

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: P298955

Luminaire Tested: **GLNA-AF-07-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298955
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-T2-7050-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33264.5 lumens
Efficiency: N/A
Efficacy: 112.8 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

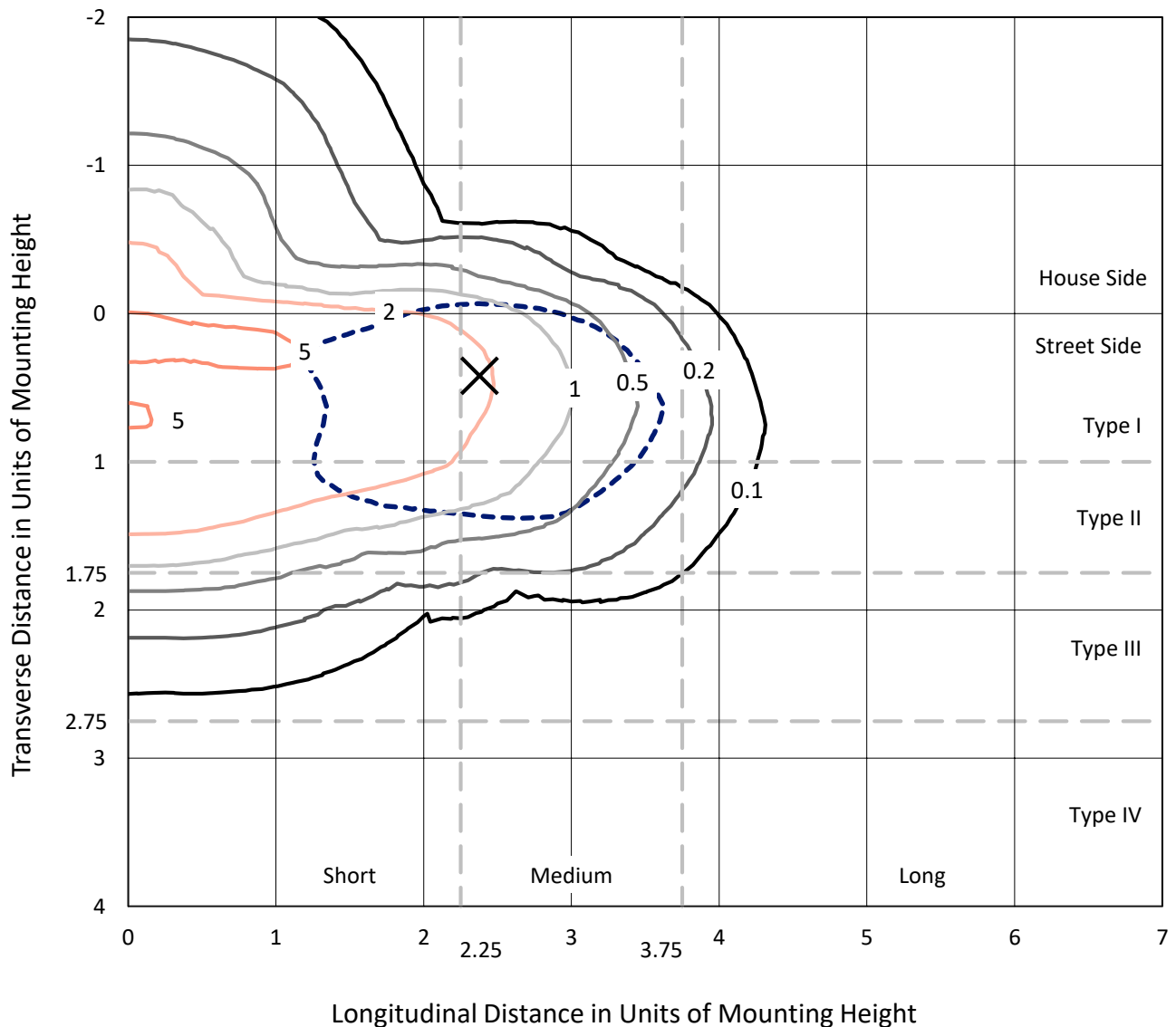
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

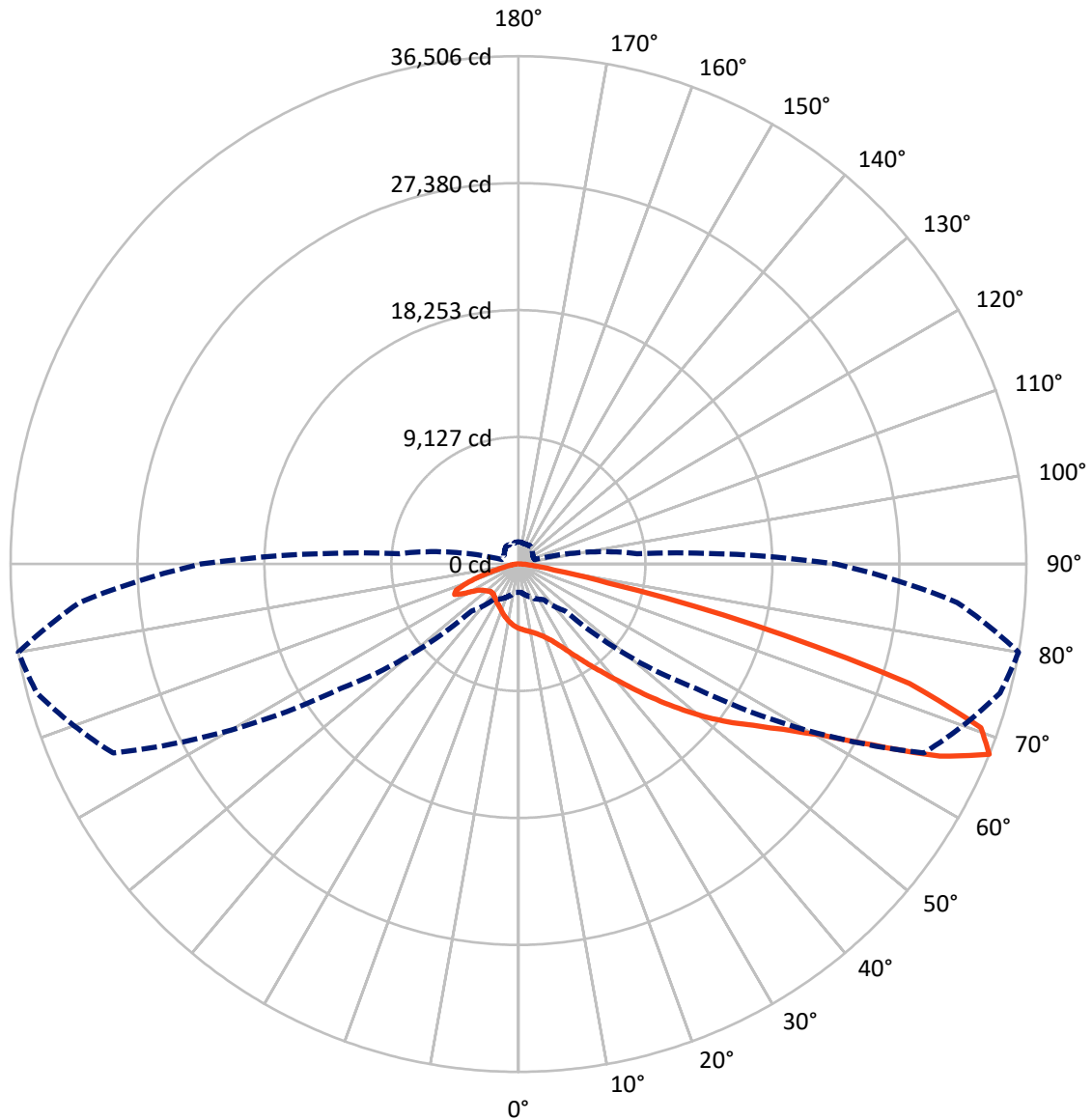


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	6126.1	0.0	6126.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	27138.4	0.0	27138.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	33264.5	0.0	33264.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.3	1.3
10°-20°	1228.1	3.7
20°-30°	2032.7	6.1
30°-40°	3325.0	10.0
40°-50°	5368.5	16.1
50°-60°	7750.5	23.3
60°-70°	8553.2	25.7
70°-80°	3942.5	11.9
80°-90°	637.7	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°	33264.5	100.0
0°-180°	33264.5	100.0



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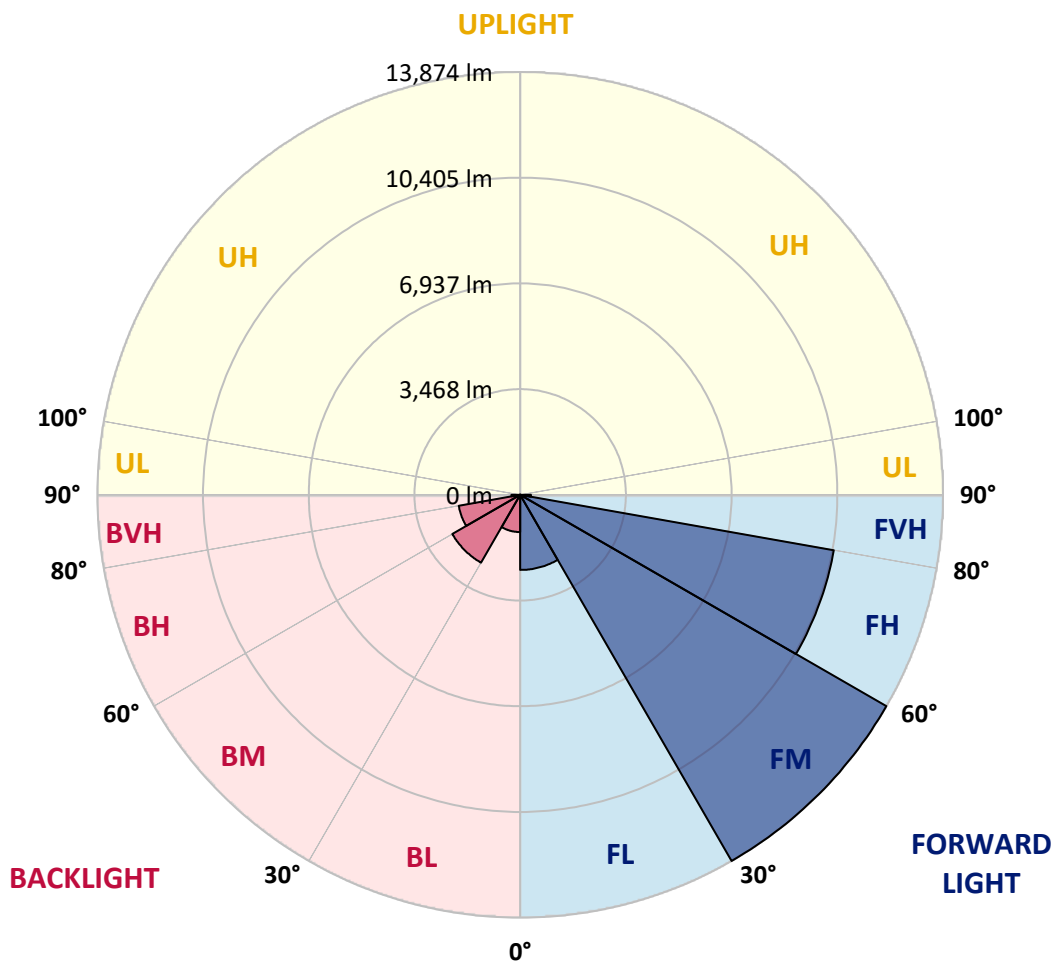
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2464.8	7.4			
FM	(30°-60°)	13873.8	41.7			
FH	(60°-80°)	10449.2	31.4			G4/12000
FVH	(80°-90°)	350.6	1.1			G3/500
BL	(0°-30°)	1222.2	3.7	B3/2500		
BM	(30°-60°)	2570.3	7.7	B3/5000		
BH	(60°-80°)	2046.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	287.1	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°	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4
2.5°	5055.4	5025.9	5030.8	5022.6	4998.1	4955.5	4909.6	4826.1	4739.3	4693.5	4657.4
5°	5477.9	5469.7	5458.2	5432.0	5369.8	5281.4	5171.6	5024.3	4865.4	4781.9	4701.6
7.5°	5793.9	5789.0	5774.3	5757.9	5697.3	5590.9	5425.5	5215.9	4985.0	4870.3	4745.9
10°	5820.1	5828.3	5839.8	5884.0	5892.2	5834.9	5666.2	5412.4	5109.4	4962.0	4803.2
12.5°	5597.4	5615.4	5659.7	5772.7	5892.2	5962.6	5875.8	5618.7	5255.2	5076.7	4875.2
15°	5302.7	5312.5	5366.5	5522.1	5736.6	5954.4	6036.3	5846.4	5443.5	5224.1	4983.3
17.5°	5176.6	5181.5	5219.1	5322.3	5522.1	5833.2	6126.4	6093.6	5674.4	5407.5	5116.0
20°	5112.7	5124.2	5178.2	5279.7	5405.8	5677.7	6139.5	6360.6	5949.5	5636.7	5283.0
22.5°	5294.5	5289.6	5309.2	5360.0	5466.4	5630.2	6129.7	6635.7	6300.0	5931.5	5500.8
25°	5718.6	5736.6	5702.2	5644.9	5679.3	5793.9	6182.1	6933.7	6738.9	6309.8	5785.8
27.5°	6322.9	6304.9	6254.1	6119.8	6049.4	6098.5	6355.7	7254.7	7284.2	6807.6	6162.4
30°	6925.6	6910.8	6861.7	6697.9	6553.8	6512.9	6693.0	7623.2	7934.3	7405.4	6624.2
32.5°	7551.1	7534.8	7488.9	7325.1	7151.5	7056.6	7172.8	8049.0	8700.7	8119.4	7167.9
35°	8322.5	8291.3	8194.7	7967.1	7796.8	7723.1	7777.1	8584.5	9585.1	8964.4	7827.9
37.5°	9047.9	9095.4	8997.2	8682.7	8461.7	8435.4	8496.0	9237.9	10538.2	9909.3	8586.1
40°	9776.7	9784.9	9696.4	9439.3	9211.7	9169.1	9321.4	10030.5	11663.2	11039.3	9508.1
42.5°	10530.0	10546.4	10397.3	10159.9	9992.8	10001.0	10174.6	10959.0	12953.7	12370.7	10569.3
45°	11422.5	11447.1	11283.3	10972.1	10819.8	11126.1	11054.0	12000.6	14368.6	13883.9	11787.7
47.5°	12355.9	12393.6	12269.1	11977.6	11787.7	12208.6	11933.4	13155.1	15891.6	15506.7	13125.6
50°	12865.2	12919.3	13040.5	13019.2	12978.2	12907.8	12914.4	14393.2	17462.1	17196.8	14501.2
52.5°	12591.8	12590.1	13032.3	13569.4	14142.6	14185.2	14109.8	15698.4	18929.4	18849.2	15796.6
55°	11340.6	11425.8	12095.6	13135.5	14701.0	15678.7	15901.4	17193.5	20370.5	20463.9	17111.6
57.5°	9257.5	9328.0	10231.9	11681.2	13947.7	16566.3	18449.6	19366.7	21982.0	22417.6	18862.3
60°	6278.7	6363.8	7321.9	9062.7	11920.3	16071.7	20874.9	23244.6	23911.1	24901.9	21318.7
62.5°	3689.6	3766.6	4547.7	5717.0	8392.9	13774.1	21939.4	28761.8	26975.1	28650.4	25065.6
65°	2540.0	2592.4	2972.3	3558.6	4822.8	9277.2	20619.4	32570.9	31689.8	33294.7	29410.3
67.5°	2043.8	2037.2	2338.5	2738.1	3105.0	4783.5	15591.9	32140.2	35836.3	36506.1	31665.3
70°	1683.5	1676.9	1881.6	2212.4	2481.0	2693.9	8492.8	27122.5	34991.3	35263.2	29588.8
72.5°	1408.4	1414.9	1545.9	1791.6	2035.6	2029.0	3732.2	19080.1	27527.0	29407.0	23586.8
75°	1188.9	1192.2	1279.0	1452.6	1652.4	1634.4	2024.1	10336.7	16001.3	17309.8	13074.9
77.5°	1012.1	1015.3	1071.0	1167.6	1310.1	1303.6	1477.1	4465.8	6675.0	6593.1	4472.4
80°	902.3	902.3	928.5	946.6	1025.2	995.7	1095.6	2145.3	2821.6	2605.5	1785.0
82.5°	707.5	710.7	871.2	864.7	807.4	769.7	769.7	1264.3	1495.2	1382.2	1044.8
85°	397.9	396.3	561.7	678.0	710.7	542.1	537.1	707.5	813.9	717.3	506.0
87.5°	170.3	173.6	260.4	301.3	402.9	337.4	332.4	365.2	414.3	358.6	234.2
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°	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4	4621.4
2.5°	4623.0	4580.5	4487.1	4370.8	4266.0	4197.3	4135.0	4045.0	4049.9	3987.6	3941.8
5°	4619.8	4531.3	4315.2	4058.1	3810.8	3632.3	3498.0	3376.8	3347.3	3290.0	3255.6
7.5°	4623.0	4478.9	4115.4	3704.3	3398.1	3172.1	3057.5	2993.6	2978.9	2959.2	2960.8
10°	4634.5	4431.4	3895.9	3373.5	3052.5	2903.5	2875.7	2895.3	2918.3	2924.8	2926.5
12.5°	4660.7	4388.9	3655.2	3078.8	2836.4	2790.5	2838.0	2905.2	2949.4	2970.7	2969.0
15°	4719.7	4356.1	3424.3	2847.8	2716.8	2741.4	2829.8	2924.8	2988.7	3018.2	3019.8
17.5°	4783.5	4308.6	3186.8	2671.0	2628.4	2690.6	2800.4	2911.7	2990.3	3023.1	3029.6
20°	4867.0	4249.7	2937.9	2538.3	2544.9	2615.3	2718.5	2829.8	2916.6	2944.5	2957.6
22.5°	4976.8	4185.8	2720.1	2430.2	2449.9	2503.9	2584.2	2680.8	2756.1	2769.2	2780.7
25°	5124.2	4117.0	2546.5	2332.0	2340.2	2371.3	2425.3	2482.7	2535.1	2520.3	2531.8
27.5°	5322.3	4058.1	2417.1	2241.9	2227.2	2233.7	2261.6	2279.6	2307.4	2266.5	2271.4
30°	5554.9	3994.2	2317.3	2163.3	2122.4	2110.9	2117.5	2127.3	2148.6	2092.9	2084.7
32.5°	5825.1	3917.2	2223.9	2094.5	2037.2	2014.3	2017.6	2043.8	2125.6	2091.3	2073.2
35°	6139.5	3830.4	2125.6	2019.2	1979.9	1947.1	1943.9	2025.8	2269.8	2248.5	2232.1
37.5°	6508.0	3743.6	2027.4	1934.0	1937.3	1901.3	1889.8	1983.2	2297.6	2214.1	2202.6
40°	6976.3	3697.8	1943.9	1844.0	1884.9	1880.0	1857.1	1904.6	2114.2	1961.9	1942.2
42.5°	7556.0	3704.3	1881.6	1747.4	1822.7	1875.1	1839.1	1840.7	1916.0	1801.4	1783.4
45°	8271.7	3781.3	1837.4	1670.4	1752.3	1870.2	1832.5	1806.3	1812.9	1752.3	1742.4
47.5°	9106.9	3940.1	1806.3	1606.5	1685.1	1852.2	1830.9	1796.5	1781.7	1749.0	1740.8
50°	10035.4	4171.1	1783.4	1545.9	1624.5	1822.7	1832.5	1786.7	1770.3	1757.2	1752.3
52.5°	10947.6	4434.7	1749.0	1493.5	1577.0	1786.7	1837.4	1776.8	1758.8	1749.0	1744.1
55°	11964.5	4763.9	1696.6	1449.3	1537.7	1740.8	1837.4	1762.1	1742.4	1744.1	1742.4
57.5°	13338.5	5296.1	1634.4	1411.6	1490.2	1685.1	1806.3	1745.7	1721.2	1722.8	1724.4
60°	15485.5	6234.5	1559.0	1374.0	1431.3	1619.6	1763.7	1709.7	1685.1	1691.7	1693.3
62.5°	18642.8	7611.7	1460.8	1318.3	1369.1	1549.2	1704.8	1663.8	1639.3	1655.6	1655.6
65°	21924.6	8826.8	1339.6	1247.9	1303.6	1472.2	1631.1	1606.5	1582.0	1619.6	1618.0
67.5°	22807.3	8555.0	1218.4	1170.9	1238.1	1387.1	1542.7	1529.5	1516.4	1582.0	1578.7
70°	20260.8	6868.2	1107.0	1092.3	1166.0	1295.4	1447.7	1447.7	1439.5	1488.6	1477.1
72.5°	15436.3	4870.3	1000.6	1008.8	1084.1	1195.5	1344.5	1356.0	1342.9	1367.4	1357.6
75°	8263.5	2787.3	894.1	917.1	982.6	1093.9	1229.9	1241.3	1233.1	1231.5	1236.4
77.5°	2746.3	1362.5	782.8	818.8	876.1	989.1	1110.3	1128.3	1108.7	1105.4	1103.8
80°	1223.3	856.5	660.0	707.5	758.2	869.6	984.2	999.0	977.7	1007.1	969.5
82.5°	786.1	563.3	529.0	581.4	630.5	750.0	858.1	861.4	841.7	977.7	833.6
85°	381.6	348.8	397.9	445.4	488.0	589.5	710.7	712.4	663.2	604.3	583.0
87.5°	190.0	203.1	265.3	307.9	329.2	404.5	517.5	507.7	486.4	442.2	407.8
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)