

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: P194014

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-T3R-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19569 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 193  
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: 25 FT

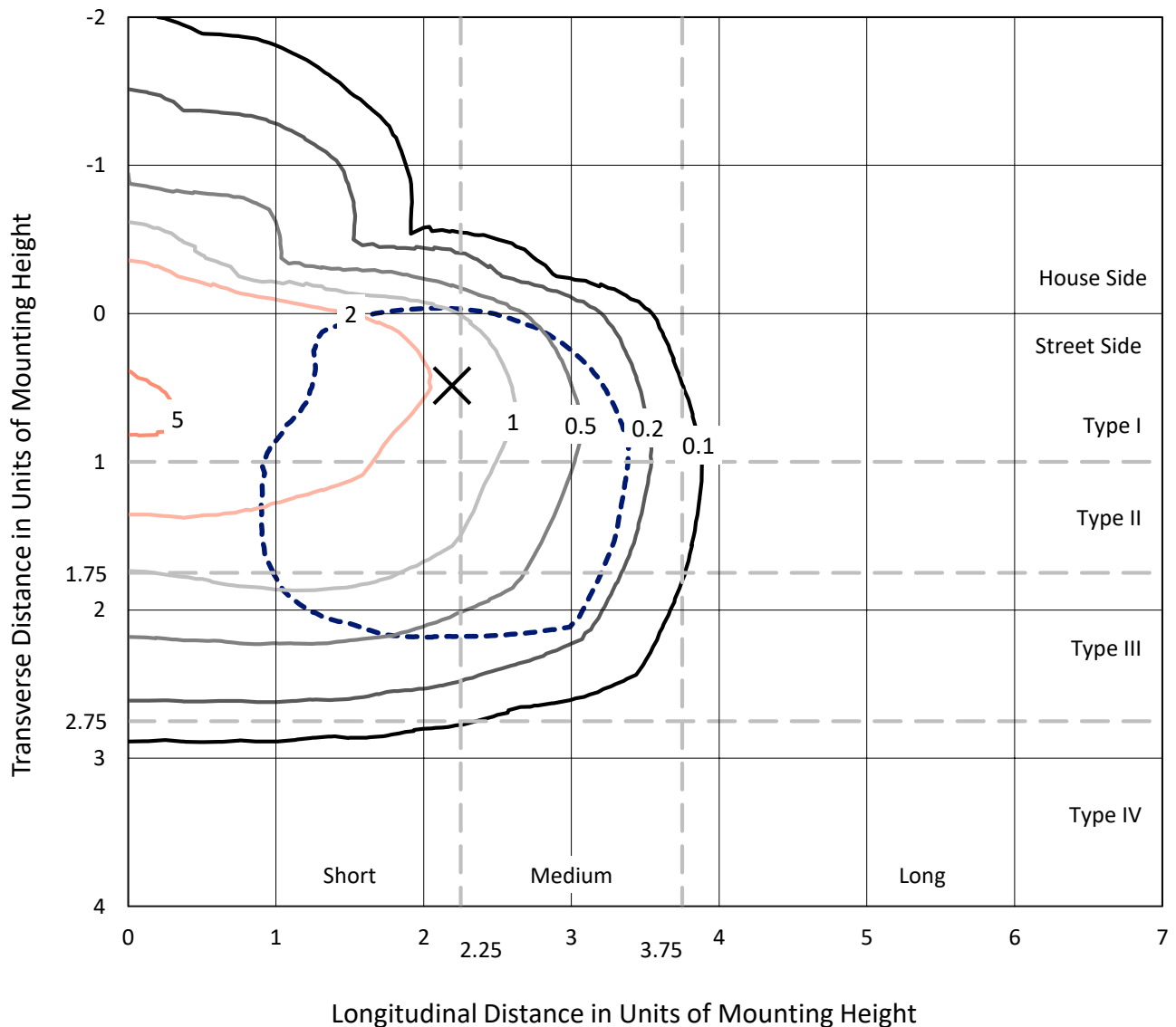


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

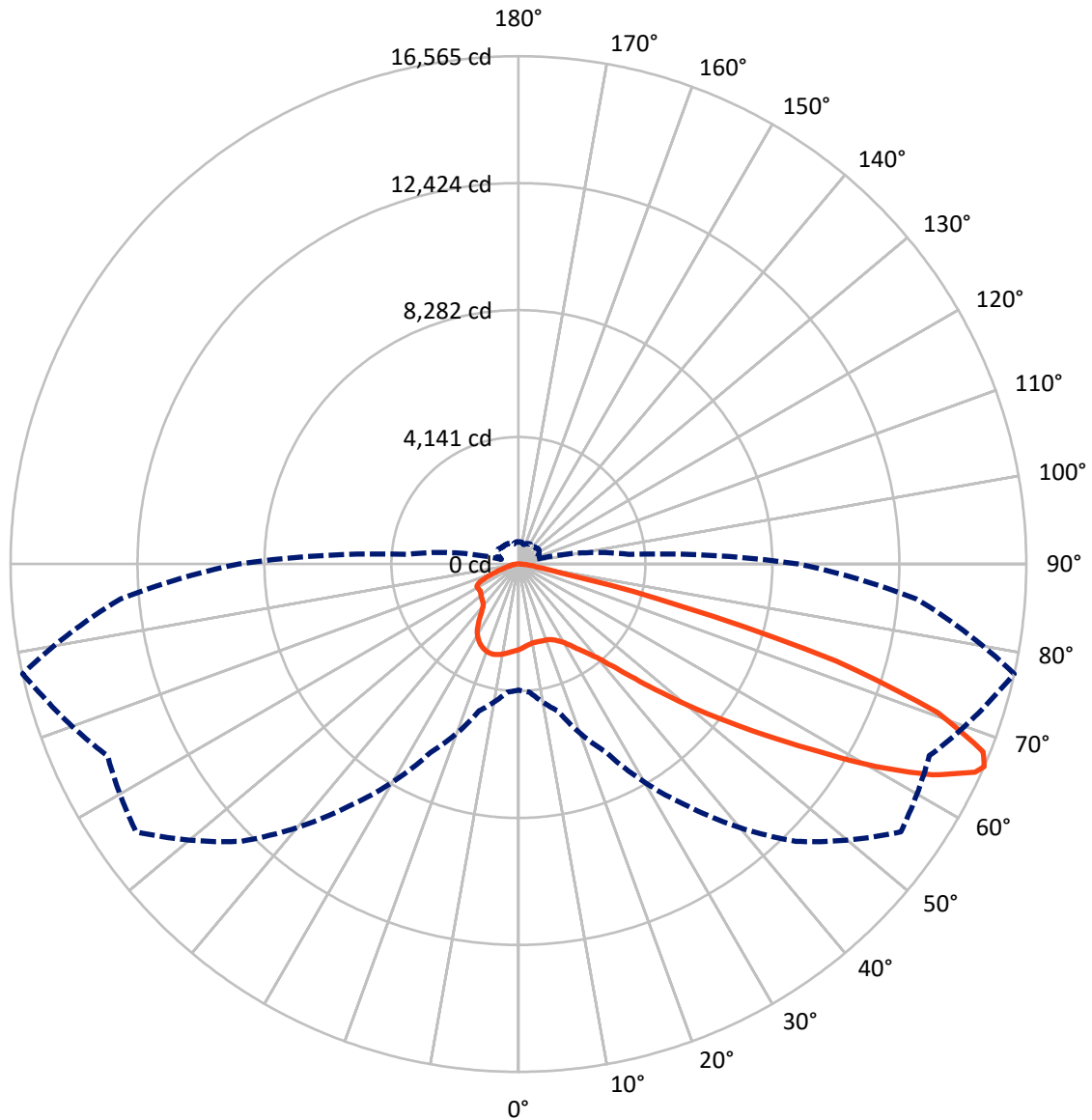


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3343.2	0.0	3343.2
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	16225.8	0.0	16225.8
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	19569.0	0.0	19569.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.1	1.3
10°-20°	702.9	3.6
20°-30°	1199.6	6.1
30°-40°	1920.3	9.8
40°-50°	2966.7	15.2
50°-60°	4207.8	21.5
60°-70°	5628.9	28.8
70°-80°	2444.5	12.5
80°-90°	249.3	1.3
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°	19569.0	100.0
0°-180°	19569.0	100.0



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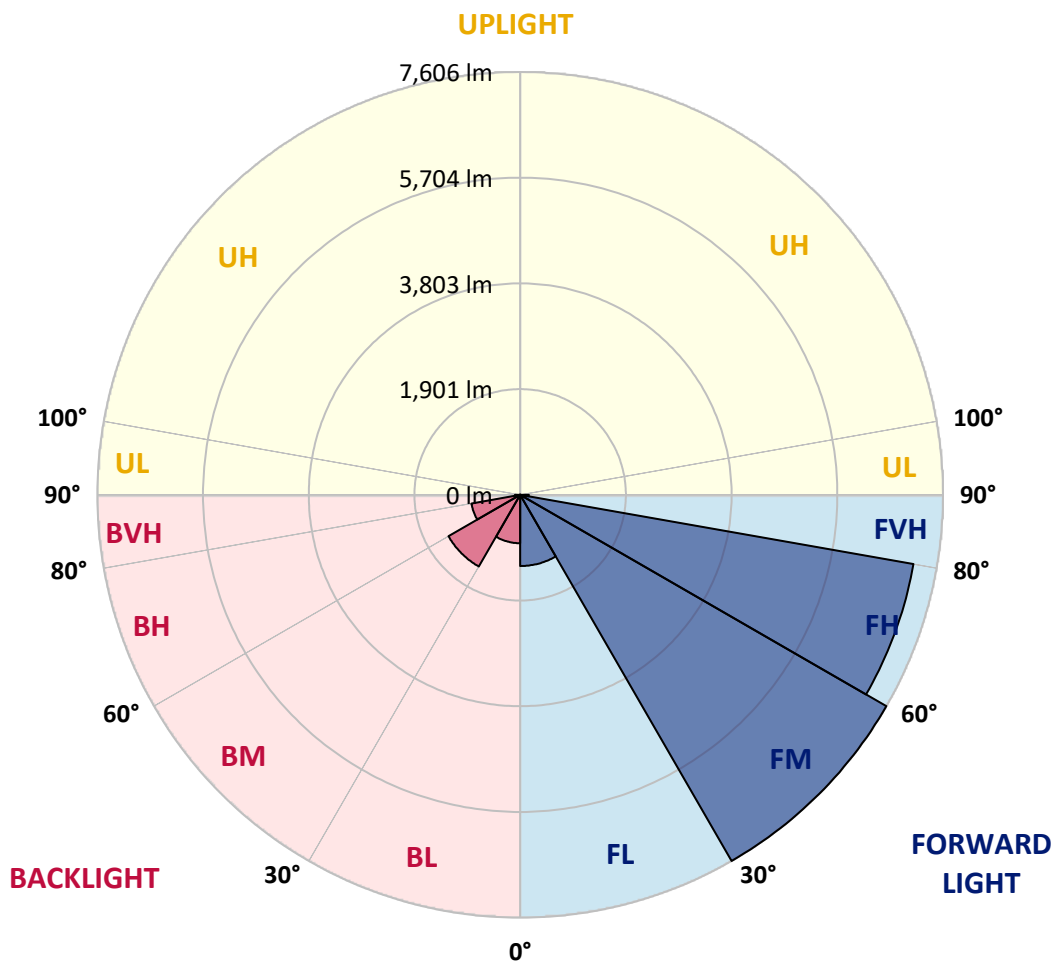
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1280.9	6.5			
FM	(30°-60°)	7605.5	38.9			
FH	(60°-80°)	7183.0	36.7			G3/7500
FVH	(80°-90°)	156.3	0.8			G2/225
BL	(0°-30°)	870.7	4.4	B2/1000		
BM	(30°-60°)	1489.2	7.6	B2/2500		
BH	(60°-80°)	890.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	92.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7
2.5°	2466.9	2483.5	2497.4	2510.4	2536.3	2578.8	2627.8	2667.5	2724.9	2736.0	2766.5
5°	2240.4	2240.4	2251.5	2270.9	2306.0	2369.8	2436.4	2525.2	2650.0	2679.6	2760.9
7.5°	2130.3	2131.3	2137.7	2154.4	2184.9	2243.1	2316.2	2420.7	2589.9	2638.9	2777.6
10°	2171.0	2161.8	2147.9	2139.6	2144.2	2178.4	2247.8	2364.3	2552.9	2615.8	2814.6
12.5°	2398.5	2380.9	2332.8	2269.0	2208.0	2183.0	2223.7	2337.5	2537.2	2610.2	2863.6
15°	2770.2	2762.8	2673.1	2540.9	2392.9	2269.0	2241.3	2327.3	2539.0	2616.7	2921.8
17.5°	3236.2	3226.0	3107.7	2915.3	2674.0	2432.7	2303.2	2335.6	2545.5	2627.8	2978.2
20°	3706.8	3675.4	3547.8	3318.5	3008.7	2655.5	2405.9	2356.9	2553.8	2639.8	3037.4
22.5°	4058.2	4032.3	3917.6	3694.8	3337.9	2913.5	2543.6	2393.9	2580.6	2674.9	3110.4
25°	4367.0	4368.9	4255.1	4039.7	3670.8	3187.2	2721.2	2492.8	2649.1	2747.1	3210.3
27.5°	4748.9	4726.7	4620.4	4406.8	3999.9	3463.7	2935.7	2628.7	2750.8	2849.7	3341.6
30°	5205.7	5189.9	5067.0	4824.7	4365.2	3760.5	3180.7	2786.8	2882.1	2984.7	3513.6
32.5°	5742.9	5735.5	5607.9	5296.3	4786.8	4110.0	3468.3	2995.8	3078.1	3184.4	3760.5
35°	6373.5	6374.4	6223.7	5849.2	5248.2	4516.8	3794.7	3264.9	3316.6	3427.6	4054.5
37.5°	6761.8	6809.0	6752.6	6370.7	5770.6	4971.7	4218.1	3621.8	3588.5	3700.4	4369.8
40°	6845.0	6902.3	7080.8	6886.6	6355.0	5472.9	4593.5	3964.8	3923.2	4060.0	4775.7
42.5°	6728.5	6808.0	7185.3	7322.1	6975.4	6090.5	5098.4	4474.3	4421.6	4605.6	5280.5
45°	6659.2	6718.3	7154.8	7548.7	7513.5	6788.6	5741.0	5114.1	5094.7	5336.0	5863.1
47.5°	6539.0	6592.6	7012.4	7601.4	7829.7	7428.5	6513.1	5896.3	5934.3	6250.5	6520.5
50°	6603.7	6625.9	6853.3	7467.3	7921.3	7897.2	7375.8	6802.5	6931.9	7326.7	7264.8
52.5°	6594.4	6651.8	6834.8	7247.2	7933.3	8186.6	8225.5	7813.1	8085.9	8538.9	8090.5
55°	5331.4	5436.8	6617.6	7191.8	7975.8	8470.5	8981.8	8878.3	9386.8	9914.8	9022.5
57.5°	5091.0	5157.6	5812.2	7308.3	8201.4	9012.3	9823.2	10050.7	10901.4	11514.4	10158.0
60°	5043.8	5126.1	5803.9	7450.6	8659.1	9895.4	11070.6	11470.0	12744.1	13415.4	11474.6
62.5°	4896.8	4985.6	5749.3	7432.2	9309.1	11116.8	12667.4	12979.0	14491.7	15144.5	12575.9
65°	4430.8	4514.0	5304.6	7133.5	9747.4	12420.5	14557.3	14362.2	15871.2	16362.2	13125.1
66°	4111.8	4193.2	4954.2	6782.1	9645.7	12790.4	15226.8	14790.3	16180.1	16564.7	13017.8
67.5°	3528.4	3592.2	4273.6	5995.3	9104.8	12893.9	15789.9	15112.1	16212.4	16348.3	12404.8
70°	2229.3	2247.8	2777.6	4138.6	6892.2	11182.4	14932.7	14313.2	14875.4	14507.4	10399.3
72.5°	967.2	960.7	1333.3	2105.4	3901.9	7503.3	12079.3	11810.3	11668.8	10829.2	7279.6
75°	538.1	545.5	692.5	977.3	1585.7	3685.6	7901.9	7561.6	6384.6	5447.9	3300.9
77.5°	431.8	442.0	574.2	693.5	712.0	1285.2	3697.6	3008.7	1811.3	1453.5	917.2
80°	341.2	359.7	501.1	540.0	479.9	529.8	1194.6	955.1	716.6	657.4	475.3
82.5°	270.0	282.9	430.0	408.7	335.6	356.9	572.3	557.6	466.0	424.4	274.6
85°	194.2	218.2	353.2	307.9	220.1	240.4	380.0	364.3	267.2	218.2	121.1
87.5°	79.5	103.6	249.6	204.3	123.0	111.9	189.5	178.5	126.7	92.5	60.1
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°	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7
2.5°	2785.9	2808.1	2836.8	2854.3	2863.6	2870.0	2880.2	2879.3	2882.1	2883.0	2886.7
5°	2804.4	2841.4	2883.0	2894.1	2894.1	2883.9	2873.7	2857.1	2850.6	2848.8	2850.6
7.5°	2852.5	2893.2	2929.2	2916.3	2888.5	2847.9	2795.1	2748.9	2724.0	2715.6	2713.8
10°	2913.5	2962.5	2977.3	2928.3	2846.9	2748.9	2644.4	2568.6	2525.2	2513.1	2509.4
12.5°	2987.5	3033.7	3013.4	2909.8	2759.1	2601.0	2456.7	2335.6	2245.0	2216.3	2214.5
15°	3068.8	3104.9	3033.7	2852.5	2627.8	2394.8	2137.7	1928.8	1816.0	1779.9	1777.1
17.5°	3144.7	3163.1	3021.7	2752.6	2434.5	2057.3	1716.1	1555.2	1516.4	1525.6	1527.5
20°	3209.4	3209.4	2981.0	2609.3	2130.3	1612.5	1397.1	1394.3	1422.1	1449.8	1455.4
22.5°	3280.6	3238.0	2909.8	2406.8	1699.5	1319.4	1288.0	1313.9	1345.3	1375.8	1380.5
25°	3368.4	3261.2	2810.9	2099.8	1336.1	1198.3	1210.3	1231.6	1247.3	1266.7	1269.5
27.5°	3466.4	3290.7	2680.5	1677.3	1159.5	1122.5	1131.7	1139.1	1137.3	1144.7	1146.5
30°	3583.9	3325.0	2502.0	1311.1	1086.4	1057.8	1041.1	1034.7	1034.7	1046.7	1051.3
32.5°	3741.0	3375.8	2245.9	1123.4	1051.3	1011.5	957.9	933.9	943.1	983.8	993.0
35°	3913.9	3430.4	1899.2	1059.6	1043.9	990.3	907.1	862.7	863.6	901.5	913.5
37.5°	4102.6	3499.7	1519.2	1047.6	1060.5	991.2	880.2	819.2	794.3	794.3	798.9
40°	4343.9	3570.9	1229.8	1055.9	1095.7	1002.3	866.4	785.0	714.7	716.6	720.3
42.5°	4658.3	3631.9	1074.4	1073.5	1138.2	1017.1	865.5	739.7	678.7	720.3	758.2
45°	5007.8	3662.4	1006.0	1089.2	1172.4	1026.3	850.7	732.3	683.3	807.2	879.3
47.5°	5410.0	3644.9	968.1	1094.8	1180.7	1026.3	834.0	749.9	715.7	934.8	1018.9
50°	5851.0	3594.0	931.1	1083.7	1178.0	1024.5	849.7	767.4	727.7	957.0	1015.2
52.5°	6369.8	3551.5	892.3	1059.6	1158.6	1014.3	868.2	760.0	689.8	870.1	910.8
55°	6961.5	3563.5	848.8	1025.4	1128.0	994.9	861.8	730.5	650.0	766.5	791.5
57.5°	7717.9	3706.8	797.0	982.0	1086.4	962.5	838.6	716.6	638.0	695.3	710.1
60°	8562.0	3956.5	732.3	938.5	1034.7	910.8	821.1	723.1	643.5	689.8	697.2
62.5°	9181.5	4101.6	676.8	874.7	964.4	853.4	798.9	731.4	658.3	709.2	707.3
65°	9349.8	3863.1	607.5	781.3	869.1	793.3	771.1	740.6	664.8	724.9	716.6
66°	9114.0	3606.0	577.0	737.9	821.1	763.7	757.3	739.7	662.0	726.8	712.9
67.5°	8541.7	3079.0	524.3	674.1	744.3	719.4	735.1	731.4	654.6	724.9	705.5
70°	6966.1	2100.8	448.4	561.2	619.5	633.4	692.5	701.8	630.6	692.5	650.0
72.5°	4867.2	1279.7	396.7	435.5	501.1	540.0	634.3	661.1	598.2	604.7	564.0
75°	2352.3	679.6	359.7	337.5	389.3	451.2	564.0	605.6	547.4	505.8	491.0
77.5°	733.2	415.2	305.1	271.8	305.1	364.3	471.6	530.7	487.3	423.5	417.9
80°	393.9	305.1	234.9	218.2	241.3	285.7	370.8	442.9	418.9	380.0	339.3
82.5°	259.8	197.9	173.8	169.2	184.0	218.2	275.5	367.1	367.1	325.5	236.7
85°	134.1	121.1	119.3	119.3	128.5	145.2	187.7	282.9	301.4	172.0	142.4
87.5°	66.6	69.3	64.7	67.5	72.1	71.2	89.7	142.4	170.1	104.5	86.9
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)