

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: P193294

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193294
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 22527.1 lumens
Efficiency: N/A
Efficacy: 116.7 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

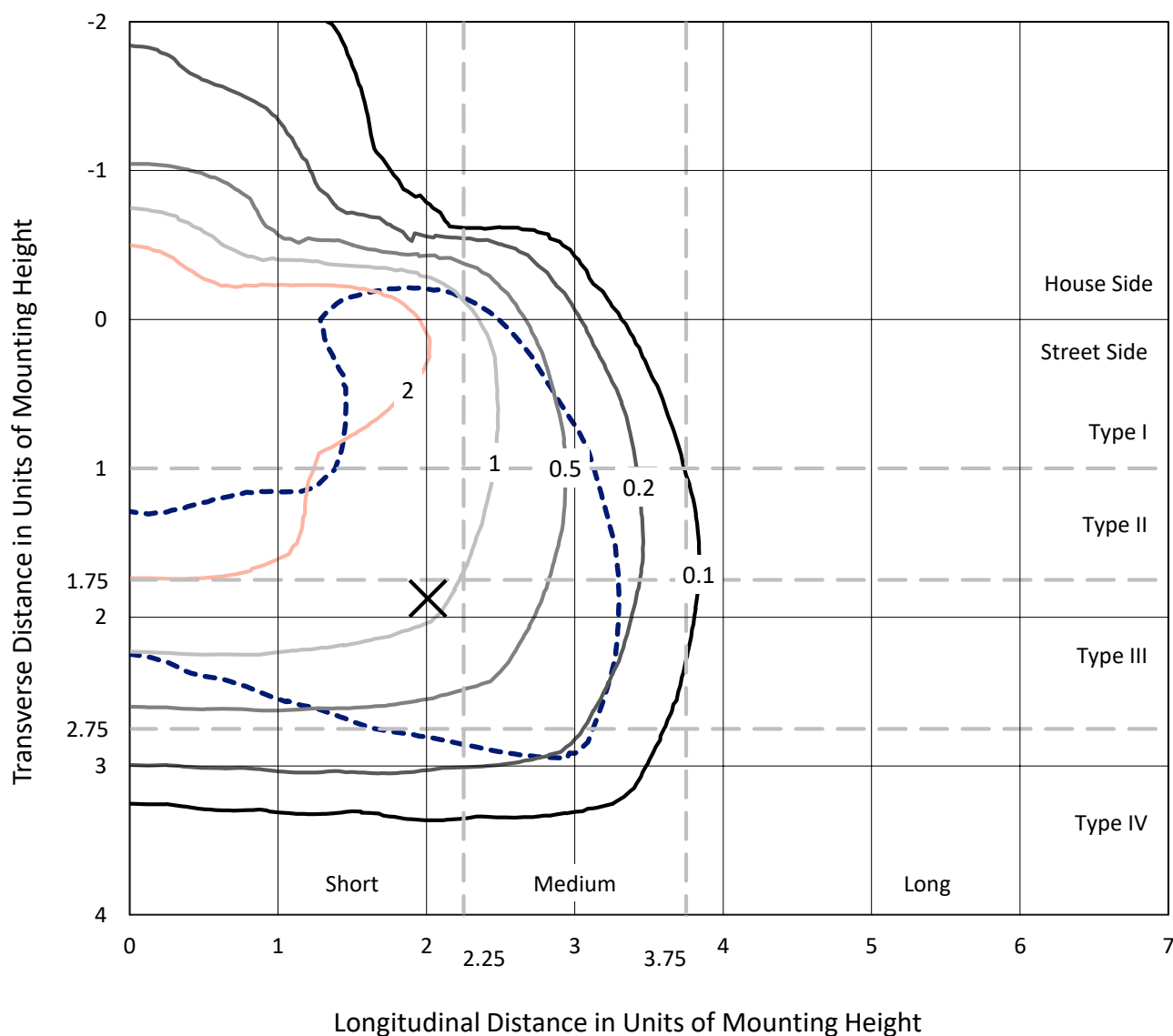


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

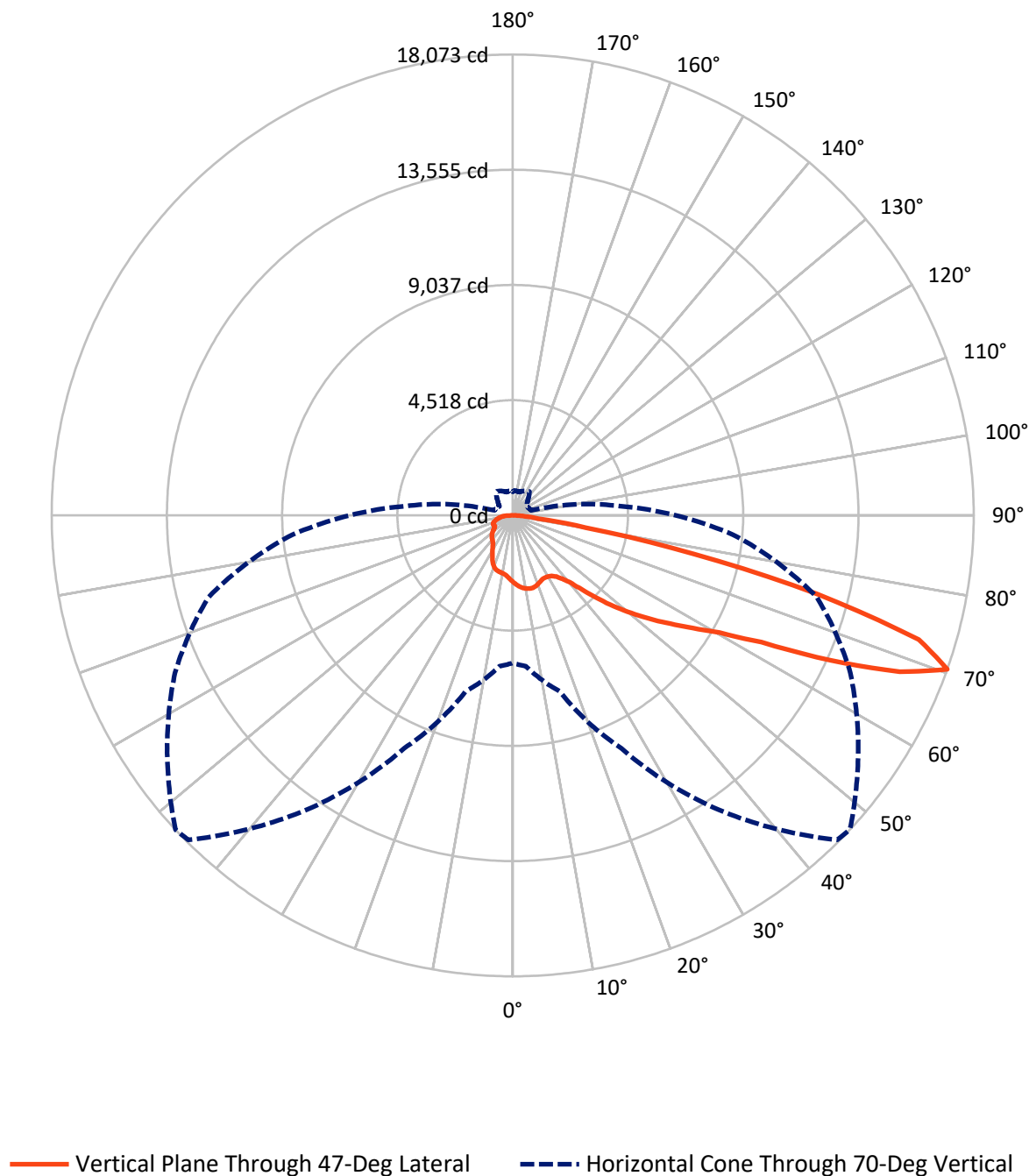


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4699.6	0.0	4699.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	17827.5	0.0	17827.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	22527.1	0.0	22527.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	1.1
10°-20°	734.8	3.3
20°-30°	1085.0	4.8
30°-40°	1577.1	7.0
40°-50°	2838.2	12.6
50°-60°	4916.9	21.8
60°-70°	7017.8	31.2
70°-80°	3602.5	16.0
80°-90°	504.4	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°	22527.1	100.0
0°-180°	22527.1	100.0

Coefficient of Utilization



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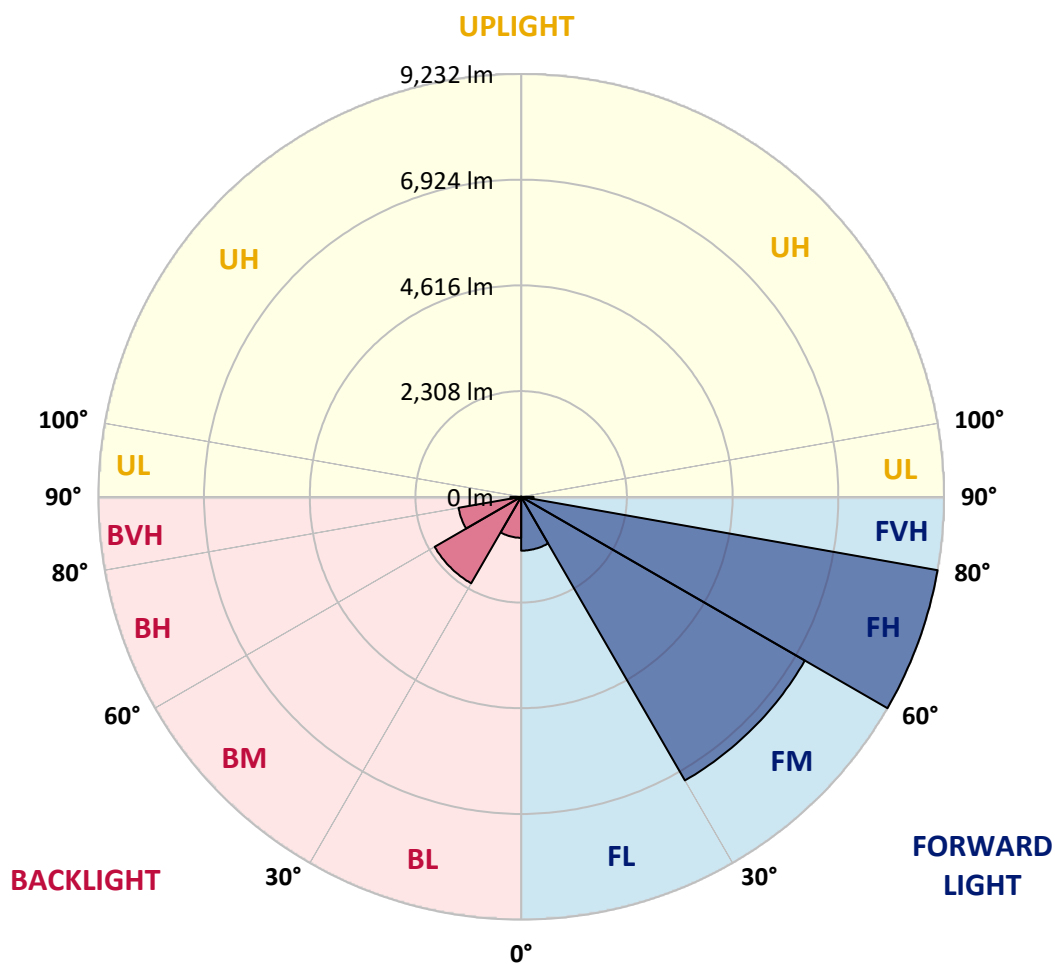
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1175.4	5.2			
FM	(30°-60°)	7150.7	31.7			
FH	(60°-80°)	9232.2	41.0			G4/12000
FVH	(80°-90°)	269.1	1.2			G3/500
BL	(0°-30°)	894.8	4.0	B2/1000		
BM	(30°-60°)	2181.4	9.7	B2/2500		
BH	(60°-80°)	1388.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	235.2	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°	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8
2.5°	2767.3	2761.7	2759.6	2755.2	2749.7	2722.3	2716.8	2697.2	2669.8	2641.3	2611.7
5°	2949.2	2948.2	2936.1	2914.2	2879.1	2818.8	2804.5	2756.3	2691.6	2629.3	2566.7
7.5°	3109.2	3099.3	3076.3	3032.5	2971.1	2889.0	2869.1	2802.4	2713.6	2628.1	2543.7
10°	3226.4	3221.0	3170.6	3110.3	3030.3	2939.3	2916.3	2841.9	2744.3	2635.8	2530.6
12.5°	3293.3	3282.3	3224.2	3151.9	3056.6	2967.8	2944.9	2869.1	2759.6	2635.8	2511.9
15°	3288.9	3281.3	3223.1	3144.3	3047.8	2970.0	2949.2	2873.6	2756.3	2624.9	2487.9
17.5°	3201.3	3204.6	3155.2	3077.4	2998.5	2939.3	2920.7	2850.6	2734.4	2602.9	2459.3
20°	3047.8	3063.2	3030.3	2961.3	2917.4	2876.9	2864.8	2805.7	2700.5	2571.1	2428.7
22.5°	2894.4	2908.7	2895.5	2837.5	2830.8	2806.8	2800.2	2757.3	2670.9	2551.4	2410.0
25°	2781.5	2794.7	2792.4	2742.1	2761.7	2760.7	2755.2	2734.4	2664.3	2551.4	2413.3
27.5°	2750.8	2755.2	2750.8	2704.8	2732.2	2754.1	2749.7	2746.4	2684.0	2583.1	2454.9
30°	2856.0	2849.5	2815.5	2722.3	2747.6	2778.3	2773.9	2776.1	2743.2	2666.5	2548.0
32.5°	3275.8	3246.2	3138.8	2876.9	2810.0	2826.4	2828.6	2864.8	2870.2	2794.7	2692.8
35°	3903.8	3870.9	3731.7	3291.1	3004.0	2947.0	2947.0	3001.8	3034.6	2978.9	2917.4
37.5°	4569.0	4532.8	4458.4	3865.4	3411.7	3156.4	3150.8	3189.2	3236.4	3249.5	3264.8
40°	5325.2	5286.8	5307.7	4509.7	3980.6	3519.1	3441.3	3414.0	3541.0	3625.4	3748.1
42.5°	6152.7	6135.1	6142.8	5227.7	4628.2	4061.6	3951.0	3809.6	3963.0	4113.1	4370.7
45°	6918.8	6934.0	6926.4	5995.9	5349.4	4723.5	4606.3	4332.2	4482.5	4740.0	5159.8
47.5°	7589.4	7525.9	7624.5	6835.5	6157.1	5464.4	5319.8	4952.6	5104.9	5422.7	6132.9
50°	8403.7	8394.9	8250.2	7955.5	7133.5	6208.5	6019.0	5593.7	5830.5	6272.1	7359.2
52.5°	9259.7	9100.8	8968.1	8826.8	8169.2	6971.3	6739.0	6232.7	6683.1	7238.8	8854.2
55°	9435.1	9363.8	9528.2	9766.0	9167.6	7763.8	7493.0	7033.8	7643.1	8343.5	10578.2
57.5°	9809.9	9808.8	10148.5	10572.6	10195.6	8604.2	8331.4	8001.5	8722.7	9609.3	12408.3
60°	10063.0	10134.3	10765.6	11588.6	11205.0	9575.4	9324.3	9118.3	9950.1	11024.1	14113.7
62.5°	10195.6	10292.1	11153.5	12000.7	12631.9	11191.9	10940.9	10643.8	11574.4	12576.1	15111.0
65°	9644.4	9834.0	11093.2	12356.9	13881.3	13812.2	13699.4	13177.8	13605.2	13802.4	14750.4
67.5°	8118.8	8312.8	9779.1	12024.7	14773.4	16339.5	16363.6	15472.6	14854.6	13907.6	12401.8
70°	5784.4	5936.7	7150.0	10081.7	14093.9	17991.1	18073.3	16530.3	14605.8	12333.8	8664.6
72.5°	2746.4	2839.6	3988.2	6561.4	11184.3	16484.2	16643.1	15180.1	12419.3	9131.5	4726.9
75°	1009.3	1037.9	1348.0	2791.3	6486.9	12156.3	12343.7	10881.6	8232.8	4545.9	1800.6
77.5°	605.0	623.6	756.2	1178.2	2551.4	6948.4	7225.7	5918.1	3598.0	1692.1	885.5
80°	423.1	436.2	542.5	733.2	1205.5	2647.8	2894.4	2415.5	1433.5	1070.7	644.4
82.5°	286.0	292.6	381.5	495.4	801.1	945.8	1020.4	1074.0	966.6	796.7	408.7
85°	187.4	193.9	258.6	326.5	509.5	488.8	499.8	632.4	705.9	541.4	226.8
87.5°	107.4	111.8	155.5	174.3	249.8	207.1	209.3	333.1	451.6	364.9	138.1
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°	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8	2613.8
2.5°	2603.9	2589.8	2558.0	2538.2	2519.6	2515.2	2507.5	2506.4	2505.4	2505.4	2502.0
5°	2545.8	2521.8	2472.4	2445.1	2422.1	2419.9	2418.8	2424.3	2426.4	2428.7	2425.3
7.5°	2508.6	2475.7	2414.4	2375.0	2347.6	2341.0	2352.0	2377.2	2393.6	2400.1	2396.8
10°	2485.6	2445.1	2373.8	2331.0	2308.1	2304.9	2319.0	2348.6	2382.6	2395.7	2394.6
12.5°	2459.3	2413.3	2337.7	2292.7	2279.5	2286.1	2304.9	2332.1	2367.2	2388.1	2389.2
15°	2432.9	2379.3	2301.5	2262.0	2256.5	2265.4	2282.9	2303.7	2331.0	2352.0	2354.1
17.5°	2401.2	2345.4	2267.5	2226.9	2222.6	2226.9	2228.1	2239.0	2256.5	2276.3	2281.8
20°	2367.2	2310.3	2229.2	2188.6	2168.9	2151.4	2131.6	2133.9	2139.3	2159.1	2163.5
22.5°	2343.2	2286.1	2199.6	2143.6	2091.1	2038.4	1999.0	1993.6	1995.7	2012.1	2017.7
25°	2345.4	2285.0	2191.8	2095.5	1980.5	1895.9	1843.4	1834.6	1833.5	1845.6	1853.2
27.5°	2388.1	2327.8	2220.3	2046.1	1859.8	1734.9	1679.0	1672.4	1663.7	1667.0	1675.7
30°	2483.5	2427.5	2289.4	1995.7	1729.3	1577.0	1519.0	1512.3	1500.3	1494.8	1501.4
32.5°	2639.0	2593.0	2390.3	1947.5	1599.0	1442.2	1383.1	1368.8	1361.2	1354.6	1360.1
35°	2897.7	2878.0	2525.1	1894.9	1484.0	1338.2	1284.5	1262.5	1251.6	1263.6	1272.5
37.5°	3303.2	3314.2	2701.6	1812.7	1395.1	1269.1	1224.1	1199.0	1182.5	1192.3	1202.3
40°	3877.5	3885.2	2896.6	1696.6	1318.4	1228.5	1180.3	1157.3	1134.3	1116.7	1115.6
42.5°	4631.5	4553.7	3088.4	1570.5	1229.6	1203.4	1149.6	1121.1	1086.0	1037.9	1028.0
45°	5525.8	5252.8	3234.2	1425.9	1130.0	1172.7	1115.6	1076.2	1021.5	968.8	963.3
47.5°	6556.0	6003.6	3305.4	1275.7	1036.8	1127.8	1074.0	1011.5	942.5	916.2	913.0
50°	7814.1	6894.6	3339.4	1130.0	955.7	1068.5	1013.7	940.2	882.3	876.8	873.4
52.5°	9246.5	7966.4	3350.3	1010.4	888.9	991.8	964.4	893.2	847.2	851.5	851.5
55°	10745.7	9073.3	3201.3	923.9	827.4	913.0	931.6	874.6	836.2	853.8	860.3
57.5°	12122.4	10054.2	2732.2	857.0	769.4	852.7	919.5	892.1	865.8	937.0	941.4
60°	13178.9	10633.9	2040.6	796.7	726.6	831.8	951.3	959.0	965.6	1135.4	1158.3
62.5°	13400.2	10441.2	1402.8	749.6	706.9	849.4	1009.3	1010.4	1002.8	1121.1	1135.4
65°	12384.2	9221.4	1020.4	723.3	690.4	881.1	1058.7	1035.7	985.3	1075.1	1048.8
67.5°	9835.1	6947.2	849.4	703.6	666.4	879.0	1111.2	1058.7	975.3	1053.3	1010.4
70°	6383.9	4200.8	756.2	687.1	637.8	837.3	1142.0	1056.5	947.0	979.7	929.4
72.5°	3114.7	1878.5	693.7	663.1	608.2	779.2	1140.8	1036.8	917.3	915.1	887.7
75°	1218.7	860.3	636.8	626.9	557.9	713.5	1110.2	1008.3	882.3	847.2	837.3
77.5°	713.5	613.7	564.5	573.2	497.5	647.7	1065.3	959.0	833.9	792.3	781.4
80°	519.5	459.2	481.1	495.4	425.2	582.0	1004.9	898.6	780.3	801.1	785.8
82.5°	333.1	295.9	390.2	404.4	354.0	515.0	939.2	835.1	704.7	640.0	624.8
85°	169.9	187.4	290.4	308.0	272.9	423.1	859.3	750.7	619.2	532.6	541.4
87.5°	95.4	128.3	185.2	207.1	192.9	325.5	697.1	619.2	505.3	411.1	361.6
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)