

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: P193915

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193915  
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-07-LED-E1-T2-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33715 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 391  
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

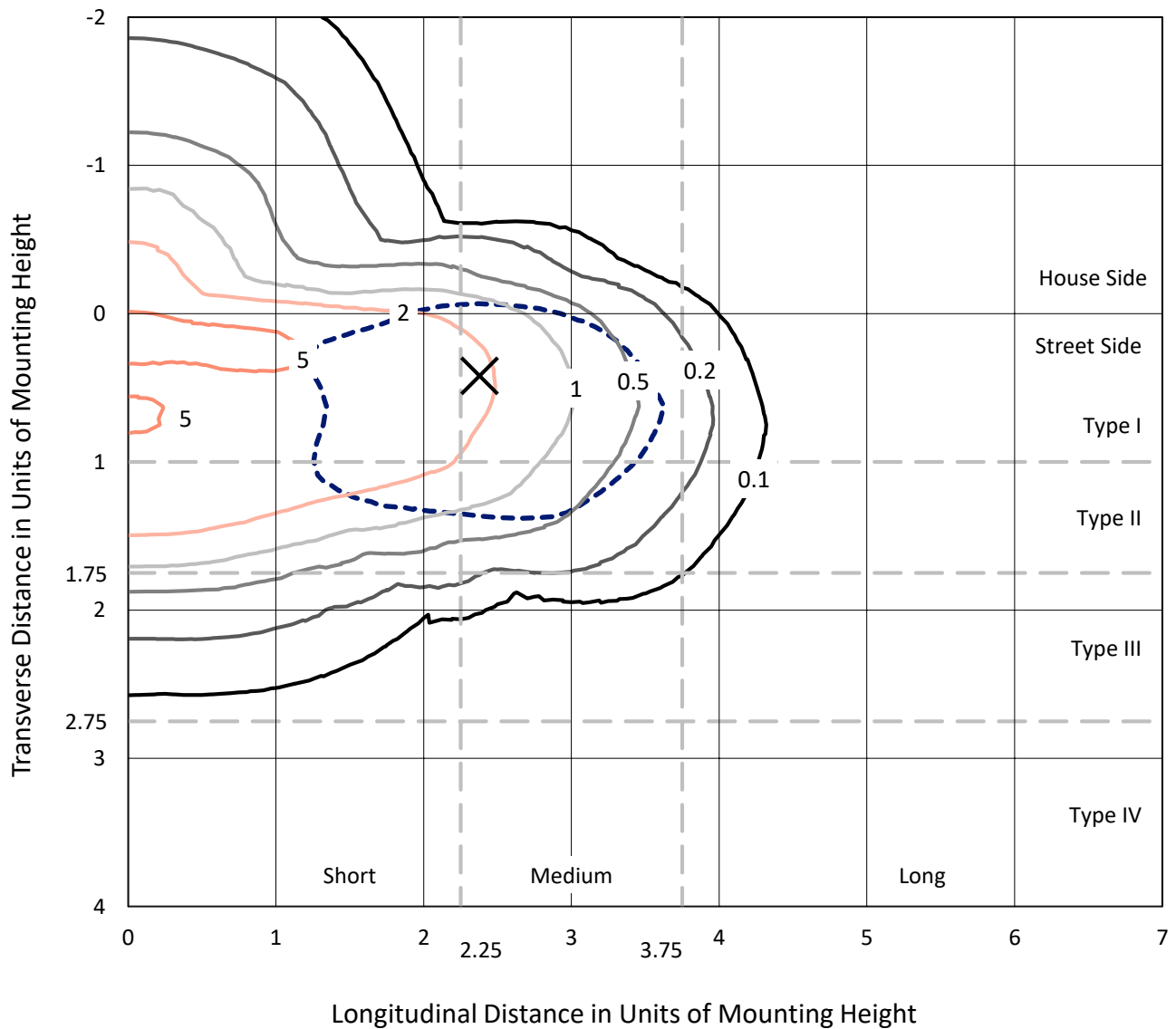


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

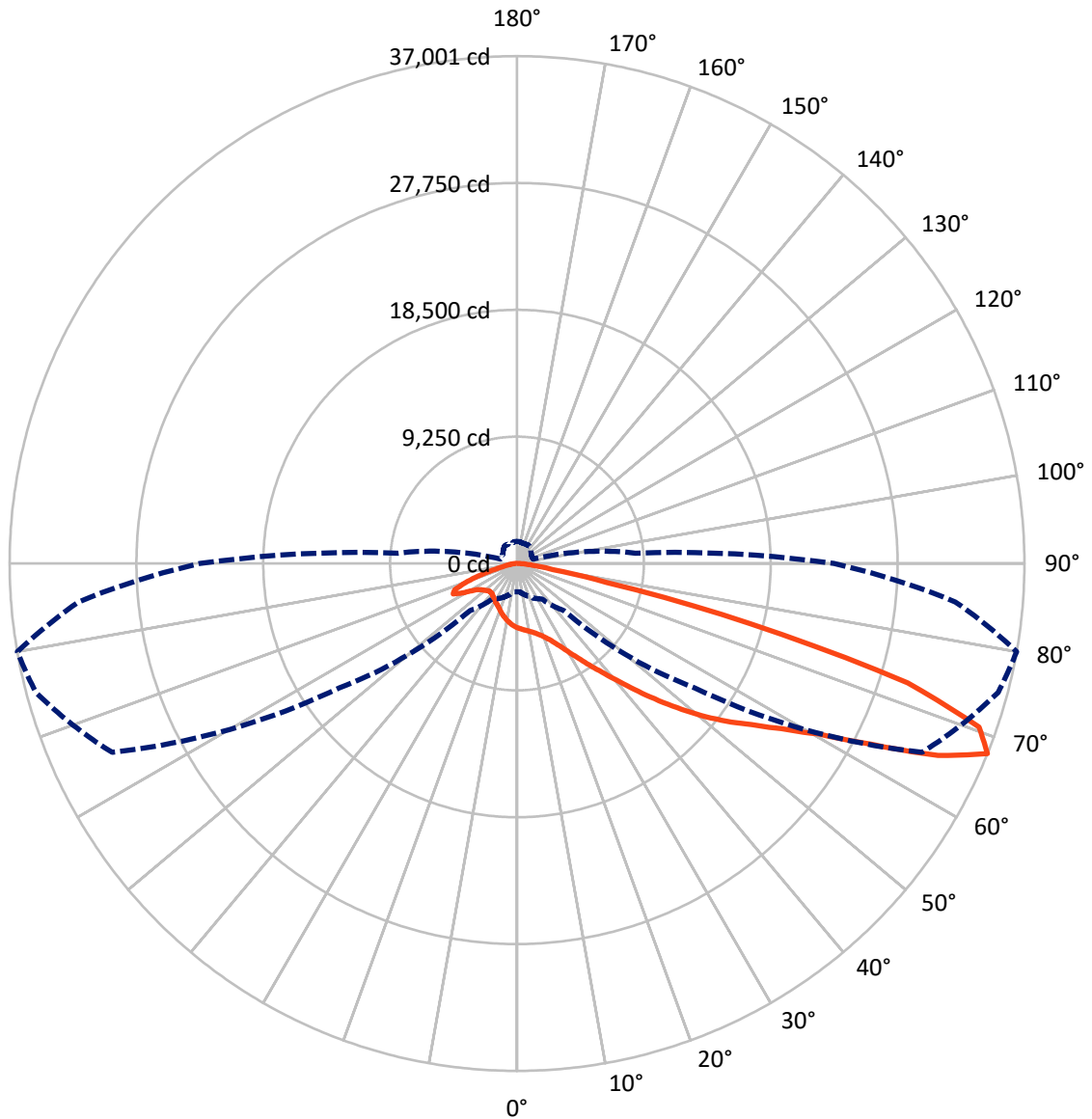


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Medium - Full Cutoff

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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	6209.0	0.0	6209.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	27506.0	0.0	27506.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	33715.0	0.0	33715.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.1	1.3
10°-20°	1244.7	3.7
20°-30°	2060.2	6.1
30°-40°	3370.0	10.0
40°-50°	5441.2	16.1
50°-60°	7855.5	23.3
60°-70°	8669.1	25.7
70°-80°	3995.9	11.9
80°-90°	646.3	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°	33715.0	100.0
0°-180°	33715.0	100.0



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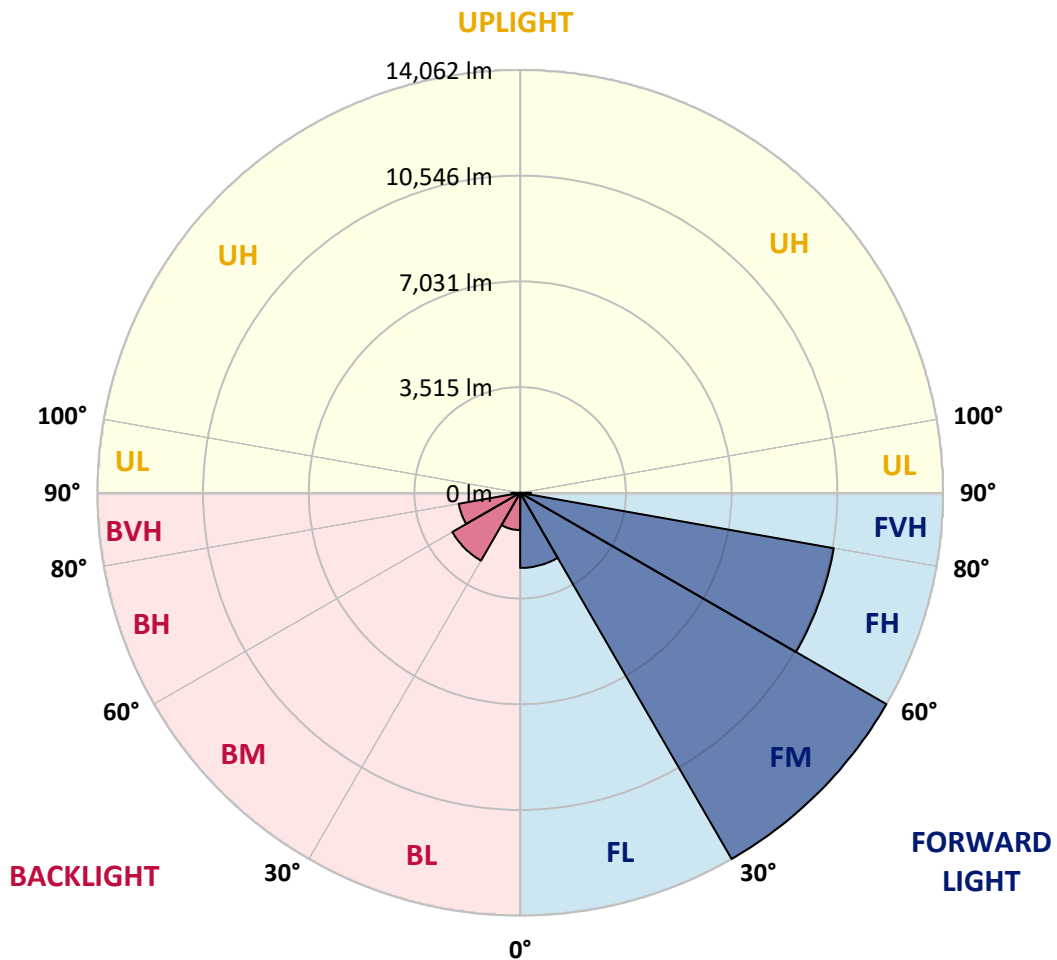
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2498.2	7.4			
FM (30°-60°)	14061.7	41.7			
FH (60°-80°)	10590.8	31.4			G4/12000
FVH (80°-90°)	355.3	1.1			G3/500
BL (0°-30°)	1238.8	3.7	B3/2500		
BM (30°-60°)	2605.1	7.7	B3/5000		
BH (60°-80°)	2074.2	6.2	B3/2500		G3/2500
BVH (80°-90°)	291.0	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°	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0
2.5°	5123.8	5094.0	5098.9	5090.6	5065.8	5022.6	4976.1	4891.5	4803.5	4757.0	4720.5
5°	5552.1	5543.8	5532.2	5505.6	5442.5	5352.9	5241.7	5092.3	4931.3	4846.7	4765.3
7.5°	5872.4	5867.4	5852.5	5835.9	5774.5	5666.6	5499.0	5286.5	5052.5	4936.3	4810.1
10°	5899.0	5907.3	5918.9	5963.7	5972.0	5913.9	5743.0	5485.7	5178.6	5029.2	4868.2
12.5°	5673.2	5691.5	5736.3	5850.8	5972.0	6043.4	5955.4	5694.8	5326.3	5145.4	4941.3
15°	5374.5	5384.4	5439.2	5596.9	5814.3	6035.1	6118.1	5925.5	5517.2	5294.8	5050.8
17.5°	5246.7	5251.7	5289.8	5394.4	5596.9	5912.3	6209.4	6176.2	5751.3	5480.7	5185.3
20°	5181.9	5193.6	5248.3	5351.2	5479.0	5754.6	6222.6	6446.7	6030.1	5713.1	5354.6
22.5°	5366.2	5361.2	5381.1	5432.6	5540.5	5706.4	6212.7	6725.6	6385.3	6011.8	5575.3
25°	5796.1	5814.3	5779.5	5721.4	5756.2	5872.4	6265.8	7027.7	6830.1	6395.3	5864.1
27.5°	6408.5	6390.3	6338.8	6202.7	6131.4	6181.1	6441.7	7353.0	7382.9	6899.8	6245.9
30°	7019.4	7004.4	6954.6	6788.6	6642.6	6601.1	6783.7	7726.4	8041.8	7505.7	6713.9
32.5°	7653.4	7636.8	7590.3	7424.3	7248.4	7152.1	7270.0	8158.0	8818.6	8229.4	7265.0
35°	8435.2	8403.6	8305.7	8075.0	7902.4	7827.7	7882.5	8700.7	9714.9	9085.8	7933.9
37.5°	9170.5	9218.6	9119.0	8800.3	8576.3	8549.7	8611.1	9363.0	10680.9	10043.5	8702.4
40°	9909.1	9917.4	9827.8	9567.2	9336.5	9293.3	9447.7	10166.4	11821.2	11188.8	9636.9
42.5°	10672.6	10689.2	10538.2	10297.5	10128.2	10136.5	10312.4	11107.5	13129.1	12538.2	10712.4
45°	11577.2	11602.1	11436.1	11120.8	10966.4	11276.8	11203.7	12163.1	14563.2	14071.9	11947.3
47.5°	12523.3	12561.5	12435.3	12139.9	11947.3	12373.9	12095.1	13333.3	16106.8	15716.8	13303.4
50°	13039.5	13094.3	13217.1	13195.5	13154.0	13082.7	13089.3	14588.1	17698.6	17429.7	14697.6
52.5°	12762.3	12760.6	13208.8	13753.2	14334.2	14377.3	14301.0	15911.0	19185.8	19104.5	16010.6
55°	11494.2	11580.5	12259.4	13313.4	14900.1	15891.1	16116.8	17426.4	20646.4	20741.0	17343.4
57.5°	9382.9	9454.3	10370.5	11839.5	14136.6	16790.7	18699.5	19629.0	22279.7	22721.2	19117.7
60°	6363.7	6450.0	7421.0	9185.4	12081.8	16289.4	21157.6	23559.4	24234.9	25239.1	21607.5
62.5°	3739.6	3817.6	4609.3	5794.4	8506.5	13960.7	22236.5	29151.3	27340.5	29038.4	25405.1
65°	2574.4	2627.5	3012.6	3606.8	4888.2	9402.8	20898.7	33012.0	32119.1	33745.7	29808.6
67.5°	2071.4	2064.8	2370.2	2775.2	3147.0	4848.3	15803.1	32575.5	36321.7	37000.6	32094.2
70°	1706.3	1699.6	1907.1	2242.4	2514.6	2730.4	8607.8	27489.8	35465.2	35740.8	29989.5
72.5°	1427.4	1434.1	1566.9	1815.8	2063.1	2056.5	3782.7	19338.5	27899.8	29805.3	23906.3
75°	1205.0	1208.3	1296.3	1472.3	1674.8	1656.5	2051.5	10476.7	16218.0	17544.2	13252.0
77.5°	1025.8	1029.1	1085.5	1183.4	1327.9	1321.2	1497.2	4526.3	6765.4	6682.4	4533.0
80°	914.6	914.6	941.1	959.4	1039.0	1009.2	1110.4	2174.4	2859.9	2640.8	1809.2
82.5°	717.0	720.4	883.0	876.4	818.3	780.1	780.1	1281.4	1515.4	1400.9	1059.0
85°	403.3	401.7	569.3	687.2	720.4	549.4	544.4	717.0	824.9	727.0	512.9
87.5°	172.6	175.9	263.9	305.4	408.3	341.9	336.9	370.1	419.9	363.5	237.4
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°	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0	4684.0
2.5°	4685.7	4642.5	4547.9	4430.0	4323.8	4254.1	4191.0	4099.7	4104.7	4041.6	3995.2
5°	4682.3	4592.7	4373.6	4113.0	3862.4	3681.5	3545.4	3422.5	3392.7	3334.6	3299.7
7.5°	4685.7	4539.6	4171.1	3754.5	3444.1	3215.1	3098.9	3034.1	3019.2	2999.3	3000.9
10°	4697.3	4491.5	3948.7	3419.2	3093.9	2942.8	2914.6	2934.6	2957.8	2964.4	2966.1
12.5°	4723.8	4448.3	3704.7	3120.4	2874.8	2828.3	2876.5	2944.5	2989.3	3010.9	3009.2
15°	4783.6	4415.1	3470.7	2886.4	2753.6	2778.5	2868.2	2964.4	3029.2	3059.0	3060.7
17.5°	4848.3	4367.0	3230.0	2707.2	2664.0	2727.1	2838.3	2951.1	3030.8	3064.0	3070.7
20°	4933.0	4307.2	2977.7	2572.7	2579.4	2650.7	2755.3	2868.2	2956.1	2984.3	2997.6
22.5°	5044.2	4242.5	2757.0	2463.2	2483.1	2537.9	2619.2	2717.1	2793.5	2806.7	2818.4
25°	5193.6	4172.8	2581.0	2363.6	2371.9	2403.4	2458.2	2516.3	2569.4	2554.5	2566.1
27.5°	5394.4	4113.0	2449.9	2272.3	2257.3	2264.0	2292.2	2310.5	2338.7	2297.2	2302.2
30°	5630.1	4048.3	2348.6	2192.6	2151.1	2139.5	2146.1	2156.1	2177.7	2121.2	2112.9
32.5°	5904.0	3970.3	2254.0	2122.9	2064.8	2041.6	2044.9	2071.4	2154.4	2119.6	2101.3
35°	6222.6	3882.3	2154.4	2046.6	2006.7	1973.5	1970.2	2053.2	2300.5	2278.9	2262.3
37.5°	6596.1	3794.3	2054.8	1960.2	1963.6	1927.0	1915.4	2010.0	2328.7	2244.1	2232.4
40°	7070.8	3747.9	1970.2	1869.0	1910.4	1905.5	1882.2	1930.4	2142.8	1988.5	1968.5
42.5°	7658.4	3754.5	1907.1	1771.0	1847.4	1900.5	1864.0	1865.6	1942.0	1825.8	1807.5
45°	8383.7	3832.5	1862.3	1693.0	1776.0	1895.5	1857.3	1830.8	1837.4	1776.0	1766.0
47.5°	9230.2	3993.5	1830.8	1628.3	1707.9	1877.2	1855.7	1820.8	1805.9	1772.7	1764.4
50°	10171.3	4227.5	1807.5	1566.9	1646.5	1847.4	1857.3	1810.9	1794.3	1781.0	1776.0
52.5°	11095.9	4494.8	1772.7	1513.8	1598.4	1810.9	1862.3	1800.9	1782.6	1772.7	1767.7
55°	12126.6	4828.4	1719.6	1468.9	1558.6	1764.4	1862.3	1786.0	1766.0	1767.7	1766.0
57.5°	13519.2	5367.8	1656.5	1430.8	1510.4	1707.9	1830.8	1769.4	1744.5	1746.1	1747.8
60°	15695.2	6318.9	1580.1	1392.6	1450.7	1641.6	1787.6	1732.8	1707.9	1714.6	1716.2
62.5°	18895.3	7714.8	1480.6	1336.1	1387.6	1570.2	1727.9	1686.4	1661.5	1678.1	1678.1
65°	22221.6	8946.4	1357.7	1264.8	1321.2	1492.2	1653.2	1628.3	1603.4	1641.6	1639.9
67.5°	23116.2	8670.9	1234.9	1186.8	1254.8	1405.9	1563.5	1550.3	1537.0	1603.4	1600.1
70°	20535.2	6961.3	1122.0	1107.1	1181.8	1312.9	1467.3	1467.3	1459.0	1508.8	1497.2
72.5°	15645.4	4936.3	1014.1	1022.4	1098.8	1211.7	1362.7	1374.3	1361.0	1385.9	1376.0
75°	8375.4	2825.0	906.3	929.5	995.9	1108.8	1246.5	1258.1	1249.8	1248.2	1253.2
77.5°	2783.5	1381.0	793.4	829.9	888.0	1002.5	1125.4	1143.6	1123.7	1120.4	1118.7
80°	1239.9	868.1	668.9	717.0	768.5	881.4	997.5	1012.5	990.9	1020.8	982.6
82.5°	796.7	571.0	536.1	589.2	639.0	760.2	869.7	873.1	853.1	990.9	844.8
85°	386.7	353.5	403.3	451.5	494.6	597.5	720.4	722.0	672.2	612.5	590.9
87.5°	192.5	205.8	268.9	312.0	333.6	410.0	524.5	514.5	493.0	448.1	413.3
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)