

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: P191554

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191554  
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-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 23826.6 lumens  
Efficiency: N/A  
Efficacy: 123.5 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

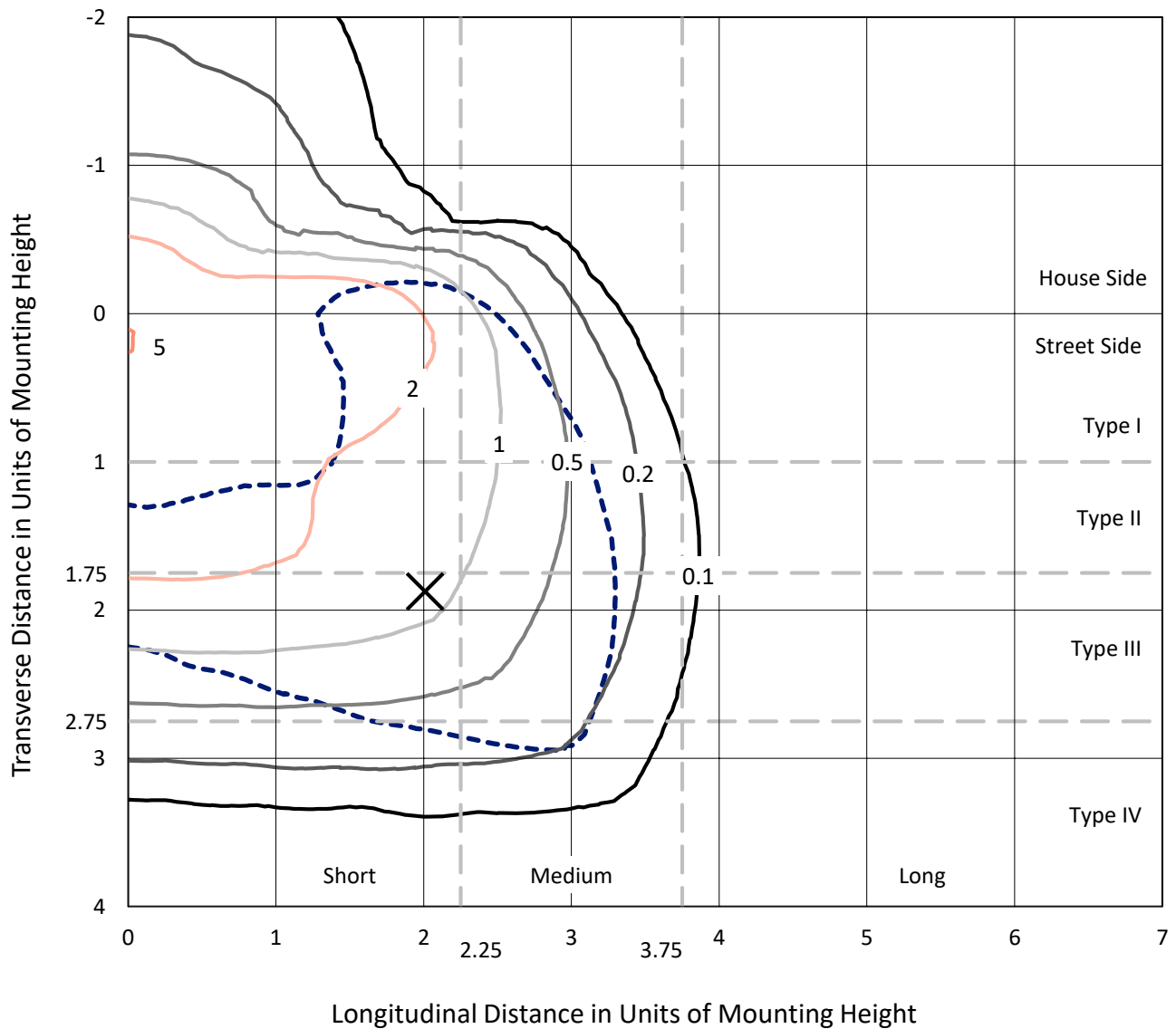
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

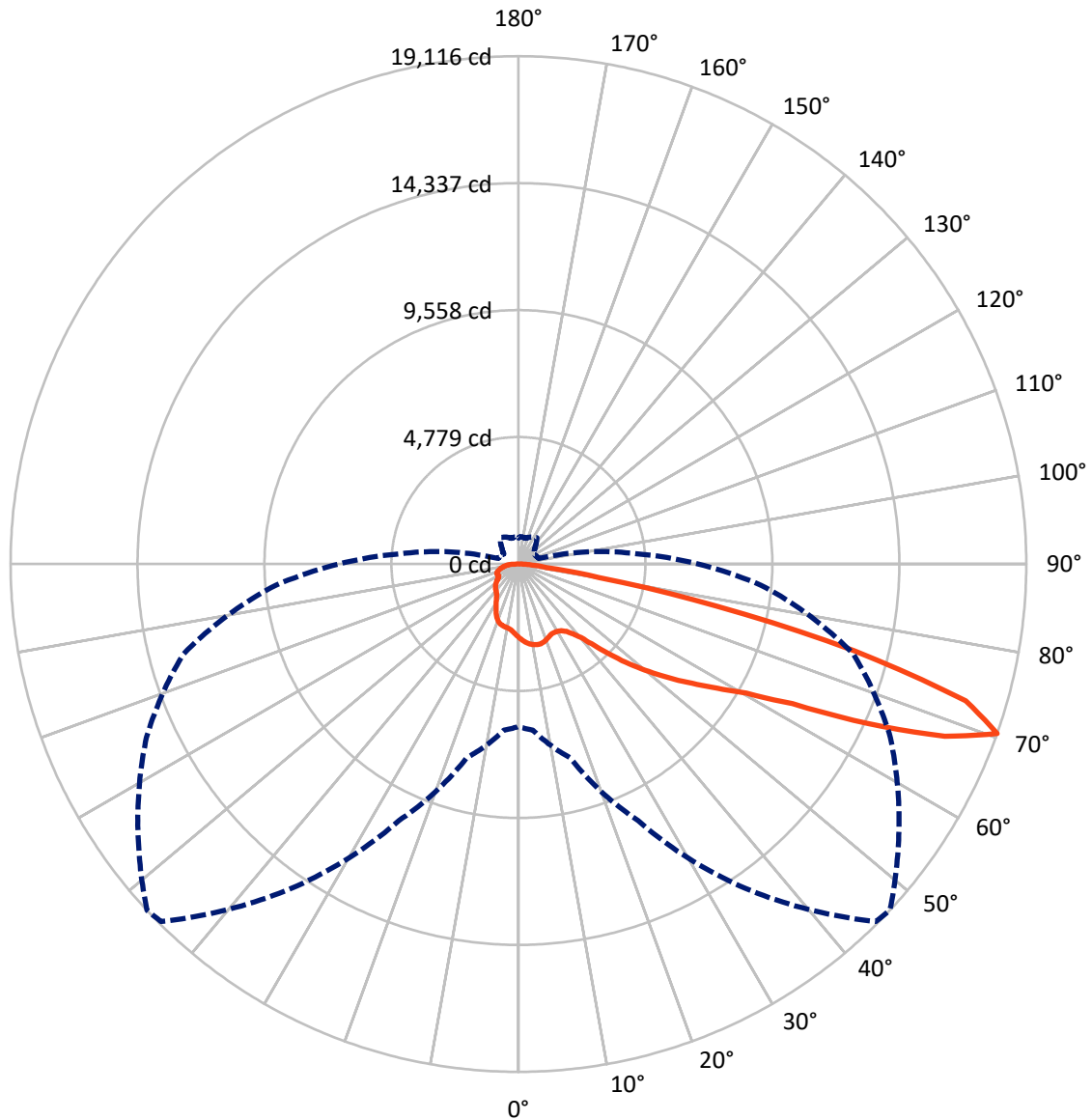
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
<b>House Side</b>	Lumens	4970.7	0.0	4970.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	18855.9	0.0	18855.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	23826.6	0.0	23826.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.9	1.1
10°-20°	777.1	3.3
20°-30°	1147.6	4.8
30°-40°	1668.1	7.0
40°-50°	3001.9	12.6
50°-60°	5200.5	21.8
60°-70°	7422.6	31.2
70°-80°	3810.4	16.0
80°-90°	533.5	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°	23826.6	100.0
0°-180°	23826.6	100.0



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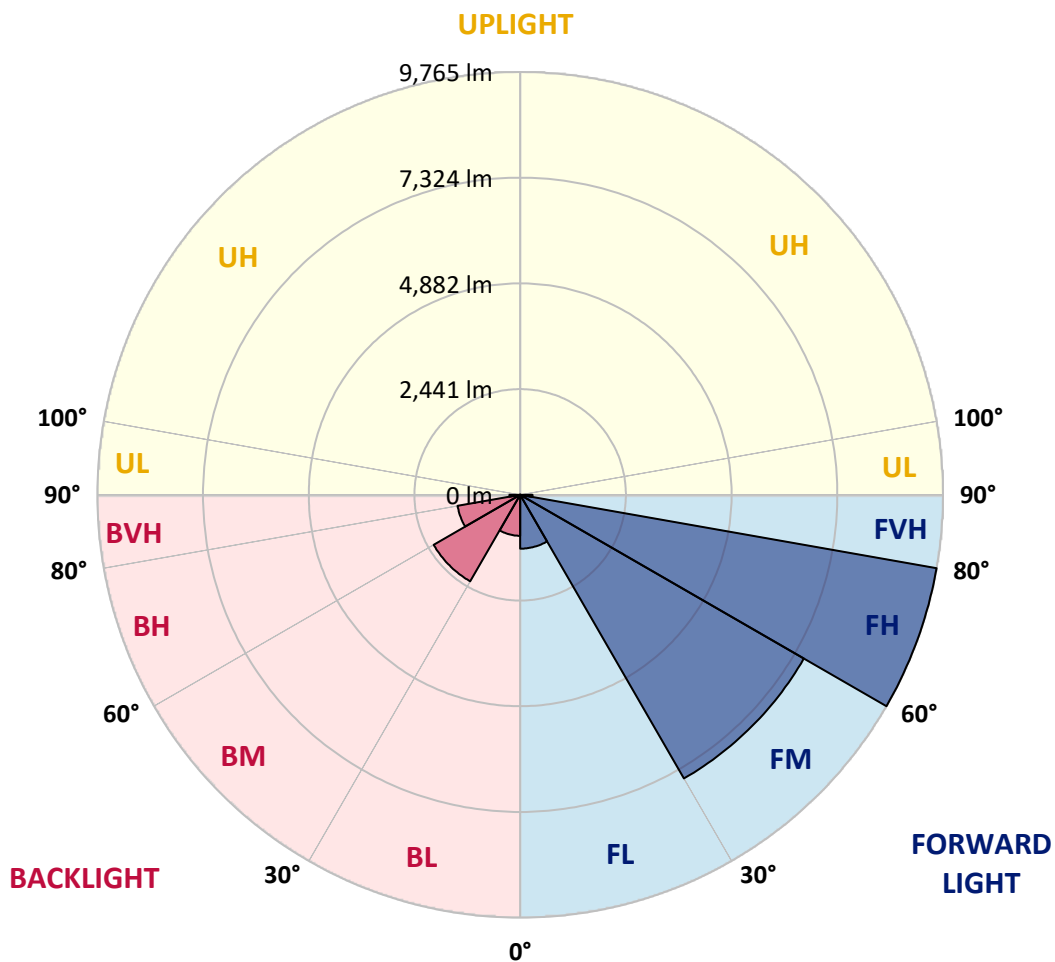
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1243.2	5.2			
FM	(30°-60°)	7563.2	31.7			
FH	(60°-80°)	9764.8	41.0			G4/12000
FVH	(80°-90°)	284.7	1.2			G3/500
BL	(0°-30°)	946.4	4.0	B2/1000		
BM	(30°-60°)	2307.2	9.7	B2/2500		
BH	(60°-80°)	1468.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	248.8	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°	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6
2.5°	2926.9	2921.1	2918.8	2914.2	2908.4	2879.4	2873.6	2852.7	2823.8	2793.6	2762.3
5°	3119.3	3118.2	3105.4	3082.3	3045.1	2981.4	2966.4	2915.3	2847.0	2780.9	2714.8
7.5°	3288.6	3278.1	3253.8	3207.5	3142.5	3055.6	3034.7	2964.0	2870.1	2779.7	2690.5
10°	3412.6	3406.8	3353.4	3289.7	3205.1	3108.8	3084.6	3005.7	2902.5	2787.8	2676.6
12.5°	3483.4	3471.7	3410.3	3333.8	3232.9	3139.0	3114.7	3034.7	2918.8	2787.8	2656.8
15°	3478.6	3470.6	3409.1	3325.6	3223.6	3141.4	3119.3	3039.4	2915.3	2776.2	2631.3
17.5°	3386.0	3389.4	3337.3	3254.9	3171.5	3108.8	3089.2	3015.0	2892.1	2753.1	2601.2
20°	3223.6	3239.9	3205.1	3132.1	3085.7	3042.9	3030.1	2967.5	2856.2	2719.4	2568.7
22.5°	3061.4	3076.4	3062.5	3001.1	2994.2	2968.6	2961.6	2916.4	2824.9	2698.5	2549.0
25°	2942.0	2955.9	2953.6	2900.3	2921.1	2919.9	2914.2	2892.1	2817.9	2698.5	2552.5
27.5°	2909.5	2914.2	2909.5	2860.8	2889.8	2913.0	2908.4	2904.9	2838.8	2732.2	2596.6
30°	3020.8	3013.8	2977.9	2879.4	2906.0	2938.5	2933.8	2936.2	2901.4	2820.3	2695.1
32.5°	3464.7	3433.4	3319.9	3042.9	2972.1	2989.5	2991.8	3030.1	3035.9	2955.9	2848.1
35°	4128.9	4094.2	3947.0	3481.0	3177.3	3117.0	3117.0	3174.9	3209.7	3150.6	3085.7
37.5°	4832.6	4794.4	4715.5	4088.4	3608.5	3338.4	3332.6	3373.2	3423.0	3436.9	3453.2
40°	5632.4	5591.9	5613.9	4770.0	4210.2	3722.1	3639.8	3610.8	3745.3	3834.5	3964.3
42.5°	6507.6	6489.1	6497.2	5529.3	4895.2	4295.9	4178.9	4029.3	4191.5	4350.4	4622.8
45°	7317.9	7334.0	7326.0	6341.8	5657.9	4996.0	4872.0	4582.2	4741.0	5013.4	5457.3
47.5°	8027.3	7960.0	8064.3	7229.7	6512.2	5779.7	5626.6	5238.3	5399.4	5735.6	6486.7
50°	8888.5	8879.2	8726.3	8414.4	7545.1	6566.7	6366.1	5916.4	6166.8	6633.9	7783.8
52.5°	9793.8	9625.8	9485.5	9336.0	8640.5	7373.5	7127.7	6592.2	7068.6	7656.4	9364.9
55°	9979.3	9904.0	10077.8	10329.3	9696.4	8211.5	7925.2	7439.5	8084.1	8824.8	11188.3
57.5°	10375.8	10374.6	10733.9	11182.5	10783.7	9100.7	8812.0	8463.1	9225.9	10163.6	13124.2
60°	10643.5	10718.9	11386.6	12257.1	11851.4	10127.7	9862.3	9644.3	10524.1	11660.1	14927.8
62.5°	10783.7	10885.7	11796.9	12693.0	13360.7	11837.5	11572.0	11257.9	12242.0	13301.5	15982.7
65°	10200.7	10401.3	11733.1	13069.6	14682.1	14609.1	14489.7	13937.9	14390.0	14598.6	15601.3
67.5°	8587.2	8792.4	10343.3	12718.4	15625.7	17282.0	17307.6	16365.2	15711.4	14709.9	13117.2
70°	6118.1	6279.3	7562.5	10663.2	14907.0	19028.9	19115.9	17483.8	15448.3	13045.3	9164.4
72.5°	2904.9	3003.4	4218.2	6940.0	11829.3	17435.1	17603.1	16055.7	13135.7	9658.2	4999.5
75°	1067.6	1097.7	1425.8	2952.4	6861.1	12857.6	13055.7	11509.4	8707.7	4808.3	1904.5
77.5°	639.9	659.6	799.8	1246.2	2698.5	7349.2	7642.5	6259.5	3805.6	1789.8	936.6
80°	447.4	461.4	573.8	775.5	1275.1	2800.5	3061.4	2554.8	1516.2	1132.5	681.6
82.5°	302.6	309.5	403.3	524.0	847.3	1000.3	1079.2	1136.0	1022.4	842.7	432.4
85°	198.2	205.2	273.5	345.5	539.0	517.0	528.6	668.8	746.5	572.6	240.0
87.5°	113.6	118.3	164.6	184.3	264.3	219.1	221.4	352.4	477.6	386.0	146.1
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°	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6	2764.6
2.5°	2754.2	2739.2	2705.5	2684.6	2664.9	2660.3	2652.2	2651.0	2649.9	2649.9	2646.4
5°	2692.7	2667.2	2615.1	2586.1	2561.8	2559.4	2558.3	2564.1	2566.4	2568.7	2565.3
7.5°	2653.3	2618.5	2553.7	2512.0	2482.9	2476.0	2487.6	2514.2	2531.6	2538.6	2535.1
10°	2629.0	2586.1	2510.7	2465.5	2441.2	2437.7	2452.8	2484.1	2520.0	2534.0	2532.8
12.5°	2601.2	2552.5	2472.5	2425.0	2411.1	2418.1	2437.7	2466.7	2503.8	2525.9	2527.0
15°	2573.3	2516.6	2434.2	2392.6	2386.7	2396.1	2414.6	2436.6	2465.5	2487.6	2489.9
17.5°	2539.8	2480.7	2398.3	2355.4	2350.8	2355.4	2356.6	2368.2	2386.7	2407.6	2413.3
20°	2503.8	2443.5	2357.8	2314.8	2294.0	2275.5	2254.6	2256.9	2262.7	2283.5	2288.2
22.5°	2478.3	2418.1	2326.5	2267.4	2211.7	2156.1	2114.3	2108.5	2110.9	2128.2	2134.1
25°	2480.7	2416.8	2318.3	2216.3	2094.6	2005.4	1949.7	1940.4	1939.3	1952.0	1960.2
27.5°	2525.9	2462.0	2348.5	2164.2	1967.1	1835.0	1775.8	1768.9	1759.6	1763.1	1772.4
30°	2626.7	2567.6	2421.5	2110.9	1829.1	1668.0	1606.6	1599.7	1586.9	1581.1	1588.0
32.5°	2791.3	2742.6	2528.1	2059.8	1691.2	1525.4	1462.9	1447.8	1439.7	1432.7	1438.6
35°	3064.9	3044.0	2670.7	2004.2	1569.5	1415.4	1358.6	1335.4	1323.8	1336.5	1345.8
37.5°	3493.8	3505.3	2857.4	1917.3	1475.6	1342.3	1294.7	1268.2	1250.8	1261.2	1271.6
40°	4101.1	4109.3	3063.7	1794.4	1394.5	1299.5	1248.4	1224.1	1199.7	1181.2	1180.1
42.5°	4898.7	4816.4	3266.6	1661.1	1300.6	1272.8	1216.0	1185.8	1148.8	1097.7	1087.3
45°	5844.5	5556.0	3420.7	1508.0	1195.1	1240.3	1180.1	1138.3	1080.3	1024.7	1019.0
47.5°	6934.2	6350.0	3496.0	1349.3	1096.6	1192.8	1136.0	1069.9	996.9	969.0	965.6
50°	8264.9	7292.3	3532.0	1195.1	1010.8	1130.2	1072.3	994.6	933.1	927.3	923.8
52.5°	9779.9	8426.0	3543.6	1068.8	940.1	1049.0	1020.1	944.7	896.0	900.7	900.7
55°	11365.7	9596.8	3386.0	977.2	875.1	965.6	985.3	925.1	884.4	903.0	909.9
57.5°	12821.6	10634.3	2889.8	906.4	813.8	901.8	972.5	943.6	915.7	991.1	995.7
60°	13939.0	11247.4	2158.4	842.7	768.5	879.8	1006.2	1014.3	1021.2	1200.9	1225.3
62.5°	14173.2	11043.5	1483.8	792.9	747.7	898.4	1067.6	1068.8	1060.6	1185.8	1200.9
65°	13098.7	9753.2	1079.2	765.1	730.3	932.0	1119.7	1095.4	1042.1	1137.1	1109.3
67.5°	10402.4	7348.0	898.4	744.2	704.8	929.7	1175.4	1119.7	1031.6	1114.0	1068.8
70°	6752.2	4443.1	799.8	726.8	674.6	885.6	1207.9	1117.5	1001.6	1036.2	983.0
72.5°	3294.4	1986.8	733.8	701.3	643.3	824.2	1206.7	1096.6	970.3	967.9	939.0
75°	1289.0	909.9	673.5	663.1	590.0	754.6	1174.2	1066.4	933.1	896.0	885.6
77.5°	754.6	649.2	597.0	606.2	526.3	685.1	1126.7	1014.3	882.1	838.1	826.4
80°	549.4	485.7	508.9	524.0	449.8	615.5	1062.9	950.5	825.3	847.3	831.1
82.5°	352.4	313.0	412.7	427.7	374.4	544.8	993.4	883.3	745.3	677.0	660.7
85°	179.6	198.2	307.2	325.7	288.7	447.4	908.8	794.0	654.9	563.3	572.6
87.5°	100.9	135.6	195.9	219.1	204.0	344.2	737.2	654.9	534.4	434.7	382.5
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)