

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: P298886

Luminaire Tested: **GLNA-AF-06-LED-E1-T2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298886  
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-06-LED-E1-T2-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33677.6 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

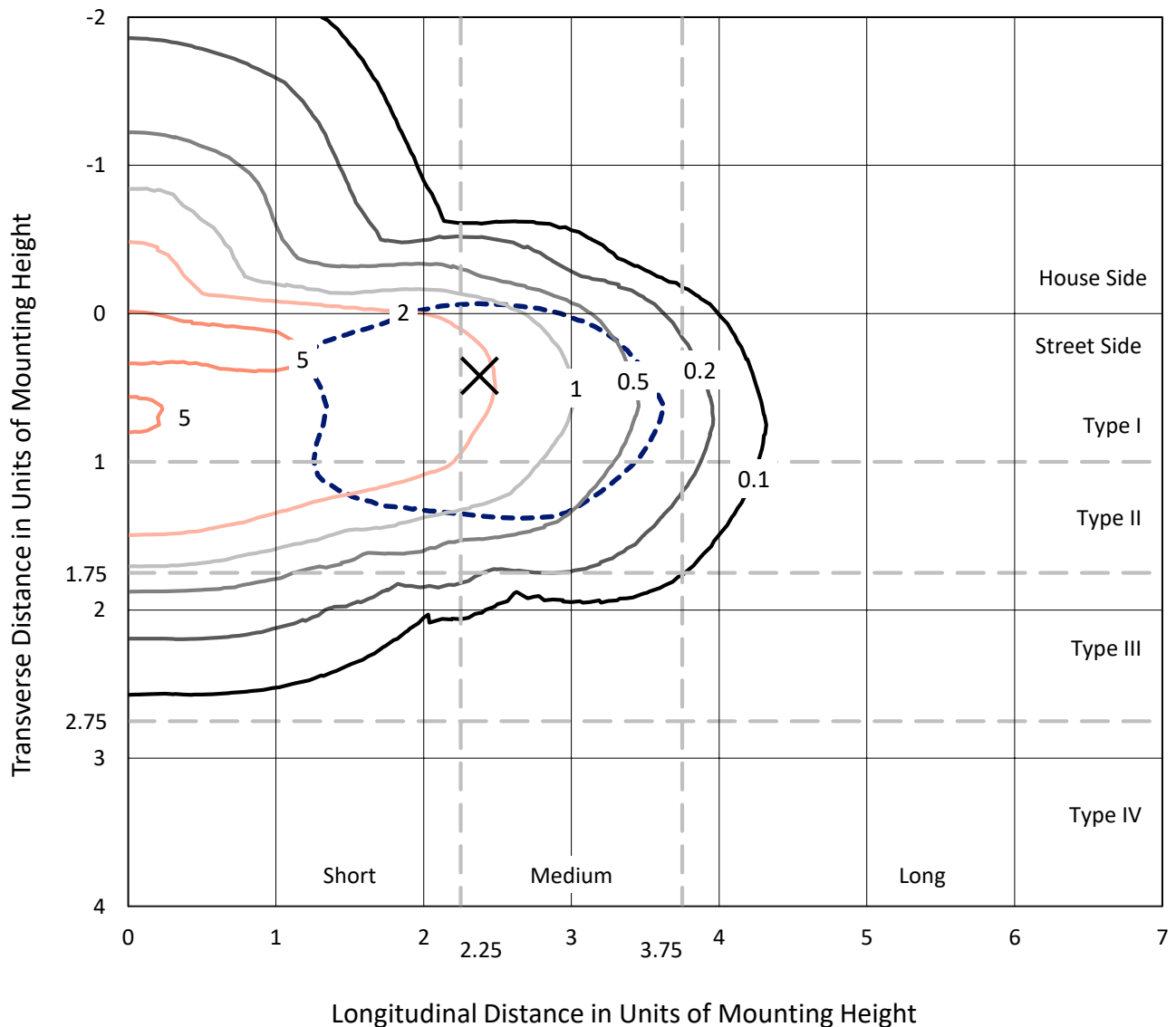
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

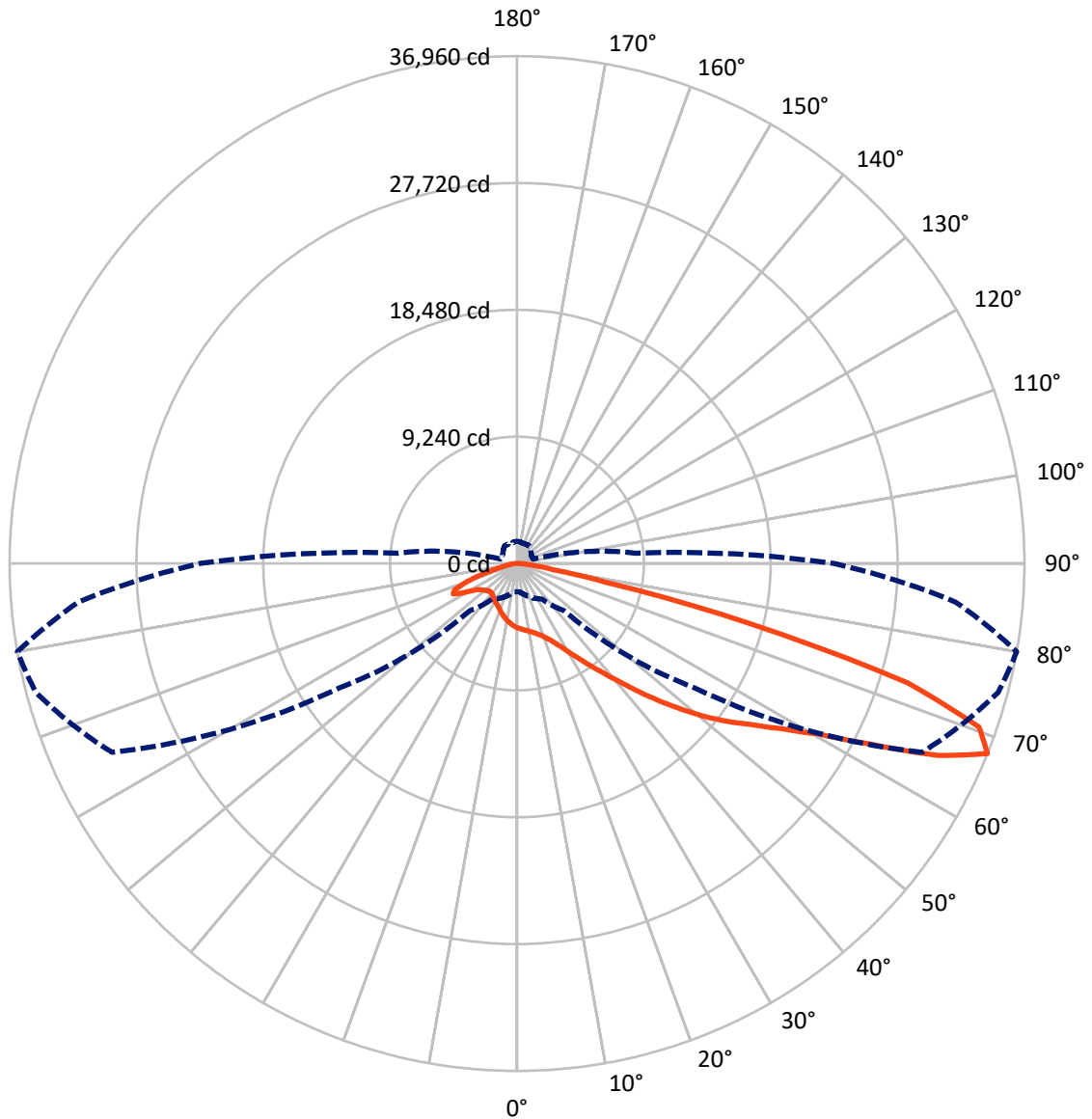
× Max cd  
 - - - 1/2 Max cd



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	6202.1	0.0	6202.1
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	27475.5	0.0	27475.5
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	33677.6	0.0	33677.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.6	1.3
10°-20°	1243.3	3.7
20°-30°	2058.0	6.1
30°-40°	3366.3	10.0
40°-50°	5435.2	16.1
50°-60°	7846.8	23.3
60°-70°	8659.4	25.7
70°-80°	3991.5	11.9
80°-90°	645.6	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°	33677.6	100.0
0°-180°	33677.6	100.0



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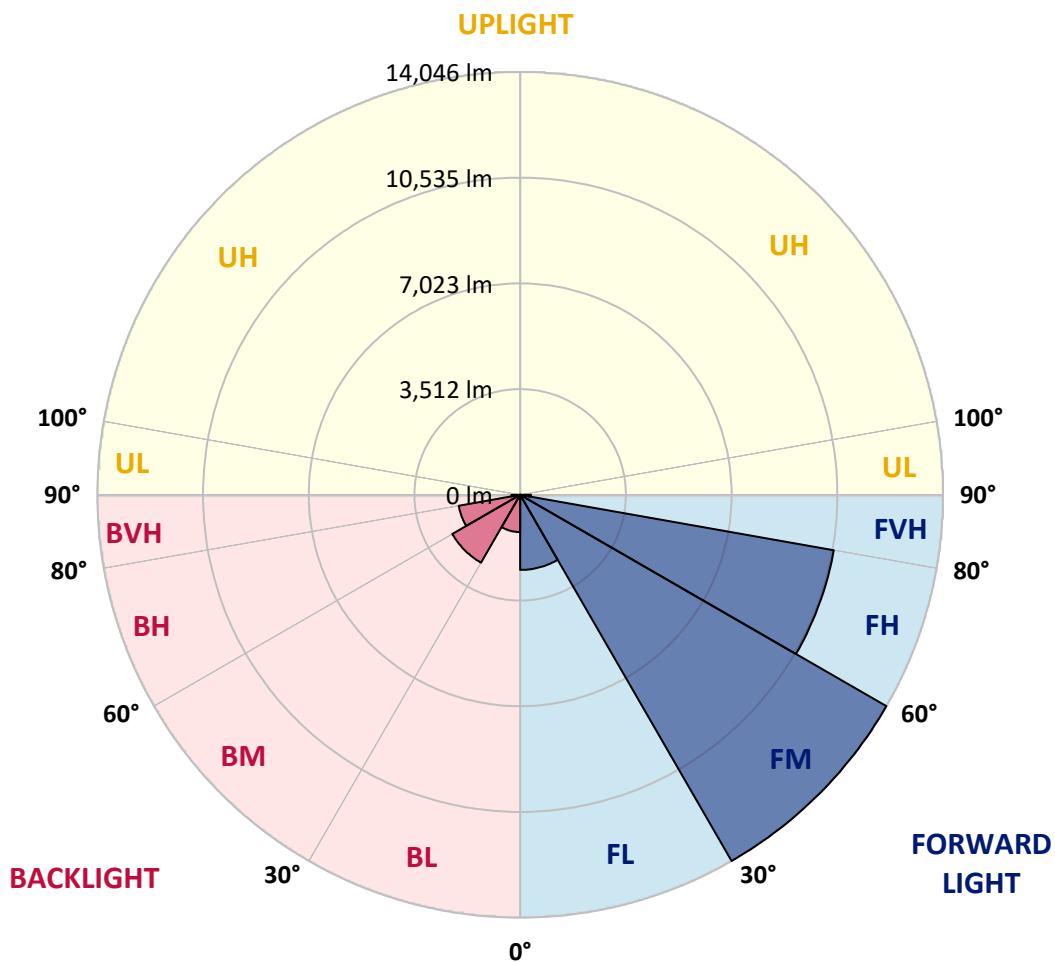
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2495.5	7.4			
FM	(30°-60°)	14046.1	41.7			
FH	(60°-80°)	10579.0	31.4			G4/12000
FVH	(80°-90°)	354.9	1.1			G3/500
BL	(0°-30°)	1237.4	3.7	B3/2500		
BM	(30°-60°)	2602.2	7.7	B3/5000		
BH	(60°-80°)	2071.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	290.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8
2.5°	5118.2	5088.3	5093.3	5085.0	5060.1	5017.0	4970.6	4886.1	4798.2	4751.8	4715.3
5°	5545.9	5537.6	5526.0	5499.5	5436.5	5347.0	5235.9	5086.7	4925.8	4841.3	4760.0
7.5°	5865.9	5860.9	5846.0	5829.4	5768.1	5660.3	5492.9	5280.7	5046.9	4930.8	4804.8
10°	5892.4	5900.7	5912.3	5957.1	5965.4	5907.4	5736.6	5479.6	5172.9	5023.7	4862.8
12.5°	5667.0	5685.2	5730.0	5844.4	5965.4	6036.7	5948.8	5688.5	5320.4	5139.7	4935.8
15°	5368.5	5378.5	5433.2	5590.7	5807.9	6028.4	6111.3	5919.0	5511.1	5288.9	5045.2
17.5°	5240.9	5245.8	5284.0	5388.4	5590.7	5905.7	6202.5	6169.3	5744.9	5474.6	5179.5
20°	5176.2	5187.8	5242.5	5345.3	5473.0	5748.2	6215.7	6439.6	6023.4	5706.8	5348.6
22.5°	5360.2	5355.3	5375.2	5426.6	5534.3	5700.1	6205.8	6718.1	6378.2	6005.2	5569.1
25°	5789.6	5807.9	5773.1	5715.0	5749.9	5865.9	6258.9	7019.9	6822.6	6388.2	5857.6
27.5°	6401.4	6383.2	6331.8	6195.9	6124.6	6174.3	6434.6	7344.8	7374.7	6892.2	6239.0
30°	7011.6	6996.7	6946.9	6781.1	6635.2	6593.8	6776.1	7717.9	8032.9	7497.4	6706.5
32.5°	7644.9	7628.3	7581.9	7416.1	7240.4	7144.2	7261.9	8148.9	8808.8	8220.2	7257.0
35°	8425.8	8394.3	8296.5	8066.0	7893.6	7819.0	7873.7	8691.1	9704.1	9075.8	7925.1
37.5°	9160.3	9208.4	9108.9	8790.6	8566.8	8540.2	8601.6	9352.6	10669.1	10032.4	8692.8
40°	9898.1	9906.4	9816.9	9556.6	9326.1	9283.0	9437.2	10155.1	11808.1	11176.4	9626.2
42.5°	10660.8	10677.4	10526.5	10286.1	10117.0	10125.3	10301.0	11095.2	13114.6	12524.3	10700.6
45°	11564.4	11589.2	11423.4	11108.4	10954.2	11264.3	11191.3	12149.6	14547.1	14056.3	11934.1
47.5°	12509.4	12547.6	12421.5	12126.4	11934.1	12360.2	12081.7	13318.5	16089.0	15699.4	13288.7
50°	13025.1	13079.8	13202.5	13180.9	13139.5	13068.2	13074.8	14571.9	17679.0	17410.4	14681.4
52.5°	12748.2	12746.5	13194.2	13738.0	14318.3	14361.4	14285.1	15893.3	19164.5	19083.3	15992.8
55°	11481.5	11567.7	12245.8	13298.6	14883.6	15873.5	16098.9	17407.1	20623.6	20718.1	17324.2
57.5°	9372.5	9443.8	10359.0	11826.3	14121.0	16772.1	18678.7	19607.2	22255.0	22696.0	19096.6
60°	6356.7	6442.9	7412.8	9175.2	12068.4	16271.4	21134.2	23533.3	24208.1	25211.2	21583.5
62.5°	3735.4	3813.3	4604.2	5788.0	8497.1	13945.2	22211.9	29119.0	27310.2	29006.3	25377.0
65°	2571.5	2624.6	3009.2	3602.8	4882.7	9392.4	20875.6	32975.5	32083.5	33708.3	29775.6
67.5°	2069.2	2062.5	2367.6	2772.1	3143.5	4842.9	15785.6	32539.4	36281.5	36959.6	32058.6
70°	1704.4	1697.8	1905.0	2239.9	2511.8	2727.4	8598.3	27459.4	35426.0	35701.2	29956.3
72.5°	1425.9	1432.5	1565.1	1813.8	2060.9	2054.2	3778.5	19317.1	27868.9	29772.3	23879.8
75°	1203.7	1207.0	1294.9	1470.6	1672.9	1654.7	2049.3	10465.1	16200.1	17524.8	13237.3
77.5°	1024.6	1027.9	1084.3	1182.1	1326.4	1319.7	1495.5	4521.3	6757.9	6675.0	4527.9
80°	913.5	913.5	940.1	958.3	1037.9	1008.0	1109.2	2171.9	2856.7	2637.8	1807.2
82.5°	716.2	719.6	882.0	875.4	817.4	779.2	779.2	1280.0	1513.7	1399.3	1057.8
85°	402.9	401.2	568.7	686.4	719.6	548.8	543.8	716.2	824.0	726.2	512.3
87.5°	172.4	175.7	263.6	305.1	407.9	341.5	336.6	369.7	419.5	363.1	237.1
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°	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8	4678.8
2.5°	4680.5	4637.4	4542.9	4425.1	4319.0	4249.4	4186.4	4095.2	4100.2	4037.2	3990.7
5°	4677.1	4587.6	4368.8	4108.5	3858.1	3677.4	3541.4	3418.7	3388.9	3330.9	3296.1
7.5°	4680.5	4534.6	4166.5	3750.3	3440.3	3211.5	3095.4	3030.8	3015.9	2996.0	2997.6
10°	4692.1	4486.5	3944.3	3415.4	3090.5	2939.6	2911.4	2931.3	2954.5	2961.1	2962.8
12.5°	4718.6	4443.4	3700.6	3117.0	2871.6	2825.2	2873.3	2941.2	2986.0	3007.6	3005.9
15°	4778.3	4410.2	3466.8	2883.2	2750.6	2775.5	2865.0	2961.1	3025.8	3055.6	3057.3
17.5°	4842.9	4362.1	3226.4	2704.2	2661.1	2724.1	2835.1	2947.9	3027.5	3060.6	3067.3
20°	4927.5	4302.4	2974.4	2569.9	2576.5	2647.8	2752.2	2865.0	2952.9	2981.0	2994.3
22.5°	5038.6	4237.8	2753.9	2460.4	2480.3	2535.0	2616.3	2714.1	2790.4	2803.6	2815.2
25°	5187.8	4168.1	2578.2	2361.0	2369.2	2400.7	2455.5	2513.5	2566.5	2551.6	2563.2
27.5°	5388.4	4108.5	2447.2	2269.8	2254.8	2261.5	2289.7	2307.9	2336.1	2294.6	2299.6
30°	5623.9	4043.8	2346.0	2190.2	2148.7	2137.1	2143.8	2153.7	2175.3	2118.9	2110.6
32.5°	5897.4	3965.9	2251.5	2120.6	2062.5	2039.3	2042.6	2069.2	2152.1	2117.2	2099.0
35°	6215.7	3878.0	2152.1	2044.3	2004.5	1971.3	1968.0	2050.9	2298.0	2276.4	2259.8
37.5°	6588.8	3790.1	2052.6	1958.1	1961.4	1924.9	1913.3	2007.8	2326.1	2241.6	2230.0
40°	7063.0	3743.7	1968.0	1866.9	1908.3	1903.4	1880.1	1928.2	2140.4	1986.3	1966.4
42.5°	7649.9	3750.3	1905.0	1769.1	1845.3	1898.4	1861.9	1863.6	1939.8	1823.8	1805.5
45°	8374.4	3828.3	1860.2	1691.1	1774.0	1893.4	1855.3	1828.7	1835.4	1774.0	1764.1
47.5°	9220.0	3989.1	1828.7	1626.5	1706.1	1875.2	1853.6	1818.8	1803.9	1770.7	1762.4
50°	10160.1	4222.9	1805.5	1565.1	1644.7	1845.3	1855.3	1808.9	1792.3	1779.0	1774.0
52.5°	11083.6	4489.8	1770.7	1512.1	1596.6	1808.9	1860.2	1798.9	1780.7	1770.7	1765.7
55°	12113.2	4823.0	1717.7	1467.3	1556.8	1762.4	1860.2	1784.0	1764.1	1765.7	1764.1
57.5°	13504.2	5361.9	1654.7	1429.2	1508.8	1706.1	1828.7	1767.4	1742.5	1744.2	1745.8
60°	15677.8	6311.9	1578.4	1391.0	1449.1	1639.7	1785.6	1730.9	1706.1	1712.7	1714.3
62.5°	18874.4	7706.3	1478.9	1334.7	1386.1	1568.4	1726.0	1684.5	1659.6	1676.2	1676.2
65°	22197.0	8936.5	1356.2	1263.4	1319.7	1490.5	1651.3	1626.5	1601.6	1639.7	1638.1
67.5°	23090.6	8661.3	1233.5	1185.5	1253.4	1404.3	1561.8	1548.5	1535.3	1601.6	1598.3
70°	20512.5	6953.5	1120.8	1105.9	1180.5	1311.5	1465.6	1465.6	1457.4	1507.1	1495.5
72.5°	15628.1	4930.8	1013.0	1021.3	1097.6	1210.3	1361.2	1372.8	1359.5	1384.4	1374.5
75°	8366.1	2821.9	905.3	928.5	994.8	1107.5	1245.1	1256.7	1248.5	1246.8	1251.8
77.5°	2780.4	1379.4	792.5	829.0	887.0	1001.4	1124.1	1142.3	1122.4	1119.1	1117.5
80°	1238.5	867.1	668.2	716.2	767.6	880.4	996.4	1011.4	989.8	1019.7	981.5
82.5°	795.8	570.3	535.5	588.6	638.3	759.4	868.8	872.1	852.2	989.8	843.9
85°	386.3	353.1	402.9	451.0	494.1	596.9	719.6	721.2	671.5	611.8	590.2
87.5°	192.3	205.6	268.6	311.7	333.3	409.5	523.9	514.0	492.4	447.7	412.8
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)