

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: P194095

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194095
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-07-LED-E1-T4W-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 22478 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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

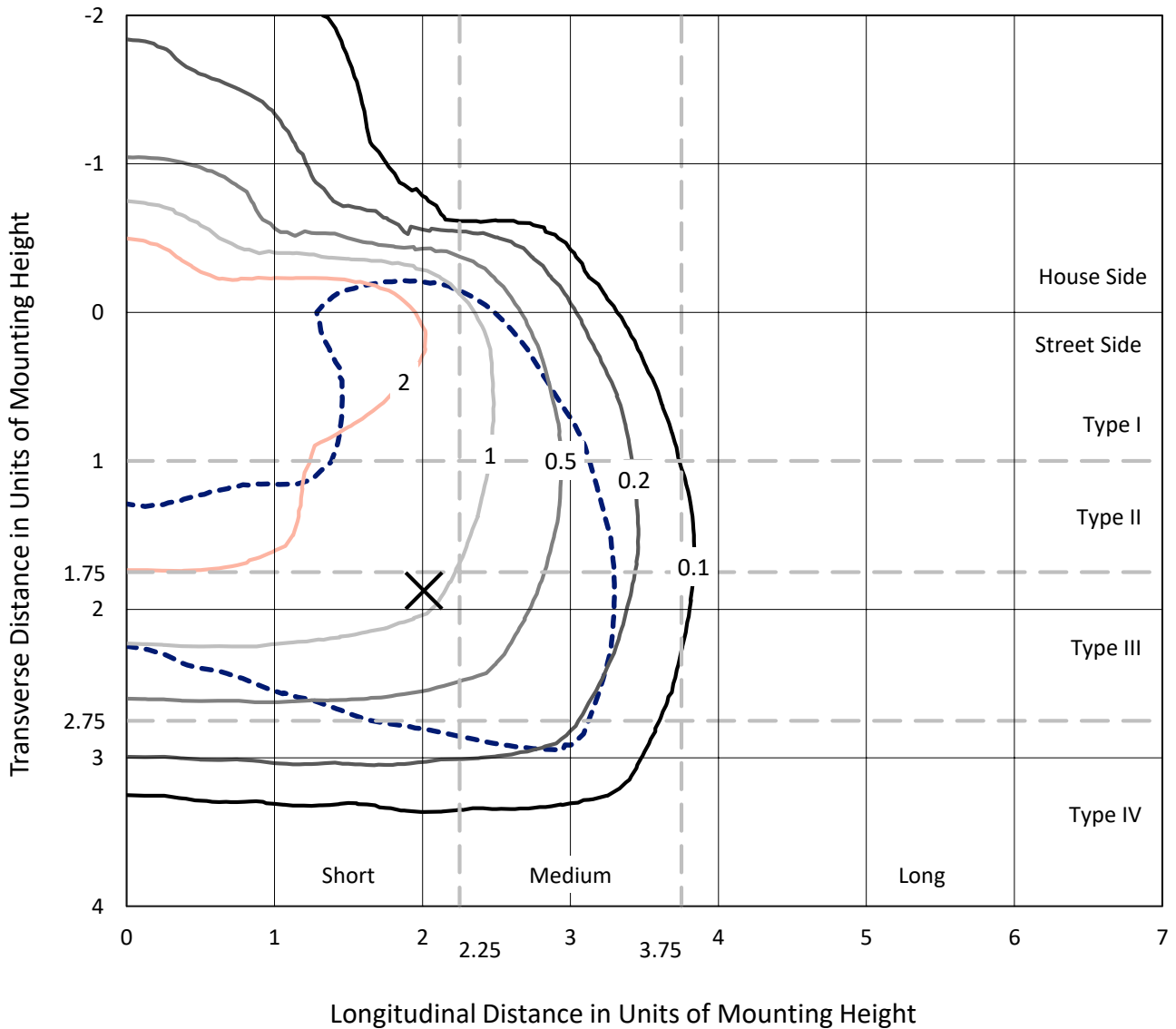


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

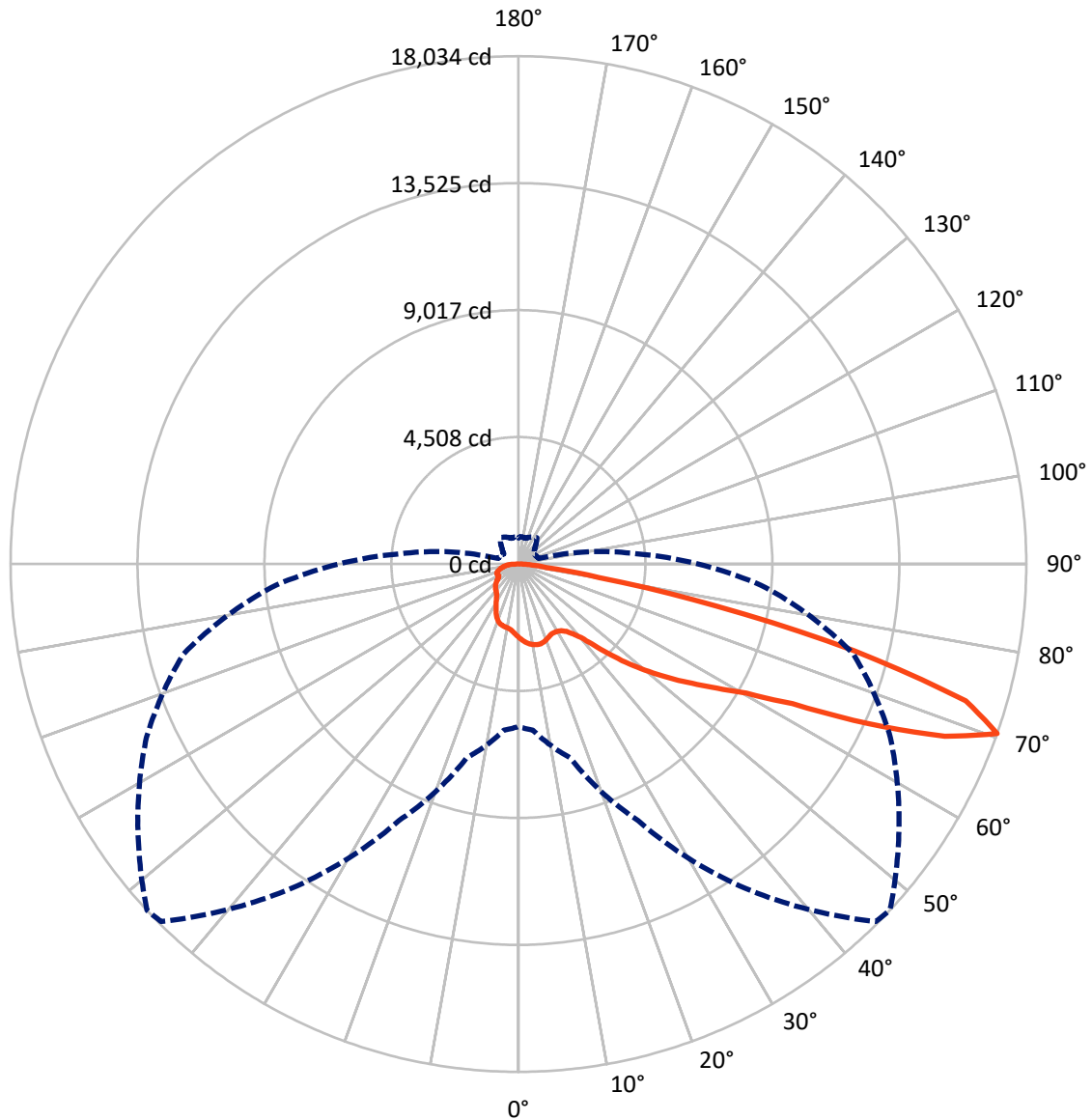


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4689.4	0.0	4689.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	17788.6	0.0	17788.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	22478.0	0.0	22478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	1.1
10°-20°	733.2	3.3
20°-30°	1082.7	4.8
30°-40°	1573.6	7.0
40°-50°	2832.0	12.6
50°-60°	4906.2	21.8
60°-70°	7002.5	31.2
70°-80°	3594.7	16.0
80°-90°	503.3	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°	22478.0	100.0
0°-180°	22478.0	100.0

Coefficient of Utilization



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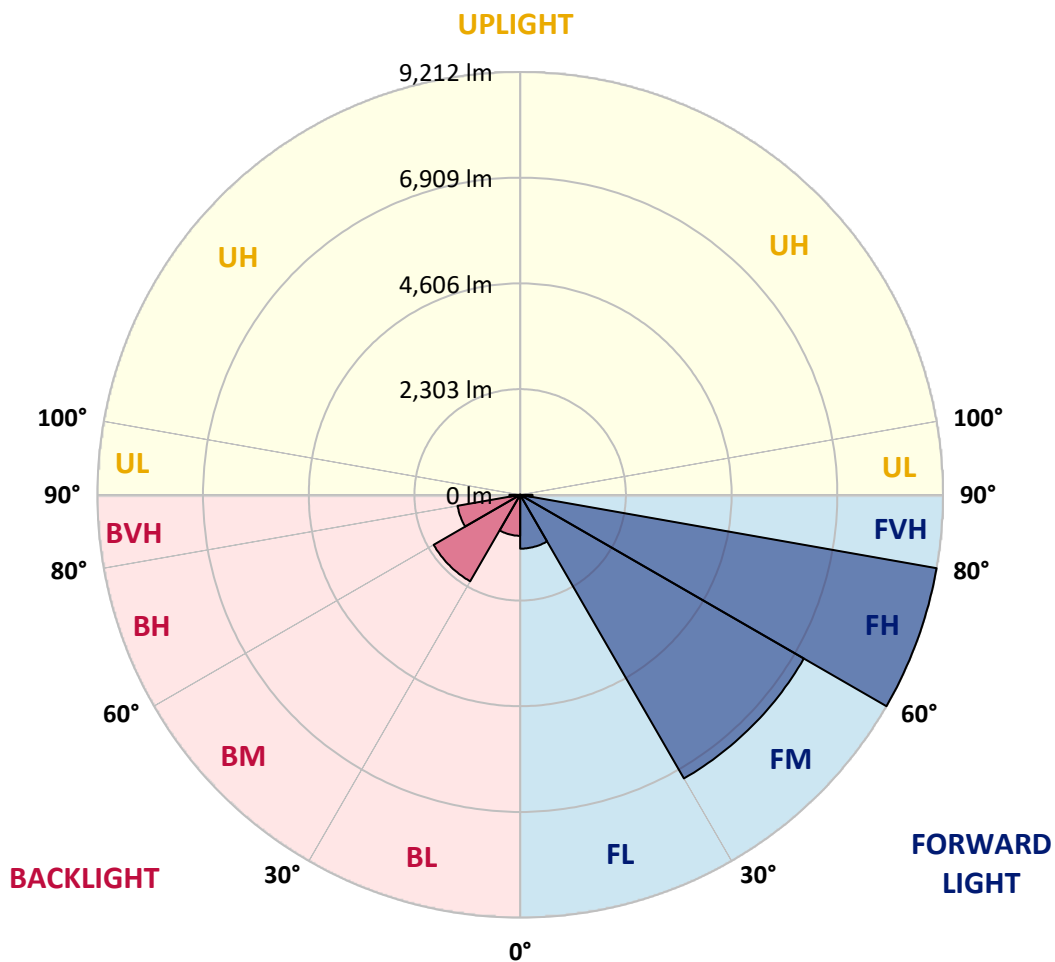
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1172.9	5.2			
FM	(30°-60°)	7135.1	31.7			
FH	(60°-80°)	9212.1	41.0			G4/12000
FVH	(80°-90°)	268.5	1.2			G3/500
BL	(0°-30°)	892.9	4.0	B2/1000		
BM	(30°-60°)	2176.7	9.7	B2/2500		
BH	(60°-80°)	1385.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	234.7	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°	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1
2.5°	2761.2	2755.8	2753.6	2749.2	2743.7	2716.4	2710.9	2691.3	2663.9	2635.5	2606.0
5°	2942.8	2941.7	2929.7	2907.8	2872.8	2812.6	2798.4	2750.3	2685.8	2623.5	2561.1
7.5°	3102.4	3092.6	3069.6	3025.9	2964.6	2882.6	2862.9	2796.2	2707.7	2622.4	2538.2
10°	3219.4	3214.0	3163.7	3103.5	3023.7	2932.9	2910.0	2835.6	2738.3	2630.0	2525.0
12.5°	3286.2	3275.2	3217.3	3145.1	3049.9	2961.4	2938.4	2862.9	2753.6	2630.0	2506.4
15°	3281.8	3274.1	3216.2	3137.4	3041.2	2963.6	2942.8	2867.3	2750.3	2619.1	2482.4
17.5°	3194.3	3197.6	3148.4	3070.7	2992.0	2932.9	2914.3	2844.4	2728.4	2597.2	2454.0
20°	3041.2	3056.5	3023.7	2954.8	2911.1	2870.6	2858.6	2799.5	2694.5	2565.5	2423.3
22.5°	2888.1	2902.3	2889.2	2831.2	2824.7	2800.6	2794.1	2751.4	2665.0	2545.8	2404.7
25°	2775.5	2788.6	2786.4	2736.1	2755.8	2754.7	2749.2	2728.4	2658.5	2545.8	2408.0
27.5°	2744.8	2749.2	2744.8	2698.9	2726.3	2748.1	2743.7	2740.5	2678.1	2577.5	2449.6
30°	2849.8	2843.3	2809.4	2716.4	2741.6	2772.2	2767.8	2770.0	2737.2	2660.6	2542.5
32.5°	3268.7	3239.1	3132.0	2870.6	2803.9	2820.3	2822.5	2858.6	2864.0	2788.6	2686.9
35°	3895.3	3862.5	3723.6	3284.0	2997.5	2940.6	2940.6	2995.3	3028.1	2972.3	2911.1
37.5°	4559.1	4523.0	4448.6	3857.0	3404.3	3149.5	3144.0	3182.3	3229.3	3242.4	3257.7
40°	5313.6	5275.3	5296.1	4500.0	3971.8	3511.4	3433.8	3406.4	3533.3	3617.5	3740.0
42.5°	6139.3	6121.8	6129.4	5216.3	4618.1	4052.7	3942.3	3801.2	3954.3	4104.1	4361.1
45°	6903.7	6919.0	6911.3	5982.9	5337.7	4713.3	4596.2	4322.9	4472.7	4729.7	5148.5
47.5°	7572.9	7509.5	7607.9	6820.6	6143.6	5452.5	5308.2	4941.8	5093.8	5410.9	6119.6
50°	8385.4	8376.7	8232.3	7938.2	7118.0	6195.0	6005.8	5581.5	5817.8	6258.5	7343.3
52.5°	9239.5	9080.9	8948.6	8807.6	8151.4	6956.2	6724.3	6219.1	6668.5	7223.0	8834.9
55°	9414.5	9343.4	9507.4	9744.7	9147.7	7746.8	7476.7	7018.5	7626.5	8325.3	10555.1
57.5°	9788.5	9787.4	10126.4	10549.6	10173.4	8585.6	8313.3	7984.1	8703.7	9588.4	12381.3
60°	10041.1	10112.2	10742.1	11563.3	11180.6	9554.5	9304.0	9098.4	9928.5	11000.2	14082.9
62.5°	10173.4	10269.7	11129.2	11974.5	12604.4	11167.5	10917.0	10620.7	11549.1	12548.6	15078.0
65°	9623.4	9812.5	11069.0	12329.9	13851.1	13782.2	13669.5	13149.0	13575.5	13772.3	14718.3
67.5°	8101.1	8294.7	9757.9	11998.6	14741.2	16303.9	16328.0	15438.9	14822.2	13877.3	12374.8
70°	5771.8	5923.8	7134.4	10059.7	14063.2	17951.9	18033.9	16494.2	14573.9	12307.0	8645.7
72.5°	2740.5	2833.4	3979.5	6547.2	11159.8	16448.3	16606.8	15146.9	12392.3	9111.6	4716.5
75°	1007.2	1035.6	1345.1	2785.3	6472.8	12129.8	12316.8	10858.0	8214.8	4536.1	1796.7
77.5°	603.6	622.2	754.6	1175.6	2545.8	6933.2	7209.9	5905.2	3590.2	1688.5	883.6
80°	422.1	435.2	541.3	731.6	1202.9	2642.0	2888.1	2410.2	1430.4	1068.4	643.0
82.5°	285.4	292.0	380.6	494.3	799.4	943.7	1018.1	1071.7	964.5	795.0	407.9
85°	187.0	193.6	258.1	325.9	508.5	487.7	498.7	631.0	704.3	540.2	226.4
87.5°	107.2	111.5	155.3	173.9	249.3	206.7	208.9	332.4	450.5	364.2	137.8
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°	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1	2608.1
2.5°	2598.3	2584.1	2552.4	2532.7	2514.1	2509.7	2502.1	2501.0	2499.9	2499.9	2496.6
5°	2540.3	2516.3	2467.1	2439.7	2416.8	2414.6	2413.5	2419.0	2421.1	2423.3	2420.1
7.5°	2503.2	2470.4	2409.1	2369.8	2342.4	2335.9	2346.8	2371.9	2388.3	2394.9	2391.6
10°	2480.2	2439.7	2368.7	2326.0	2303.0	2299.8	2314.0	2343.5	2377.4	2390.5	2389.4
12.5°	2454.0	2408.0	2332.6	2287.7	2274.6	2281.2	2299.8	2327.1	2362.1	2382.9	2384.0
15°	2427.7	2374.1	2296.5	2257.1	2251.6	2260.4	2277.9	2298.7	2326.0	2346.8	2349.0
17.5°	2396.0	2340.2	2262.6	2222.1	2217.7	2222.1	2223.2	2234.1	2251.6	2271.3	2276.8
20°	2362.1	2305.2	2224.3	2183.8	2164.2	2146.7	2127.0	2129.2	2134.6	2154.3	2158.7
22.5°	2338.0	2281.2	2194.8	2139.0	2086.5	2034.0	1994.7	1989.2	1991.4	2007.8	2013.2
25°	2340.2	2280.1	2187.1	2090.9	1976.1	1891.9	1839.4	1830.6	1829.5	1841.6	1849.2
27.5°	2382.9	2322.7	2215.6	2041.7	1855.8	1731.1	1675.3	1668.8	1660.0	1663.3	1672.1
30°	2478.0	2422.2	2284.5	1991.4	1725.6	1573.6	1515.7	1509.1	1497.1	1491.6	1498.2
32.5°	2633.3	2587.4	2385.1	1943.3	1595.5	1439.1	1380.1	1365.9	1358.2	1351.6	1357.1
35°	2891.4	2871.7	2519.6	1890.8	1480.7	1335.2	1281.7	1259.8	1248.8	1260.9	1269.6
37.5°	3296.0	3306.9	2695.6	1808.8	1392.1	1266.3	1221.5	1196.4	1180.0	1189.8	1199.6
40°	3869.0	3876.7	2890.3	1692.8	1315.6	1225.9	1177.8	1154.8	1131.8	1114.3	1113.2
42.5°	4621.4	4543.8	3081.7	1567.1	1227.0	1200.7	1147.1	1118.7	1083.7	1035.6	1025.8
45°	5513.7	5241.4	3227.1	1422.7	1127.5	1170.1	1113.2	1073.9	1019.2	966.7	961.2
47.5°	6541.7	5990.5	3298.2	1272.9	1034.5	1125.3	1071.7	1009.4	940.5	914.2	910.9
50°	7797.1	6879.6	3332.1	1127.5	953.6	1066.2	1011.5	938.3	880.3	874.9	871.6
52.5°	9226.4	7949.1	3343.0	1008.3	886.9	989.7	962.3	891.3	845.3	849.7	849.7
55°	10722.4	9053.6	3194.3	921.9	825.6	910.9	929.5	872.7	834.4	851.9	858.4
57.5°	12095.9	10032.3	2726.3	855.2	767.7	850.8	917.5	890.2	863.9	935.0	939.4
60°	13150.1	10610.8	2036.2	795.0	725.0	830.0	949.2	956.9	963.4	1132.9	1155.9
62.5°	13371.0	10418.4	1399.8	748.0	705.3	847.5	1007.2	1008.3	1000.6	1118.7	1132.9
65°	12357.3	9201.2	1018.1	721.8	688.9	879.2	1056.4	1033.4	983.1	1072.8	1046.5
67.5°	9813.6	6932.1	847.5	702.1	664.9	877.0	1108.9	1056.4	973.3	1050.9	1008.3
70°	6370.0	4191.6	754.6	685.7	636.5	835.5	1139.5	1054.2	944.8	977.6	927.3
72.5°	3107.9	1874.4	692.2	661.6	606.9	777.5	1138.4	1034.5	915.3	913.1	885.8
75°	1216.0	858.4	635.4	625.5	556.6	711.9	1107.8	1006.1	880.3	845.3	835.5
77.5°	711.9	612.4	563.2	571.9	496.5	646.3	1062.9	956.9	832.2	790.6	779.7
80°	518.3	458.2	480.1	494.3	424.3	580.7	1002.8	896.7	778.6	799.4	784.1
82.5°	332.4	295.3	389.3	403.5	353.2	514.0	937.2	833.3	703.2	638.6	623.3
85°	169.5	187.0	289.8	307.3	272.3	422.1	857.4	749.1	617.9	531.5	540.2
87.5°	95.1	127.9	184.8	206.7	192.5	324.8	695.5	617.9	504.1	410.1	360.9
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)