

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: P269738

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-T2-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33095.5 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

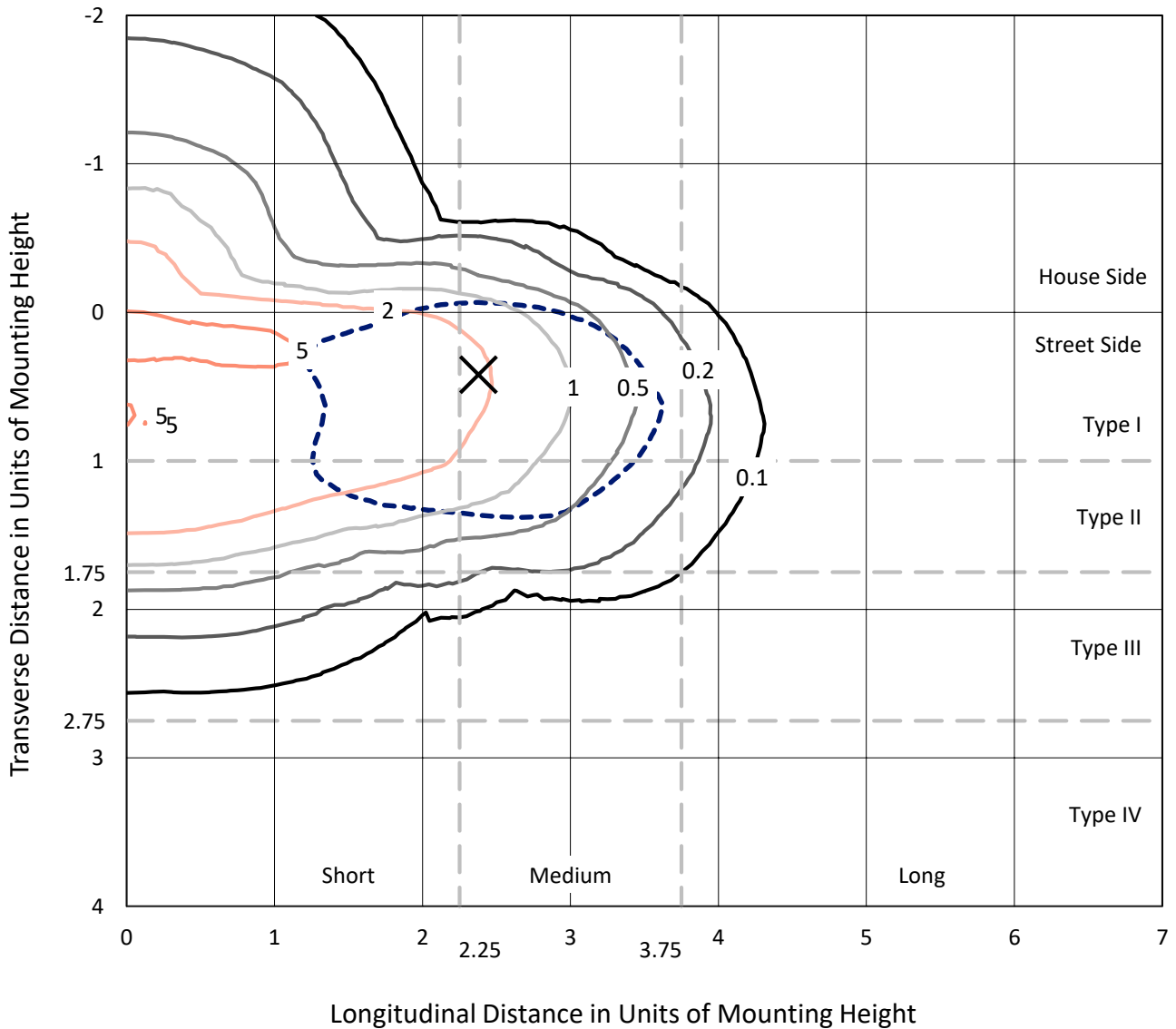


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### Iso-Footcandle Lines of Horizontal Illumination

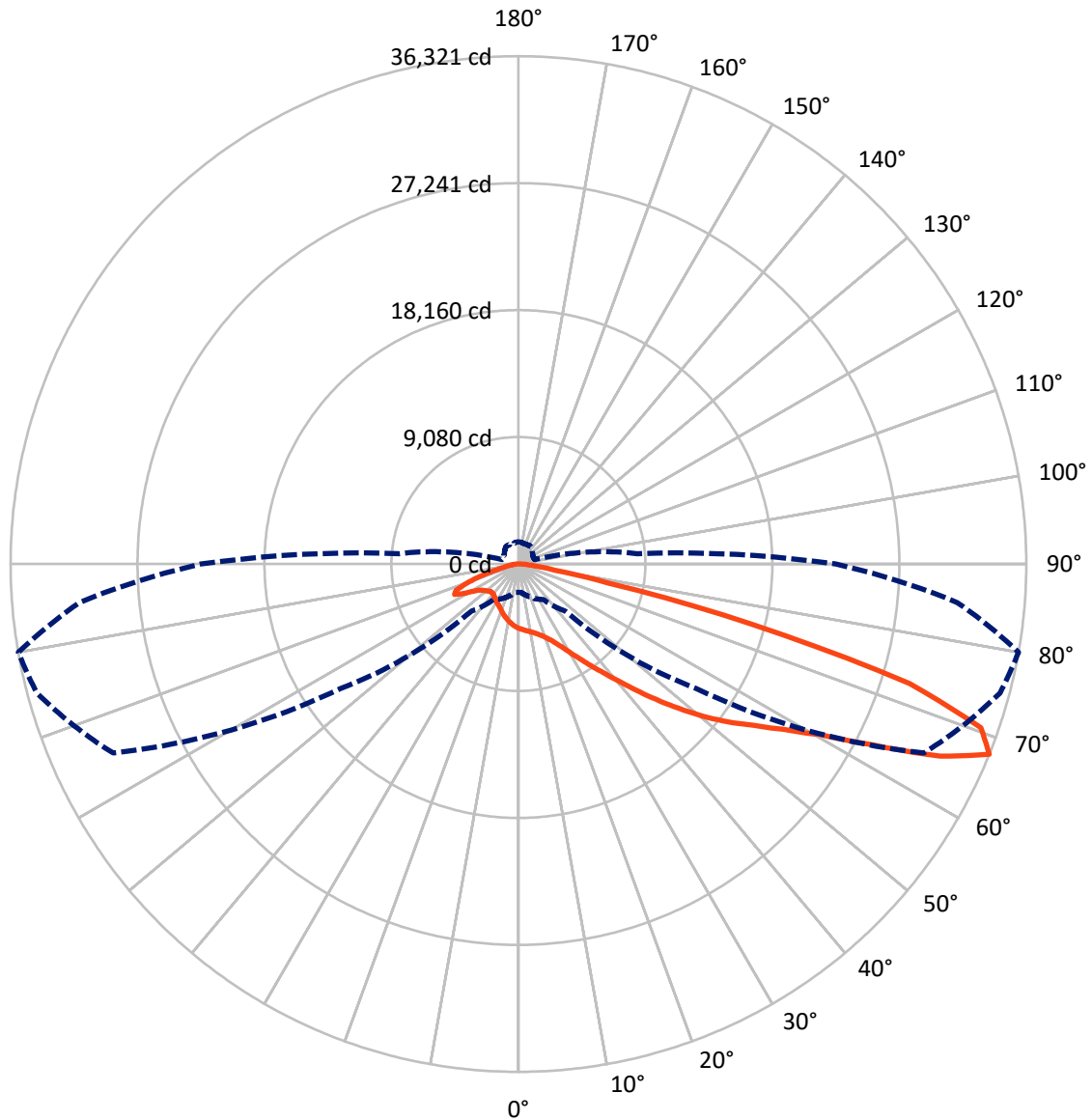
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6094.9	0.0	6094.9
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	27000.6	0.0	27000.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	33095.5	0.0	33095.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.1	1.3
10°-20°	1221.8	3.7
20°-30°	2022.4	6.1
30°-40°	3308.1	10.0
40°-50°	5341.2	16.1
50°-60°	7711.2	23.3
60°-70°	8509.8	25.7
70°-80°	3922.5	11.9
80°-90°	634.4	1.9
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°	33095.5	100.0
0°-180°	33095.5	100.0



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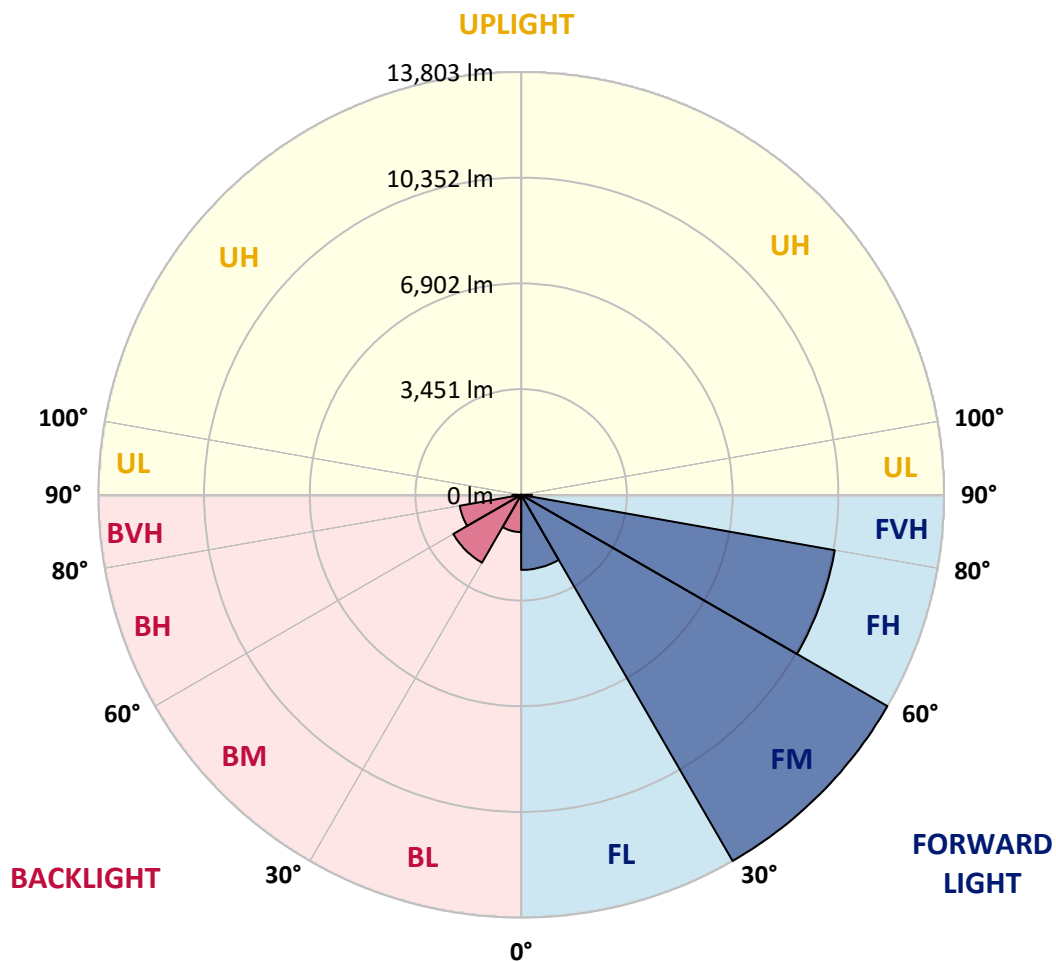
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.3	7.4			
FM (30°-60°)	13803.3	41.7			
FH (60°-80°)	10396.2	31.4			G4/12000
FVH (80°-90°)	348.8	1.1			G3/500
BL (0°-30°)	1216.0	3.7	B3/2500		
BM (30°-60°)	2557.2	7.7	B3/5000		
BH (60°-80°)	2036.1	6.2	B3/2500		G3/2500
BVH (80°-90°)	285.6	0.9			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0
2.5°	5029.7	5000.3	5005.3	4997.1	4972.7	4930.3	4884.8	4801.6	4715.3	4669.6	4633.7
5°	5450.0	5441.9	5430.6	5404.5	5342.5	5254.5	5145.4	4998.8	4840.6	4757.7	4677.7
7.5°	5764.6	5759.7	5745.0	5728.8	5668.3	5562.5	5397.9	5189.4	4959.6	4845.5	4721.9
10°	5790.7	5798.7	5810.1	5854.2	5862.2	5805.2	5637.5	5384.9	5083.5	4936.8	4778.9
12.5°	5569.0	5586.9	5630.9	5743.4	5862.2	5932.3	5846.0	5590.2	5228.4	5050.9	4850.5
15°	5275.7	5285.4	5339.3	5494.0	5707.6	5924.2	6005.7	5816.6	5415.8	5197.6	4958.0
17.5°	5150.3	5155.2	5192.7	5295.2	5494.0	5803.6	6095.3	6062.8	5645.6	5379.9	5089.9
20°	5086.7	5098.2	5151.9	5252.8	5378.4	5648.8	6108.4	6328.3	5919.3	5608.1	5256.3
22.5°	5267.7	5262.7	5282.3	5332.8	5438.7	5601.7	6098.6	6602.1	6268.1	5901.3	5472.8
25°	5689.5	5707.6	5673.2	5616.3	5650.5	5764.6	6150.6	6898.5	6704.6	6277.7	5756.3
27.5°	6290.8	6272.9	6222.4	6088.7	6018.7	6067.6	6323.3	7217.9	7247.2	6773.1	6131.1
30°	6890.4	6875.7	6826.8	6663.8	6520.5	6479.8	6659.0	7584.5	7894.0	7367.8	6590.5
32.5°	7512.7	7496.4	7450.9	7287.9	7115.2	7020.8	7136.5	8008.1	8656.5	8078.2	7131.6
35°	8280.1	8249.2	8153.0	7926.6	7757.1	7683.8	7737.6	8540.8	9536.3	8918.9	7788.1
37.5°	9001.9	9049.3	8951.5	8638.6	8418.6	8392.7	8453.0	9191.0	10484.7	9859.0	8542.5
40°	9727.0	9735.2	9647.2	9391.4	9164.9	9122.6	9274.1	9979.6	11603.9	10983.2	9459.8
42.5°	10476.6	10492.8	10344.5	10108.3	9942.1	9950.3	10123.0	10903.4	12888.0	12307.9	10515.6
45°	11364.5	11388.9	11225.9	10916.5	10764.8	11069.5	10997.9	11939.6	14295.6	13813.3	11727.8
47.5°	12293.2	12330.7	12206.9	11916.8	11727.8	12146.5	11872.9	13088.3	15810.9	15428.0	13059.0
50°	12799.9	12853.7	12974.3	12953.1	12912.3	12842.3	12848.7	14320.2	17373.4	17109.5	14427.6
52.5°	12527.9	12526.1	12966.1	13500.5	14070.8	14113.1	14038.3	15618.7	18833.2	18753.5	15716.3
55°	11283.0	11367.7	12034.1	13068.7	14626.5	15599.1	15820.7	17106.2	20267.1	20359.9	17024.8
57.5°	9210.5	9280.6	10180.0	11621.9	13876.8	16482.2	18355.8	19268.4	21870.3	22303.7	18766.5
60°	6246.9	6331.6	7284.6	9016.6	11859.9	15990.1	20769.0	23126.5	23789.6	24775.4	21210.5
62.5°	3670.8	3747.4	4524.7	5688.0	8350.3	13704.3	21827.9	28615.7	26838.1	28504.8	24938.3
65°	2527.1	2579.3	2957.2	3540.5	4798.3	9230.1	20514.8	32405.5	31528.9	33125.7	29260.9
67.5°	2033.5	2026.8	2326.7	2724.2	3089.2	4759.2	15512.7	31977.0	35654.4	36320.8	31504.5
70°	1674.9	1668.4	1872.1	2201.1	2468.5	2680.3	8449.6	26984.7	34813.6	35084.2	29438.5
72.5°	1401.3	1407.7	1538.1	1782.4	2025.3	2018.8	3713.2	18983.3	27387.2	29257.6	23467.1
75°	1182.9	1186.1	1272.4	1445.3	1644.0	1626.0	2013.8	10284.2	15920.0	17221.9	13008.4
77.5°	1006.9	1010.1	1065.6	1161.7	1303.4	1297.0	1469.6	4443.1	6641.1	6559.7	4449.7
80°	897.8	897.8	923.8	941.8	1019.9	990.7	1090.1	2134.5	2807.4	2592.2	1775.9
82.5°	703.8	707.1	866.9	860.2	803.3	765.7	765.7	1257.8	1487.6	1375.1	1039.5
85°	396.0	394.3	558.8	674.5	707.1	539.3	534.4	703.8	809.7	713.7	503.5
87.5°	169.4	172.7	259.0	299.9	400.9	335.6	330.8	363.4	412.2	356.8	233.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0	4598.0
2.5°	4599.5	4557.2	4464.3	4348.6	4244.4	4176.0	4114.1	4024.3	4029.3	3967.4	3921.8
5°	4596.3	4508.4	4293.3	4037.4	3791.4	3613.8	3480.3	3359.7	3330.3	3273.3	3239.1
7.5°	4599.5	4456.2	4094.5	3685.6	3380.9	3155.9	3041.9	2978.4	2963.7	2944.1	2945.8
10°	4611.0	4408.9	3876.1	3356.3	3037.1	2888.8	2861.1	2880.7	2903.4	2910.0	2911.5
12.5°	4637.1	4366.7	3636.7	3063.1	2821.9	2776.3	2823.6	2890.3	2934.5	2955.6	2953.9
15°	4695.7	4334.1	3406.9	2833.3	2703.0	2727.4	2815.5	2910.0	2973.5	3002.9	3004.6
17.5°	4759.2	4286.7	3170.7	2657.5	2615.1	2676.9	2786.2	2896.9	2975.1	3007.7	3014.3
20°	4842.4	4228.1	2922.9	2525.4	2532.0	2602.0	2704.6	2815.5	2901.9	2929.6	2942.6
22.5°	4951.5	4164.5	2706.4	2417.9	2437.5	2491.2	2571.0	2667.2	2742.2	2755.2	2766.6
25°	5098.2	4096.1	2533.6	2320.1	2328.2	2359.3	2412.9	2470.1	2522.3	2507.4	2518.9
27.5°	5295.2	4037.4	2404.9	2230.5	2215.8	2222.3	2250.1	2268.0	2295.7	2254.9	2259.9
30°	5526.6	3973.9	2305.5	2152.2	2111.6	2100.1	2106.7	2116.4	2137.6	2082.4	2074.1
32.5°	5795.4	3897.3	2212.6	2083.9	2026.8	2004.1	2007.4	2033.5	2114.9	2080.7	2062.7
35°	6108.4	3811.0	2114.9	2009.0	1969.9	1937.3	1934.1	2015.4	2258.2	2237.0	2220.8
37.5°	6475.0	3724.6	2017.1	1924.2	1927.6	1891.7	1880.2	1973.0	2285.9	2202.9	2191.4
40°	6940.9	3679.0	1934.1	1834.6	1875.3	1870.5	1847.6	1894.9	2103.4	1951.9	1932.3
42.5°	7517.6	3685.6	1872.1	1738.5	1813.4	1865.6	1829.7	1831.4	1906.4	1792.3	1774.3
45°	8229.7	3762.1	1828.1	1662.0	1743.4	1860.7	1823.2	1797.1	1803.6	1743.4	1733.5
47.5°	9060.7	3920.2	1797.1	1598.4	1676.5	1842.8	1821.6	1787.4	1772.6	1740.0	1731.9
50°	9984.4	4149.9	1774.3	1538.1	1616.3	1813.4	1823.2	1777.6	1761.2	1748.2	1743.4
52.5°	10891.9	4412.1	1740.0	1485.9	1569.0	1777.6	1828.1	1767.9	1749.9	1740.0	1735.3
55°	11903.8	4739.6	1687.9	1442.0	1530.0	1731.9	1828.1	1753.1	1733.5	1735.3	1733.5
57.5°	13270.8	5269.2	1626.0	1404.5	1482.7	1676.5	1797.1	1736.9	1712.3	1714.1	1715.7
60°	15406.8	6202.7	1551.2	1367.0	1424.1	1611.4	1754.7	1701.0	1676.5	1683.1	1684.7
62.5°	18548.2	7573.2	1453.4	1311.5	1362.1	1541.3	1696.1	1655.3	1631.0	1647.2	1647.2
65°	21813.4	8782.0	1332.7	1241.5	1297.0	1464.7	1622.8	1598.4	1573.9	1611.4	1609.8
67.5°	22691.5	8511.6	1212.3	1164.9	1231.8	1380.1	1534.8	1521.8	1508.8	1573.9	1570.6
70°	20158.0	6833.3	1101.4	1086.8	1160.2	1288.8	1440.3	1440.3	1432.2	1481.0	1469.6
72.5°	15358.0	4845.5	995.5	1003.6	1078.7	1189.4	1337.7	1349.1	1336.0	1360.5	1350.7
75°	8221.6	2773.1	889.6	912.4	977.5	1088.3	1223.6	1235.0	1226.8	1225.3	1230.0
77.5°	2732.4	1355.6	778.8	814.7	871.6	984.2	1104.6	1122.6	1103.1	1099.7	1098.2
80°	1217.2	852.1	656.7	703.8	754.3	865.2	979.2	993.9	972.8	1002.0	964.6
82.5°	782.1	560.5	526.2	578.4	627.2	746.2	853.7	857.1	837.5	972.8	829.3
85°	379.7	347.0	396.0	443.1	485.5	586.6	707.1	708.8	659.9	601.2	580.0
87.5°	189.1	201.9	263.9	306.3	327.5	402.4	514.9	505.0	483.8	439.9	405.8
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)