

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: P298892

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298892  
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  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 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: 39827.7 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G5

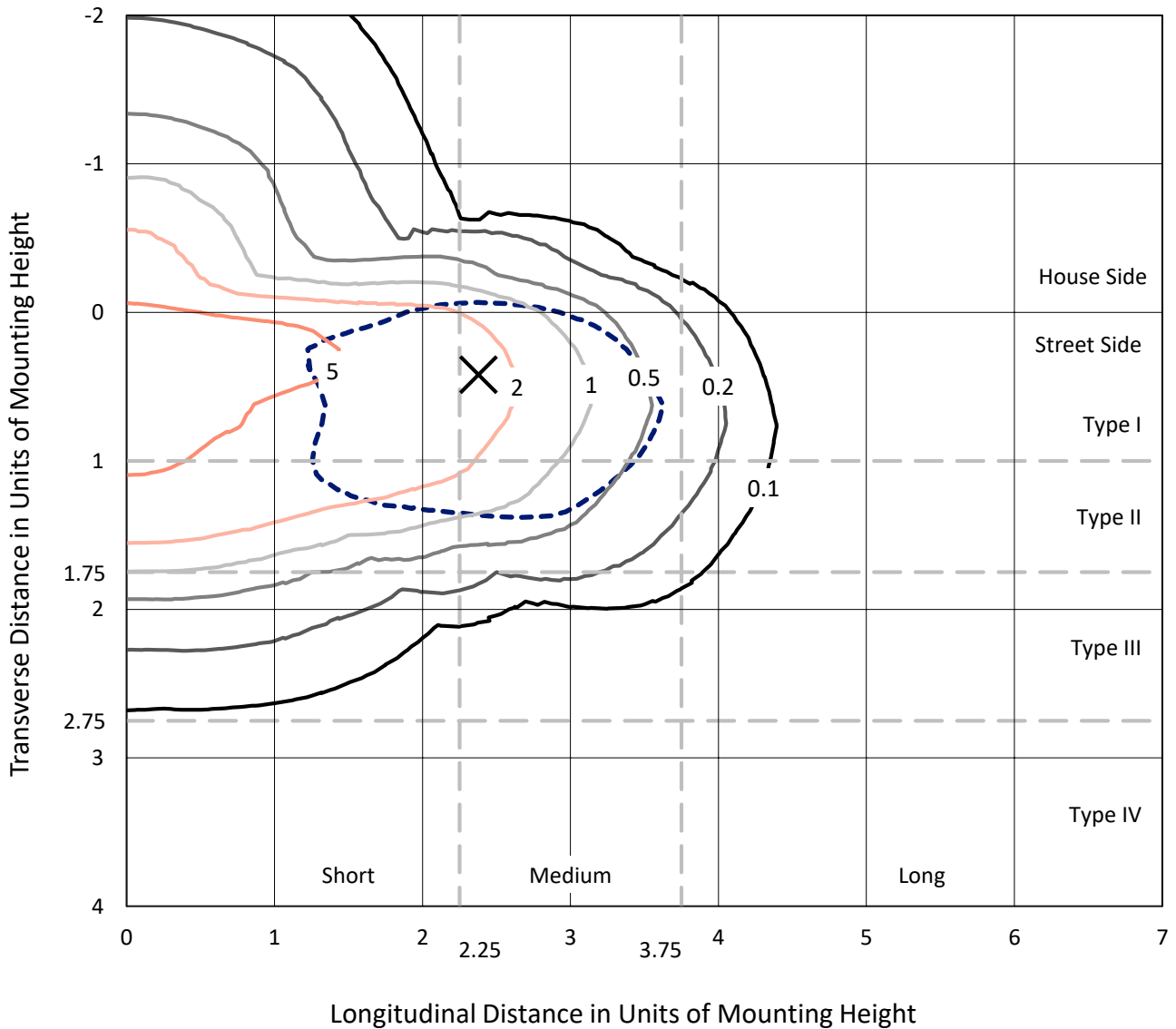
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

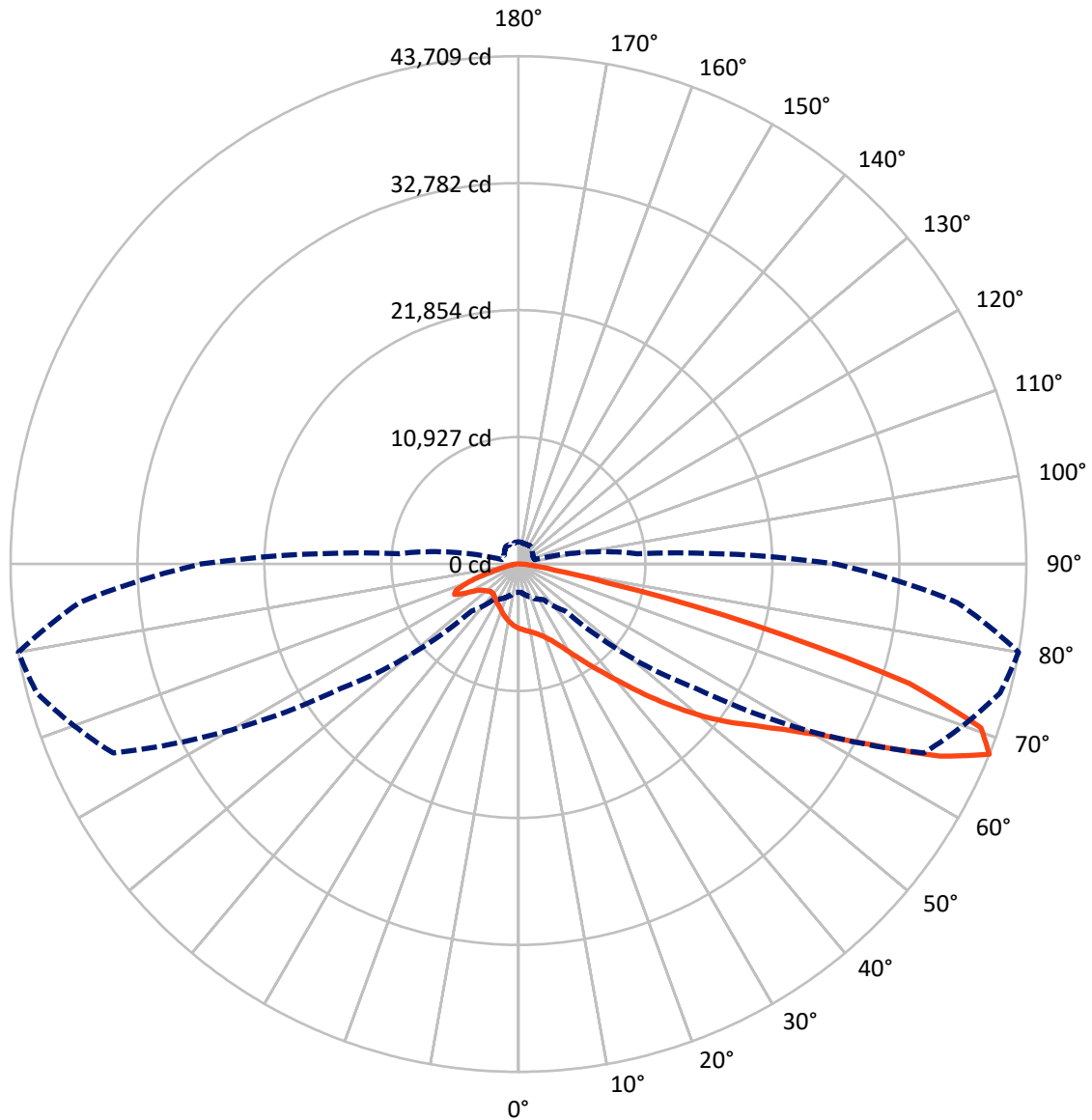
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	7334.7	0.0	7334.7
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	32492.9	0.0	32492.9
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	39827.7	0.0	39827.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.4	1.3
10°-20°	1470.4	3.7
20°-30°	2433.8	6.1
30°-40°	3981.0	10.0
40°-50°	6427.7	16.1
50°-60°	9279.8	23.3
60°-70°	10240.8	25.7
70°-80°	4720.4	11.9
80°-90°	763.5	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°	39827.7	100.0
0°-180°	39827.7	100.0



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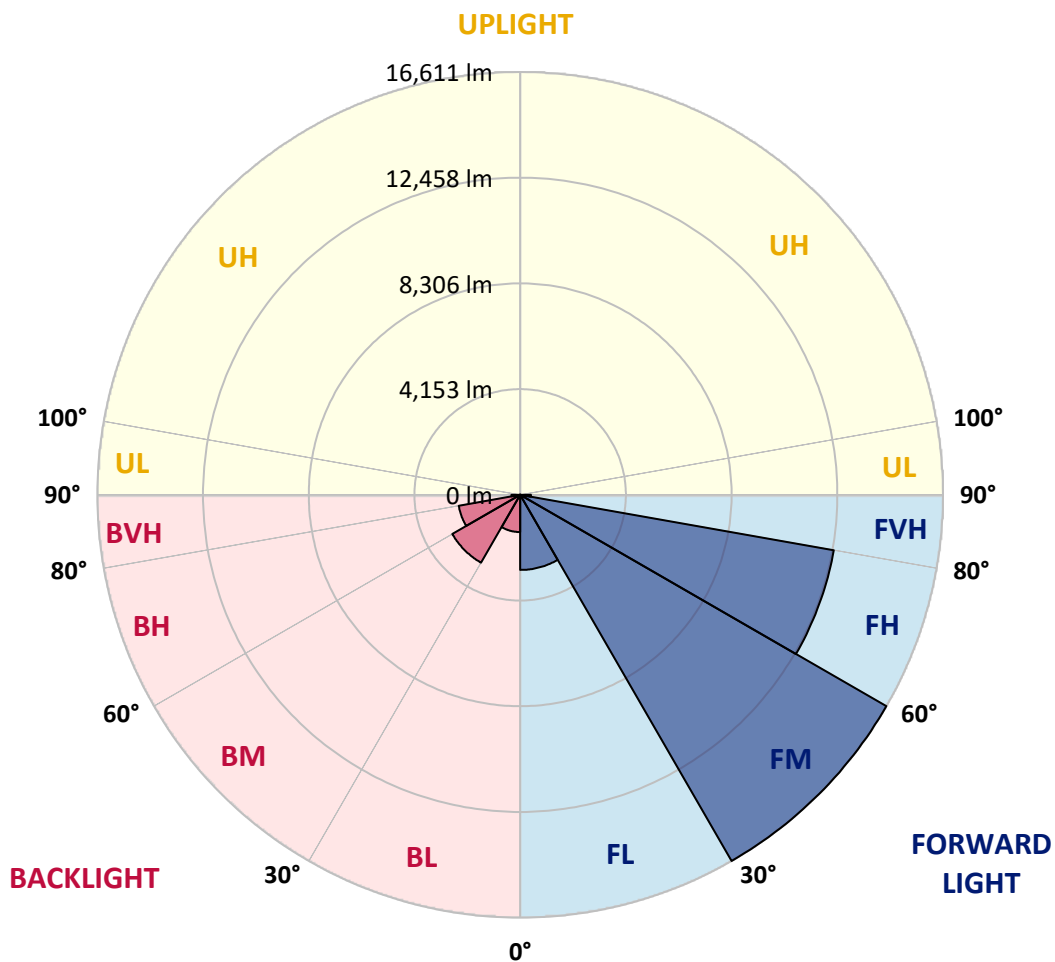
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2951.2	7.4			
FM (30°-60°)	16611.1	41.7			
FH (60°-80°)	12510.9	31.4			G5
FVH (80°-90°)	419.8	1.1			G3/500
BL (0°-30°)	1463.4	3.7	B3/2500		
BM (30°-60°)	3077.4	7.7	B3/5000		
BH (60°-80°)	2450.2	6.2	B3/2500		G3/2500
BVH (80°-90°)	343.7	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-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2
2.5°	6052.8	6017.5	6023.4	6013.6	5984.2	5933.2	5878.3	5778.3	5674.4	5619.5	5576.4
5°	6558.7	6548.9	6535.2	6503.8	6429.3	6323.4	6192.0	6015.6	5825.4	5725.4	5629.3
7.5°	6937.1	6931.2	6913.6	6894.0	6821.4	6694.0	6495.9	6245.0	5968.5	5831.3	5682.2
10°	6968.5	6978.3	6992.0	7045.0	7054.8	6986.1	6784.2	6480.3	6117.5	5941.1	5750.9
12.5°	6701.8	6723.4	6776.3	6911.6	7054.8	7139.1	7035.2	6727.3	6292.0	6078.3	5837.1
15°	6348.9	6360.7	6425.4	6611.6	6868.5	7129.3	7227.3	6999.9	6517.5	6254.8	5966.5
17.5°	6197.9	6203.8	6248.9	6372.4	6611.6	6984.2	7335.1	7295.9	6794.0	6474.4	6125.4
20°	6121.4	6135.2	6199.9	6321.4	6472.4	6797.9	7350.8	7615.5	7123.4	6748.9	6325.4
22.5°	6339.1	6333.2	6356.7	6417.5	6545.0	6741.0	7339.1	7944.9	7543.0	7101.8	6586.1
25°	6846.9	6868.5	6827.3	6758.7	6799.9	6937.1	7401.8	8301.8	8068.5	7554.8	6927.3
27.5°	7570.4	7548.9	7488.1	7327.3	7243.0	7301.8	7609.7	8686.1	8721.4	8150.8	7378.3
30°	8292.0	8274.3	8215.5	8019.4	7846.9	7797.9	8013.6	9127.3	9499.8	8866.5	7931.2
32.5°	9041.0	9021.4	8966.5	8770.4	8562.6	8448.9	8588.1	9637.1	10417.4	9721.4	8582.2
35°	9964.5	9927.3	9811.6	9539.0	9335.1	9246.9	9311.6	10278.2	11476.2	10733.1	9372.4
37.5°	10833.1	10890.0	10772.3	10395.9	10131.2	10099.8	10172.3	11060.6	12617.4	11864.5	10280.2
40°	11705.6	11715.5	11609.6	11301.7	11029.2	10978.2	11160.6	12009.6	13964.4	13217.4	11384.1
42.5°	12607.6	12627.2	12448.8	12164.5	11964.5	11974.3	12182.1	13121.3	15509.5	14811.5	12654.6
45°	13676.2	13705.6	13509.5	13137.0	12954.6	13321.3	13235.0	14368.3	17203.6	16623.2	14113.4
47.5°	14793.8	14838.9	14689.9	14340.9	14113.4	14617.4	14288.0	15750.7	19027.1	18566.3	15715.4
50°	15403.6	15468.3	15613.4	15587.9	15538.9	15454.6	15462.4	17233.0	20907.4	20589.8	17362.4
52.5°	15076.2	15074.2	15603.6	16246.7	16933.0	16984.0	16893.8	18795.7	22664.3	22568.2	18913.3
55°	13578.2	13680.1	14482.1	15727.1	17601.6	18772.2	19038.8	20585.9	24389.7	24501.5	20487.8
57.5°	11084.1	11168.4	12250.7	13986.0	16699.7	19834.9	22089.8	23187.8	26319.1	26840.6	22583.9
60°	7517.5	7619.5	8766.5	10850.8	14272.3	19242.8	24993.6	27830.8	28628.8	29815.1	25525.0
62.5°	4417.6	4509.7	5445.0	6845.0	10048.8	16491.8	26268.1	34436.6	32297.4	34303.2	30011.2
65°	3041.1	3103.9	3558.8	4260.7	5774.4	11107.6	24687.7	38997.3	37942.4	39863.9	35213.0
67.5°	2447.0	2439.2	2799.9	3278.4	3717.6	5727.3	18668.3	38481.6	42907.0	43708.9	37913.0
70°	2015.6	2007.8	2252.9	2649.0	2970.5	3225.4	10168.4	32473.9	41895.2	42220.7	35426.7
72.5°	1686.2	1694.1	1850.9	2145.1	2437.2	2429.4	4468.5	22844.6	32958.2	35209.1	28240.6
75°	1423.5	1427.4	1531.3	1739.2	1978.4	1956.8	2423.5	12376.2	19158.4	20725.1	15654.6
77.5°	1211.7	1215.7	1282.3	1398.0	1568.6	1560.8	1768.6	5347.0	7992.0	7894.0	5354.8
80°	1080.4	1080.4	1111.7	1133.3	1227.4	1192.1	1311.7	2568.6	3378.4	3119.5	2137.2
82.5°	847.0	851.0	1043.1	1035.3	966.6	921.6	921.6	1513.7	1790.2	1654.9	1251.0
85°	476.5	474.5	672.5	811.7	851.0	649.0	643.1	847.0	974.5	858.8	605.9
87.5°	203.9	207.8	311.8	360.8	482.3	403.9	398.0	437.2	496.1	429.4	280.4
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°	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2
2.5°	5535.2	5484.2	5372.4	5233.2	5107.7	5025.4	4950.9	4843.0	4848.9	4774.4	4719.5
5°	5531.3	5425.4	5166.6	4858.7	4562.7	4348.9	4188.2	4043.1	4007.8	3939.1	3898.0
7.5°	5535.2	5362.6	4927.4	4435.2	4068.5	3798.0	3660.7	3584.2	3566.6	3543.1	3545.0
10°	5548.9	5305.8	4664.6	4039.1	3654.8	3476.4	3443.1	3466.6	3494.0	3501.9	3503.9
12.5°	5580.3	5254.8	4376.4	3686.2	3396.0	3341.1	3398.0	3478.4	3531.3	3556.8	3554.8
15°	5650.9	5215.6	4099.9	3409.7	3252.9	3282.3	3388.2	3501.9	3578.4	3613.7	3615.6
17.5°	5727.3	5158.7	3815.6	3198.0	3147.0	3221.5	3352.9	3486.2	3580.3	3619.5	3627.4
20°	5827.3	5088.1	3517.6	3039.2	3047.0	3131.3	3254.8	3388.2	3492.1	3525.4	3541.1
22.5°	5958.7	5011.7	3256.8	2909.7	2933.3	2998.0	3094.1	3209.7	3299.9	3315.6	3329.3
25°	6135.2	4929.3	3049.0	2792.1	2801.9	2839.2	2903.9	2972.5	3035.2	3017.6	3031.3
27.5°	6372.4	4858.7	2894.1	2684.3	2666.6	2674.5	2707.8	2729.4	2762.7	2713.7	2719.6
30°	6650.8	4782.3	2774.5	2590.1	2541.1	2527.4	2535.2	2547.0	2572.5	2505.8	2496.0
32.5°	6974.4	4690.1	2662.7	2507.8	2439.2	2411.7	2415.6	2447.0	2545.0	2503.9	2482.3
35°	7350.8	4586.2	2545.0	2417.6	2370.5	2331.3	2327.4	2425.4	2717.6	2692.1	2672.5
37.5°	7792.0	4482.3	2427.4	2315.6	2319.6	2276.4	2262.7	2374.5	2750.9	2650.9	2637.2
40°	8352.8	4427.4	2327.4	2207.8	2256.8	2250.9	2223.5	2280.3	2531.3	2349.0	2325.4
42.5°	9046.9	4435.2	2252.9	2092.1	2182.3	2245.1	2201.9	2203.9	2294.1	2156.8	2135.3
45°	9903.7	4527.4	2200.0	2000.0	2098.0	2239.2	2194.1	2162.7	2170.5	2098.0	2086.2
47.5°	10903.7	4717.6	2162.7	1923.5	2017.6	2217.6	2192.1	2150.9	2133.3	2094.1	2084.3
50°	12015.4	4994.0	2135.3	1850.9	1945.1	2182.3	2194.1	2139.2	2119.6	2103.9	2098.0
52.5°	13107.6	5309.7	2094.1	1788.2	1888.2	2139.2	2200.0	2127.4	2105.8	2094.1	2088.2
55°	14325.2	5703.8	2031.3	1735.3	1841.1	2084.3	2200.0	2109.8	2086.2	2088.2	2086.2
57.5°	15970.3	6341.1	1956.8	1690.2	1784.3	2017.6	2162.7	2090.2	2060.7	2062.7	2064.7
60°	18540.8	7464.6	1866.6	1645.1	1713.7	1939.2	2111.7	2047.0	2017.6	2025.4	2027.4
62.5°	22321.1	9113.5	1749.0	1578.4	1639.2	1854.9	2041.1	1992.1	1962.7	1982.3	1982.3
65°	26250.5	10568.4	1603.9	1494.1	1560.8	1762.7	1952.9	1923.5	1894.1	1939.2	1937.2
67.5°	27307.3	10242.9	1458.8	1401.9	1482.3	1660.8	1847.0	1831.3	1815.7	1894.1	1890.2
70°	24258.3	8223.4	1325.5	1307.8	1396.1	1550.9	1733.3	1733.3	1723.5	1782.3	1768.6
72.5°	18482.0	5831.3	1198.0	1207.8	1298.0	1431.3	1609.8	1623.5	1607.8	1637.2	1625.5
75°	9893.9	3337.2	1070.6	1098.0	1176.4	1309.8	1472.5	1486.2	1476.4	1474.5	1480.4
77.5°	3288.2	1631.3	937.2	980.4	1049.0	1184.3	1329.4	1351.0	1327.4	1323.5	1321.5
80°	1464.7	1025.5	790.2	847.0	907.8	1041.2	1178.4	1196.1	1170.6	1205.9	1160.8
82.5°	941.2	674.5	633.3	696.1	754.9	898.0	1027.4	1031.4	1007.8	1170.6	998.0
85°	456.9	417.6	476.5	533.3	584.3	705.9	851.0	852.9	794.1	723.5	698.0
87.5°	227.4	243.1	317.6	368.6	394.1	484.3	619.6	607.8	582.3	529.4	488.2
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)