

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: P191522

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191522  
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-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA 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: 19963.9 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

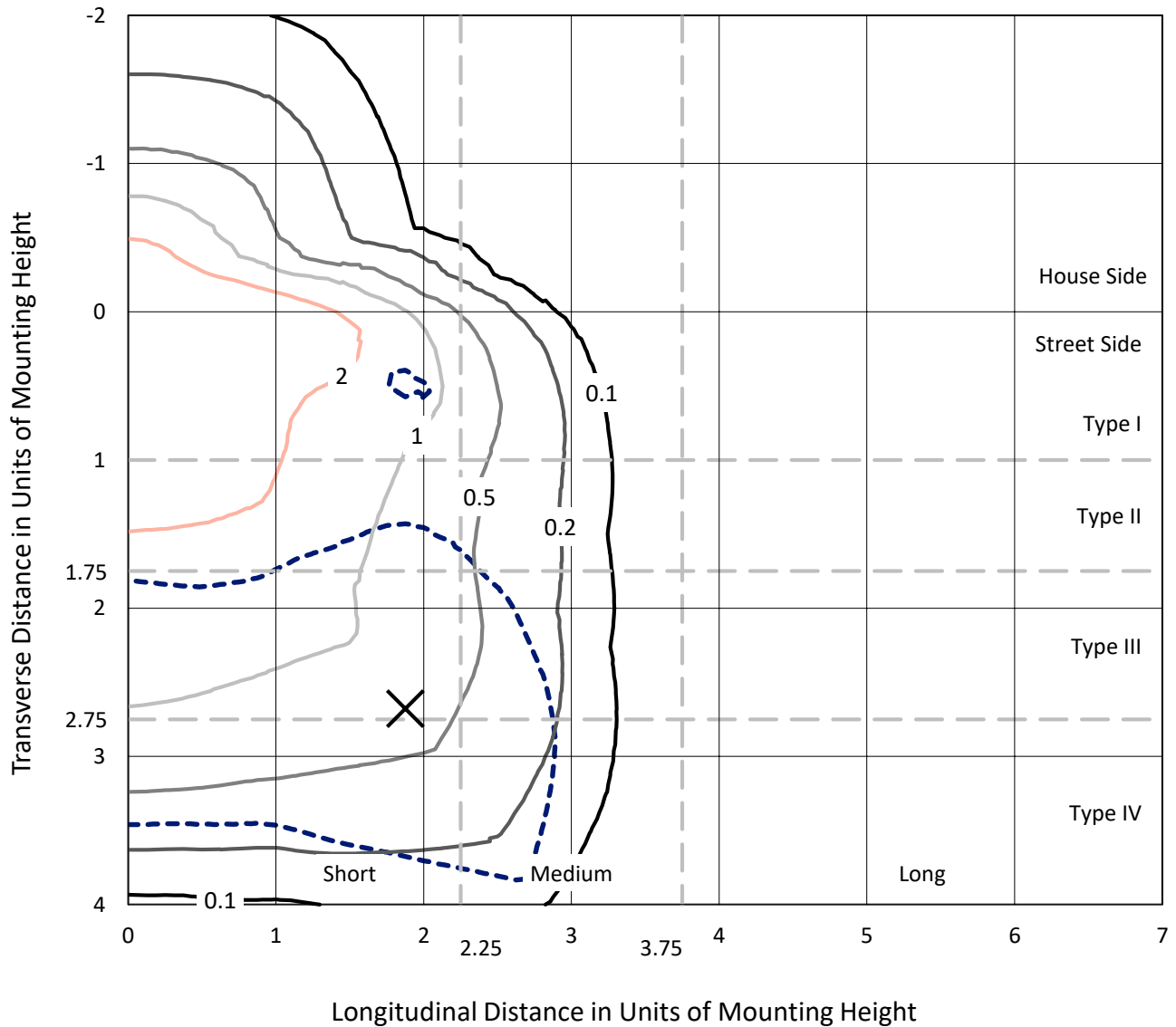
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

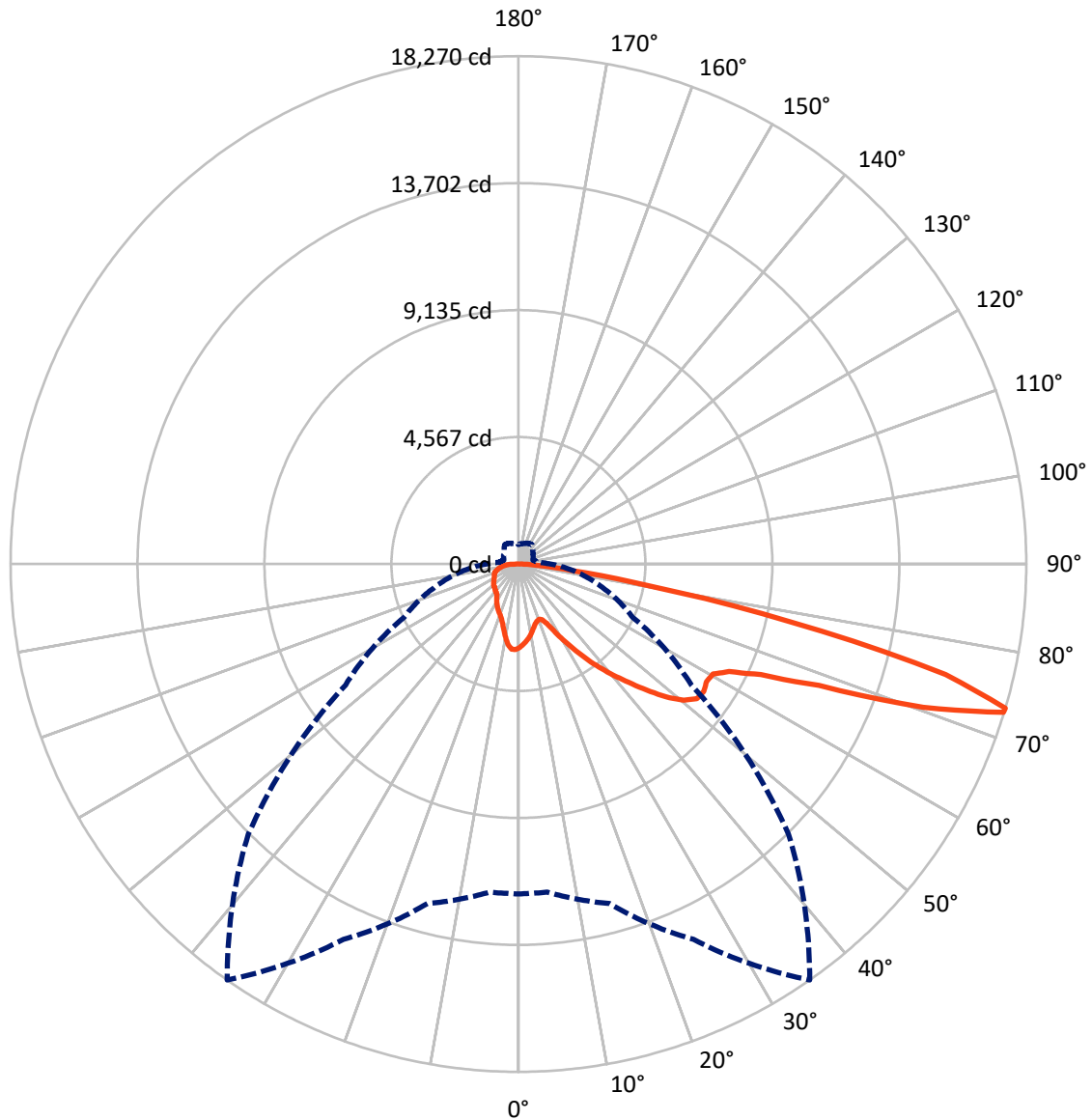
× Max cd  
 - - - 1/2 Max cd



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	3807.7	0.0	3807.7
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	16156.2	0.0	16156.2
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	19963.9	0.0	19963.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.8	1.4
10°-20°	680.8	3.4
20°-30°	1100.6	5.5
30°-40°	1845.6	9.2
40°-50°	2844.9	14.3
50°-60°	3816.8	19.1
60°-70°	5084.7	25.5
70°-80°	3878.1	19.4
80°-90°	439.6	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°	19963.9	100.0
0°-180°	19963.9	100.0



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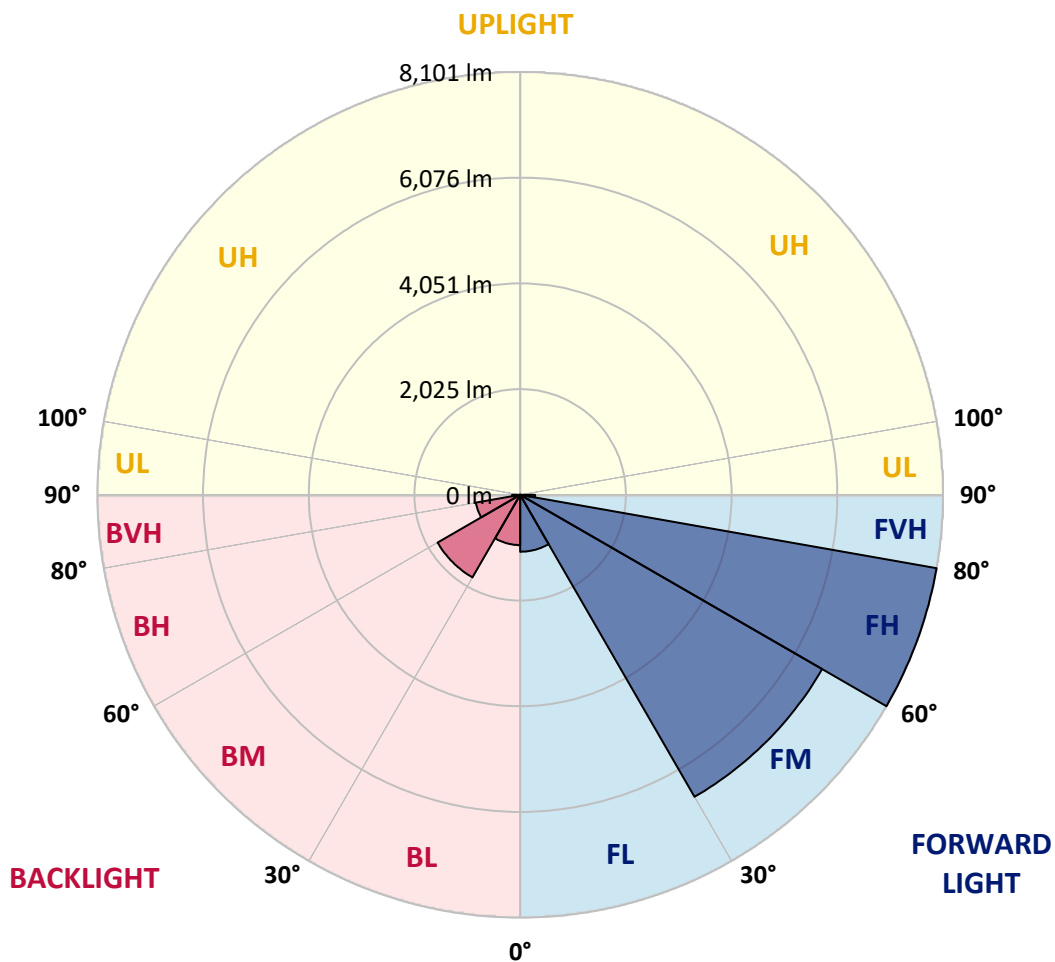
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1090.7	5.5			
FM	(30°-60°)	6680.1	33.5			
FH	(60°-80°)	8101.4	40.6			G4/12000
FVH	(80°-90°)	284.1	1.4			G3/500
BL	(0°-30°)	963.5	4.8	B2/1000		
BM	(30°-60°)	1827.3	9.2	B2/2500		
BH	(60°-80°)	861.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	155.4	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°	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2
2.5°	2894.3	2900.1	2893.3	2902.0	2916.3	2931.7	2942.2	2957.6	2974.8	2998.8	3004.5
5°	2758.2	2766.8	2766.8	2782.1	2809.9	2834.9	2857.8	2882.8	2919.2	2960.4	2976.8
7.5°	2608.6	2613.4	2622.0	2645.0	2685.3	2720.7	2753.4	2793.7	2843.5	2898.1	2926.9
10°	2428.4	2435.0	2448.5	2481.1	2535.8	2584.6	2631.6	2687.2	2750.5	2818.5	2855.0
12.5°	2300.8	2299.0	2304.7	2328.6	2376.6	2436.1	2504.1	2575.1	2652.7	2732.3	2776.4
15°	2257.8	2247.2	2225.1	2219.4	2245.3	2304.7	2383.3	2470.5	2563.5	2659.4	2714.1
17.5°	2284.6	2266.3	2206.0	2161.9	2158.0	2203.0	2286.5	2384.3	2491.6	2608.6	2676.7
20°	2453.3	2410.2	2261.5	2158.9	2123.5	2145.5	2218.4	2322.0	2448.5	2603.8	2691.1
22.5°	2856.9	2793.7	2478.2	2287.4	2167.6	2140.7	2195.5	2305.6	2453.3	2663.3	2774.4
25°	3444.6	3354.5	2850.1	2607.6	2360.3	2217.5	2229.9	2343.1	2521.4	2801.4	2935.6
27.5°	3908.6	3850.1	3336.3	3059.2	2711.2	2424.5	2342.0	2437.0	2660.4	3027.5	3164.6
30°	4184.7	4149.2	3855.9	3571.1	3158.9	2754.3	2556.9	2613.4	2878.0	3341.1	3454.2
32.5°	4504.9	4483.8	4340.0	4078.3	3642.1	3187.6	2897.2	2877.0	3169.4	3717.8	3769.6
35°	4836.6	4829.9	4745.6	4557.7	4160.8	3759.0	3348.7	3212.6	3486.7	4109.0	4076.4
37.5°	5145.3	5133.8	5084.9	4975.6	4703.3	4372.6	3808.9	3556.8	3829.0	4482.9	4338.1
40°	5713.8	5623.7	5455.9	5373.5	5251.7	4889.3	4174.2	3877.9	4183.8	4839.5	4564.3
42.5°	6406.9	6260.3	5947.7	5834.6	5817.3	5296.7	4423.4	4189.5	4541.3	5193.2	4786.8
45°	6952.5	6814.4	6545.0	6402.1	6465.5	5665.9	4673.7	4522.2	4909.4	5564.2	5015.8
47.5°	7534.3	7317.7	6961.1	7004.2	7142.2	6014.8	4928.7	4879.8	5313.1	5979.4	5300.6
50°	7555.5	7389.6	7233.4	7491.3	7706.0	6336.1	5247.8	5254.6	5806.8	6501.9	5679.3
52.5°	7117.4	7081.9	7330.2	7735.7	8045.4	6590.1	5611.2	5641.9	6438.6	7102.0	6095.4
55°	6963.9	6923.6	7210.4	7650.3	8091.3	6800.0	6005.2	6060.9	7202.7	7734.7	6500.9
57.5°	7337.8	7248.7	7267.9	7610.1	7979.2	7030.1	6434.8	6546.9	8032.9	8287.9	6761.7
60°	8382.8	8192.0	7829.7	7821.1	8039.6	7375.3	6931.3	7068.5	8895.7	8552.5	6660.0
62.5°	9848.7	9657.9	8979.2	8537.1	8504.6	7944.6	7541.1	7577.5	9394.3	8193.9	6039.8
65°	11435.3	11264.6	10506.3	9882.2	9581.2	8888.0	8249.6	7804.7	9231.2	7207.5	4954.6
67.5°	13361.3	13178.2	12526.3	11950.1	11660.6	10410.5	8747.2	7587.1	8196.8	5583.5	3561.5
70°	14708.3	14521.3	14264.4	14731.3	15439.8	12606.8	8811.4	6702.3	6122.3	3711.1	2143.6
72.5°	12951.0	12863.7	13332.5	15298.8	18249.6	13939.4	7964.8	4879.8	3555.8	1970.1	1240.5
73°	11865.7	11846.6	12646.1	14901.0	18269.8	13734.2	7593.8	4535.6	3049.6	1742.9	1134.1
75°	5358.1	5512.5	7265.0	11381.7	15873.1	11317.4	5344.7	2601.9	1722.8	1204.1	856.1
77.5°	1287.5	1341.2	2273.1	5405.1	10024.1	6744.4	2421.6	1286.6	1101.5	850.4	625.0
80°	548.4	566.6	875.2	1997.0	4719.7	2715.9	1115.9	861.8	762.2	593.4	438.1
82.5°	304.8	324.1	496.6	905.9	1904.9	926.1	680.7	600.2	501.3	357.6	284.7
85°	172.6	183.1	290.5	506.2	807.2	371.9	407.4	398.8	282.8	184.0	139.9
87.5°	81.5	88.2	139.9	234.9	316.4	145.8	207.0	228.1	177.4	112.2	72.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2	3013.2
2.5°	3011.3	3028.5	3048.6	3059.2	3068.8	3080.3	3091.8	3091.8	3093.7	3094.6
5°	2990.2	3025.7	3057.3	3070.7	3073.6	3073.6	3070.7	3055.3	3041.9	3047.7
7.5°	2946.1	2997.9	3024.7	3019.9	2983.4	2941.3	2905.8	2862.6	2840.6	2836.7
10°	2882.8	2942.2	2947.0	2899.0	2809.0	2718.9	2644.1	2571.2	2536.7	2528.1
12.5°	2812.8	2867.4	2836.7	2738.0	2593.3	2461.9	2367.0	2293.1	2260.6	2251.9
15°	2756.2	2793.7	2715.9	2560.7	2378.6	2239.5	2160.9	2106.3	2083.2	2076.5
17.5°	2726.6	2734.1	2592.3	2382.4	2188.7	2072.7	2023.8	1997.9	1989.3	1984.5
20°	2740.9	2687.2	2474.4	2216.5	2033.4	1951.9	1940.4	1933.7	1931.7	1928.9
22.5°	2812.8	2672.9	2366.1	2059.3	1897.3	1861.8	1871.4	1870.4	1868.5	1866.6
25°	2941.3	2685.3	2260.6	1909.7	1783.2	1775.5	1792.7	1792.7	1785.0	1785.0
27.5°	3111.0	2711.2	2142.7	1767.9	1679.6	1680.6	1694.0	1690.2	1681.5	1675.8
30°	3318.0	2727.5	2004.7	1640.3	1582.8	1578.9	1582.8	1566.5	1540.7	1538.7
32.5°	3529.9	2707.3	1844.5	1527.2	1480.2	1471.6	1468.8	1445.7	1416.0	1407.4
35°	3721.6	2633.5	1681.5	1437.0	1382.4	1363.3	1376.7	1369.0	1342.2	1335.5
37.5°	3861.6	2496.4	1534.8	1357.6	1312.4	1307.6	1316.3	1319.2	1287.5	1280.8
40°	3955.5	2310.4	1409.3	1290.5	1299.0	1280.8	1252.1	1231.9	1222.3	1219.5
42.5°	4031.3	2116.8	1303.9	1258.7	1301.9	1249.2	1186.8	1154.3	1171.5	1179.2
45°	4118.5	1928.0	1215.6	1219.5	1287.5	1212.7	1141.8	1110.2	1116.9	1118.8
47.5°	4238.4	1697.9	1120.7	1156.1	1239.6	1187.9	1114.0	1069.0	1037.3	1023.0
50°	4404.2	1425.6	1021.9	1085.2	1192.7	1169.6	1070.8	1023.0	964.4	951.0
52.5°	4519.3	1171.5	940.5	1025.8	1150.4	1133.2	1036.4	974.1	912.7	901.2
55°	4457.0	973.0	869.5	959.6	1094.9	1088.1	1007.6	924.1	876.3	866.6
57.5°	4145.4	847.5	814.9	897.3	1026.7	1049.8	969.2	882.0	847.5	840.8
60°	3551.0	768.8	780.4	855.2	971.2	1011.4	930.9	859.0	836.0	831.1
62.5°	2755.3	716.2	754.5	824.5	928.0	984.6	909.8	856.1	847.5	841.7
65°	1974.0	673.9	726.7	793.8	888.7	959.6	902.1	852.3	854.2	849.4
67.5°	1341.2	636.6	693.2	759.3	850.4	937.6	891.6	838.8	862.9	857.0
70°	938.6	600.2	653.9	715.1	802.4	906.9	872.4	818.8	816.8	793.8
72.5°	732.4	552.2	600.2	653.9	741.0	863.8	834.1	773.7	742.0	718.1
73°	698.9	540.7	586.8	640.4	727.6	853.2	823.5	761.2	725.7	703.7
75°	578.1	490.8	533.1	580.9	670.1	803.4	771.7	704.6	659.6	646.2
77.5°	454.4	419.9	460.1	503.3	590.5	730.5	695.1	630.9	605.9	594.4
80°	336.6	348.0	383.5	421.9	512.0	652.8	621.2	557.0	668.2	640.4
82.5°	236.8	263.6	296.2	330.7	429.5	577.1	538.8	472.6	489.0	406.5
85°	139.9	172.6	203.3	232.9	309.6	478.4	444.9	376.8	308.7	294.3
87.5°	81.5	95.9	104.5	135.1	212.9	360.5	313.5	279.0	160.1	108.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)