

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: P193898

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193898  
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-T2-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31084 lumens  
Efficiency: N/A  
Efficacy: 96.2 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 (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

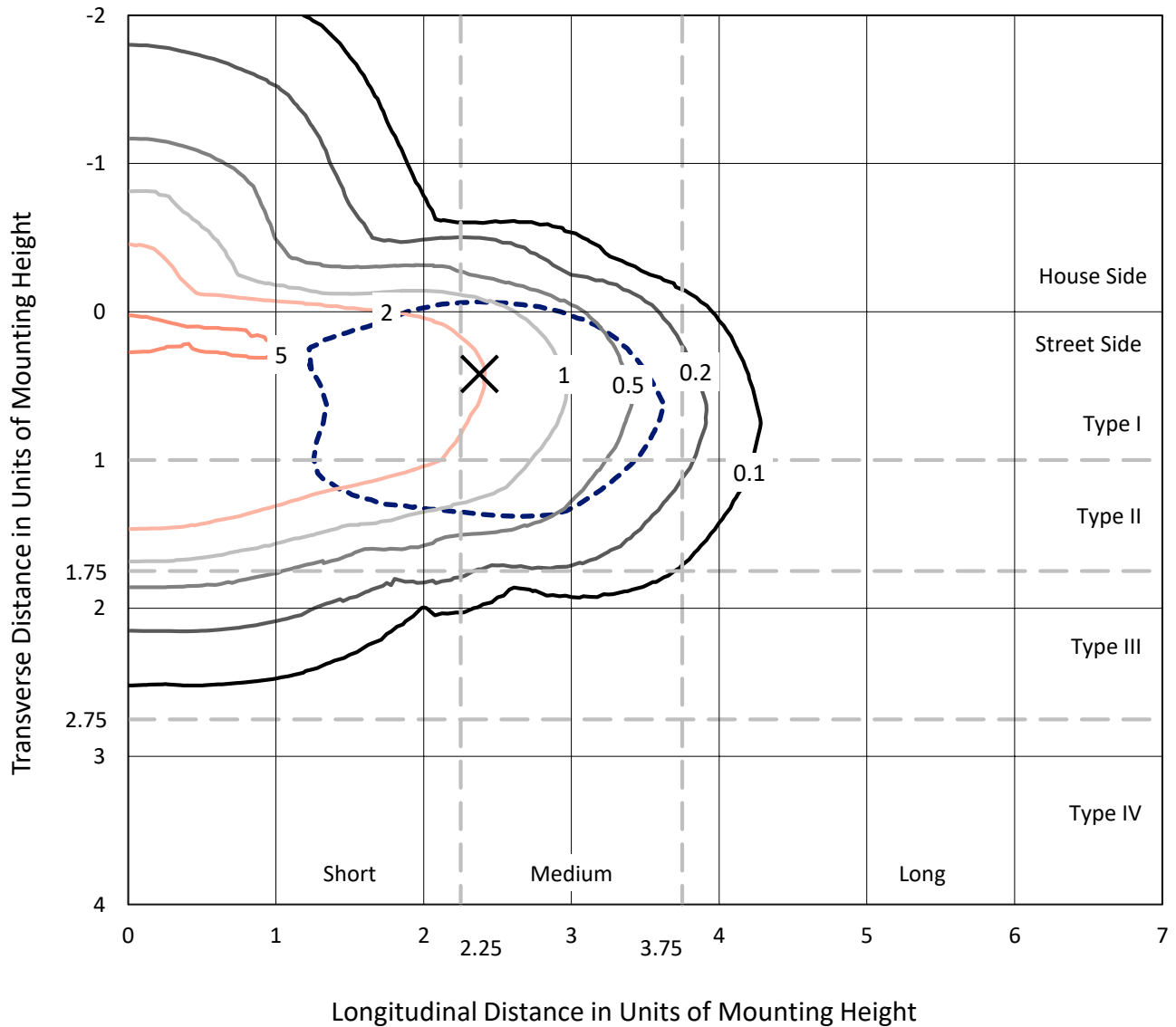


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### Iso-Footcandle Lines of Horizontal Illumination

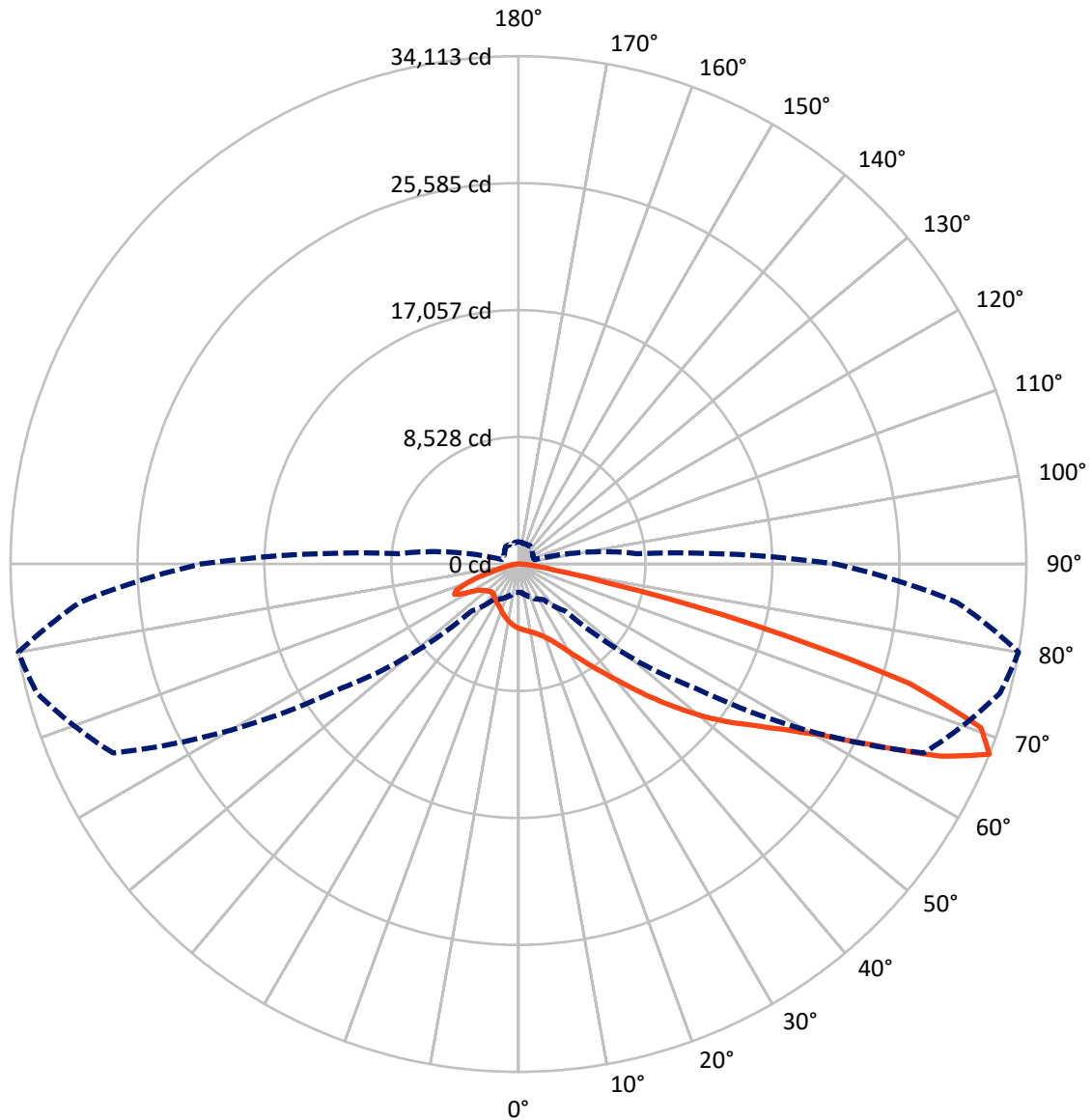
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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	5724.5	0.0	5724.5
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	25359.5	0.0	25359.5
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	31084.0	0.0	31084.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.4	1.3
10°-20°	1147.6	3.7
20°-30°	1899.5	6.1
30°-40°	3107.0	10.0
40°-50°	5016.6	16.1
50°-60°	7242.5	23.3
60°-70°	7992.6	25.7
70°-80°	3684.1	11.9
80°-90°	595.9	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°	31084.0	100.0
0°-180°	31084.0	100.0



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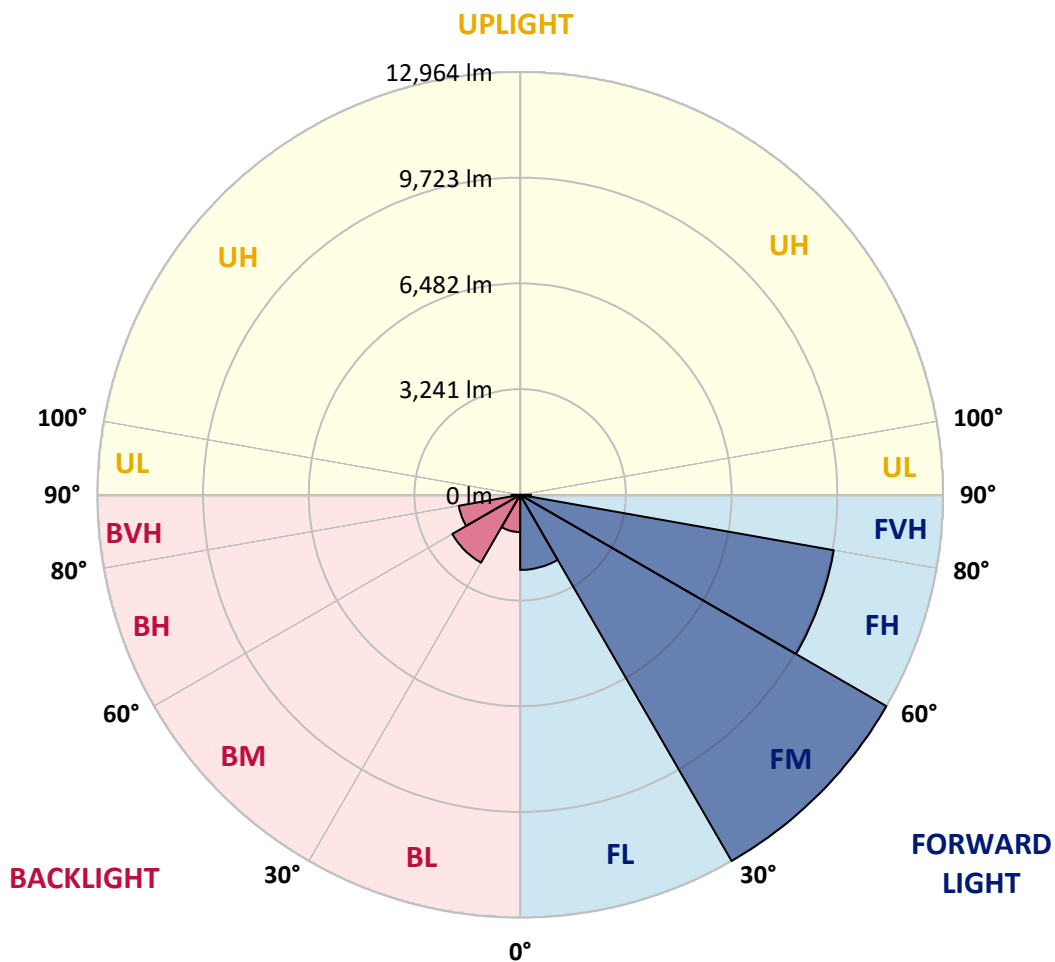
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2303.3	7.4			
FM (30°-60°)	12964.3	41.7			
FH (60°-80°)	9764.3	31.4			G4/12000
FVH (80°-90°)	327.6	1.1			G3/500
BL (0°-30°)	1142.1	3.7	B3/2500		
BM (30°-60°)	2401.8	7.7	B2/2500		
BH (60°-80°)	1912.3	6.2	B3/2500		G3/2500
BVH (80°-90°)	268.3	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°	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5
2.5°	4724.0	4696.5	4701.0	4693.4	4670.4	4630.7	4587.8	4509.8	4428.7	4385.8	4352.1
5°	5118.8	5111.2	5100.4	5076.0	5017.8	4935.2	4832.6	4694.9	4546.5	4468.4	4393.5
7.5°	5414.2	5409.6	5395.8	5380.5	5323.9	5224.4	5069.8	4874.0	4658.2	4551.1	4434.8
10°	5438.6	5446.3	5457.0	5498.3	5506.0	5452.4	5294.8	5057.6	4774.5	4636.8	4488.3
12.5°	5230.5	5247.4	5288.7	5394.3	5506.0	5571.8	5490.7	5250.4	4910.7	4743.9	4555.7
15°	4955.1	4964.3	5014.8	5160.1	5360.6	5564.1	5640.6	5463.1	5086.7	4881.6	4656.7
17.5°	4837.2	4841.8	4877.0	4973.4	5160.1	5450.9	5724.8	5694.2	5302.4	5053.0	4780.6
20°	4777.6	4788.3	4838.8	4933.6	5051.5	5305.5	5737.0	5943.6	5559.5	5267.2	4936.7
22.5°	4947.4	4942.8	4961.2	5008.6	5108.1	5261.1	5727.9	6200.7	5887.0	5542.7	5140.2
25°	5343.8	5360.6	5328.5	5274.9	5307.0	5414.2	5776.8	6479.2	6297.1	5896.2	5406.5
27.5°	5908.4	5891.6	5844.2	5718.7	5652.9	5698.8	5939.0	6779.2	6806.7	6361.4	5758.5
30°	6471.6	6457.8	6411.9	6258.9	6124.2	6086.0	6254.3	7123.5	7414.2	6920.0	6190.0
32.5°	7056.2	7040.9	6998.0	6845.0	6682.8	6594.0	6702.7	7521.4	8130.4	7587.2	6698.1
35°	7776.9	7747.8	7657.6	7444.8	7285.7	7216.8	7267.3	8021.8	8956.8	8376.8	7314.8
37.5°	8454.8	8499.2	8407.4	8113.6	7907.0	7882.5	7939.1	8632.4	9847.4	9259.8	8023.3
40°	9135.8	9143.5	9060.8	8820.6	8607.9	8568.1	8710.4	9373.0	10898.7	10315.7	8884.8
42.5°	9839.7	9855.1	9715.8	9493.9	9337.8	9345.5	9507.7	10240.7	12104.6	11559.8	9876.5
45°	10673.8	10696.7	10543.7	10252.9	10110.6	10396.8	10329.4	11213.9	13426.7	12973.8	11015.0
47.5°	11546.0	11581.2	11464.9	11192.5	11015.0	11408.3	11151.2	12292.8	14849.9	14490.3	12265.3
50°	12021.9	12072.4	12185.7	12165.8	12127.5	12061.7	12067.8	13449.7	16317.5	16069.6	13550.7
52.5°	11766.4	11764.9	12178.0	12680.0	13215.6	13255.4	13185.0	14669.3	17688.6	17613.6	14761.2
55°	10597.2	10676.8	11302.7	12274.4	13737.4	14651.0	14859.1	16066.5	19035.2	19122.5	15990.0
57.5°	8650.7	8716.5	9561.2	10915.5	13033.5	15480.4	17240.2	18097.2	20541.1	20948.1	17625.9
60°	5867.1	5946.7	6841.9	8468.6	11139.0	15018.2	19506.6	21720.9	22343.7	23269.6	19921.3
62.5°	3447.7	3519.7	4249.6	5342.2	7842.7	12871.2	20501.3	26876.4	25206.9	26772.4	23422.6
65°	2373.5	2422.4	2777.5	3325.3	4506.7	8669.1	19267.9	30435.9	29612.6	31112.3	27482.4
67.5°	1909.8	1903.7	2185.3	2558.6	2901.4	4470.0	14569.9	30033.4	33487.3	34113.2	29589.6
70°	1573.1	1567.0	1758.3	2067.4	2318.4	2517.3	7936.1	25344.6	32697.7	32951.7	27649.2
72.5°	1316.0	1322.2	1444.6	1674.1	1902.1	1896.0	3487.5	17829.4	25722.6	27479.4	22040.7
75°	1111.0	1114.0	1195.2	1357.4	1544.1	1527.2	1891.4	9659.2	14952.4	16175.1	12217.8
77.5°	945.7	948.8	1000.8	1091.1	1224.2	1218.1	1380.3	4173.1	6237.5	6160.9	4179.2
80°	843.2	843.2	867.7	884.5	958.0	930.4	1023.8	2004.7	2636.7	2434.7	1668.0
82.5°	661.1	664.1	814.1	808.0	754.4	719.2	719.2	1181.4	1397.2	1291.6	976.3
85°	371.9	370.3	524.9	633.5	664.1	506.5	501.9	661.1	760.6	670.3	472.9
87.5°	159.1	162.2	243.3	281.6	376.5	315.2	310.6	341.3	387.2	335.1	218.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5	4318.5
2.5°	4320.0	4280.2	4193.0	4084.3	3986.4	3922.1	3864.0	3779.8	3784.4	3726.3	3683.4
5°	4316.9	4234.3	4032.3	3792.1	3561.0	3394.2	3268.7	3155.5	3127.9	3074.3	3042.2
7.5°	4320.0	4185.3	3845.6	3461.5	3175.3	2964.2	2857.0	2797.4	2783.6	2765.2	2766.8
10°	4330.7	4141.0	3640.6	3152.4	2852.5	2713.2	2687.2	2705.5	2727.0	2733.1	2734.6
12.5°	4355.2	4101.2	3415.6	2876.9	2650.5	2607.6	2652.0	2714.7	2756.0	2775.9	2774.4
15°	4410.3	4070.6	3199.8	2661.2	2538.7	2561.7	2644.3	2733.1	2792.8	2820.3	2821.9
17.5°	4470.0	4026.2	2977.9	2495.9	2456.1	2514.3	2616.8	2720.9	2794.3	2824.9	2831.0
20°	4548.0	3971.1	2745.3	2371.9	2378.1	2443.9	2540.3	2644.3	2725.4	2751.5	2763.7
22.5°	4650.5	3911.4	2541.8	2270.9	2289.3	2339.8	2414.8	2505.1	2575.5	2587.7	2598.4
25°	4788.3	3847.1	2379.6	2179.1	2186.8	2215.9	2266.4	2319.9	2368.9	2355.1	2365.8
27.5°	4973.4	3792.1	2258.7	2095.0	2081.2	2087.3	2113.3	2130.2	2156.2	2117.9	2122.5
30°	5190.7	3732.4	2165.4	2021.5	1983.3	1972.5	1978.7	1987.8	2007.7	1955.7	1948.1
32.5°	5443.2	3660.4	2078.1	1957.2	1903.7	1882.3	1885.3	1909.8	1986.3	1954.2	1937.3
35°	5737.0	3579.3	1986.3	1886.8	1850.1	1819.5	1816.5	1893.0	2121.0	2101.1	2085.8
37.5°	6081.4	3498.2	1894.5	1807.3	1810.3	1776.7	1766.0	1853.2	2147.0	2068.9	2058.2
40°	6519.0	3455.4	1816.5	1723.1	1761.4	1756.8	1735.3	1779.7	1975.6	1833.3	1814.9
42.5°	7060.7	3461.5	1758.3	1632.8	1703.2	1752.2	1718.5	1720.0	1790.4	1683.3	1666.5
45°	7729.5	3533.4	1717.0	1560.9	1637.4	1747.6	1712.4	1687.9	1694.0	1637.4	1628.2
47.5°	8509.9	3681.9	1687.9	1501.2	1574.7	1730.8	1710.9	1678.7	1665.0	1634.3	1626.7
50°	9377.6	3897.6	1666.5	1444.6	1518.0	1703.2	1712.4	1669.5	1654.2	1642.0	1637.4
52.5°	10230.0	4144.0	1634.3	1395.6	1473.7	1669.5	1717.0	1660.4	1643.5	1634.3	1629.8
55°	11180.3	4451.6	1585.4	1354.3	1436.9	1626.7	1717.0	1646.6	1628.2	1629.8	1628.2
57.5°	12464.2	4949.0	1527.2	1319.1	1392.6	1574.7	1687.9	1631.3	1608.3	1609.9	1611.4
60°	14470.4	5825.8	1456.8	1283.9	1337.5	1513.5	1648.1	1597.6	1574.7	1580.8	1582.3
62.5°	17420.8	7112.8	1365.0	1231.9	1279.3	1447.7	1593.0	1554.8	1531.8	1547.1	1547.1
65°	20487.5	8248.3	1251.8	1166.1	1218.1	1375.7	1524.2	1501.2	1478.3	1513.5	1511.9
67.5°	21312.3	7994.2	1138.5	1094.2	1156.9	1296.2	1441.5	1429.3	1417.0	1478.3	1475.2
70°	18932.7	6418.0	1034.5	1020.7	1089.6	1210.5	1352.8	1352.8	1345.1	1391.0	1380.3
72.5°	14424.5	4551.1	935.0	942.7	1013.1	1117.1	1256.4	1267.1	1254.8	1277.8	1268.6
75°	7721.8	2604.5	835.5	857.0	918.2	1022.2	1149.2	1160.0	1152.3	1150.8	1155.4
77.5°	2566.3	1273.2	731.5	765.1	818.7	924.3	1037.5	1054.4	1036.0	1032.9	1031.4
80°	1143.1	800.3	616.7	661.1	708.5	812.6	919.7	933.5	913.6	941.1	905.9
82.5°	734.5	526.4	494.3	543.3	589.2	700.9	801.9	804.9	786.6	913.6	778.9
85°	356.6	326.0	371.9	416.2	456.0	550.9	664.1	665.7	619.8	564.7	544.8
87.5°	177.5	189.8	247.9	287.7	307.6	378.0	483.6	474.4	454.5	413.2	381.0
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)