

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: P192354

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23292 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

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

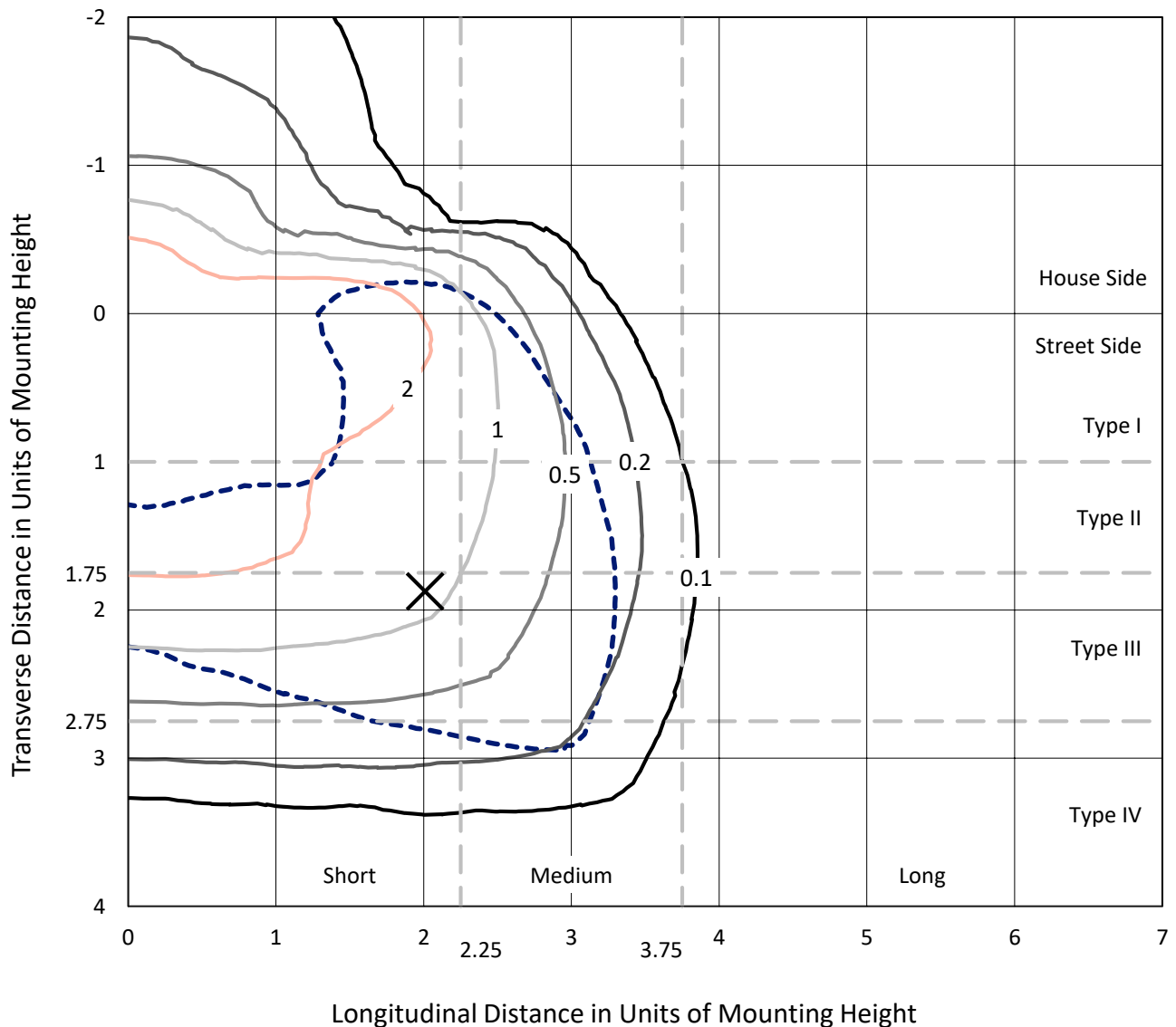


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

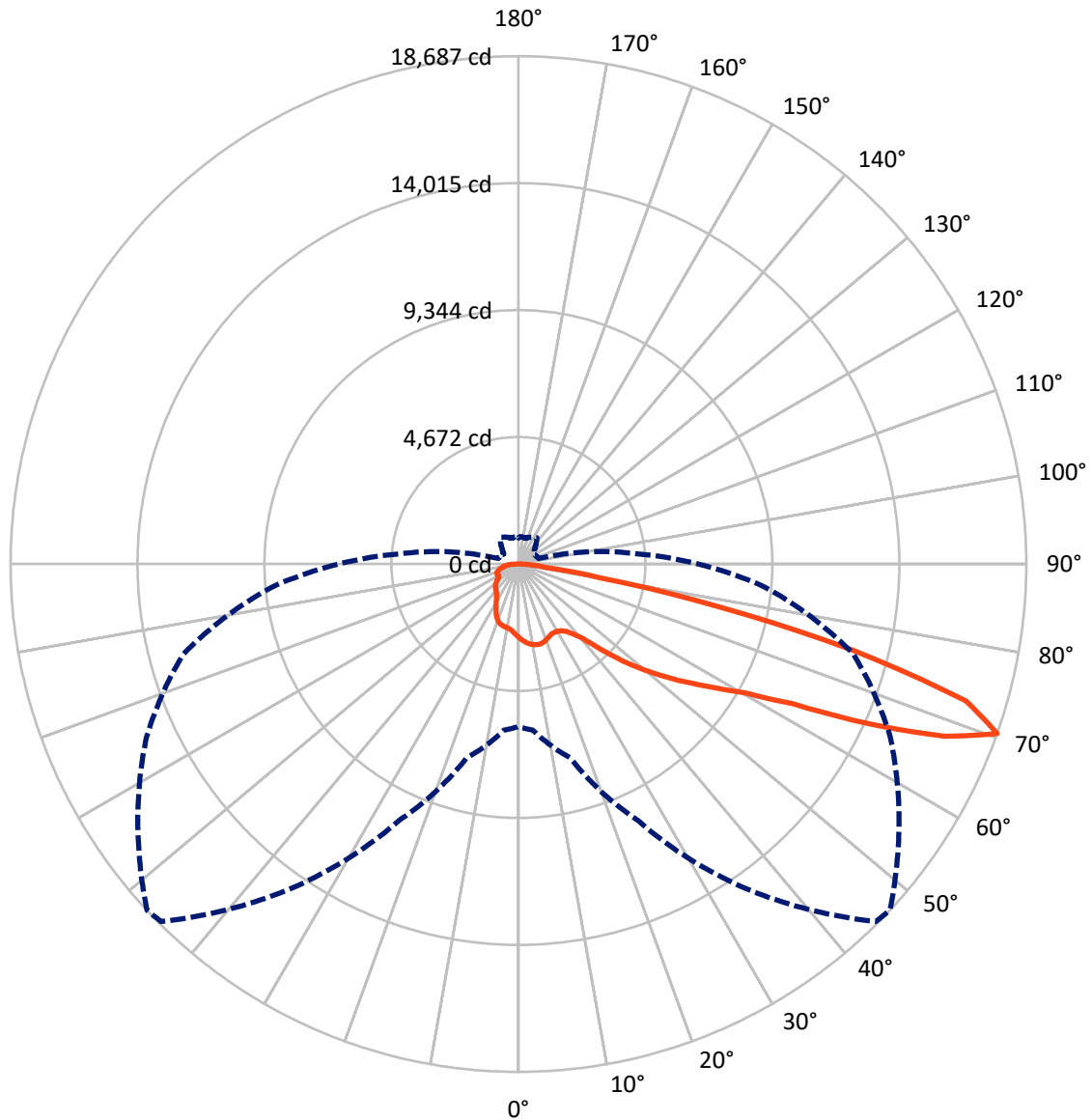


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4859.2	0.0	4859.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	18432.8	0.0	18432.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	23292.0	0.0	23292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	1.1
10°-20°	759.7	3.3
20°-30°	1121.9	4.8
30°-40°	1630.6	7.0
40°-50°	2934.6	12.6
50°-60°	5083.8	21.8
60°-70°	7256.1	31.2
70°-80°	3724.9	16.0
80°-90°	521.5	2.2
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°	23292.0	100.0
0°-180°	23292.0	100.0

Coefficient of Utilization



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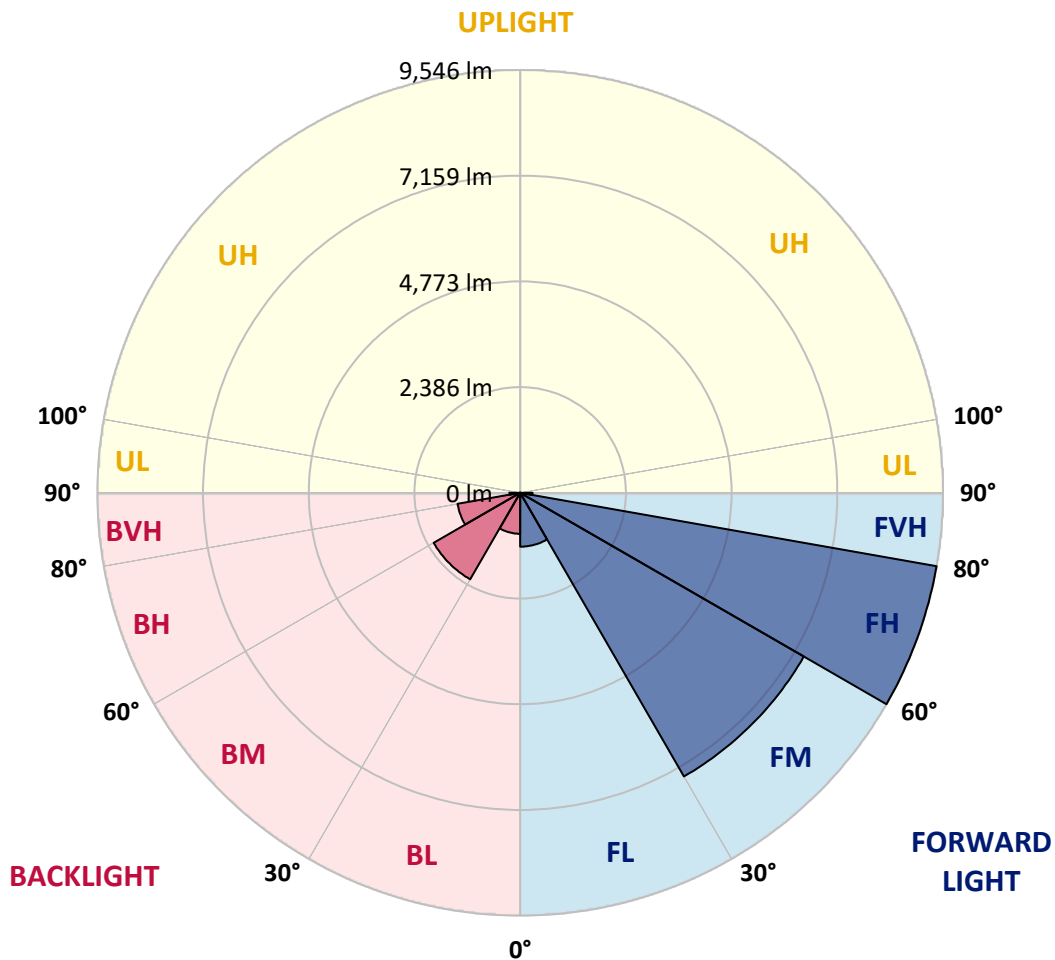
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1215.3	5.2			
FM	(30°-60°)	7393.5	31.7			
FH	(60°-80°)	9545.7	41.0			G4/12000
FVH	(80°-90°)	278.3	1.2			G3/500
BL	(0°-30°)	925.2	4.0	B2/1000		
BM	(30°-60°)	2255.5	9.7	B2/2500		
BH	(60°-80°)	1435.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	243.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6
2.5°	2861.2	2855.6	2853.3	2848.8	2843.1	2814.8	2809.1	2788.7	2760.4	2730.9	2700.3
5°	3049.3	3048.2	3035.7	3013.1	2976.8	2914.5	2899.8	2849.9	2783.1	2718.5	2653.9
7.5°	3214.8	3204.6	3180.8	3135.5	3072.0	2987.0	2966.6	2897.5	2805.7	2717.3	2630.1
10°	3336.0	3330.4	3278.2	3215.9	3133.2	3039.1	3015.4	2938.3	2837.4	2725.3	2616.5
12.5°	3405.2	3393.8	3333.8	3259.0	3160.4	3068.6	3044.8	2966.6	2853.3	2725.3	2597.2
15°	3400.6	3392.7	3332.6	3251.0	3151.3	3070.9	3049.3	2971.2	2849.9	2713.9	2572.3
17.5°	3310.0	3313.4	3262.4	3181.9	3100.3	3039.1	3019.9	2947.4	2827.2	2691.3	2542.8
20°	3151.3	3167.2	3133.2	3061.8	3016.5	2974.6	2962.1	2900.9	2792.1	2658.4	2511.1
22.5°	2992.7	3007.4	2993.8	2933.8	2927.0	2902.0	2895.2	2851.0	2761.5	2638.0	2491.8
25°	2876.0	2889.6	2887.3	2835.2	2855.6	2854.4	2848.8	2827.2	2754.7	2638.0	2495.2
27.5°	2844.2	2848.8	2844.2	2796.6	2825.0	2847.6	2843.1	2839.7	2775.1	2670.9	2538.3
30°	2953.0	2946.2	2911.1	2814.8	2840.8	2872.6	2868.0	2870.3	2836.3	2757.0	2634.6
32.5°	3387.0	3356.4	3245.4	2974.6	2905.4	2922.4	2924.7	2962.1	2967.8	2889.6	2784.2
35°	4036.3	4002.3	3858.4	3402.9	3106.0	3047.1	3047.1	3103.7	3137.7	3079.9	3016.5
37.5°	4724.2	4686.8	4609.7	3996.7	3527.5	3263.5	3257.8	3297.5	3346.2	3359.8	3375.7
40°	5506.0	5466.4	5487.9	4663.0	4115.7	3638.6	3558.1	3529.8	3661.3	3748.5	3875.4
42.5°	6361.6	6343.5	6351.4	5405.2	4785.4	4199.5	4085.1	3938.9	4097.5	4252.8	4519.1
45°	7153.7	7169.5	7161.6	6199.5	5531.0	4883.9	4762.7	4479.4	4634.6	4900.9	5334.9
47.5°	7847.2	7781.4	7883.4	7067.5	6366.1	5650.0	5500.4	5120.8	5278.3	5606.9	6341.2
50°	8689.1	8680.0	8530.5	8225.6	7375.8	6419.4	6223.3	5783.7	6028.4	6485.1	7609.2
52.5°	9574.1	9409.8	9272.7	9126.5	8446.6	7208.1	6967.8	6444.3	6910.0	7484.6	9154.8
55°	9755.4	9681.8	9851.7	10097.6	9478.9	8027.3	7747.4	7272.6	7902.7	8626.8	10937.3
57.5°	10143.0	10141.8	10493.1	10931.6	10541.8	8896.5	8614.3	8273.2	9018.9	9935.6	12829.7
60°	10404.7	10478.4	11131.1	11982.1	11585.5	9900.5	9641.0	9427.9	10288.0	11398.5	14592.9
62.5°	10541.8	10641.5	11532.2	12408.2	13060.9	11571.9	11312.4	11005.3	11967.3	13003.1	15624.1
65°	9971.8	10167.9	11469.9	12776.4	14352.7	14281.3	14164.6	13625.2	14067.1	14271.1	15251.3
67.5°	8394.5	8595.1	10111.2	12433.1	15275.1	16894.3	16919.3	15998.0	15358.9	14379.9	12822.9
70°	5980.8	6138.4	7392.8	10424.0	14572.5	18602.0	18687.0	17091.5	15101.7	12752.6	8958.8
72.5°	2839.7	2936.0	4123.6	6784.3	11563.9	17043.9	17208.2	15695.5	12841.0	9441.5	4887.3
75°	1043.6	1073.1	1393.8	2886.2	6707.2	12569.1	12762.8	11251.2	8512.3	4700.4	1861.8
77.5°	625.5	644.8	781.9	1218.2	2638.0	7184.3	7471.0	6119.1	3720.2	1749.6	915.6
80°	437.4	451.0	560.9	758.1	1246.5	2737.7	2992.7	2497.5	1482.2	1107.1	666.3
82.5°	295.8	302.6	394.3	512.2	828.3	977.9	1055.0	1110.5	999.5	823.8	422.7
85°	193.8	200.6	267.4	337.7	526.9	505.4	516.7	653.8	729.8	559.8	234.6
87.5°	111.1	115.6	160.9	180.2	258.4	214.2	216.4	344.5	466.9	377.3	142.8
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°	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6	2702.6
2.5°	2692.4	2677.7	2644.8	2624.4	2605.1	2600.6	2592.7	2591.5	2590.4	2590.4	2587.0
5°	2632.3	2607.4	2556.4	2528.1	2504.3	2502.0	2500.9	2506.6	2508.8	2511.1	2507.7
7.5°	2593.8	2559.8	2496.4	2455.6	2427.2	2420.4	2431.8	2457.8	2474.8	2481.6	2478.2
10°	2570.0	2528.1	2454.4	2410.2	2386.4	2383.0	2397.8	2428.4	2463.5	2477.1	2476.0
12.5°	2542.8	2495.2	2417.0	2370.6	2357.0	2363.8	2383.0	2411.4	2447.6	2469.2	2470.3
15°	2515.6	2460.1	2379.6	2338.9	2333.2	2342.3	2360.4	2381.9	2410.2	2431.8	2434.0
17.5°	2482.8	2425.0	2344.5	2302.6	2298.1	2302.6	2303.7	2315.1	2333.2	2353.6	2359.2
20°	2447.6	2388.7	2304.9	2262.9	2242.5	2224.4	2204.0	2206.3	2211.9	2232.3	2236.9
22.5°	2422.7	2363.8	2274.3	2216.5	2162.1	2107.7	2066.9	2061.2	2063.5	2080.5	2086.2
25°	2425.0	2362.6	2266.3	2166.6	2047.6	1960.4	1906.0	1896.9	1895.8	1908.2	1916.2
27.5°	2469.2	2406.8	2295.8	2115.6	1923.0	1793.8	1736.0	1729.2	1720.1	1723.5	1732.6
30°	2567.8	2510.0	2367.2	2063.5	1788.1	1630.6	1570.6	1563.8	1551.3	1545.6	1552.4
32.5°	2728.7	2681.1	2471.4	2013.6	1653.3	1491.2	1430.1	1415.3	1407.4	1400.6	1406.3
35°	2996.1	2975.7	2610.8	1959.2	1534.3	1383.6	1328.1	1305.4	1294.1	1306.5	1315.6
37.5°	3415.4	3426.7	2793.3	1874.3	1442.5	1312.2	1265.7	1239.7	1222.7	1232.9	1243.1
40°	4009.1	4017.1	2995.0	1754.1	1363.2	1270.3	1220.4	1196.6	1172.8	1154.7	1153.6
42.5°	4788.8	4708.3	3193.3	1623.8	1271.4	1244.2	1188.7	1159.2	1123.0	1073.1	1062.9
45°	5713.4	5431.3	3344.0	1474.2	1168.3	1212.5	1153.6	1112.8	1056.1	1001.7	996.1
47.5°	6778.6	6207.5	3417.6	1319.0	1072.0	1166.0	1110.5	1045.9	974.5	947.3	943.9
50°	8079.5	7128.7	3452.8	1168.3	988.1	1104.8	1048.2	972.3	912.2	906.5	903.1
52.5°	9560.5	8237.0	3464.1	1044.8	919.0	1025.5	997.2	923.5	875.9	880.5	880.5
55°	11110.7	9381.5	3310.0	955.3	855.5	943.9	963.2	904.3	864.6	882.7	889.5
57.5°	12533.9	10395.7	2825.0	886.1	795.5	881.6	950.7	922.4	895.2	968.9	973.4
60°	13626.3	10995.1	2110.0	823.8	751.3	860.1	983.6	991.5	998.3	1174.0	1197.8
62.5°	13855.2	10795.7	1450.5	775.1	730.9	878.2	1043.6	1044.8	1036.8	1159.2	1174.0
65°	12804.8	9534.4	1055.0	747.9	713.9	911.1	1094.6	1070.8	1018.7	1111.6	1084.4
67.5°	10169.0	7183.1	878.2	727.5	689.0	908.8	1149.0	1094.6	1008.5	1089.0	1044.8
70°	6600.7	4343.4	781.9	710.5	659.5	865.7	1180.8	1092.4	979.1	1013.0	960.9
72.5°	3220.5	1942.2	717.3	685.6	628.9	805.7	1179.6	1072.0	948.5	946.2	917.9
75°	1260.1	889.5	658.4	648.2	576.8	737.7	1147.9	1042.5	912.2	875.9	865.7
77.5°	737.7	634.6	583.6	592.6	514.5	669.7	1101.4	991.5	862.3	819.3	807.9
80°	537.1	474.8	497.5	512.2	439.7	601.7	1039.1	929.2	806.8	828.3	812.5
82.5°	344.5	306.0	403.4	418.1	366.0	532.6	971.1	863.5	728.6	661.8	645.9
85°	175.6	193.8	300.3	318.4	282.2	437.4	888.4	776.2	640.2	550.7	559.8
87.5°	98.6	132.6	191.5	214.2	199.4	336.5	720.7	640.2	522.4	424.9	373.9
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)