

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: P193312

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193312
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-04-LED-E1-T4W-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23061.3 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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



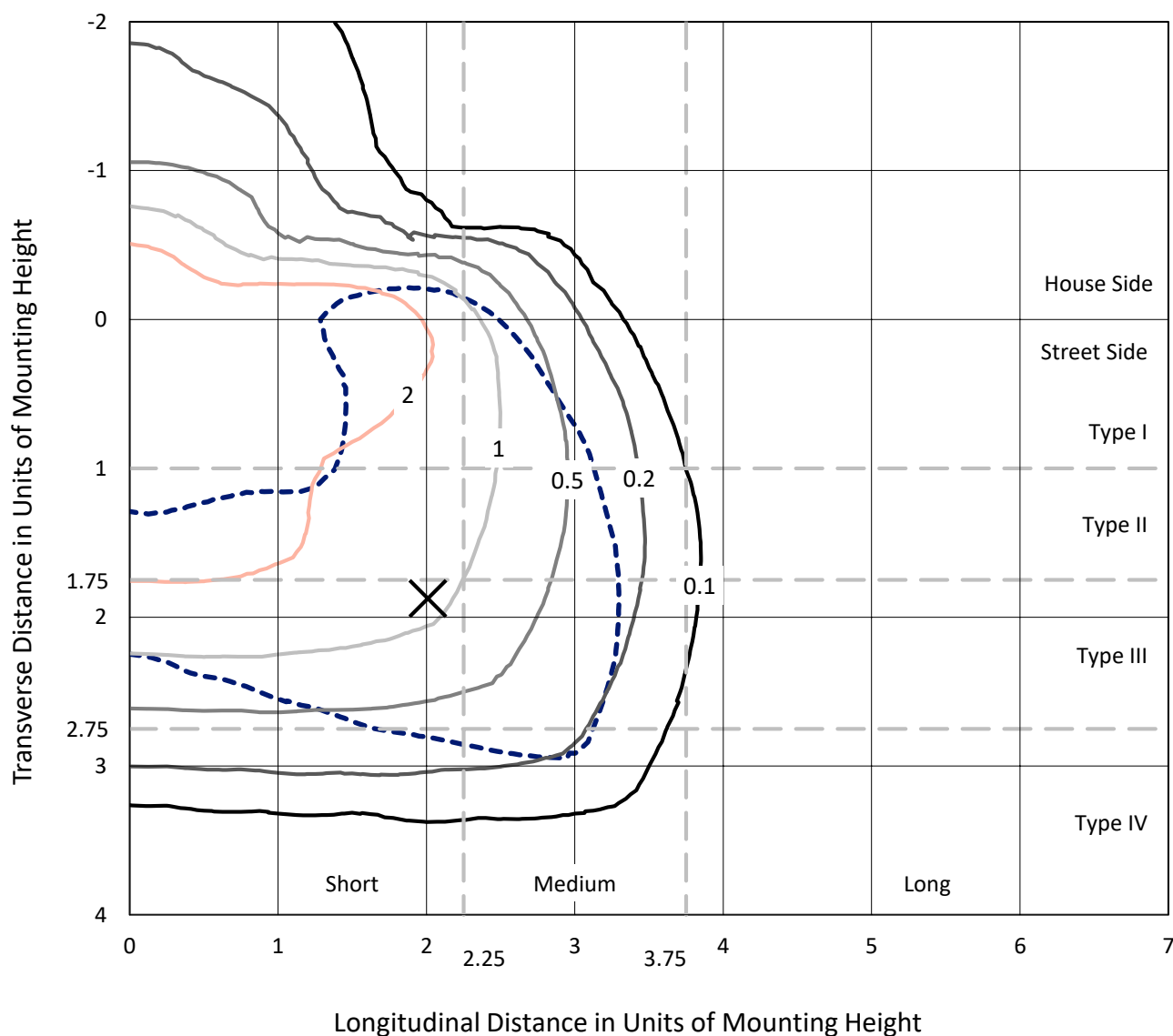
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

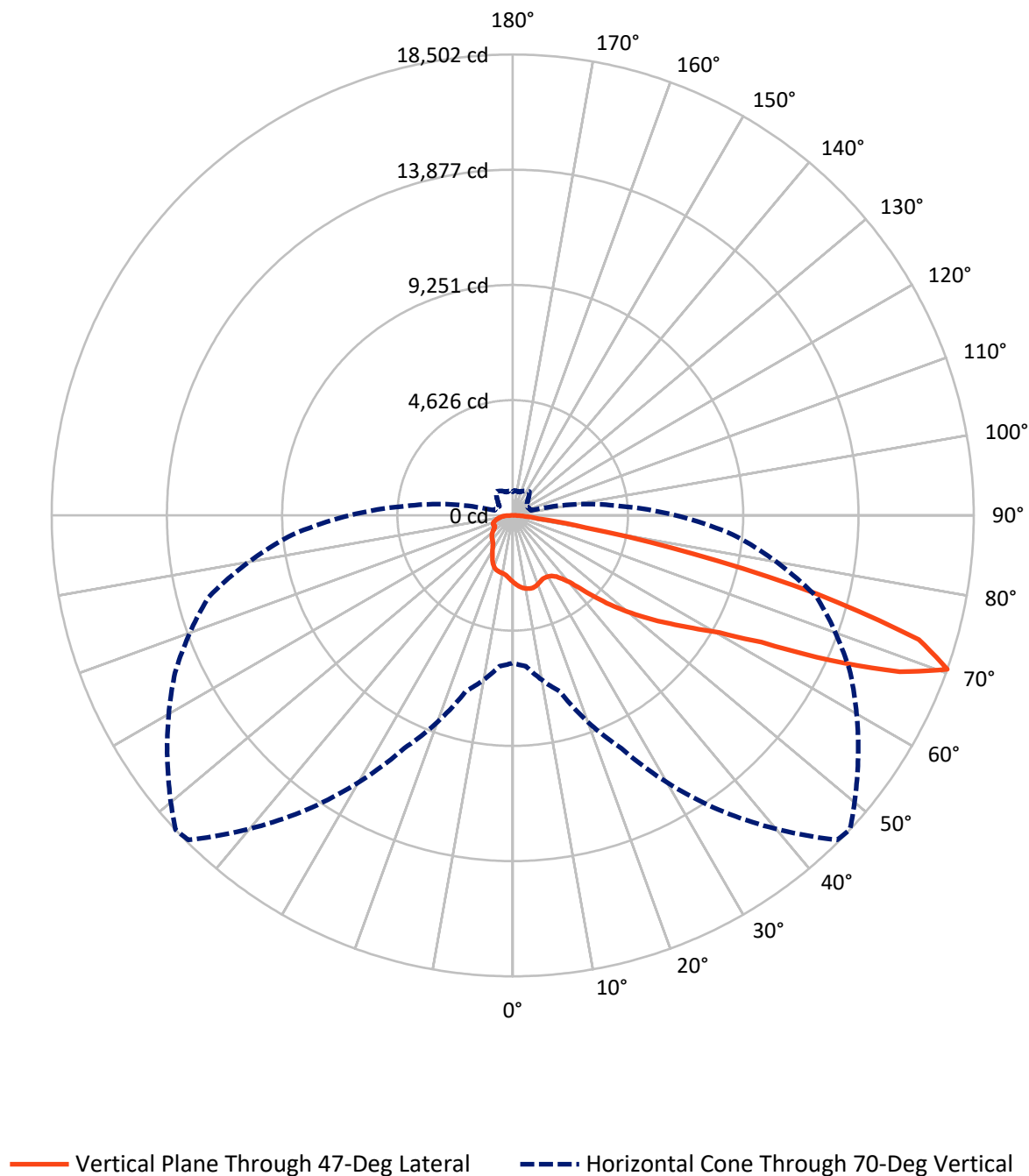


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4811.0	0.0	4811.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	18250.3	0.0	18250.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	23061.3	0.0	23061.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	1.1
10°-20°	752.2	3.3
20°-30°	1110.8	4.8
30°-40°	1614.5	7.0
40°-50°	2905.5	12.6
50°-60°	5033.5	21.8
60°-70°	7184.2	31.2
70°-80°	3688.0	16.0
80°-90°	516.3	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°	23061.3	100.0
0°-180°	23061.3	100.0

Coefficient of Utilization



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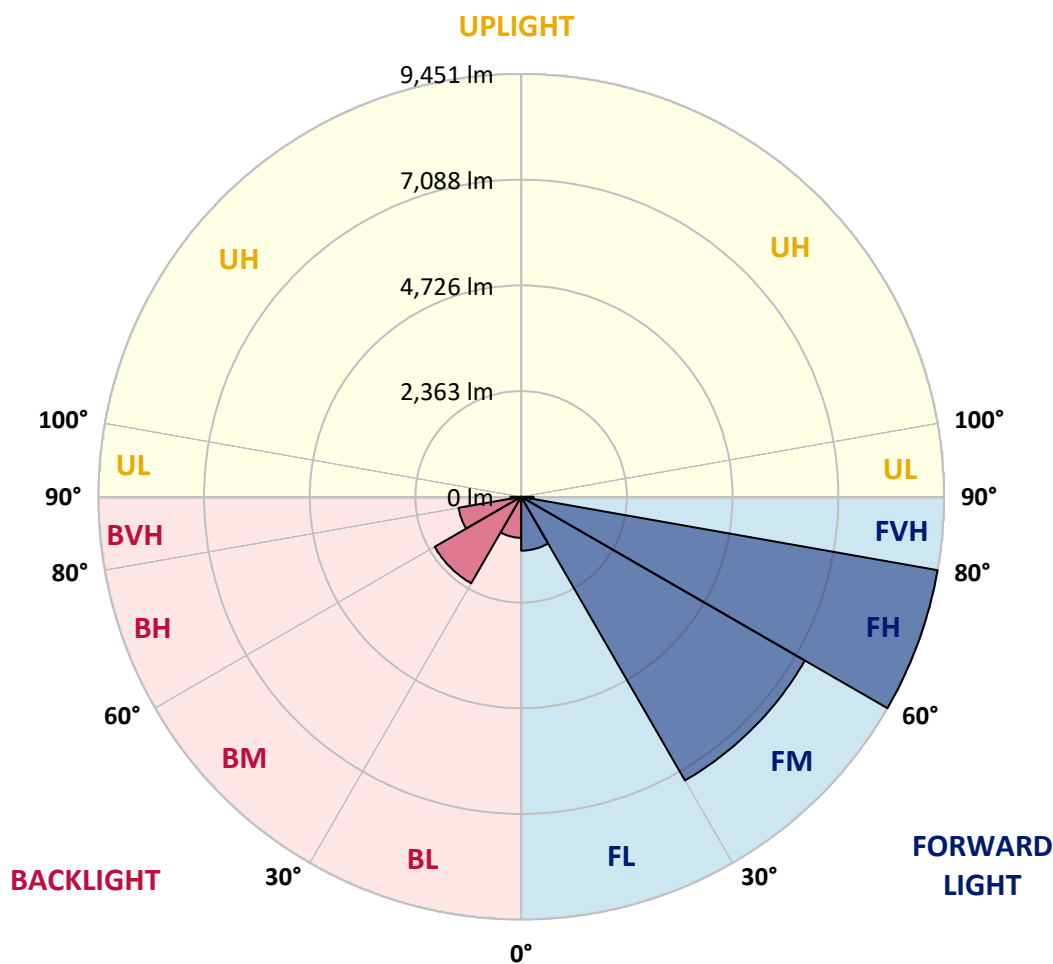
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1203.3	5.2			
FM	(30°-60°)	7320.3	31.7			
FH	(60°-80°)	9451.2	41.0			G4/12000
FVH	(80°-90°)	275.5	1.2			G3/500
BL	(0°-30°)	916.0	4.0	B2/1000		
BM	(30°-60°)	2233.1	9.7	B2/2500		
BH	(60°-80°)	1421.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	240.8	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°	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9
2.5°	2832.9	2827.3	2825.0	2820.5	2814.9	2786.8	2781.3	2761.1	2733.0	2703.8	2673.6
5°	3019.2	3018.1	3005.7	2983.3	2947.4	2885.6	2871.0	2821.7	2755.5	2691.5	2627.5
7.5°	3182.9	3172.9	3149.3	3104.4	3041.6	2957.4	2937.2	2868.8	2777.9	2690.4	2603.9
10°	3303.0	3297.5	3245.8	3184.1	3102.2	3009.0	2985.5	2909.2	2809.4	2698.2	2590.5
12.5°	3371.4	3360.3	3300.7	3226.8	3129.0	3038.2	3014.7	2937.2	2825.0	2698.2	2571.5
15°	3367.0	3359.0	3299.6	3218.9	3120.1	3040.4	3019.2	2941.7	2821.7	2687.0	2546.9
17.5°	3277.2	3280.5	3230.0	3150.4	3069.6	3009.0	2990.0	2918.2	2799.2	2664.7	2517.7
20°	3120.1	3135.8	3102.2	3031.5	2986.6	2945.1	2932.7	2872.2	2764.5	2632.0	2486.2
22.5°	2963.0	2977.7	2964.2	2904.6	2898.0	2873.3	2866.5	2822.8	2734.2	2611.9	2467.2
25°	2847.6	2861.0	2858.7	2807.1	2827.3	2826.2	2820.5	2799.2	2727.4	2611.9	2470.6
27.5°	2816.0	2820.5	2816.0	2768.9	2797.0	2819.4	2814.9	2811.6	2747.7	2644.4	2513.2
30°	2923.8	2917.0	2882.3	2786.8	2812.7	2844.1	2839.6	2841.9	2808.2	2729.8	2608.6
32.5°	3353.5	3323.2	3213.2	2945.1	2876.7	2893.5	2895.7	2932.7	2938.4	2861.0	2756.6
35°	3996.3	3962.8	3820.2	3369.2	3075.2	3016.8	3016.8	3073.0	3106.7	3049.4	2986.6
37.5°	4677.4	4640.3	4564.1	3957.1	3492.6	3231.3	3225.6	3264.8	3313.1	3326.5	3342.2
40°	5451.5	5412.2	5433.6	4616.8	4075.0	3602.6	3522.9	3494.8	3625.0	3711.4	3837.0
42.5°	6298.6	6280.7	6288.5	5351.6	4737.9	4158.0	4044.6	3899.9	4056.9	4210.7	4474.2
45°	7082.8	7098.6	7090.7	6138.1	5476.2	4835.6	4715.5	4435.1	4588.8	4852.4	5282.1
47.5°	7769.4	7704.4	7805.4	6997.5	6303.0	5594.0	5445.9	5070.0	5226.0	5551.4	6278.4
50°	8603.1	8594.2	8446.0	8144.1	7302.8	6355.8	6161.6	5726.4	5968.8	6420.8	7533.9
52.5°	9479.4	9316.6	9180.8	9036.2	8362.9	7136.7	6898.8	6380.5	6841.6	7410.4	9064.1
55°	9658.8	9585.9	9754.1	9997.7	9385.1	7947.8	7670.8	7200.6	7824.4	8541.4	10829.0
57.5°	10042.6	10041.4	10389.3	10823.4	10437.4	8808.4	8529.0	8191.2	8929.5	9837.1	12702.6
60°	10301.7	10374.6	11020.9	11863.5	11470.8	9802.4	9545.6	9334.6	10186.1	11285.6	14448.3
62.5°	10437.4	10536.2	11418.0	12285.3	12931.5	11457.3	11200.3	10896.3	11848.8	12874.3	15469.4
65°	9873.1	10067.1	11356.3	12649.9	14210.6	14139.9	14024.3	13490.2	13927.9	14129.7	15100.2
67.5°	8311.4	8509.9	10011.1	12309.9	15123.7	16727.0	16751.7	15839.7	15206.8	14237.5	12695.9
70°	5921.7	6077.5	7319.6	10320.7	14428.2	18417.9	18502.0	16922.3	14952.1	12626.3	8870.1
72.5°	2811.6	2907.0	4082.8	6717.0	11449.4	16875.2	17037.8	15540.1	12713.9	9348.0	4839.0
75°	1033.3	1062.4	1380.0	2857.5	6640.8	12444.6	12636.5	11139.7	8428.0	4653.8	1843.3
77.5°	619.3	638.4	774.1	1206.1	2611.9	7113.1	7397.0	6058.5	3683.3	1732.3	906.6
80°	433.1	446.6	555.4	750.6	1234.1	2710.6	2963.0	2472.7	1467.5	1096.1	659.7
82.5°	292.9	299.6	390.4	507.1	820.1	968.2	1044.5	1099.4	989.6	815.6	418.5
85°	191.9	198.7	264.7	334.4	521.7	500.4	511.6	647.4	722.5	554.3	232.2
87.5°	110.0	114.4	159.3	178.4	255.7	212.1	214.2	341.1	462.2	373.5	141.4
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°	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9
2.5°	2665.7	2651.1	2618.6	2598.4	2579.4	2574.9	2567.0	2565.9	2564.8	2564.8	2561.4
5°	2606.3	2581.6	2531.1	2503.0	2479.5	2477.2	2476.2	2481.8	2484.0	2486.2	2482.8
7.5°	2568.1	2534.5	2471.7	2431.2	2403.1	2396.5	2407.6	2433.5	2450.3	2457.0	2453.8
10°	2544.5	2503.0	2430.2	2386.3	2362.8	2359.5	2373.9	2404.4	2439.1	2452.6	2451.4
12.5°	2517.7	2470.6	2393.1	2347.1	2333.7	2340.4	2359.5	2387.6	2423.4	2444.6	2445.9
15°	2490.7	2435.7	2356.0	2315.6	2310.1	2319.0	2337.0	2358.4	2386.3	2407.6	2409.9
17.5°	2458.3	2401.0	2321.3	2279.8	2275.4	2279.8	2280.9	2292.2	2310.1	2330.3	2335.9
20°	2423.4	2365.0	2282.0	2240.5	2220.3	2202.3	2182.1	2184.4	2190.0	2210.2	2214.6
22.5°	2398.7	2340.4	2251.8	2194.5	2140.7	2086.9	2046.4	2040.9	2043.0	2059.9	2065.5
25°	2401.0	2339.2	2243.8	2145.2	2027.3	1941.0	1887.1	1878.1	1877.0	1889.3	1897.2
27.5°	2444.6	2383.1	2273.0	2094.7	1904.0	1776.0	1718.8	1712.1	1703.2	1706.5	1715.5
30°	2542.4	2485.1	2343.7	2043.0	1770.4	1614.6	1555.0	1548.3	1535.9	1530.2	1537.1
32.5°	2701.7	2654.6	2447.0	1993.7	1636.9	1476.5	1415.9	1401.4	1393.5	1386.7	1392.3
35°	2966.4	2946.1	2585.0	1939.8	1519.1	1369.9	1314.9	1292.4	1281.3	1293.6	1302.6
37.5°	3381.6	3392.7	2765.6	1855.7	1428.2	1299.2	1253.2	1227.4	1210.6	1220.7	1230.8
40°	3969.4	3977.2	2965.3	1736.7	1349.7	1257.7	1208.3	1184.8	1161.2	1143.3	1142.1
42.5°	4741.3	4661.6	3161.6	1607.7	1258.7	1231.9	1176.9	1147.8	1111.8	1062.4	1052.3
45°	5656.8	5377.5	3310.9	1459.6	1156.7	1200.4	1142.1	1101.8	1045.6	991.7	986.2
47.5°	6711.5	6146.1	3383.8	1305.9	1061.4	1154.5	1099.4	1035.6	964.9	938.0	934.6
50°	7999.4	7058.1	3418.6	1156.7	978.3	1093.9	1037.8	962.6	903.1	897.6	894.2
52.5°	9465.7	8155.4	3429.7	1034.4	909.9	1015.3	987.2	914.4	867.3	871.8	871.8
55°	11000.7	9288.5	3277.2	945.7	847.1	934.6	953.7	895.3	856.0	874.0	880.7
57.5°	12409.7	10292.7	2797.0	877.4	787.6	872.9	941.3	913.3	886.3	959.3	963.7
60°	13491.4	10886.3	2089.0	815.6	743.8	851.5	973.8	981.7	988.5	1162.3	1185.9
62.5°	13718.0	10688.8	1436.1	767.4	723.7	869.4	1033.3	1034.4	1026.6	1147.8	1162.3
65°	12678.0	9440.0	1044.5	740.4	706.8	902.1	1083.8	1060.3	1008.7	1100.7	1073.7
67.5°	10068.4	7112.0	869.4	720.2	682.1	899.7	1137.6	1083.8	998.5	1078.2	1034.4
70°	6535.4	4300.5	774.1	703.4	653.0	857.1	1169.1	1081.5	969.3	1003.0	951.4
72.5°	3188.5	1923.0	710.1	678.8	622.7	797.7	1168.0	1061.4	939.1	936.8	908.8
75°	1247.6	880.7	651.8	641.8	571.1	730.4	1136.6	1032.2	903.1	867.3	857.1
77.5°	730.4	628.2	577.8	586.7	509.3	663.1	1090.5	981.7	853.8	811.1	800.0
80°	531.8	470.2	492.5	507.1	435.3	595.8	1028.7	920.0	798.8	820.1	804.4
82.5°	341.1	302.9	399.5	414.0	362.4	527.2	961.5	855.0	721.4	655.2	639.5
85°	173.9	191.9	297.3	315.2	279.3	433.1	879.6	768.5	633.9	545.3	554.3
87.5°	97.6	131.2	189.6	212.1	197.4	333.2	713.6	633.9	517.3	420.7	370.3
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)