

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: P192252

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T3-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24017 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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

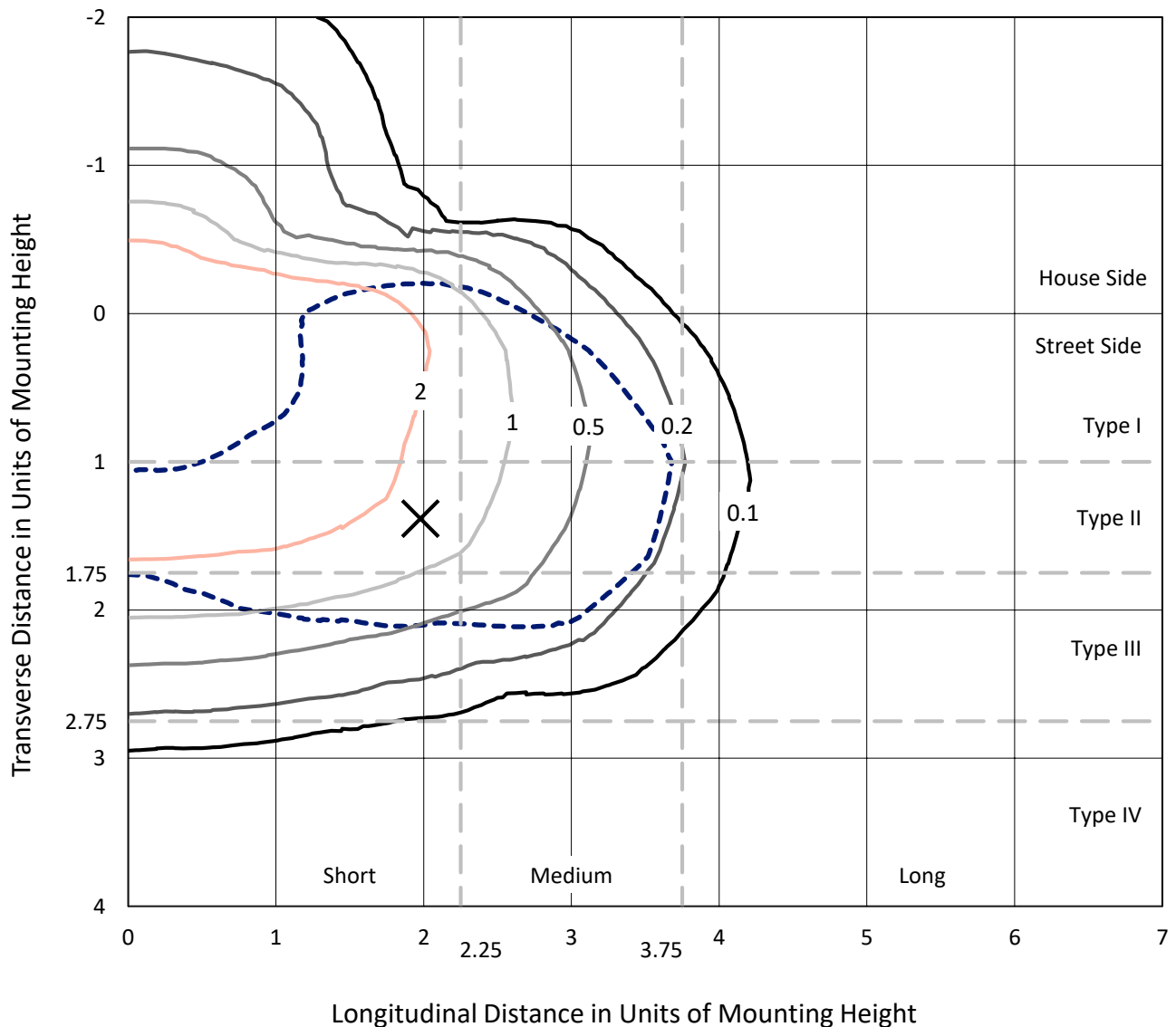


REPORT NUMBER: P192252

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

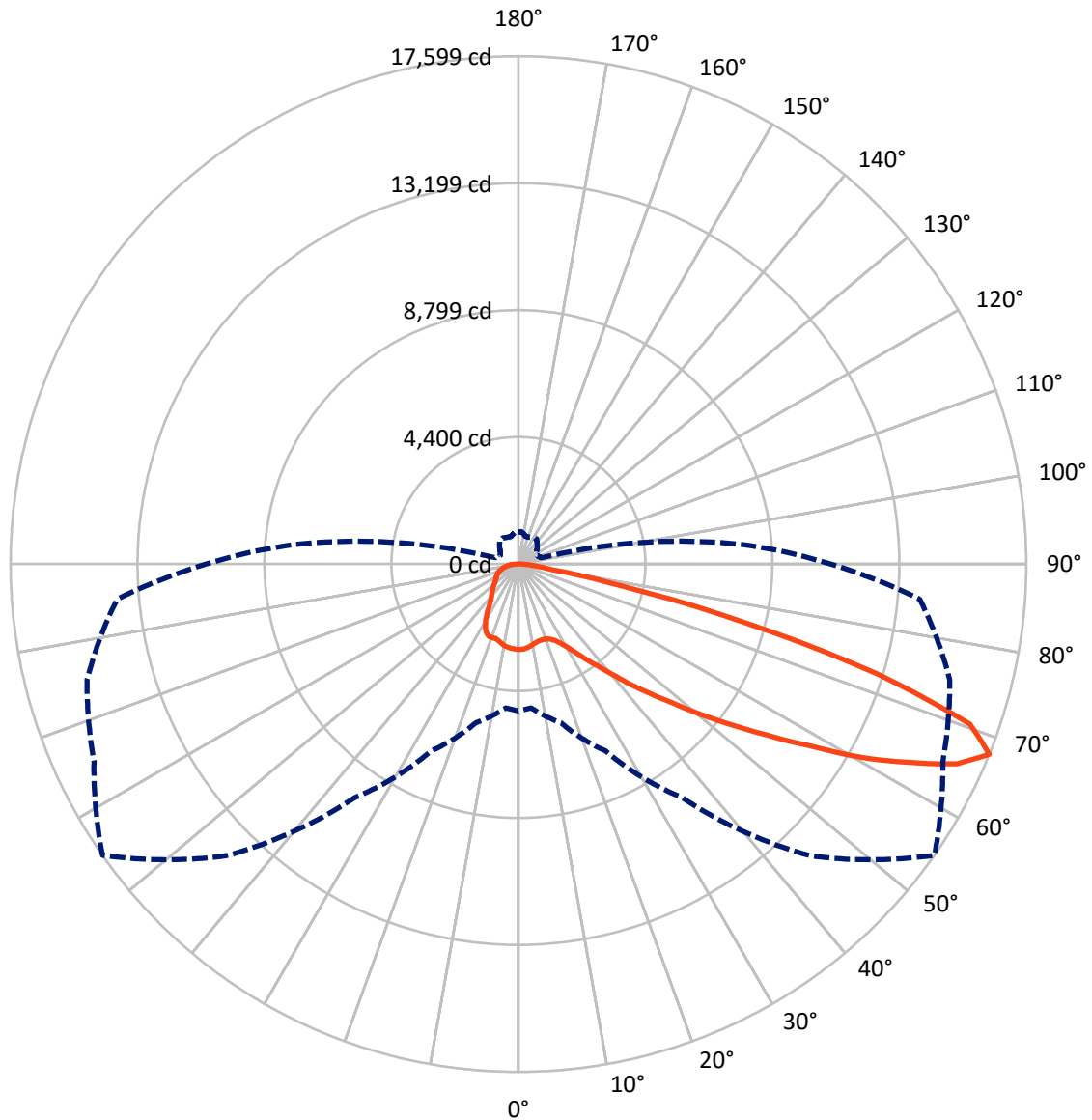


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P192252

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5188.2	0.0	5188.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18828.8	0.0	18828.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	24017.0	0.0	24017.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.2
10°-20°	782.9	3.3
20°-30°	1311.4	5.5
30°-40°	2156.6	9.0
40°-50°	3630.2	15.1
50°-60°	5713.6	23.8
60°-70°	6818.6	28.4
70°-80°	2928.0	12.2
80°-90°	399.2	1.7
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°	24017.0	100.0
0°-180°	24017.0	100.0



REPORT NUMBER: P192252

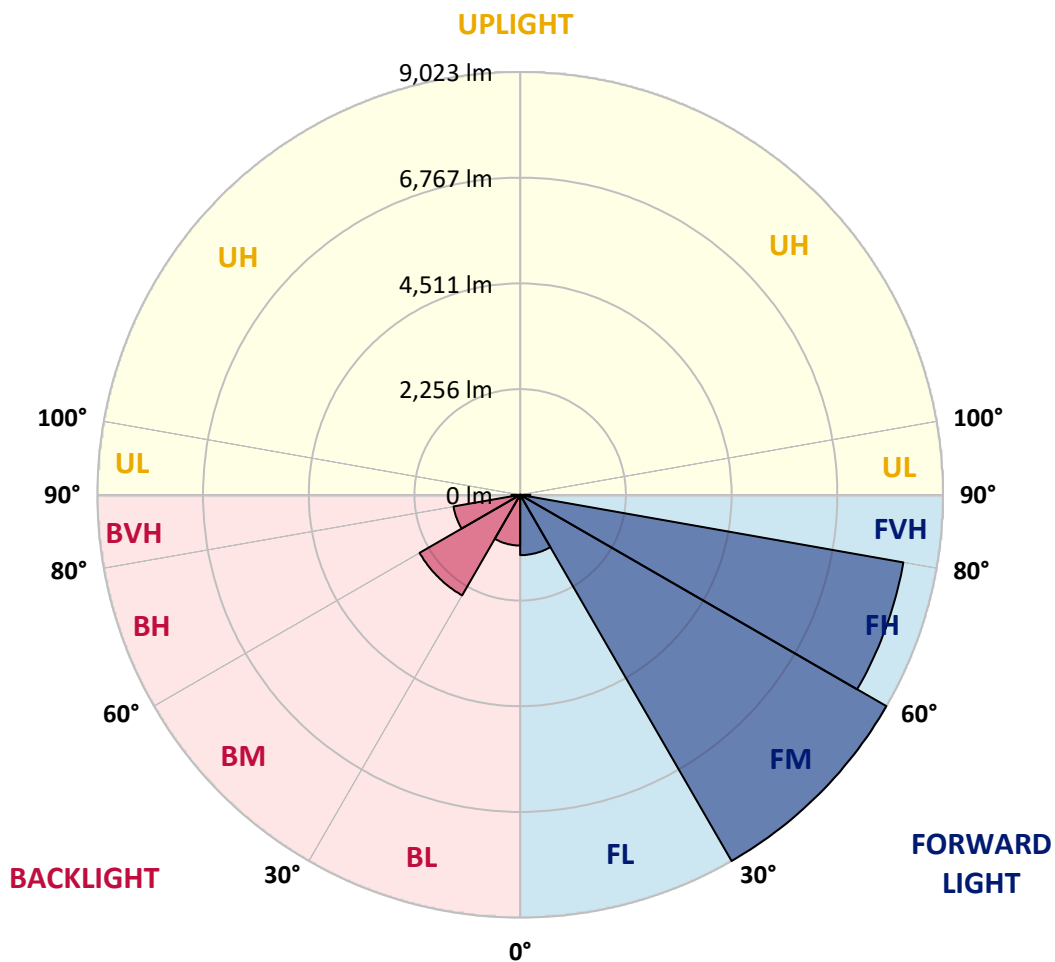
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1287.4	5.4			
FM	(30°-60°)	9022.6	37.6			
FH	(60°-80°)	8302.8	34.6			G4/12000
FVH	(80°-90°)	216.1	0.9			G2/225
BL	(0°-30°)	1083.4	4.5	B3/2500		
BM	(30°-60°)	2477.8	10.3	B2/2500		
BH	(60°-80°)	1443.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	183.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P192252

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6
2.5°	2936.0	2937.2	2939.5	2948.8	2956.9	2954.6	2955.8	2951.1	2950.0	2943.0	2950.0
5°	2898.9	2902.4	2903.6	2918.6	2927.9	2930.2	2926.8	2921.0	2914.0	2907.0	2910.5
7.5°	2814.2	2823.5	2824.7	2845.6	2860.6	2880.4	2881.5	2882.7	2879.2	2874.6	2881.5
10°	2760.9	2763.2	2762.0	2777.1	2788.7	2810.8	2823.5	2845.6	2854.8	2857.2	2861.8
12.5°	2757.4	2755.1	2751.6	2751.6	2748.1	2757.4	2780.6	2811.9	2834.0	2840.9	2846.7
15°	2794.5	2793.4	2781.8	2764.4	2742.3	2735.4	2755.1	2789.9	2818.9	2834.0	2839.8
17.5°	2878.0	2871.1	2852.5	2813.1	2765.5	2747.0	2749.3	2778.3	2811.9	2831.6	2837.4
20°	3031.2	3031.2	2991.7	2917.5	2832.8	2788.7	2767.8	2785.2	2817.7	2844.4	2852.5
22.5°	3295.6	3298.0	3231.8	3110.0	2967.4	2873.4	2821.2	2817.7	2856.0	2886.2	2895.4
25°	3670.3	3661.1	3568.3	3394.2	3177.3	3021.9	2931.4	2910.5	2943.0	2976.6	2988.2
27.5°	4106.5	4072.9	3962.7	3752.7	3472.0	3244.6	3105.4	3071.8	3103.1	3141.4	3153.0
30°	4538.0	4503.2	4372.2	4142.5	3830.4	3542.7	3343.2	3288.7	3332.8	3387.3	3394.2
32.5°	4969.6	4969.6	4823.4	4555.4	4215.6	3898.9	3659.9	3594.9	3668.0	3734.1	3749.2
35°	5485.8	5488.1	5346.6	5024.1	4658.7	4323.4	4060.1	4012.5	4122.7	4169.2	4205.1
37.5°	6120.3	6133.1	5951.0	5561.2	5161.0	4808.3	4495.1	4430.2	4540.4	4666.8	4782.8
40°	6805.9	6822.1	6621.5	6141.2	5741.0	5372.1	5033.4	4916.2	5099.5	5340.8	5490.4
42.5°	7460.2	7543.7	7350.0	6855.8	6425.4	6043.8	5700.4	5529.9	5759.6	6123.8	6253.7
45°	8405.6	8465.9	8128.3	7680.6	7275.7	6848.8	6394.1	6214.3	6535.6	6995.0	7021.7
47.5°	9035.5	8990.2	8818.6	8540.1	8283.8	7884.7	7200.3	7003.1	7430.0	7970.6	7820.9
50°	9370.7	9384.6	9361.4	9377.7	9387.0	9136.4	8188.7	7918.4	8427.6	9080.7	8736.2
52.5°	9683.9	9591.1	9667.7	10048.2	10507.6	10414.8	9264.0	8982.1	9497.2	10312.7	9703.7
55°	9677.0	9535.5	9784.9	10456.5	11453.0	11559.7	10471.6	10146.8	10628.2	11633.9	10729.1
57.5°	9334.8	9341.7	9725.7	10605.0	12111.9	12636.2	11872.9	11385.7	11827.7	12972.6	11665.3
60°	8863.8	8927.6	9480.9	10580.6	12639.7	13519.0	13592.1	12720.9	13002.8	14189.5	12440.2
62.5°	8104.0	8171.3	8934.6	10327.8	12559.7	14369.3	15146.5	14235.9	14231.3	14927.3	12667.5
65°	6905.7	6885.9	7687.5	9382.3	11888.0	14998.0	16690.5	15545.6	15157.0	14938.9	12210.5
67.5°	5092.5	5004.4	5692.3	7145.8	9881.1	14293.9	17598.8	16227.7	15472.5	13956.3	10813.8
70°	2642.5	2554.4	3111.2	4172.6	6498.5	11156.0	16593.1	15875.0	14775.3	11698.9	8471.7
72.5°	1129.9	1114.8	1341.0	1830.5	3143.7	6434.7	13010.9	13740.6	12678.0	8716.5	5824.5
75°	759.8	755.2	839.9	997.6	1414.1	2611.2	8142.3	9753.5	9275.6	5404.6	3275.9
77.5°	596.3	590.5	640.3	716.9	916.4	1030.1	3613.5	5236.4	4846.6	2352.5	1433.8
80°	466.3	461.7	493.0	534.8	658.9	649.6	1189.0	2083.4	1612.4	901.3	697.2
82.5°	367.7	367.7	393.3	394.4	467.5	443.1	620.6	917.6	805.1	525.5	426.9
85°	336.4	336.4	363.1	294.6	305.1	279.6	385.1	544.1	510.4	215.8	185.6
87.5°	169.4	164.7	305.1	261.0	165.9	148.5	187.9	263.3	283.0	119.5	92.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192252

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6	2961.6
2.5°	2947.6	2946.5	2948.8	2950.0	2959.2	2972.0	2977.8	2985.9	2990.6	2988.2
5°	2912.8	2915.2	2924.4	2931.4	2947.6	2968.5	2980.1	2989.4	2997.5	2994.0
7.5°	2883.8	2889.6	2903.6	2909.4	2918.6	2924.4	2923.3	2926.8	2933.7	2925.6
10°	2867.6	2874.6	2885.0	2876.9	2854.8	2823.5	2794.5	2779.4	2784.1	2778.3
12.5°	2851.4	2860.6	2852.5	2814.2	2752.8	2712.2	2690.1	2692.4	2702.9	2705.2
15°	2842.1	2845.6	2810.8	2738.8	2676.2	2670.4	2682.0	2679.7	2680.8	2680.8
17.5°	2842.1	2832.8	2767.8	2695.9	2669.2	2658.8	2622.8	2577.6	2557.9	2550.9
20°	2857.2	2832.8	2753.9	2706.4	2648.4	2559.0	2463.9	2380.4	2343.3	2332.8
22.5°	2902.4	2860.6	2793.4	2711.0	2546.3	2396.6	2245.8	2146.1	2078.8	2067.2
25°	2994.0	2947.6	2871.1	2649.5	2383.9	2170.4	1998.7	1887.4	1820.1	1810.8
27.5°	3154.1	3124.0	2912.8	2513.8	2168.1	1939.6	1780.6	1694.8	1644.9	1641.4
30°	3395.4	3380.3	2892.0	2313.1	1902.5	1715.7	1639.1	1589.2	1552.1	1551.0
32.5°	3780.5	3658.7	2823.5	2068.3	1660.0	1556.8	1525.4	1495.3	1466.3	1466.3
35°	4275.9	3883.8	2693.6	1806.2	1512.7	1468.6	1429.2	1381.6	1343.3	1341.0
37.5°	4858.2	4023.0	2460.4	1595.0	1443.1	1409.4	1351.4	1280.7	1213.4	1201.8
40°	5446.3	4064.7	2132.1	1465.1	1399.0	1350.3	1279.5	1196.0	1131.0	1127.5
42.5°	5985.8	3984.7	1784.1	1375.8	1354.9	1290.0	1215.7	1141.5	1090.4	1089.3
45°	6438.2	3777.1	1491.8	1291.1	1308.5	1235.4	1169.3	1109.0	1069.5	1061.4
47.5°	6863.9	3483.6	1286.5	1201.8	1262.1	1205.3	1149.6	1092.7	1054.5	1048.7
50°	7358.1	3166.9	1142.6	1114.8	1221.5	1194.8	1165.8	1106.7	1042.9	1035.9
52.5°	7956.7	2893.1	1030.1	1038.2	1190.2	1208.8	1207.6	1146.1	1034.7	1025.5
55°	8624.8	2589.2	945.4	975.6	1177.4	1234.3	1218.0	1183.2	1041.7	1027.8
57.5°	9282.6	2234.2	886.3	928.0	1158.9	1232.0	1168.2	1118.3	1057.9	1038.2
60°	9775.6	1757.4	841.0	886.3	1118.3	1193.7	1113.6	1047.5	1054.5	1039.4
62.5°	9808.1	1358.4	786.5	850.3	1056.8	1155.4	1077.7	1016.2	1069.5	1055.6
65°	9231.5	1026.6	734.3	807.4	990.7	1131.0	1042.9	998.8	1100.9	1085.8
67.5°	7772.2	825.9	690.2	763.3	924.5	1080.0	1011.5	982.5	1128.7	1102.0
70°	5611.1	704.1	647.3	709.9	865.4	1022.0	983.7	953.5	1053.3	1011.5
72.5°	3454.6	610.2	598.6	639.2	820.1	961.7	941.9	899.0	948.9	915.3
75°	1725.0	529.0	544.1	569.6	756.3	893.2	872.3	829.4	836.4	829.4
77.5°	825.9	452.4	480.3	500.0	674.0	815.5	793.5	749.4	741.3	742.4
80°	523.2	378.2	404.9	418.8	602.1	725.0	703.0	658.9	751.7	697.2
82.5°	327.1	307.4	314.4	339.9	524.3	631.1	602.1	562.6	677.5	535.9
85°	181.0	214.6	223.9	245.9	403.7	527.8	498.8	448.9	402.5	395.6
87.5°	107.9	127.6	131.1	147.3	271.4	381.7	337.6	320.2	265.6	264.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)