

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: P192184

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192184
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-06-LED-E1-T2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38325 lumens
Efficiency: N/A
Efficacy: 100.3 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 - G5

Input Watts (W): 382
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

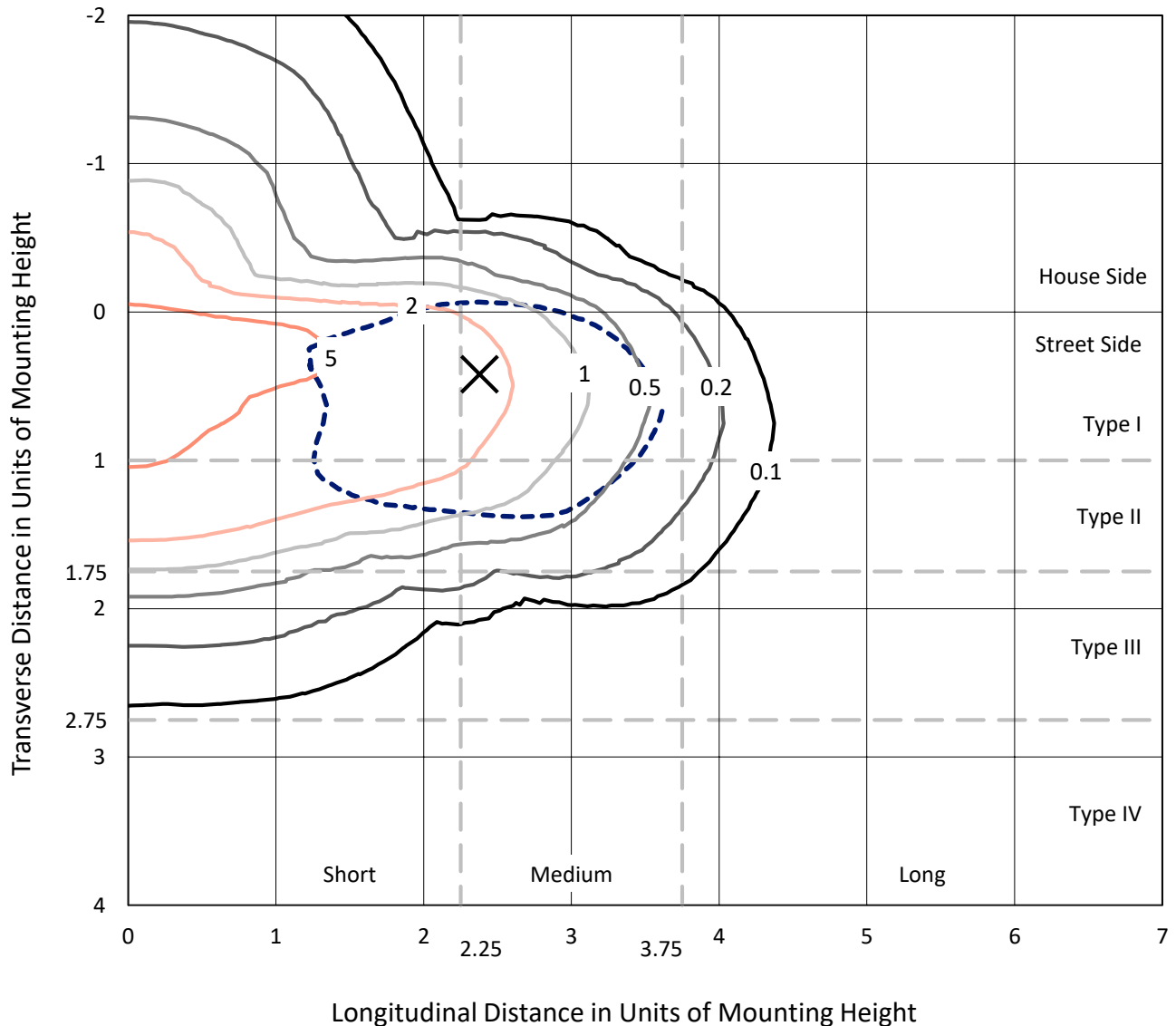


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

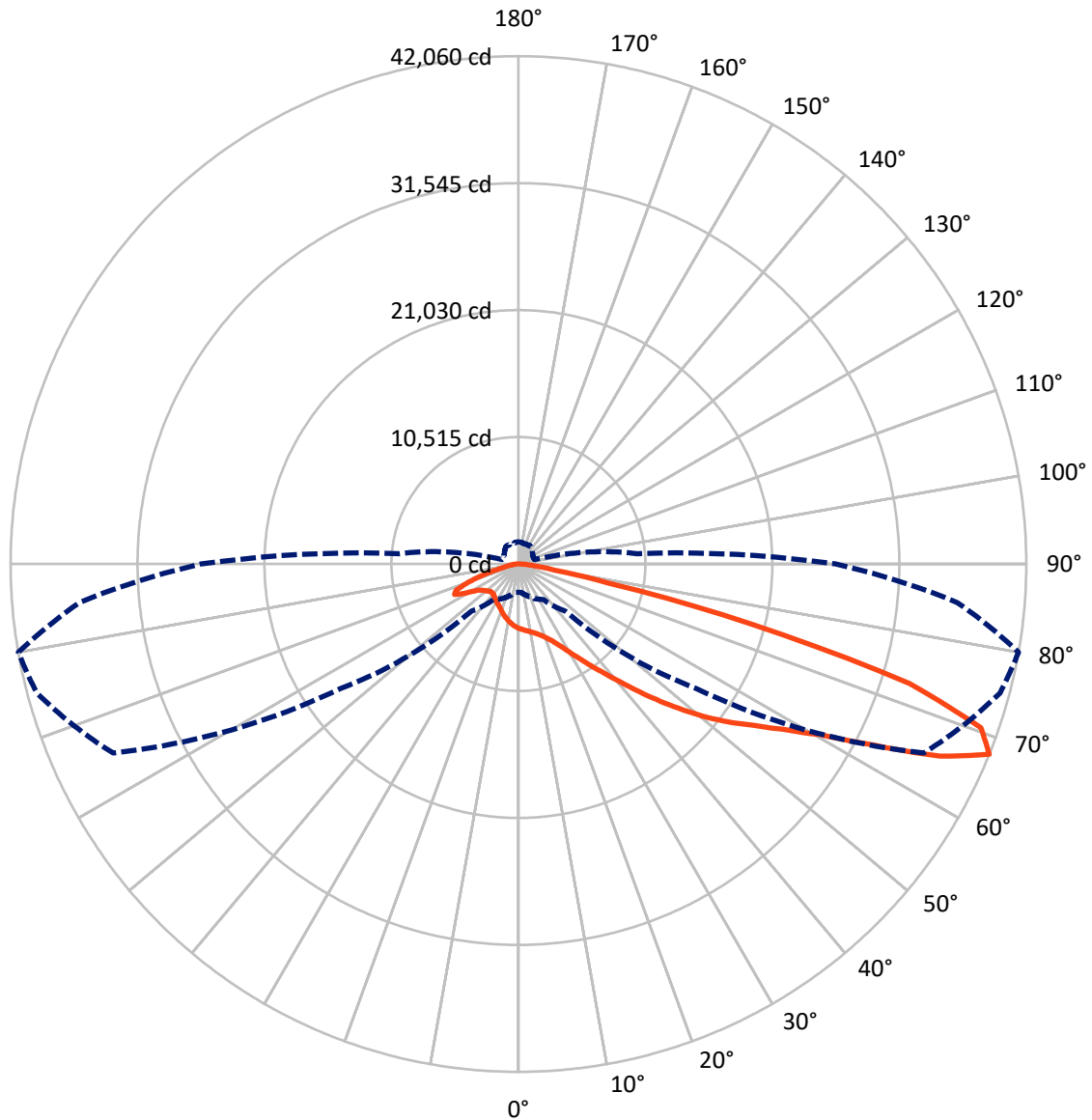


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Medium - Full Cutoff

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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	7058.0	0.0	7058.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	31267.0	0.0	31267.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	38325.0	0.0	38325.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.2	1.3
10°-20°	1414.9	3.7
20°-30°	2341.9	6.1
30°-40°	3830.8	10.0
40°-50°	6185.2	16.1
50°-60°	8929.6	23.3
60°-70°	9854.4	25.7
70°-80°	4542.3	11.9
80°-90°	734.7	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°	38325.0	100.0
0°-180°	38325.0	100.0



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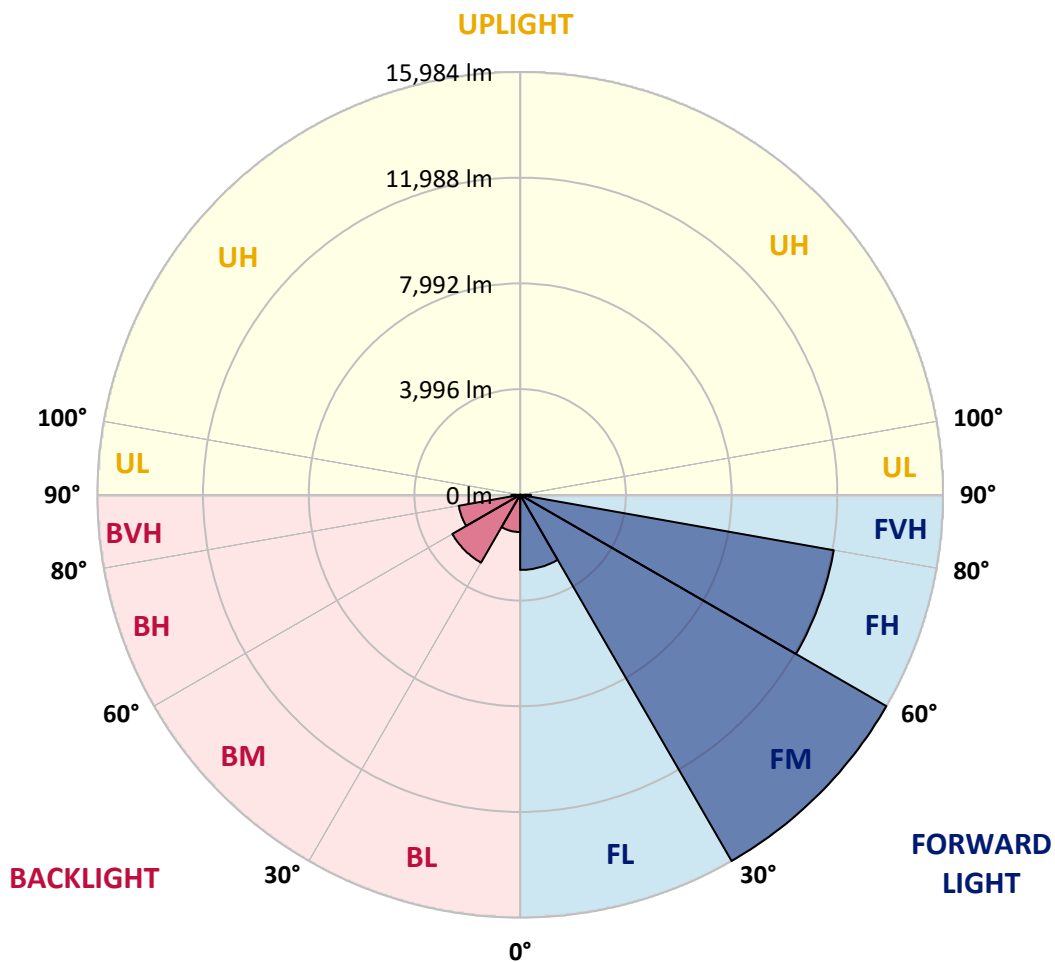
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2839.8	7.4			
FM (30°-60°)	15984.4	41.7			
FH (60°-80°)	12038.9	31.4			G5
FVH (80°-90°)	403.9	1.1			G3/500
BL (0°-30°)	1408.2	3.7	B3/2500		
BM (30°-60°)	2961.3	7.7	B3/5000		
BH (60°-80°)	2357.8	6.2	B3/2500		G3/2500
BVH (80°-90°)	330.8	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°	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5
2.5°	5824.5	5790.5	5796.1	5786.7	5758.4	5709.4	5656.5	5560.3	5460.3	5407.5	5366.0
5°	6311.2	6301.8	6288.6	6258.4	6186.7	6084.8	5958.4	5788.6	5605.6	5509.4	5416.9
7.5°	6675.4	6669.7	6652.7	6633.9	6564.1	6441.4	6250.9	6009.4	5743.3	5611.2	5467.9
10°	6705.6	6715.0	6728.2	6779.2	6788.6	6722.6	6528.2	6235.8	5886.7	5716.9	5533.9
12.5°	6449.0	6469.7	6520.7	6650.9	6788.6	6869.7	6769.7	6473.5	6054.6	5849.0	5616.9
15°	6109.4	6120.7	6182.9	6362.2	6609.3	6860.3	6954.6	6735.8	6271.6	6018.8	5741.4
17.5°	5964.1	5969.7	6013.1	6132.0	6362.2	6720.7	7058.4	7020.7	6537.6	6230.1	5894.3
20°	5890.5	5903.7	5966.0	6082.9	6228.2	6541.4	7073.5	7328.2	6854.6	6494.3	6086.7
22.5°	6099.9	6094.3	6116.9	6175.4	6298.0	6486.7	7062.2	7645.2	7258.4	6833.9	6337.7
25°	6588.6	6609.3	6569.7	6503.7	6543.3	6675.4	7122.5	7988.6	7764.0	7269.7	6665.9
27.5°	7284.8	7264.1	7205.6	7050.8	6969.7	7026.3	7322.5	8358.4	8392.3	7843.3	7099.9
30°	7979.1	7962.2	7905.6	7716.9	7550.8	7503.7	7711.2	8782.9	9141.4	8532.0	7632.0
32.5°	8699.9	8681.0	8628.2	8439.5	8239.5	8130.1	8264.0	9273.5	10024.4	9354.6	8258.4
35°	9588.6	9552.7	9441.4	9179.1	8982.9	8898.0	8960.3	9890.4	11043.2	10328.2	9018.7
37.5°	10424.4	10479.1	10365.9	10003.6	9748.9	9718.7	9788.5	10643.3	12141.3	11416.8	9892.3
40°	11264.0	11273.4	11171.5	10875.3	10613.1	10564.0	10739.5	11556.4	13437.6	12718.7	10954.6
42.5°	12131.9	12150.8	11979.1	11705.5	11513.1	11522.5	11722.5	12626.2	14924.3	14252.6	12177.2
45°	13160.2	13188.5	12999.8	12641.3	12465.9	12818.7	12735.7	13826.2	16554.5	15996.0	13581.0
47.5°	14235.7	14279.1	14135.7	13799.8	13581.0	14065.8	13748.9	15156.4	18309.2	17865.8	15122.4
50°	14822.4	14884.7	15024.3	14999.8	14952.6	14871.5	14879.0	16582.8	20118.6	19812.9	16707.3
52.5°	14507.4	14505.5	15014.9	15633.8	16294.1	16343.2	16256.4	18086.6	21809.1	21716.7	18199.8
55°	13065.9	13164.0	13935.7	15133.8	16937.5	18063.9	18320.5	19809.2	23469.5	23577.0	19714.8
57.5°	10665.9	10747.0	11788.5	13458.3	16069.6	19086.5	21256.3	22312.9	25326.1	25828.0	21731.8
60°	7233.9	7332.0	8435.7	10441.4	13733.8	18516.7	24050.6	26780.8	27548.7	28690.2	24561.9
62.5°	4250.9	4339.6	5239.6	6586.7	9669.7	15869.6	25277.0	33137.3	31078.8	33009.0	28878.9
65°	2926.4	2986.8	3424.5	4099.9	5556.5	10688.5	23756.3	37525.9	36510.8	38359.9	33884.5
67.5°	2354.7	2347.1	2694.3	3154.7	3577.3	5511.2	17963.9	37029.7	41288.1	42059.8	36482.5
70°	1939.6	1932.0	2167.9	2549.0	2858.5	3103.7	9784.8	31248.6	40314.6	40627.8	34090.1
72.5°	1622.6	1630.2	1781.1	2064.1	2345.3	2337.7	4299.9	21982.7	31714.7	33880.7	27175.1
75°	1369.8	1373.6	1473.6	1673.6	1903.7	1883.0	2332.0	11909.3	18435.6	19943.1	15063.9
77.5°	1166.0	1169.8	1233.9	1345.3	1509.4	1501.9	1701.9	5145.2	7690.5	7596.1	5152.8
80°	1039.6	1039.6	1069.8	1090.6	1181.1	1147.2	1262.2	2471.7	3250.9	3001.8	2056.6
82.5°	815.1	818.9	1003.8	996.2	930.2	886.8	886.8	1456.6	1722.6	1592.4	1203.8
85°	458.5	456.6	647.2	781.1	818.9	624.5	618.9	815.1	937.7	826.4	583.0
87.5°	196.2	200.0	300.0	347.2	464.1	388.7	383.0	420.7	477.4	413.2	269.8
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°	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5	5324.5
2.5°	5326.3	5277.3	5169.7	5035.8	4915.0	4835.8	4764.1	4660.3	4666.0	4594.3	4541.4
5°	5322.6	5220.7	4971.6	4675.4	4390.5	4184.8	4030.1	3890.5	3856.6	3790.5	3750.9
7.5°	5326.3	5160.3	4741.4	4267.9	3915.0	3654.7	3522.6	3449.0	3432.0	3409.4	3411.3
10°	5339.6	5105.6	4488.6	3886.7	3516.9	3345.2	3313.2	3335.8	3362.2	3369.8	3371.7
12.5°	5369.7	5056.5	4211.3	3547.1	3267.9	3215.1	3269.8	3347.1	3398.1	3422.6	3420.7
15°	5437.7	5018.8	3945.2	3281.1	3130.1	3158.4	3260.3	3369.8	3443.4	3477.3	3479.2
17.5°	5511.2	4964.1	3671.6	3077.3	3028.3	3100.0	3226.4	3354.7	3445.2	3483.0	3490.5
20°	5607.5	4896.2	3384.9	2924.5	2932.0	3013.2	3132.0	3260.3	3360.3	3392.4	3407.5
22.5°	5733.9	4822.6	3133.9	2800.0	2822.6	2884.9	2977.3	3088.6	3175.4	3190.5	3203.7
25°	5903.7	4743.3	2933.9	2686.8	2696.2	2732.0	2794.3	2860.3	2920.7	2903.7	2916.9
27.5°	6132.0	4675.4	2784.9	2583.0	2566.0	2573.6	2605.6	2626.4	2658.5	2611.3	2616.9
30°	6399.9	4601.8	2669.8	2492.4	2445.3	2432.0	2439.6	2450.9	2475.4	2411.3	2401.9
32.5°	6711.2	4513.1	2562.2	2413.2	2347.1	2320.7	2324.5	2354.7	2449.0	2409.4	2388.6
35°	7073.5	4413.1	2449.0	2326.4	2281.1	2243.4	2239.6	2333.9	2615.1	2590.5	2571.7
37.5°	7498.0	4313.1	2335.8	2228.3	2232.0	2190.5	2177.3	2284.9	2647.1	2550.9	2537.7
40°	8037.6	4260.3	2239.6	2124.5	2171.7	2166.0	2139.6	2194.3	2435.8	2260.3	2237.7
42.5°	8705.5	4267.9	2167.9	2013.2	2100.0	2160.3	2118.8	2120.7	2207.5	2075.4	2054.7
45°	9530.1	4356.5	2117.0	1924.5	2018.8	2154.7	2111.3	2081.1	2088.7	2018.8	2007.5
47.5°	10492.3	4539.6	2081.1	1850.9	1941.5	2133.9	2109.4	2069.8	2052.8	2015.1	2005.6
50°	11562.1	4805.6	2054.7	1781.1	1871.7	2100.0	2111.3	2058.5	2039.6	2024.5	2018.8
52.5°	12613.0	5109.4	2015.1	1720.7	1817.0	2058.5	2117.0	2047.1	2026.4	2015.1	2009.4
55°	13784.7	5488.6	1954.7	1669.8	1771.7	2005.6	2117.0	2030.2	2007.5	2009.4	2007.5
57.5°	15367.7	6101.8	1883.0	1626.4	1717.0	1941.5	2081.1	2011.3	1983.0	1984.9	1986.8
60°	17841.3	7182.9	1796.2	1583.0	1649.0	1866.0	2032.0	1969.8	1941.5	1949.0	1950.9
62.5°	21479.0	8769.7	1683.0	1518.8	1577.3	1784.9	1964.1	1917.0	1888.7	1907.5	1907.5
65°	25260.0	10169.7	1543.4	1437.7	1501.9	1696.2	1879.2	1850.9	1822.6	1866.0	1864.1
67.5°	26277.0	9856.5	1403.8	1349.0	1426.4	1598.1	1777.3	1762.2	1747.1	1822.6	1818.8
70°	23343.1	7913.1	1275.5	1258.5	1343.4	1492.4	1667.9	1667.9	1658.5	1715.1	1701.9
72.5°	17784.7	5611.2	1152.8	1162.2	1249.0	1377.3	1549.0	1562.2	1547.1	1575.5	1564.1
75°	9520.6	3211.3	1030.2	1056.6	1132.1	1260.4	1417.0	1430.2	1420.7	1418.8	1424.5
77.5°	3164.1	1569.8	901.9	943.4	1009.4	1139.6	1279.2	1300.0	1277.3	1273.6	1271.7
80°	1409.4	986.8	760.4	815.1	873.6	1001.9	1133.9	1150.9	1126.4	1160.4	1117.0
82.5°	905.6	649.0	609.4	669.8	726.4	864.1	988.7	992.4	969.8	1126.4	960.4
85°	439.6	401.9	458.5	513.2	562.3	679.2	818.9	820.7	764.1	696.2	671.7
87.5°	218.9	234.0	305.7	354.7	379.2	466.0	596.2	584.9	560.4	509.4	469.8
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)