

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: P194072

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19711 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

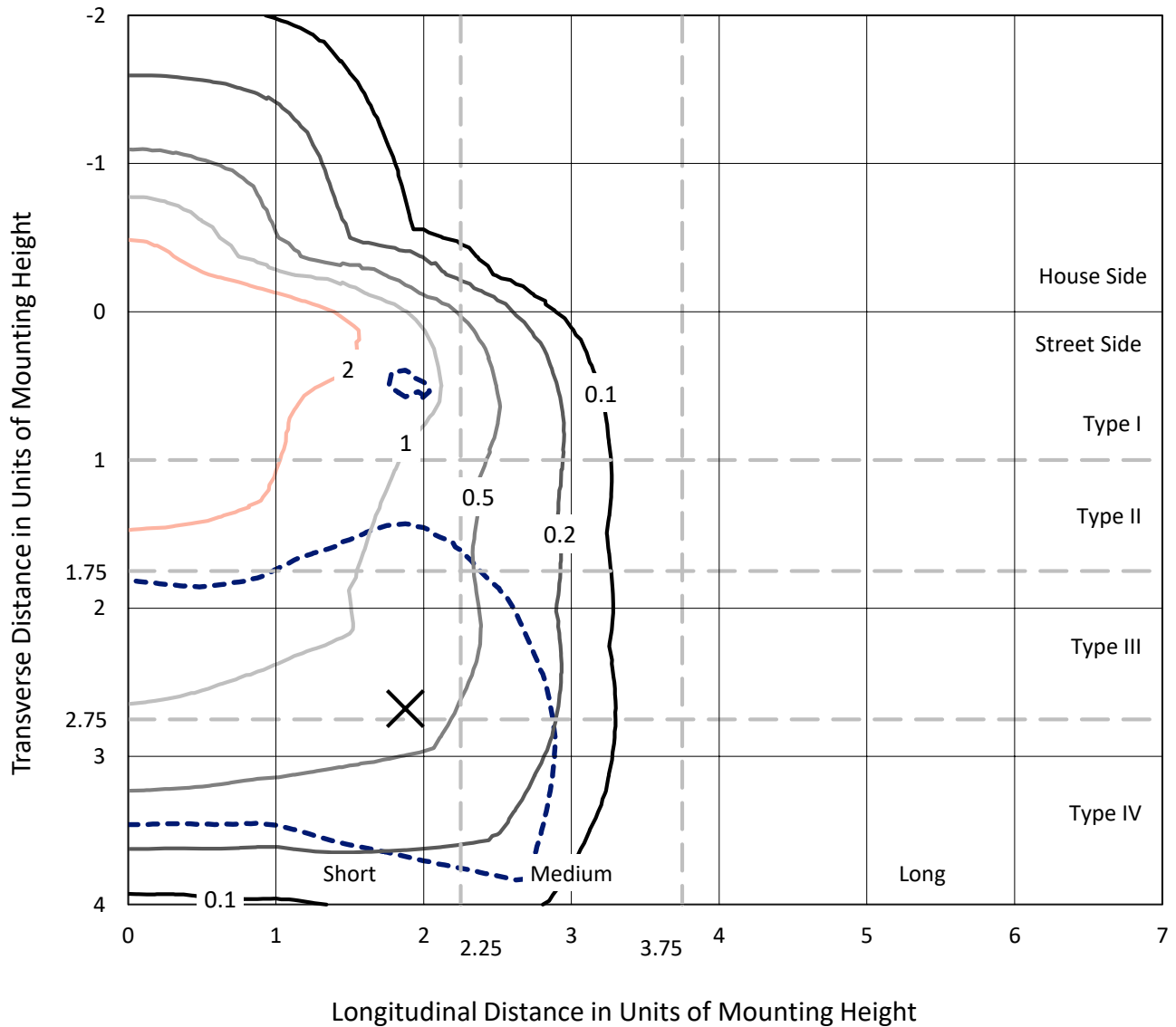
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

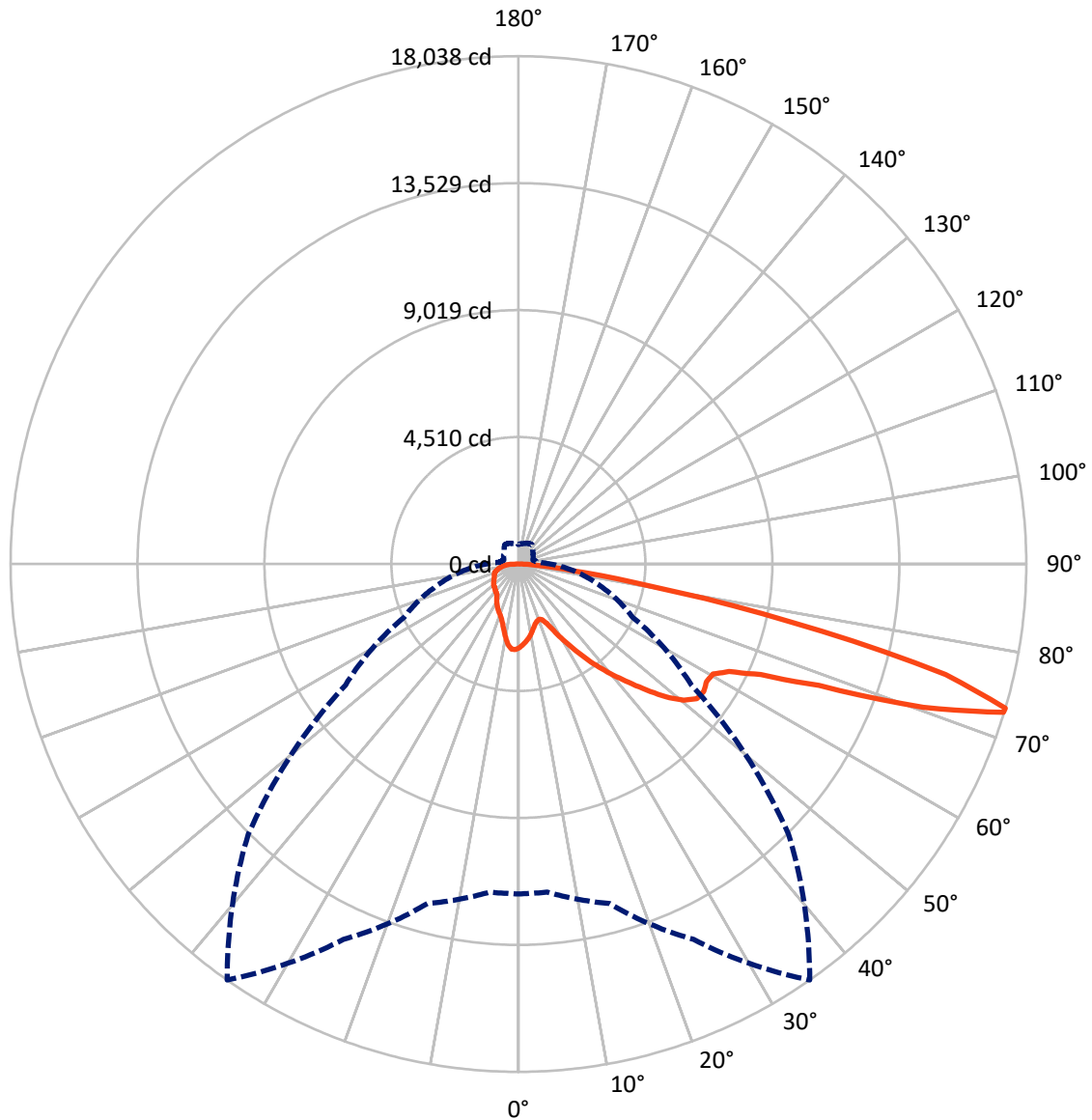
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3759.4	0.0	3759.4
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	15951.6	0.0	15951.6
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	19711.0	0.0	19711.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.3	1.4
10°-20°	672.2	3.4
20°-30°	1086.7	5.5
30°-40°	1822.2	9.2
40°-50°	2808.9	14.3
50°-60°	3768.4	19.1
60°-70°	5020.3	25.5
70°-80°	3829.0	19.4
80°-90°	434.0	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°	19711.0	100.0
0°-180°	19711.0	100.0

**Coefficient of Utilization**



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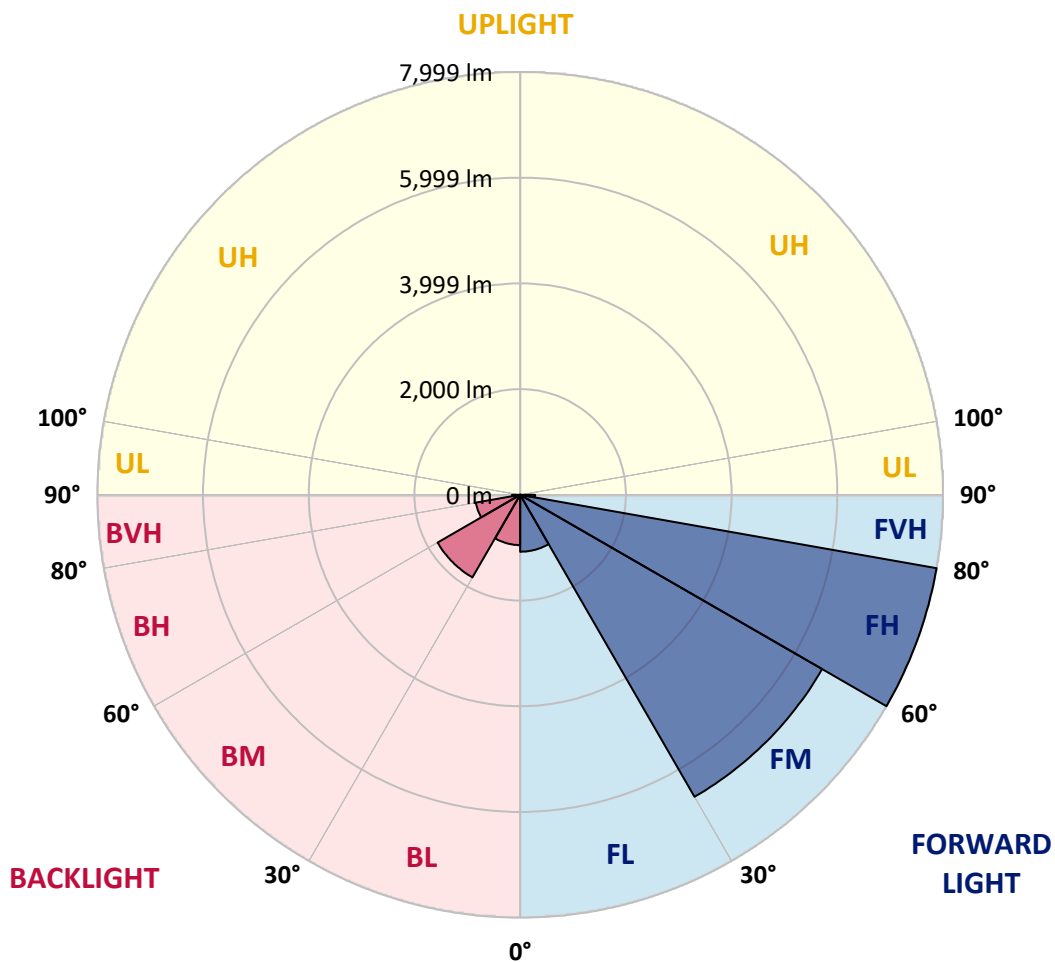
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1076.9	5.5			
FM	(30°-60°)	6595.4	33.5			
FH	(60°-80°)	7998.7	40.6			G4/12000
FVH	(80°-90°)	280.5	1.4			G3/500
BL	(0°-30°)	951.3	4.8	B2/1000		
BM	(30°-60°)	1804.1	9.2	B2/2500		
BH	(60°-80°)	850.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	153.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0
2.5°	2857.6	2863.3	2856.7	2865.2	2879.4	2894.5	2905.0	2920.1	2937.1	2960.8	2966.5
5°	2723.2	2731.7	2731.7	2746.9	2774.3	2798.9	2821.7	2846.3	2882.2	2922.9	2939.0
7.5°	2575.6	2580.3	2588.8	2611.5	2651.3	2686.3	2718.5	2758.2	2807.5	2861.4	2889.8
10°	2397.6	2404.2	2417.5	2449.7	2503.6	2551.9	2598.3	2653.2	2715.6	2782.9	2818.8
12.5°	2271.7	2269.8	2275.5	2299.2	2346.5	2405.2	2472.4	2542.4	2619.1	2697.7	2741.2
15°	2229.1	2218.7	2196.9	2191.3	2216.8	2275.5	2353.1	2439.3	2531.1	2625.7	2679.7
17.5°	2255.6	2237.6	2178.0	2134.5	2130.7	2175.2	2257.5	2354.1	2460.1	2575.6	2642.8
20°	2422.2	2379.6	2232.9	2131.6	2096.6	2118.4	2190.3	2292.5	2417.5	2570.8	2657.0
22.5°	2820.7	2758.2	2446.8	2258.5	2140.1	2113.6	2167.6	2276.4	2422.2	2629.5	2739.3
25°	3400.9	3312.0	2814.1	2574.6	2330.4	2189.4	2201.7	2313.4	2489.4	2765.8	2898.3
27.5°	3859.1	3801.3	3294.0	3020.4	2676.8	2393.8	2312.4	2406.1	2626.7	2989.2	3124.6
30°	4131.7	4096.7	3807.0	3525.9	3118.9	2719.4	2524.4	2580.3	2841.5	3298.7	3410.4
32.5°	4447.8	4427.0	4285.0	4026.6	3595.9	3147.3	2860.5	2840.6	3129.3	3670.7	3721.8
35°	4775.3	4768.7	4685.4	4499.9	4108.0	3711.4	3306.3	3171.9	3442.6	4056.9	4024.7
37.5°	5080.1	5068.8	5020.5	4912.6	4643.8	4317.2	3760.6	3511.7	3780.5	4426.1	4283.1
40°	5641.4	5552.5	5386.8	5305.4	5185.2	4827.4	4121.3	3828.8	4130.7	4778.2	4506.5
42.5°	6325.8	6181.0	5872.4	5760.7	5743.7	5229.7	4367.4	4136.4	4483.8	5127.5	4726.1
45°	6864.4	6728.1	6462.1	6321.1	6383.5	5594.1	4614.4	4464.9	4847.3	5493.8	4952.3
47.5°	7438.9	7225.0	6872.9	6915.5	7051.8	5938.6	4866.2	4817.9	5245.8	5903.6	5233.5
50°	7459.7	7296.0	7141.7	7396.3	7608.4	6255.7	5181.4	5188.0	5733.2	6419.5	5607.4
52.5°	7027.2	6992.2	7237.3	7637.7	7943.4	6506.6	5540.1	5570.4	6357.0	7012.0	6018.2
55°	6875.7	6836.0	7119.0	7553.5	7988.9	6713.9	5929.2	5984.1	7111.4	7636.8	6418.5
57.5°	7244.9	7156.9	7175.8	7513.7	7878.1	6941.0	6353.2	6464.0	7931.1	8182.9	6676.0
60°	8276.6	8088.3	7730.5	7721.9	7937.8	7281.8	6843.5	6978.9	8783.0	8444.2	6575.7
62.5°	9723.9	9535.5	8865.4	8429.0	8396.8	7844.0	7445.6	7481.5	9275.2	8090.2	5963.3
65°	11290.4	11121.9	10373.2	9757.0	9459.8	8775.5	8145.1	7705.9	9114.3	7116.2	4891.8
67.5°	13192.0	13011.3	12367.6	11798.7	11512.9	10278.6	8636.3	7491.0	8093.0	5512.7	3516.4
70°	14521.9	14337.4	14083.7	14544.7	15244.2	12447.1	8699.7	6617.3	6044.7	3664.1	2116.5
72.5°	12786.9	12700.8	13163.7	15105.0	18018.5	13762.8	7863.9	4817.9	3510.7	1945.2	1224.8
73°	11715.4	11696.5	12485.9	14712.2	18038.4	13560.3	7497.6	4478.1	3011.0	1720.8	1119.8
75°	5290.3	5442.7	7172.9	11237.4	15672.0	11174.0	5277.0	2568.9	1700.9	1188.9	845.3
77.5°	1271.2	1324.2	2244.3	5336.6	9897.1	6659.0	2391.0	1270.3	1087.6	839.6	617.1
80°	541.4	559.4	864.2	1971.7	4659.9	2681.6	1101.8	850.9	752.5	585.9	432.6
82.5°	301.0	319.9	490.3	894.5	1880.8	914.4	672.0	592.5	495.0	353.1	281.1
85°	170.4	180.8	286.8	499.8	797.0	367.3	402.3	393.8	279.2	181.7	138.2
87.5°	80.5	87.1	138.2	231.9	312.4	143.9	204.5	225.3	175.1	110.7	71.9
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0
2.5°	2973.1	2990.1	3010.0	3020.4	3029.9	3041.3	3052.6	3052.6	3054.5	3055.5
5°	2952.3	2987.3	3018.5	3031.8	3034.6	3034.6	3031.8	3016.7	3003.4	3009.1
7.5°	2908.7	2959.9	2986.4	2981.6	2945.7	2904.0	2869.0	2826.4	2804.6	2800.8
10°	2846.3	2905.0	2909.7	2862.4	2773.4	2684.4	2610.6	2538.6	2504.6	2496.0
12.5°	2777.2	2831.1	2800.8	2703.3	2560.4	2430.7	2337.0	2264.1	2232.0	2223.4
15°	2721.3	2758.2	2681.6	2528.2	2348.4	2211.1	2133.5	2079.6	2056.9	2050.2
17.5°	2692.0	2699.6	2559.5	2352.2	2161.0	2046.4	1998.2	1972.6	1964.1	1959.4
20°	2706.2	2653.2	2443.0	2188.4	2007.6	1927.2	1915.8	1909.2	1907.3	1904.5
22.5°	2777.2	2639.0	2336.1	2033.2	1873.2	1838.2	1847.7	1846.7	1844.8	1842.9
25°	2904.0	2651.3	2232.0	1885.5	1760.6	1753.0	1770.0	1770.0	1762.5	1762.5
27.5°	3071.6	2676.8	2115.5	1745.4	1658.4	1659.3	1672.6	1668.8	1660.2	1654.6
30°	3276.0	2692.9	1979.2	1619.5	1562.8	1559.0	1562.8	1546.7	1521.1	1519.2
32.5°	3485.2	2673.1	1821.2	1507.9	1461.5	1453.0	1450.1	1427.4	1398.1	1389.5
35°	3674.5	2600.2	1660.2	1418.9	1364.9	1346.0	1359.2	1351.7	1325.2	1318.5
37.5°	3812.7	2464.8	1515.4	1340.3	1295.8	1291.1	1299.6	1302.5	1271.2	1264.6
40°	3905.5	2281.2	1391.4	1274.1	1282.6	1264.6	1236.2	1216.3	1206.8	1204.0
42.5°	3980.2	2090.0	1287.3	1242.8	1285.4	1233.4	1171.8	1139.6	1156.7	1164.3
45°	4066.4	1903.5	1200.2	1204.0	1271.2	1197.4	1127.3	1096.1	1102.7	1104.6
47.5°	4184.7	1676.3	1106.5	1141.5	1223.9	1172.8	1099.9	1055.4	1024.2	1010.0
50°	4348.4	1407.5	1009.0	1071.5	1177.5	1154.8	1057.3	1010.0	952.2	939.0
52.5°	4462.0	1156.7	928.6	1012.8	1135.9	1118.8	1023.2	961.7	901.1	889.8
55°	4400.5	960.7	858.5	947.5	1081.0	1074.3	994.8	912.5	865.1	855.7
57.5°	4092.9	836.7	804.6	886.0	1013.8	1036.5	957.0	870.8	836.7	830.1
60°	3506.0	759.1	770.5	844.3	958.9	998.6	919.1	848.1	825.4	820.7
62.5°	2720.4	707.1	744.9	814.0	916.3	972.1	898.3	845.3	836.7	831.1
65°	1948.9	665.4	717.5	783.7	877.5	947.5	890.7	841.5	843.4	838.6
67.5°	1324.2	628.5	684.4	749.7	839.6	925.7	880.3	828.2	851.9	846.2
70°	926.7	592.5	645.5	706.1	792.3	895.4	861.4	808.4	806.5	783.7
72.5°	723.2	545.2	592.5	645.5	731.7	852.8	823.5	763.9	732.6	709.0
73°	690.0	533.9	579.3	632.3	718.4	842.4	813.1	751.6	716.5	694.8
75°	570.8	484.6	526.3	573.6	661.6	793.2	762.0	695.7	651.2	638.0
77.5°	448.7	414.6	454.3	496.9	583.1	721.3	686.2	622.8	598.2	586.9
80°	332.2	343.6	378.6	416.5	505.5	644.6	613.4	549.9	659.7	632.3
82.5°	233.8	260.3	292.5	326.6	424.1	569.8	532.0	466.6	482.7	401.3
85°	138.2	170.4	200.7	230.0	305.7	472.3	439.2	372.0	304.8	290.6
87.5°	80.5	94.7	103.2	133.5	210.1	355.9	309.5	275.4	158.1	107.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)