

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: P298952

Luminaire Tested: **GLNA-AF-07-LED-E1-T2-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298952  
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: GLNA-AF-07-LED-E1-T2-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32176 lumens  
Efficiency: N/A  
Efficacy: 109.1 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): 295  
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

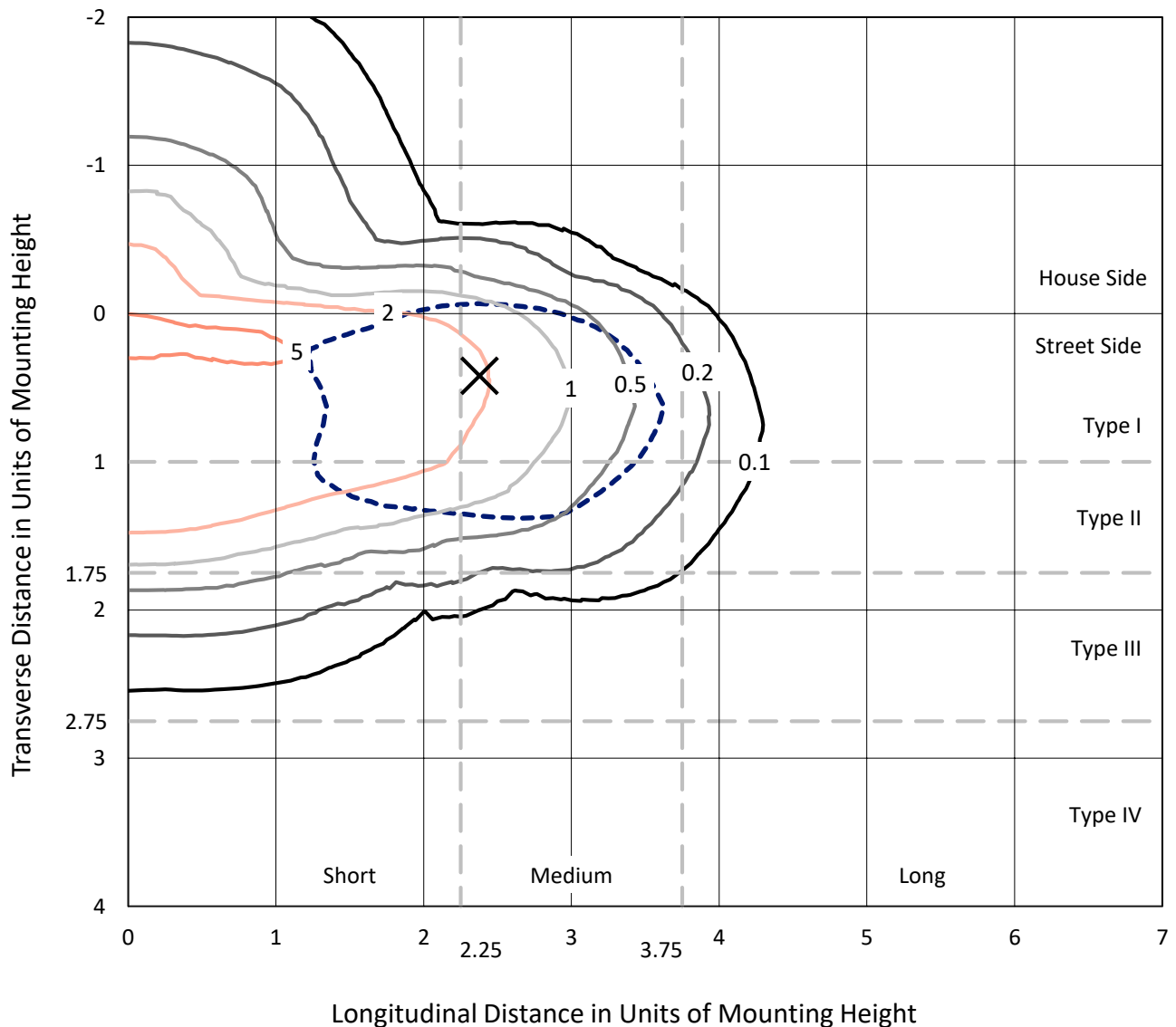


REPORT NUMBER: P298952

CATALOG NUMBER: GLNA-AF-07-LED-E1-T2-7030-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

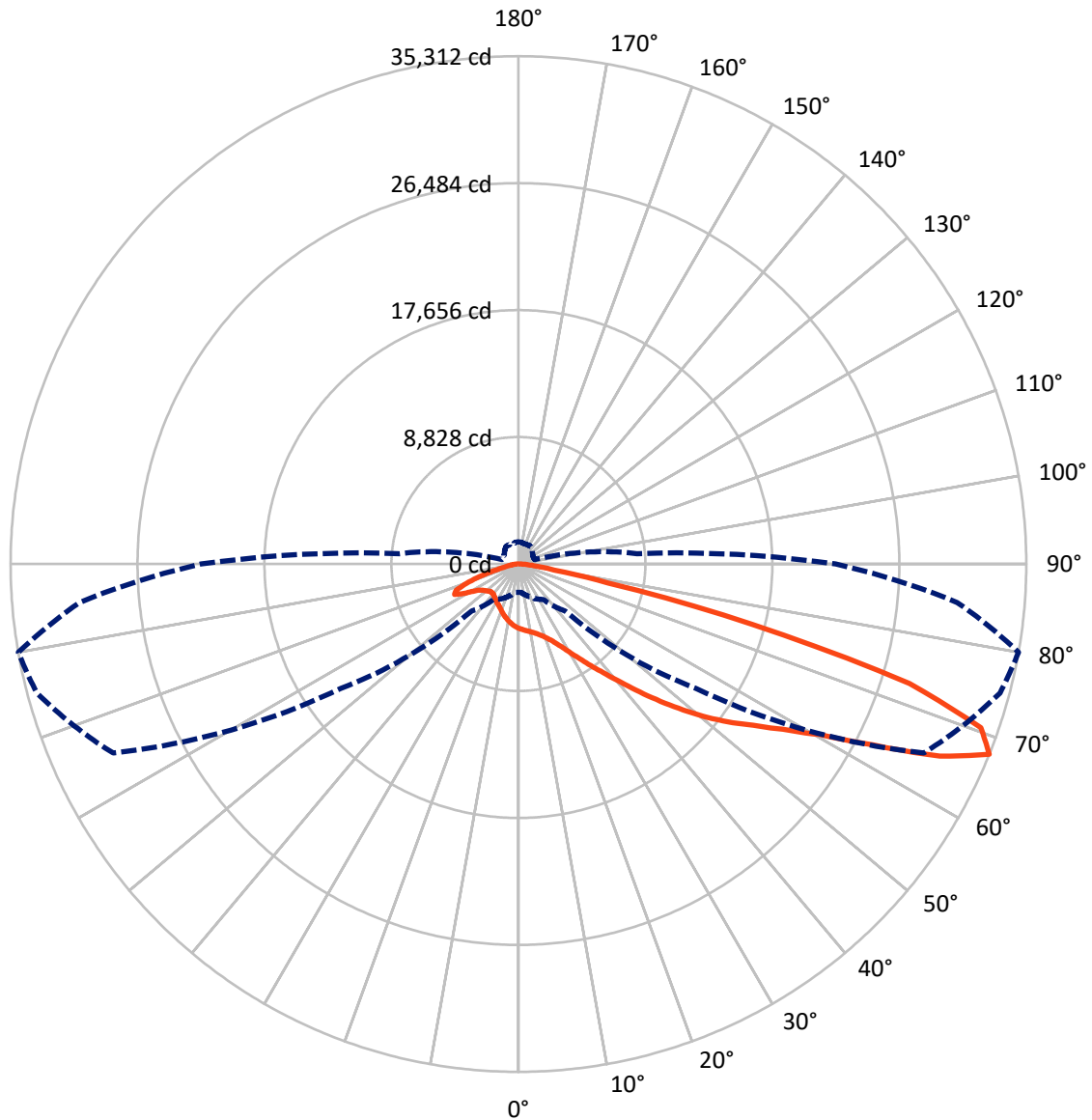


Based on 30 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P298952

CATALOG NUMBER: GLNA-AF-07-LED-E1-T2-7030-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P298952

CATALOG NUMBER: GLNA-AF-07-LED-E1-T2-7030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5925.6	0.0	5925.6
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	26250.4	0.0	26250.4
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	32176.0	0.0	32176.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.4	1.3
10°-20°	1187.9	3.7
20°-30°	1966.2	6.1
30°-40°	3216.2	10.0
40°-50°	5192.8	16.1
50°-60°	7496.9	23.3
60°-70°	8273.3	25.7
70°-80°	3813.5	11.9
80°-90°	616.8	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°	32176.0	100.0
0°-180°	32176.0	100.0



REPORT NUMBER: P298952

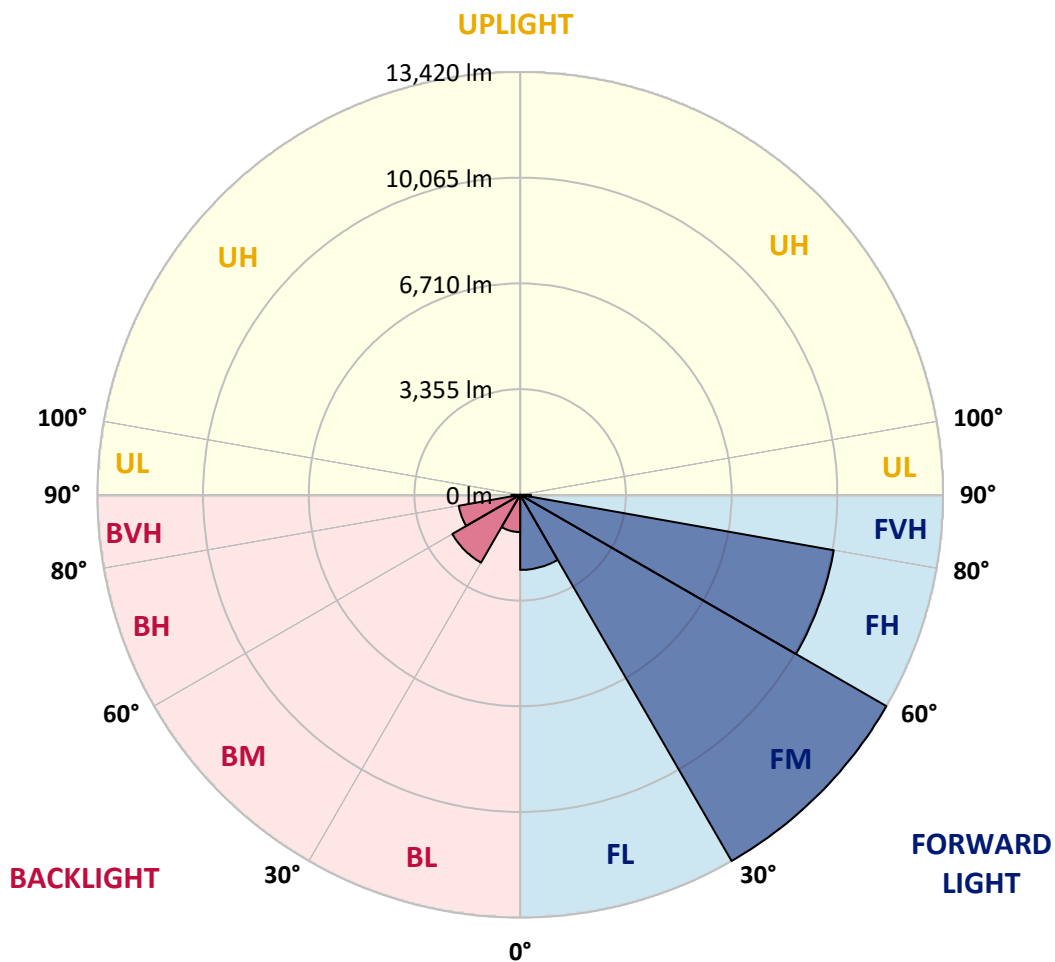
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2384.2	7.4			
FM (30°-60°)	13419.8	41.7			
FH (60°-80°)	10107.3	31.4			G4/12000
FVH (80°-90°)	339.1	1.1			G3/500
BL (0°-30°)	1182.2	3.7	B3/2500		
BM (30°-60°)	2486.2	7.7	B2/2500		
BH (60°-80°)	1979.5	6.2	B3/2500		G3/2500
BVH (80°-90°)	277.7	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





REPORT NUMBER: P298952

CATALOG NUMBER: GLNA-AF-07-LED-E1-T2-7030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2
2.5°	4890.0	4861.4	4866.2	4858.3	4834.5	4793.3	4749.0	4668.2	4584.2	4539.9	4505.0
5°	5298.6	5290.7	5279.6	5254.3	5194.1	5108.6	5002.4	4859.9	4706.2	4625.4	4547.8
7.5°	5604.4	5599.6	5585.4	5569.5	5510.9	5407.9	5248.0	5045.2	4821.8	4711.0	4590.6
10°	5629.7	5637.6	5648.7	5691.5	5699.4	5644.0	5480.8	5235.3	4942.2	4799.7	4646.0
12.5°	5414.3	5431.7	5474.5	5583.8	5699.4	5767.5	5683.6	5434.9	5083.2	4910.6	4715.7
15°	5129.1	5138.7	5190.9	5341.4	5548.9	5759.6	5838.8	5655.1	5265.4	5053.1	4820.3
17.5°	5007.2	5011.9	5048.4	5148.2	5341.4	5642.4	5925.9	5894.2	5488.7	5230.5	4948.6
20°	4945.4	4956.5	5008.8	5107.0	5228.9	5491.9	5938.6	6152.4	5754.8	5452.3	5110.1
22.5°	5121.2	5116.5	5135.5	5184.6	5287.6	5446.0	5929.1	6418.6	6093.8	5737.4	5320.8
25°	5531.5	5548.9	5515.7	5460.2	5493.5	5604.4	5979.8	6706.9	6518.4	6103.3	5596.4
27.5°	6116.0	6098.6	6049.5	5919.6	5851.5	5899.0	6147.7	7017.3	7045.8	6584.9	5960.8
30°	6698.9	6684.7	6637.2	6478.8	6339.4	6299.8	6474.0	7373.7	7674.7	7163.1	6407.5
32.5°	7304.0	7288.2	7243.9	7085.5	6917.5	6825.7	6938.1	7785.6	8416.1	7853.7	6933.4
35°	8050.1	8020.0	7926.6	7706.4	7541.7	7470.4	7522.6	8303.6	9271.4	8671.1	7571.8
37.5°	8751.9	8797.8	8702.8	8398.6	8184.8	8159.4	8218.0	8935.6	10193.4	9585.1	8305.2
40°	9456.8	9464.7	9379.2	9130.5	8910.3	8869.1	9016.4	9702.3	11281.6	10678.1	9197.0
42.5°	10185.4	10201.3	10057.1	9827.4	9665.9	9673.8	9841.7	10600.5	12529.8	11965.9	10223.5
45°	11048.7	11072.5	10914.1	10613.1	10465.8	10762.0	10692.3	11607.9	13898.4	13429.6	11402.0
47.5°	11951.6	11988.1	11867.7	11585.7	11402.0	11809.1	11543.0	12724.7	15371.6	14999.4	12696.2
50°	12444.3	12496.6	12613.8	12593.2	12553.6	12485.5	12491.8	13922.2	16890.7	16634.1	14026.8
52.5°	12179.8	12178.2	12605.9	13125.4	13679.8	13721.0	13648.2	15184.7	18310.0	18232.4	15279.7
55°	10969.5	11051.9	11699.8	12705.7	14220.0	15165.7	15381.1	16630.9	19704.0	19794.3	16551.7
57.5°	8954.6	9022.7	9897.1	11299.0	13491.3	16024.2	17845.9	18733.0	21262.7	21684.0	18245.1
60°	6073.2	6155.6	7082.3	8766.1	11530.3	15545.9	20191.9	22484.0	23128.7	24087.0	20621.1
62.5°	3568.9	3643.3	4398.9	5529.9	8118.3	13323.4	21221.5	27820.6	26092.5	27712.9	24245.5
65°	2456.9	2507.5	2875.0	3442.1	4665.0	8973.6	19944.8	31505.1	30652.9	32205.3	28447.9
67.5°	1976.9	1970.6	2262.0	2648.5	3003.4	4627.0	15081.7	31088.5	34663.7	35311.6	30629.2
70°	1628.4	1622.1	1820.1	2140.0	2399.8	2605.8	8214.9	26235.0	33846.4	34109.3	28620.6
72.5°	1362.3	1368.6	1495.3	1732.9	1969.0	1962.6	3610.0	18455.8	26626.3	28444.8	22815.1
75°	1150.0	1153.2	1237.1	1405.1	1598.3	1580.9	1957.9	9998.5	15477.7	16743.4	12647.0
77.5°	978.9	982.1	1036.0	1129.4	1267.2	1260.9	1428.8	4319.7	6456.6	6377.4	4326.0
80°	872.8	872.8	898.2	915.6	991.6	963.1	1059.7	2075.1	2729.3	2520.2	1726.6
82.5°	684.3	687.5	842.7	836.4	780.9	744.5	744.5	1222.9	1446.2	1336.9	1010.6
85°	384.9	383.3	543.3	655.8	687.5	524.3	519.6	684.3	787.3	693.8	489.5
87.5°	164.7	167.9	251.9	291.5	389.7	326.3	321.6	353.2	400.8	346.9	226.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P298952

CATALOG NUMBER: GLNA-AF-07-LED-E1-T2-7030-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2	4470.2
2.5°	4471.8	4430.6	4340.3	4227.8	4126.4	4059.9	3999.7	3912.6	3917.4	3857.2	3812.8
5°	4468.6	4383.1	4174.0	3925.3	3686.1	3513.4	3383.5	3266.3	3237.8	3182.4	3149.1
7.5°	4471.8	4332.4	3980.7	3583.1	3286.9	3068.3	2957.4	2895.6	2881.4	2862.4	2864.0
10°	4482.9	4286.4	3768.5	3263.1	2952.7	2808.5	2781.6	2800.6	2822.8	2829.1	2830.7
12.5°	4508.2	4245.3	3535.6	2978.0	2743.6	2699.2	2745.2	2810.1	2852.9	2873.5	2871.9
15°	4565.2	4213.6	3312.2	2754.7	2627.9	2651.7	2737.2	2829.1	2890.9	2919.4	2921.0
17.5°	4627.0	4167.6	3082.6	2583.6	2542.4	2602.6	2708.7	2816.4	2892.5	2924.2	2930.5
20°	4707.8	4110.6	2841.8	2455.3	2461.6	2529.7	2629.5	2737.2	2821.2	2848.1	2860.8
22.5°	4813.9	4048.8	2631.1	2350.7	2369.7	2422.0	2499.6	2593.1	2666.0	2678.6	2689.7
25°	4956.5	3982.3	2463.2	2255.7	2263.6	2293.7	2346.0	2401.4	2452.1	2437.9	2448.9
27.5°	5148.2	3925.3	2338.1	2168.6	2154.3	2160.6	2187.6	2205.0	2231.9	2192.3	2197.1
30°	5373.1	3863.5	2241.4	2092.5	2052.9	2041.8	2048.2	2057.7	2078.3	2024.4	2016.5
32.5°	5634.5	3789.0	2151.1	2026.0	1970.6	1948.4	1951.5	1976.9	2056.1	2022.8	2005.4
35°	5938.6	3705.1	2056.1	1953.1	1915.1	1883.4	1880.3	1959.5	2195.5	2174.9	2159.1
37.5°	6295.0	3621.1	1961.1	1870.8	1873.9	1839.1	1828.0	1918.3	2222.4	2141.6	2130.5
40°	6748.0	3576.8	1880.3	1783.6	1823.2	1818.5	1796.3	1842.2	2045.0	1897.7	1878.7
42.5°	7308.8	3583.1	1820.1	1690.2	1763.0	1813.7	1778.9	1780.5	1853.3	1742.5	1725.0
45°	8001.0	3657.6	1777.3	1615.7	1694.9	1809.0	1772.6	1747.2	1753.5	1694.9	1685.4
47.5°	8808.9	3811.2	1747.2	1554.0	1630.0	1791.6	1771.0	1737.7	1723.4	1691.8	1683.8
50°	9707.1	4034.6	1725.0	1495.3	1571.4	1763.0	1772.6	1728.2	1712.4	1699.7	1694.9
52.5°	10589.4	4289.6	1691.8	1444.7	1525.4	1728.2	1777.3	1718.7	1701.3	1691.8	1687.0
55°	11573.1	4608.0	1641.1	1401.9	1487.4	1683.8	1777.3	1704.4	1685.4	1687.0	1685.4
57.5°	12902.1	5122.8	1580.9	1365.5	1441.5	1630.0	1747.2	1688.6	1664.8	1666.4	1668.0
60°	14978.8	6030.5	1508.0	1329.0	1384.5	1566.6	1706.0	1653.7	1630.0	1636.3	1637.9
62.5°	18032.8	7362.7	1413.0	1275.2	1324.3	1498.5	1649.0	1609.4	1585.6	1601.5	1601.5
65°	21207.2	8538.0	1295.8	1207.0	1260.9	1424.1	1577.7	1554.0	1530.2	1566.6	1565.0
67.5°	22061.0	8275.1	1178.5	1132.6	1197.5	1341.7	1492.2	1479.5	1466.8	1530.2	1527.0
70°	19597.9	6643.5	1070.8	1056.6	1127.8	1253.0	1400.3	1400.3	1392.4	1439.9	1428.8
72.5°	14931.2	4711.0	967.9	975.8	1048.6	1156.4	1300.5	1311.6	1298.9	1322.7	1313.2
75°	7993.1	2696.1	864.9	887.1	950.4	1058.1	1189.6	1200.7	1192.8	1191.2	1196.0
77.5°	2656.4	1317.9	757.2	792.0	847.5	956.8	1074.0	1091.4	1072.4	1069.2	1067.6
80°	1183.3	828.5	638.4	684.3	733.4	841.1	952.0	966.3	945.7	974.2	937.8
82.5°	760.3	544.9	511.6	562.3	609.9	725.5	830.0	833.2	814.2	945.7	806.3
85°	369.1	337.4	384.9	430.9	472.0	570.3	687.5	689.1	641.5	584.5	563.9
87.5°	183.7	196.4	256.6	297.8	318.4	391.3	500.6	491.1	470.5	427.7	394.4
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)