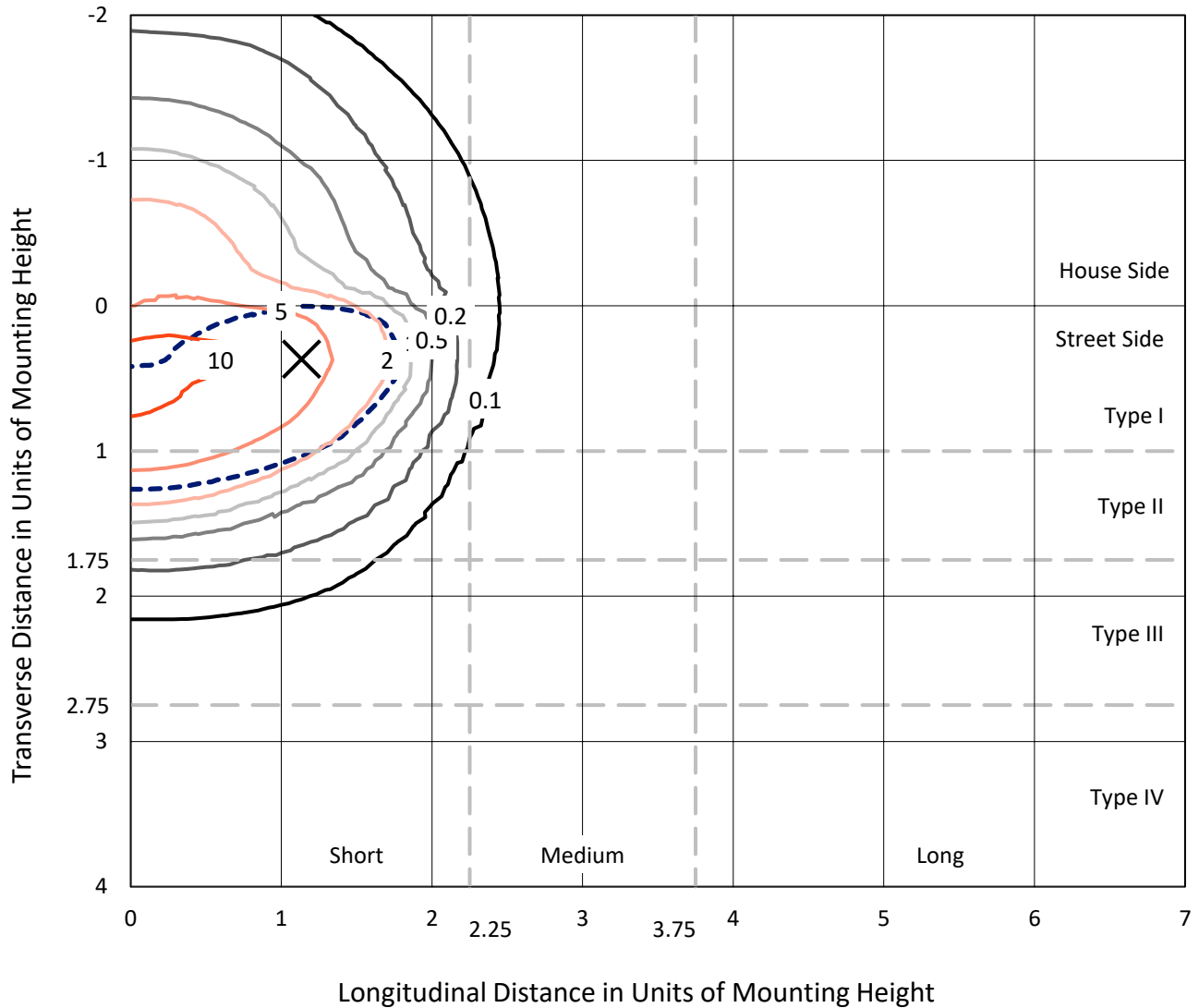
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

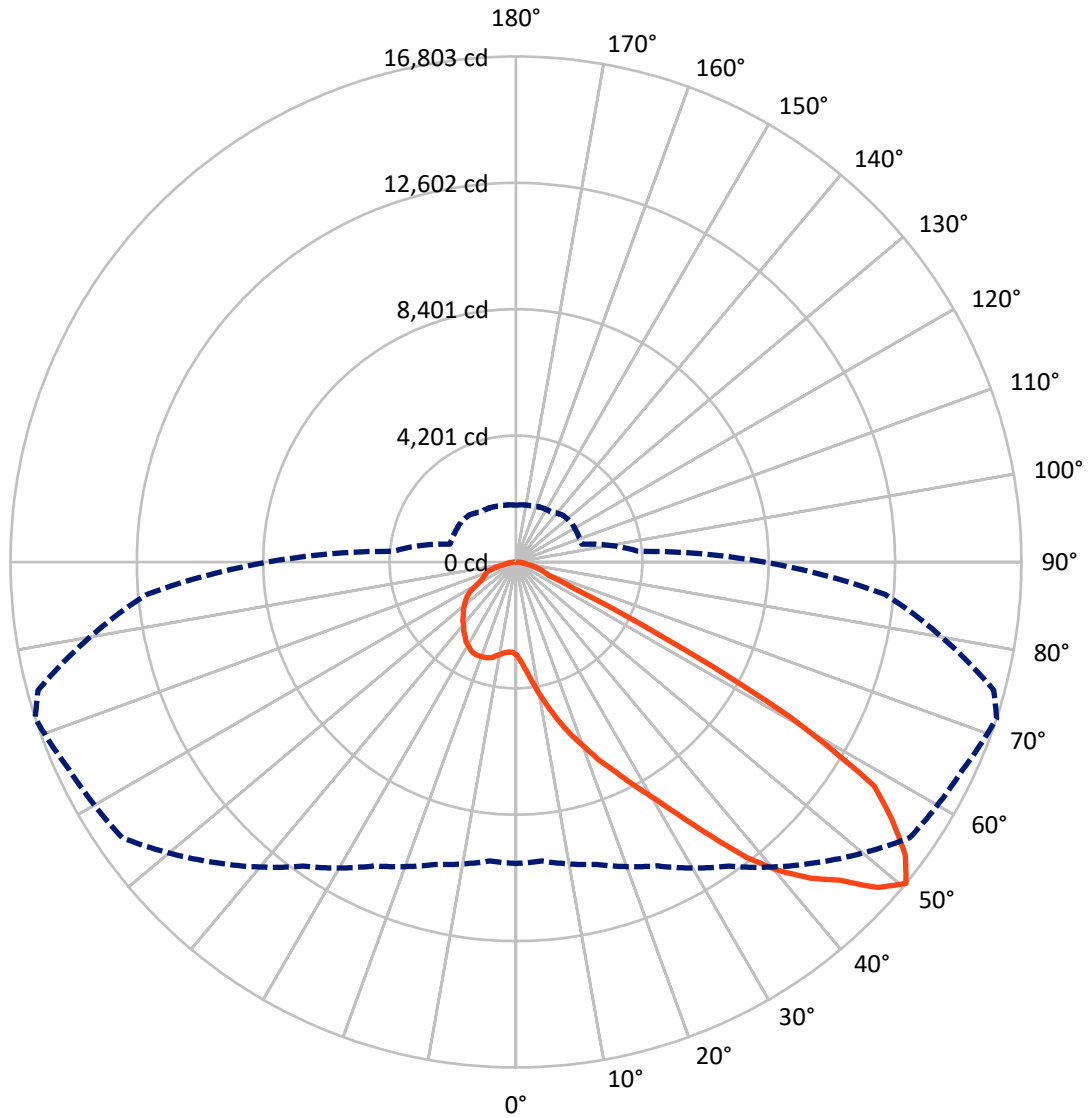
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5085.9	0.0	5085.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17113.1	0.0	17113.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	22199.0	0.0	22199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.5	1.6
10°-20°	1358.9	6.1
20°-30°	2634.8	11.9
30°-40°	4364.9	19.7
40°-50°	6107.4	27.5
50°-60°	5152.4	23.2
60°-70°	1570.4	7.1
70°-80°	551.0	2.5
80°-90°	95.8	0.4
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°	22199.0	100.0
0°-180°	22199.0	100.0

Coefficient of Utilization



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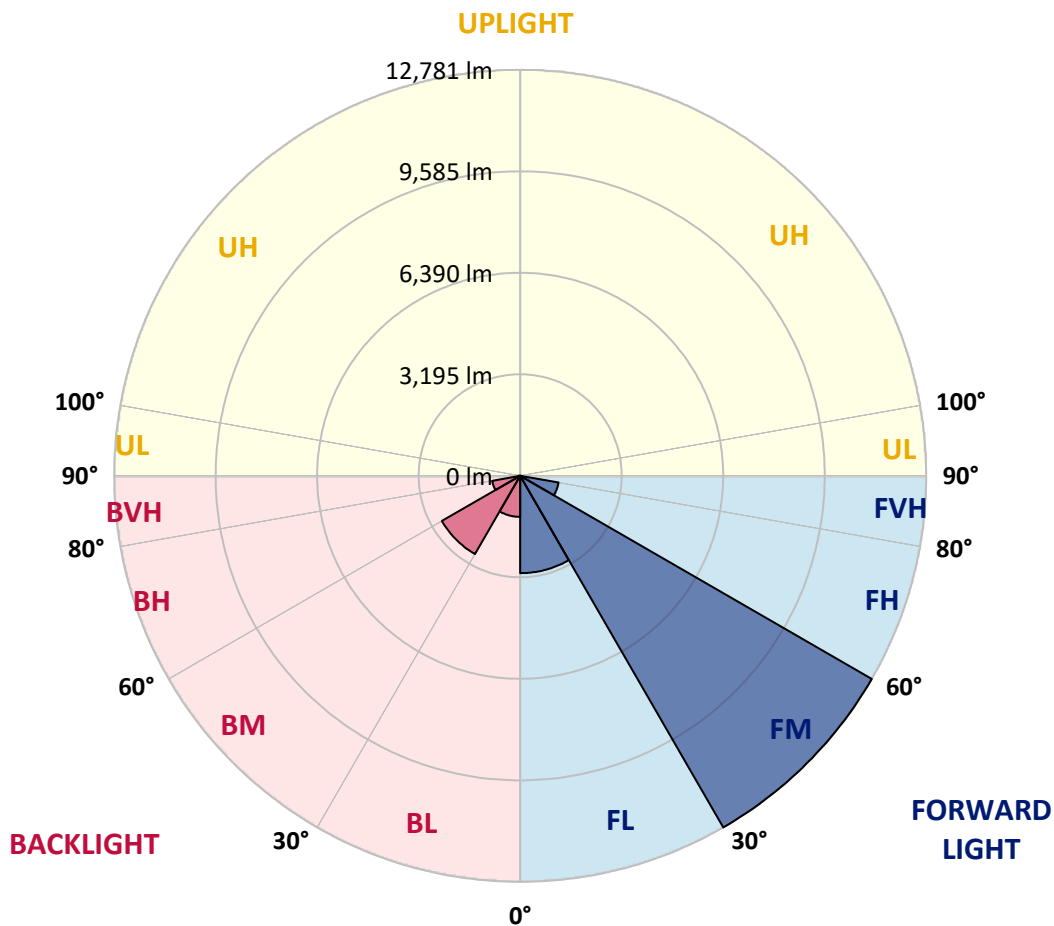
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3064.3	13.8			
FM (30°-60°)	12780.6	57.6			
FH (60°-80°)	1225.4	5.5			G1/1800
FVH (80°-90°)	42.9	0.2			G1/100
BL (0°-30°)	1292.9	5.8	B3/2500		
BM (30°-60°)	2844.1	12.8	B3/5000		
BH (60°-80°)	896.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	52.9	0.2			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°	72°	75°	85°
0°	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3
2.5°	3974.8	3950.1	3875.9	3851.2	3763.3	3604.0	3549.0	3387.0	3318.3	3255.1	3180.9
5°	5026.9	4911.5	4903.3	4763.2	4559.9	4441.8	4090.2	3853.9	3636.9	3527.1	3323.8
7.5°	5697.1	5699.9	5699.9	5584.5	5422.4	5123.0	4807.1	4381.3	4054.5	3892.4	3546.3
10°	6334.4	6279.5	6249.3	6238.3	6128.4	5837.2	5499.3	4971.9	4524.2	4334.6	3713.8
12.5°	6784.9	6738.2	6806.9	6771.2	6691.5	6502.0	6183.3	5581.8	5021.4	4765.9	3983.0
15°	6999.2	7032.1	7087.1	7186.0	7150.2	7078.8	6727.2	6208.0	5557.0	5268.6	4222.0
17.5°	7328.8	7238.1	7304.1	7427.7	7526.6	7493.6	7293.1	6661.3	6087.2	5732.8	4543.4
20°	7559.5	7507.3	7540.3	7683.1	7757.3	7944.1	7839.7	7254.6	6595.4	6221.8	4922.5
22.5°	8218.8	8141.9	8034.8	8056.7	8084.2	8216.1	8240.8	7905.6	7186.0	6790.4	5282.3
25°	9031.9	8960.5	8834.1	8705.0	8625.3	8600.6	8685.8	8416.6	7751.8	7342.5	5669.7
27.5°	9927.4	9806.5	9726.9	9460.4	9246.1	9213.2	9172.0	9026.4	8422.1	7979.8	6106.4
30°	10798.2	10702.0	10594.9	10169.1	9946.6	9910.9	9707.6	9748.8	9150.0	8658.3	6600.9
32.5°	11457.4	11465.7	11221.2	10899.8	10691.0	10501.5	10427.3	10545.4	10084.0	9688.4	7153.0
35°	11990.3	12015.0	11781.6	11490.4	11265.1	11397.0	11364.0	11419.0	11199.2	10715.8	7795.8
37.5°	12509.5	12385.9	12135.9	11995.8	11877.7	12094.7	12374.9	12421.6	12462.8	11894.2	8542.9
40°	12594.6	12605.6	12460.0	12558.9	12410.6	12737.5	13388.5	13328.1	13495.6	12998.4	9353.3
42.5°	12473.8	12498.5	12556.2	12696.3	13053.4	13446.2	14413.1	14165.9	14369.2	13926.9	10141.6
45°	12276.0	12174.4	12245.8	12778.7	13396.8	14270.3	15349.8	15157.5	15091.6	14720.8	11081.1
47.5°	11331.1	11435.4	11657.9	12314.5	13242.9	14413.1	16014.6	15970.6	16168.4	15907.4	11935.4
50°	10020.8	9979.6	10408.1	11147.0	12344.7	14132.9	15978.9	16377.2	16802.9	16440.3	12317.2
52.5°	7504.6	7724.4	8092.4	9009.9	10718.5	12605.6	15198.7	15863.5	16209.6	16132.7	12009.6
55°	4743.9	4809.9	5032.4	6122.9	7661.2	10116.9	13028.7	14569.7	15187.7	15476.2	11726.6
57.5°	2304.7	2181.1	2453.0	3329.3	4425.3	6804.1	10048.2	12690.8	14034.0	14556.0	11111.3
60°	1203.2	1249.9	1357.0	1670.1	2288.2	3532.5	6263.0	8457.8	10509.7	11311.8	8422.1
62.5°	997.1	1013.6	1085.0	1241.6	1521.8	2032.7	3197.4	4123.1	5359.2	6081.7	4790.6
65°	846.1	854.3	931.2	1035.6	1214.1	1431.1	1645.4	1722.3	2084.9	2139.9	1703.1
67.5°	706.0	714.2	796.6	895.5	1010.9	1068.6	1123.5	1118.0	1159.2	1142.7	1140.0
70°	543.9	552.1	637.3	741.7	799.4	766.4	936.7	975.2	991.6	1005.4	1027.3
72.5°	392.8	409.3	475.2	549.4	519.2	596.1	771.9	829.6	851.5	859.8	887.3
75°	285.7	291.2	307.7	285.7	329.6	414.8	543.9	615.3	642.8	651.0	692.2
77.5°	126.4	129.1	131.9	164.8	211.5	258.2	324.1	381.8	420.3	431.3	442.3
80°	65.9	68.7	85.2	112.6	151.1	189.5	236.2	269.2	293.9	296.7	307.7
82.5°	41.2	44.0	60.4	79.7	107.1	140.1	173.1	200.5	219.8	222.5	225.2
85°	19.2	24.7	35.7	49.4	71.4	90.6	93.4	79.7	85.2	87.9	82.4
87.5°	5.5	8.2	11.0	8.2	11.0	11.0	13.7	16.5	16.5	16.5	19.2
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°	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3
2.5°	3139.7	3115.0	3018.9	2983.2	2889.8	2906.2	2856.8	2854.1	2843.1	2840.3	2837.6
5°	3216.6	3139.7	3024.4	2936.5	2884.3	2878.8	2843.1	2843.1	2854.1	2862.3	2843.1
7.5°	3343.0	3255.1	3060.1	2977.7	2931.0	2922.7	2898.0	2878.8	2903.5	2895.3	2873.3
10°	3488.6	3334.8	3128.7	3057.3	2980.4	2961.2	2961.2	2969.4	2928.2	2942.0	2920.0
12.5°	3650.7	3444.6	3216.6	3134.2	3043.6	3032.6	3027.1	2966.7	2988.7	2977.7	2922.7
15°	3856.7	3571.0	3329.3	3189.2	3112.3	3062.8	2991.4	2980.4	2966.7	2939.2	2914.5
17.5°	4079.2	3708.3	3381.5	3205.7	3090.3	3054.6	2999.6	2942.0	2900.8	2906.2	2887.0
20°	4268.7	3834.7	3400.7	3222.1	3073.8	3005.1	2920.0	2884.3	2840.3	2837.6	2834.8
22.5°	4494.0	4005.0	3428.2	3178.2	3024.4	2952.9	2895.3	2832.1	2801.9	2763.4	2782.6
25°	4763.2	4070.9	3433.7	3153.5	2988.7	2862.3	2832.1	2763.4	2752.4	2697.5	2708.5
27.5°	4958.2	4106.7	3389.7	3076.6	2906.2	2810.1	2755.2	2705.7	2686.5	2645.3	2634.3
30°	5219.2	4161.6	3296.3	2980.4	2823.8	2716.7	2683.7	2672.8	2617.8	2573.9	2568.4
32.5°	5515.8	4197.3	3235.9	2881.5	2738.7	2656.3	2672.8	2620.6	2551.9	2513.4	2502.4
35°	5752.1	4211.0	3084.8	2768.9	2681.0	2628.8	2609.6	2598.6	2499.7	2464.0	2436.5
37.5°	6111.9	4180.8	2958.4	2689.2	2617.8	2598.6	2582.1	2507.9	2395.3	2343.1	2304.7
40°	6532.2	4172.6	2796.4	2576.6	2557.4	2579.4	2529.9	2414.5	2258.0	2200.3	2172.8
42.5°	6936.0	4230.3	2694.7	2516.2	2491.5	2499.7	2431.0	2258.0	2181.1	2148.1	2104.1
45°	7611.7	4351.1	2527.2	2422.8	2411.8	2406.3	2323.9	2142.6	2098.7	2057.4	2049.2
47.5°	8221.5	4271.5	2420.0	2326.6	2337.6	2307.4	2131.6	2073.9	2024.5	1983.3	1969.5
50°	8257.3	4081.9	2269.0	2252.5	2255.2	2203.0	2035.5	1997.0	1933.8	1906.4	1887.1
52.5°	8070.5	3771.5	2128.9	2134.4	2142.6	2057.4	1917.4	1889.9	1837.7	1799.2	1788.2
55°	7545.8	3288.1	1991.5	2013.5	2035.5	1873.4	1829.5	1760.8	1719.6	1664.6	1667.4
57.5°	6647.6	2648.0	1799.2	1834.9	1881.6	1703.1	1670.1	1585.0	1524.5	1480.6	1475.1
60°	4455.5	1884.4	1510.8	1524.5	1628.9	1557.5	1554.8	1469.6	1387.2	1348.7	1326.8
62.5°	2628.8	1439.4	1304.8	1291.1	1288.3	1329.5	1398.2	1368.0	1260.8	1186.7	1208.6
65°	1376.2	1244.4	1214.1	1167.4	1140.0	1129.0	1181.2	1194.9	1123.5	1043.8	1038.3
67.5°	1156.5	1156.5	1131.7	1115.3	1076.8	1030.1	997.1	953.2	942.2	920.2	892.8
70°	1052.1	1079.5	1071.3	1032.8	999.9	947.7	862.5	791.1	722.4	697.7	714.2
72.5°	917.5	944.9	944.9	925.7	881.8	802.1	719.7	637.3	579.6	535.7	530.2
75°	706.0	719.7	752.7	730.7	673.0	623.6	538.4	453.2	398.3	357.1	348.9
77.5°	450.5	472.5	472.5	469.7	428.5	381.8	326.9	266.5	225.2	195.0	186.8
80°	299.4	313.1	324.1	313.1	285.7	250.0	208.8	167.6	137.3	112.6	107.1
82.5°	219.8	236.2	244.5	233.5	206.0	178.6	148.3	118.1	87.9	68.7	63.2
85°	85.2	87.9	98.9	118.1	115.4	112.6	90.6	65.9	49.4	35.7	33.0
87.5°	22.0	19.2	22.0	22.0	19.2	16.5	16.5	16.5	16.5	8.2	11.0
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)