

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: P194063

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194063  
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-05-LED-E1-T4FT-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 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: 19732 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 210  
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

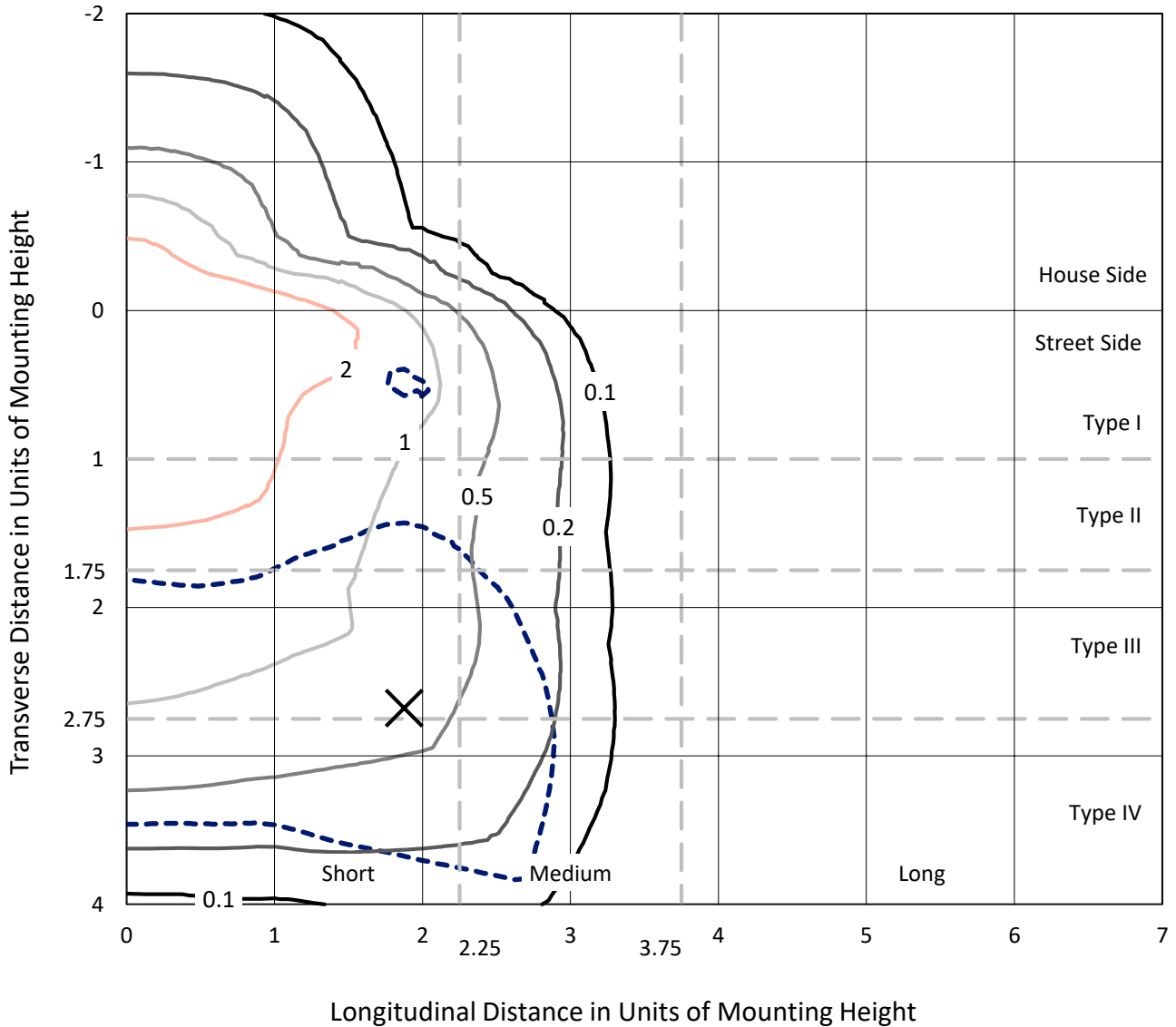


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

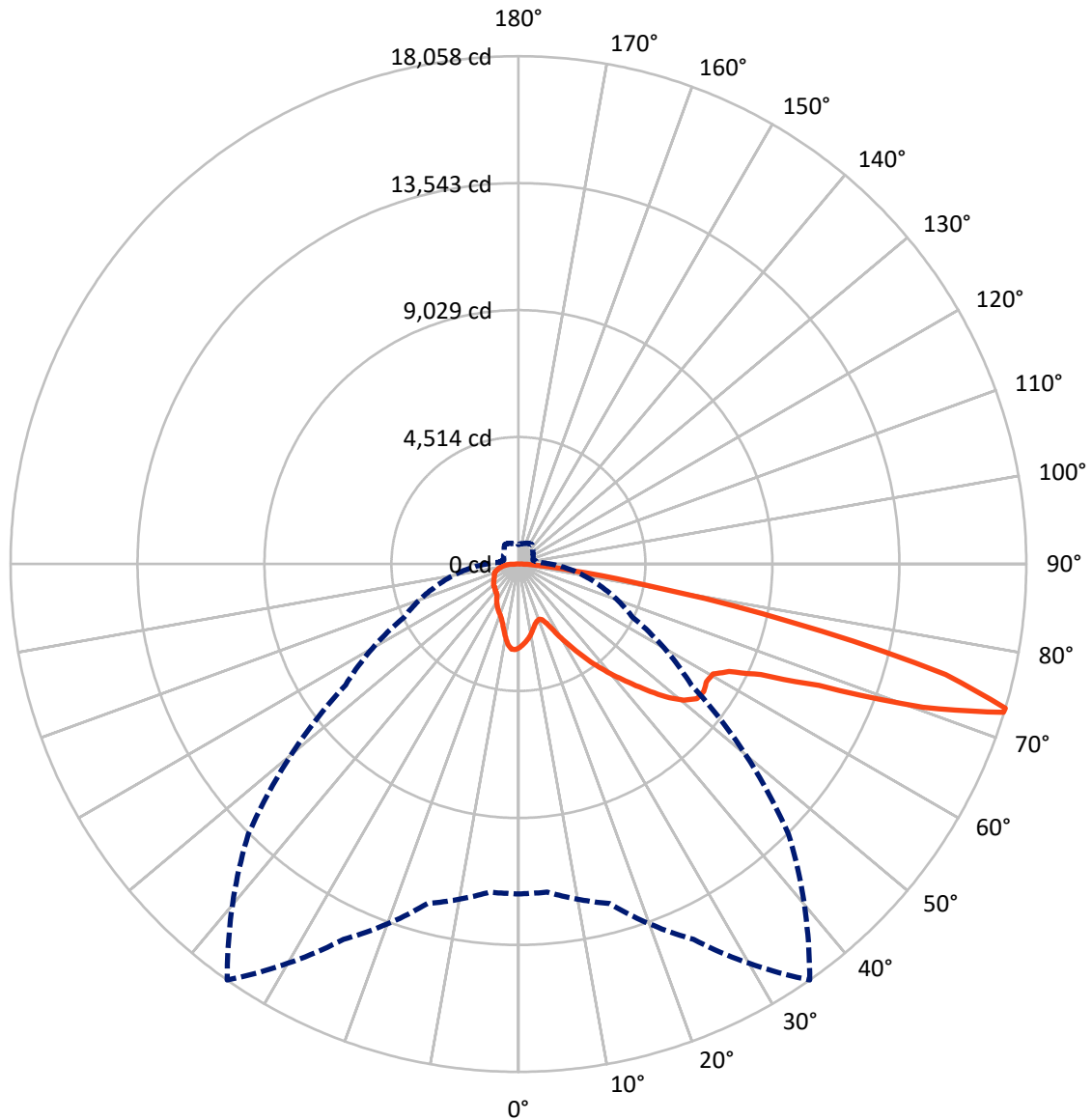


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - Non-Cutoff

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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	3763.4	0.0	3763.4
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	15968.6	0.0	15968.6
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	19732.0	0.0	19732.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.6	1.4
10°-20°	672.9	3.4
20°-30°	1087.8	5.5
30°-40°	1824.2	9.2
40°-50°	2811.9	14.3
50°-60°	3772.4	19.1
60°-70°	5025.7	25.5
70°-80°	3833.0	19.4
80°-90°	434.5	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°	19732.0	100.0
0°-180°	19732.0	100.0

**Coefficient of Utilization**



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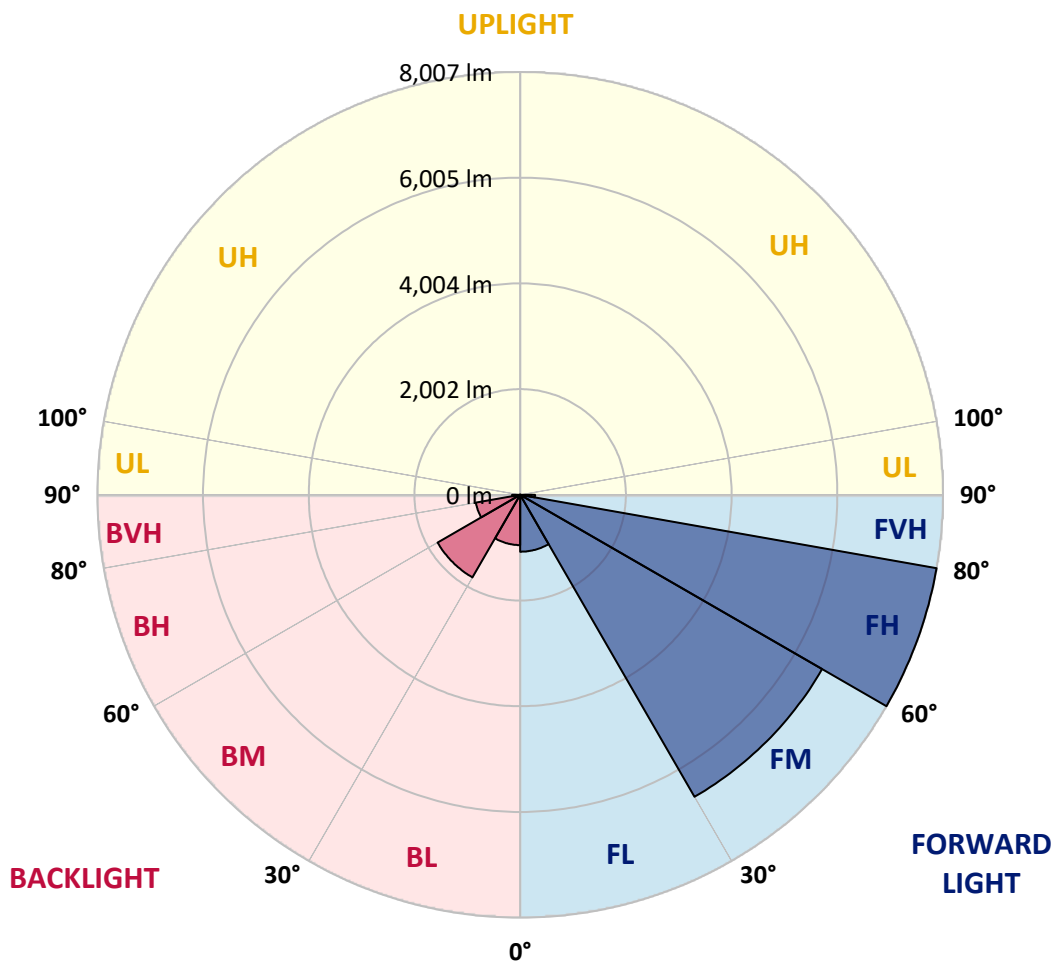
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1078.0	5.5			
FM	(30°-60°)	6602.5	33.5			
FH	(60°-80°)	8007.2	40.6			G4/12000
FVH	(80°-90°)	280.8	1.4			G3/500
BL	(0°-30°)	952.3	4.8	B2/1000		
BM	(30°-60°)	1806.0	9.2	B2/2500		
BH	(60°-80°)	851.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	153.6	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°	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2
2.5°	2860.7	2866.4	2859.7	2868.3	2882.5	2897.6	2908.1	2923.2	2940.3	2964.0	2969.6
5°	2726.1	2734.6	2734.6	2749.8	2777.3	2801.9	2824.7	2849.3	2885.3	2926.1	2942.2
7.5°	2578.3	2583.0	2591.6	2614.3	2654.1	2689.2	2721.4	2761.2	2810.5	2864.5	2892.9
10°	2400.2	2406.8	2420.1	2452.3	2506.3	2554.6	2601.0	2656.0	2718.5	2785.8	2821.8
12.5°	2274.1	2272.2	2277.9	2301.6	2349.0	2407.7	2475.0	2545.1	2621.9	2700.5	2744.1
15°	2231.5	2221.1	2199.3	2193.6	2219.2	2277.9	2355.6	2441.9	2533.8	2628.5	2682.5
17.5°	2258.0	2240.0	2180.3	2136.7	2133.0	2177.5	2259.9	2356.6	2462.7	2578.3	2645.6
20°	2424.8	2382.2	2235.3	2133.9	2098.8	2120.6	2192.6	2295.0	2420.1	2573.6	2659.8
22.5°	2823.7	2761.2	2449.4	2260.9	2142.4	2115.9	2169.9	2278.9	2424.8	2632.3	2742.2
25°	3404.6	3315.5	2817.1	2577.4	2332.9	2191.7	2204.0	2315.8	2492.1	2768.8	2901.4
27.5°	3863.2	3805.4	3297.5	3023.7	2679.7	2396.4	2314.9	2408.7	2629.5	2992.4	3127.9
30°	4136.1	4101.0	3811.1	3529.6	3122.2	2722.3	2527.1	2583.0	2844.6	3302.2	3414.0
32.5°	4452.6	4431.7	4289.6	4030.9	3599.8	3150.6	2863.5	2843.6	3132.6	3674.6	3725.8
35°	4780.4	4773.8	4690.4	4504.7	4112.4	3715.4	3309.8	3175.3	3446.3	4061.2	4029.0
37.5°	5085.5	5074.2	5025.8	4917.8	4648.7	4321.8	3764.6	3515.4	3784.5	4430.8	4287.7
40°	5647.4	5558.4	5392.5	5311.1	5190.7	4832.5	4125.7	3832.9	4135.1	4783.3	4511.3
42.5°	6332.5	6187.5	5878.6	5766.8	5749.8	5235.3	4372.0	4140.8	4488.6	5132.9	4731.2
45°	6871.7	6735.2	6469.0	6327.8	6390.3	5600.1	4619.3	4469.6	4852.4	5499.6	4957.6
47.5°	7446.9	7232.7	6880.2	6922.9	7059.3	5945.0	4871.4	4823.1	5251.4	5909.9	5239.0
50°	7467.7	7303.8	7149.3	7404.2	7616.5	6262.4	5186.9	5193.6	5739.4	6426.3	5613.3
52.5°	7034.7	6999.6	7245.0	7645.8	7951.9	6513.5	5546.1	5576.4	6363.8	7019.5	6024.6
55°	6883.1	6843.3	7126.6	7561.5	7997.4	6721.0	5935.5	5990.5	7119.0	7644.9	6425.4
57.5°	7252.6	7164.5	7183.4	7521.7	7886.5	6948.4	6360.0	6470.9	7939.6	8191.6	6683.1
60°	8285.4	8096.9	7738.7	7730.2	7946.2	7289.6	6850.8	6986.3	8792.4	8453.2	6582.7
62.5°	9734.3	9545.7	8874.8	8438.0	8405.8	7852.4	7453.5	7489.5	9285.1	8098.8	5969.6
65°	11302.5	11133.8	10384.3	9767.4	9469.9	8784.8	8153.7	7714.1	9124.0	7123.7	4897.0
67.5°	13206.1	13025.1	12380.8	11811.3	11525.1	10289.5	8645.5	7499.0	8101.6	5518.6	3520.2
70°	14537.4	14352.6	14098.7	14560.2	15260.4	12460.4	8709.0	6624.4	6051.1	3668.0	2118.7
72.5°	12800.5	12714.3	13177.7	15121.1	18037.7	13777.5	7872.3	4823.1	3514.5	1947.2	1226.1
73°	11727.9	11709.0	12499.2	14727.9	18057.6	13574.7	7505.6	4482.9	3014.2	1722.7	1121.0
75°	5295.9	5448.5	7180.6	11249.4	15688.7	11185.9	5282.6	2571.7	1702.8	1190.1	846.2
77.5°	1272.6	1325.6	2246.7	5342.3	9907.7	6666.1	2393.5	1271.6	1088.7	840.5	617.8
80°	542.0	560.0	865.1	1973.8	4664.8	2684.4	1103.0	851.9	753.3	586.5	433.0
82.5°	301.3	320.3	490.8	895.4	1882.8	915.3	672.8	593.2	495.6	353.4	281.4
85°	170.6	181.0	287.1	500.3	797.8	367.7	402.7	394.2	279.5	181.9	138.3
87.5°	80.5	87.2	138.3	232.2	312.7	144.0	204.7	225.5	175.3	110.9	72.0
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°	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2
2.5°	2976.3	2993.3	3013.2	3023.7	3033.1	3044.5	3055.9	3055.9	3057.8	3058.7
5°	2955.4	2990.5	3021.8	3035.0	3037.9	3037.9	3035.0	3019.9	3006.6	3012.3
7.5°	2911.8	2963.0	2989.5	2984.8	2948.8	2907.1	2872.0	2829.4	2807.6	2803.8
10°	2849.3	2908.1	2912.8	2865.4	2776.3	2687.3	2613.4	2541.3	2507.2	2498.7
12.5°	2780.1	2834.1	2803.8	2706.2	2563.1	2433.3	2339.5	2266.6	2234.3	2225.8
15°	2724.2	2761.2	2684.4	2530.9	2350.9	2213.5	2135.8	2081.8	2059.0	2052.4
17.5°	2694.9	2702.4	2562.2	2354.7	2163.3	2048.6	2000.3	1974.7	1966.2	1961.4
20°	2709.1	2656.0	2445.6	2190.8	2009.8	1929.2	1917.9	1911.2	1909.3	1906.5
22.5°	2780.1	2641.8	2338.6	2035.4	1875.2	1840.2	1849.6	1848.7	1846.8	1844.9
25°	2907.1	2654.1	2234.3	1887.5	1762.5	1754.9	1771.9	1771.9	1764.4	1764.4
27.5°	3074.8	2679.7	2117.8	1747.3	1660.1	1661.1	1674.3	1670.5	1662.0	1656.3
30°	3279.5	2695.8	1981.3	1621.3	1564.4	1560.6	1564.4	1548.3	1522.7	1520.8
32.5°	3488.9	2675.9	1823.1	1509.5	1463.0	1454.5	1451.7	1428.9	1399.5	1391.0
35°	3678.4	2602.9	1662.0	1420.4	1366.4	1347.4	1360.7	1353.1	1326.6	1319.9
37.5°	3816.8	2467.4	1517.0	1341.7	1297.2	1292.5	1301.0	1303.8	1272.6	1265.9
40°	3909.6	2283.6	1392.9	1275.4	1283.9	1265.9	1237.5	1217.6	1208.1	1205.3
42.5°	3984.5	2092.2	1288.7	1244.1	1286.8	1234.7	1173.1	1140.9	1157.9	1165.5
45°	4070.7	1905.5	1201.5	1205.3	1272.6	1198.7	1128.5	1097.3	1103.9	1105.8
47.5°	4189.1	1678.1	1107.7	1142.8	1225.2	1174.0	1101.1	1056.5	1025.3	1011.0
50°	4353.1	1409.0	1010.1	1072.6	1178.8	1156.0	1058.4	1011.0	953.2	940.0
52.5°	4466.8	1157.9	929.6	1013.9	1137.1	1120.0	1024.3	962.7	902.1	890.7
55°	4405.2	961.8	859.4	948.5	1082.1	1075.5	995.9	913.4	866.1	856.6
57.5°	4097.2	837.6	805.4	886.9	1014.8	1037.6	958.0	871.8	837.6	831.0
60°	3509.8	759.9	771.3	845.2	959.9	999.7	920.1	849.0	826.3	821.5
62.5°	2723.3	707.8	745.7	814.9	917.2	973.1	899.2	846.2	837.6	832.0
65°	1951.0	666.1	718.2	784.6	878.4	948.5	891.7	842.4	844.3	839.5
67.5°	1325.6	629.2	685.1	750.5	840.5	926.7	881.2	829.1	852.8	847.1
70°	927.7	593.2	646.2	706.9	793.1	896.4	862.3	809.2	807.3	784.6
72.5°	723.9	545.8	593.2	646.2	732.5	853.7	824.4	764.7	733.4	709.7
73°	690.8	534.4	579.9	633.0	719.2	843.3	814.0	752.4	717.3	695.5
75°	571.4	485.1	526.8	574.2	662.3	794.1	762.8	696.5	651.9	638.7
77.5°	449.1	415.0	454.8	497.5	583.7	722.0	687.0	623.5	598.9	587.5
80°	332.6	344.0	379.0	416.9	506.0	645.3	614.0	550.5	660.4	633.0
82.5°	234.0	260.6	292.8	326.9	424.5	570.4	532.5	467.1	483.3	401.8
85°	138.3	170.6	200.9	230.3	306.1	472.8	439.7	372.4	305.1	290.9
87.5°	80.5	94.8	103.3	133.6	210.4	356.3	309.9	275.7	158.2	107.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)