

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: P191366

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191366
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-08-LED-E1-T2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38691.1 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G5

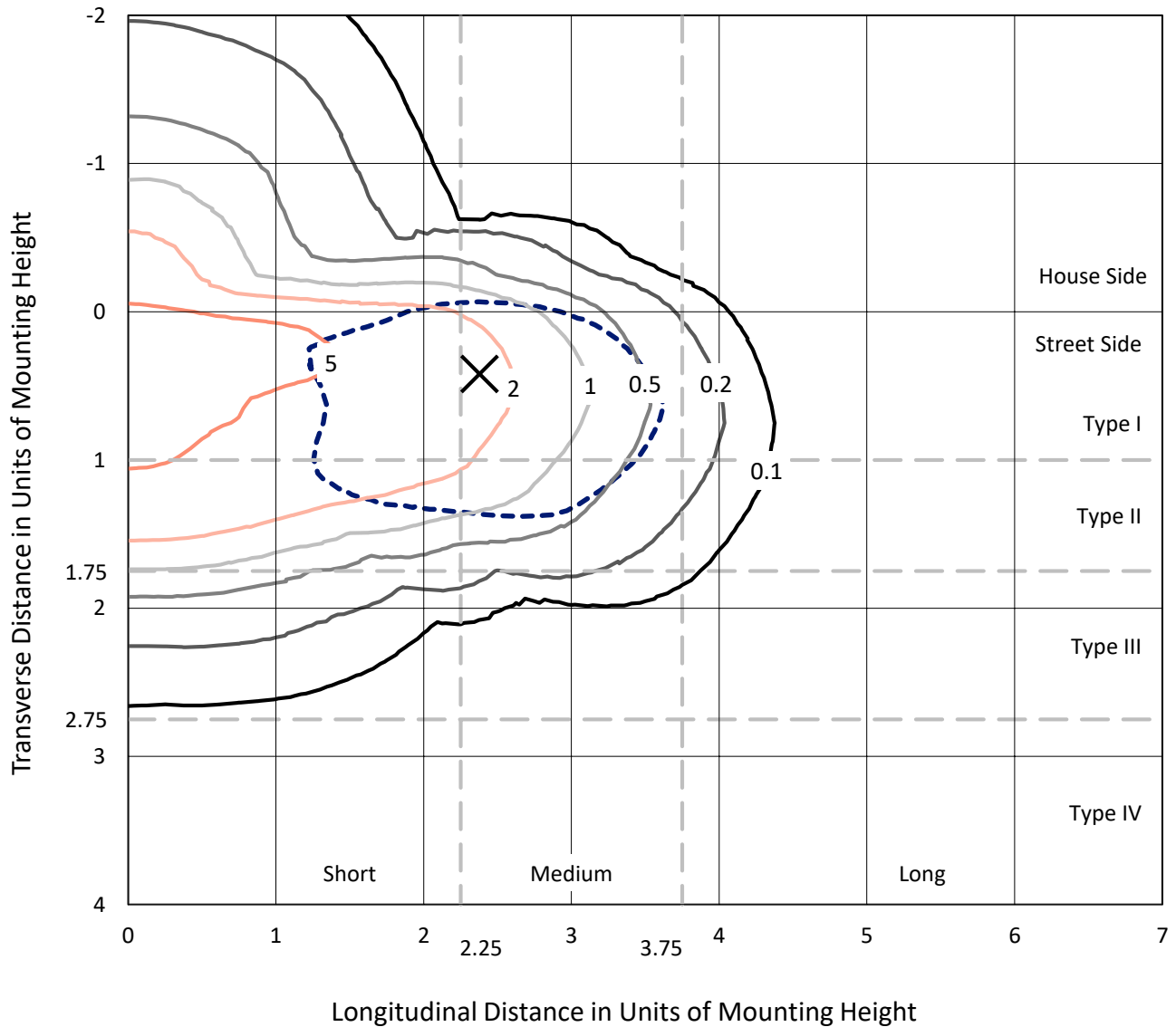
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

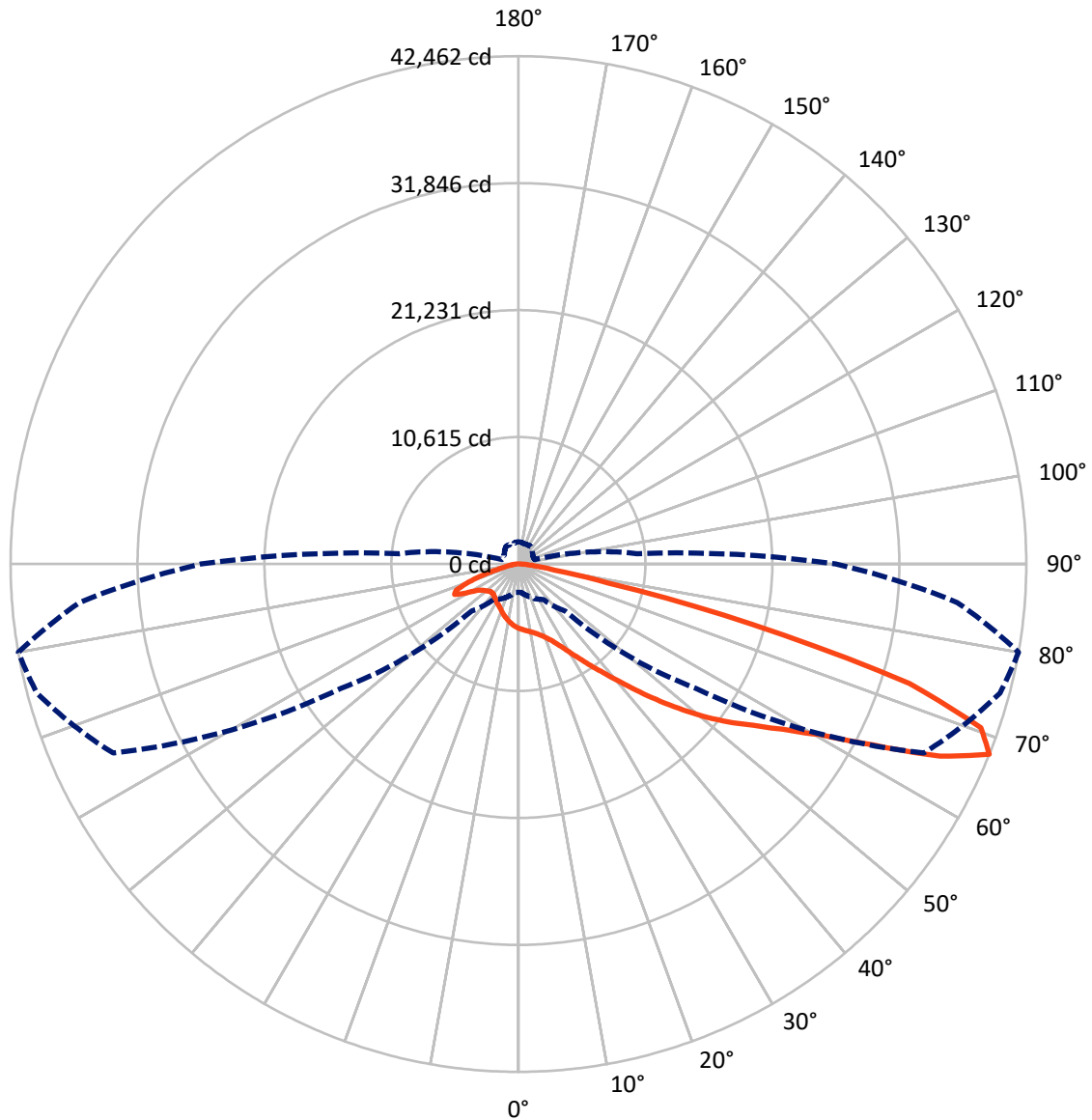
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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
House Side	Lumens	7125.4	0.0	7125.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	31565.6	0.0	31565.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	38691.1	0.0	38691.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.9	1.3
10°-20°	1428.4	3.7
20°-30°	2364.3	6.1
30°-40°	3867.4	10.0
40°-50°	6244.3	16.1
50°-60°	9014.9	23.3
60°-70°	9948.5	25.7
70°-80°	4585.6	11.9
80°-90°	741.7	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°	38691.1	100.0
0°-180°	38691.1	100.0



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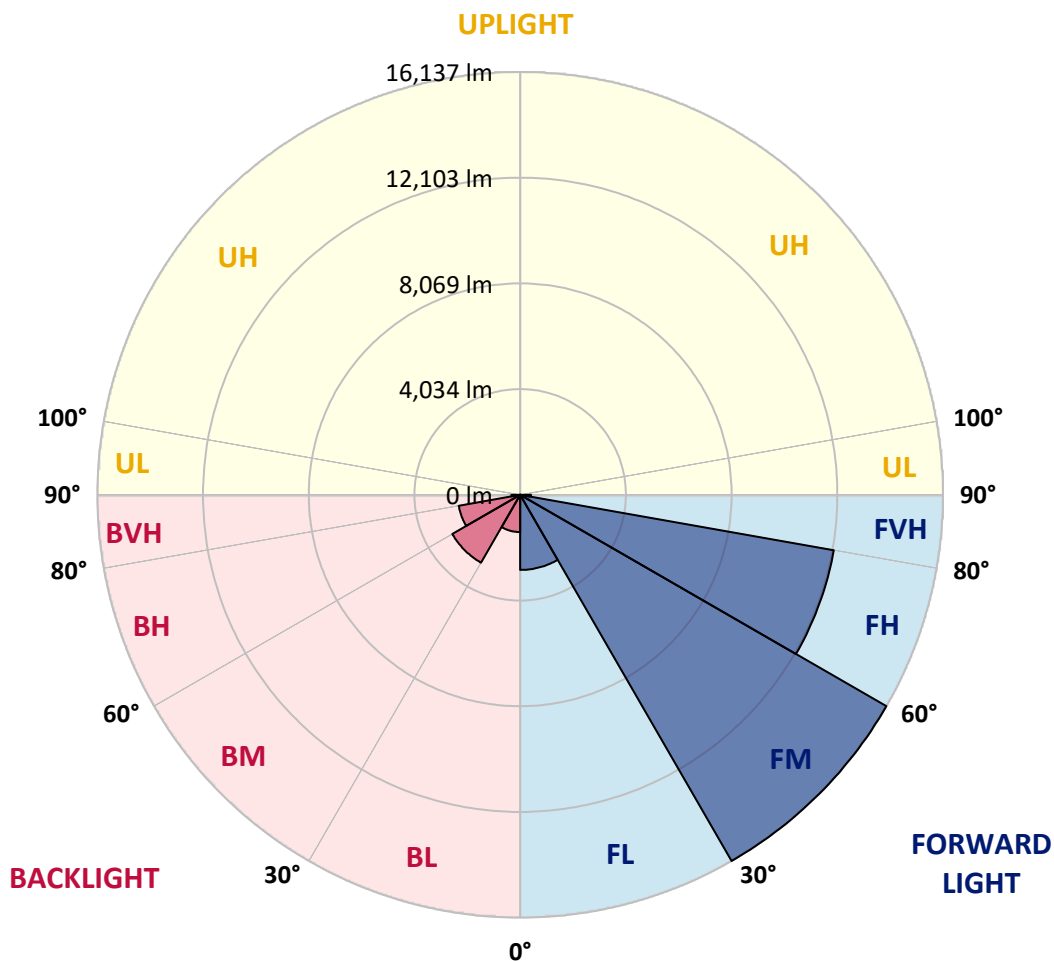
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2866.9	7.4			
FM	(30°-60°)	16137.1	41.7			
FH	(60°-80°)	12153.9	31.4			G5
FVH	(80°-90°)	407.8	1.1			G3/500
BL	(0°-30°)	1421.6	3.7	B3/2500		
BM	(30°-60°)	2989.6	7.7	B3/5000		
BH	(60°-80°)	2380.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	333.9	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°	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3
2.5°	5880.1	5845.8	5851.5	5842.0	5813.4	5763.9	5710.5	5613.4	5512.5	5459.1	5417.2
5°	6371.6	6362.0	6348.6	6318.2	6245.8	6142.9	6015.4	5843.9	5659.2	5562.0	5468.7
7.5°	6739.1	6733.5	6716.3	6697.3	6626.8	6503.0	6310.6	6066.7	5798.2	5664.8	5520.0
10°	6769.6	6779.1	6792.5	6844.0	6853.5	6786.8	6590.6	6295.3	5942.9	5771.5	5586.7
12.5°	6510.6	6531.5	6583.0	6714.3	6853.5	6935.3	6834.3	6535.3	6112.4	5904.9	5670.5
15°	6167.7	6179.1	6241.9	6422.9	6672.5	6925.8	7021.0	6800.1	6331.6	6076.3	5796.2
17.5°	6021.1	6026.7	6070.6	6190.6	6422.9	6784.8	7125.8	7087.7	6600.1	6289.6	5950.6
20°	5946.7	5960.1	6022.9	6141.1	6287.7	6603.9	7141.0	7398.2	6920.1	6556.3	6144.9
22.5°	6158.2	6152.4	6175.3	6234.4	6358.2	6548.6	7129.7	7718.2	7327.7	6899.2	6398.1
25°	6651.5	6672.5	6632.5	6565.8	6605.8	6739.1	7190.6	8064.8	7838.2	7339.2	6729.6
27.5°	7354.4	7333.4	7274.4	7118.2	7036.3	7093.4	7392.5	8438.2	8472.5	7918.3	7167.7
30°	8055.3	8038.2	7981.1	7790.6	7622.9	7575.4	7784.9	8866.8	9228.7	8613.5	7704.9
32.5°	8783.0	8763.9	8710.6	8520.2	8318.2	8207.7	8343.0	9362.0	10120.2	9444.0	8337.3
35°	9680.2	9644.0	9531.5	9266.8	9068.7	8982.9	9045.9	9984.9	11148.7	10426.8	9104.9
37.5°	10523.9	10579.2	10464.9	10099.2	9842.0	9811.5	9882.0	10744.9	12257.3	11525.9	9986.8
40°	11371.6	11381.1	11278.2	10979.2	10714.5	10664.9	10842.1	11666.9	13565.9	12840.2	11059.2
42.5°	12247.8	12266.8	12093.5	11817.3	11623.1	11632.6	11834.4	12746.9	15066.8	14388.8	12293.5
45°	13285.9	13314.5	13123.9	12762.1	12585.0	12941.1	12857.4	13958.3	16712.7	16148.8	13710.7
47.5°	14371.6	14415.4	14270.7	13931.7	13710.7	14200.2	13880.2	15301.2	18484.1	18036.5	15266.9
50°	14964.0	15026.8	15167.8	15143.0	15095.5	15013.5	15021.2	16741.2	20310.8	20002.2	16866.9
52.5°	14645.9	14644.1	15158.3	15783.1	16449.8	16499.3	16411.7	18259.3	22017.5	21924.1	18373.6
55°	13190.6	13289.7	14068.7	15278.3	17099.3	18236.5	18495.5	19998.4	23693.7	23802.2	19903.1
57.5°	10767.8	10849.7	11901.1	13586.8	16223.1	19268.8	21459.4	22526.0	25567.9	26074.6	21939.3
60°	7302.9	7402.0	8516.3	10541.1	13865.0	18693.6	24280.4	27036.6	27811.8	28964.2	24796.5
62.5°	4291.5	4381.0	5289.6	6649.6	9762.0	16021.1	25518.4	33453.8	31375.6	33324.3	29154.7
65°	2954.3	3015.2	3457.2	4139.1	5609.6	10790.6	23983.2	37884.4	36859.6	38726.3	34208.1
67.5°	2377.1	2369.6	2720.0	3184.9	3611.5	5563.9	18135.5	37383.4	41682.5	42461.6	36831.0
70°	1958.1	1950.5	2188.6	2573.3	2885.7	3133.4	9878.2	31547.1	40699.6	41015.8	34415.7
72.5°	1638.2	1645.7	1798.1	2083.9	2367.6	2360.0	4341.0	22192.7	32017.6	34204.3	27434.7
75°	1382.9	1386.7	1487.7	1689.5	1921.9	1900.9	2354.3	12023.0	18611.7	20133.6	15207.8
77.5°	1177.1	1181.0	1245.7	1358.1	1523.8	1516.2	1718.1	5194.3	7763.9	7668.7	5202.0
80°	1049.5	1049.5	1080.0	1101.0	1192.4	1158.1	1274.3	2495.3	3281.9	3030.5	2076.2
82.5°	822.9	826.6	1013.3	1005.8	939.1	895.3	895.3	1470.5	1739.1	1607.7	1215.3
85°	462.9	460.9	653.4	788.6	826.6	630.4	624.8	822.9	946.6	834.3	588.6
87.5°	198.1	201.9	302.9	350.5	468.6	392.4	386.7	424.7	481.9	417.2	272.4
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°	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3	5375.3
2.5°	5377.2	5327.7	5219.1	5083.9	4961.9	4881.9	4809.6	4704.9	4710.6	4638.2	4584.9
5°	5373.5	5270.5	5019.1	4720.1	4432.4	4224.8	4068.6	3927.7	3893.4	3826.8	3786.8
7.5°	5377.2	5209.6	4786.7	4308.7	3952.5	3689.6	3556.3	3481.9	3464.8	3441.9	3443.9
10°	5390.5	5154.3	4531.5	3923.8	3550.6	3377.2	3344.8	3367.7	3394.4	3401.9	3403.9
12.5°	5421.0	5104.8	4251.5	3581.0	3299.1	3245.7	3301.0	3379.1	3430.6	3455.3	3453.4
15°	5489.6	5066.8	3983.0	3312.4	3160.0	3188.6	3291.4	3401.9	3476.2	3510.6	3512.4
17.5°	5563.9	5011.5	3706.8	3106.7	3057.2	3129.6	3257.2	3386.7	3478.1	3516.3	3523.9
20°	5661.0	4942.9	3417.2	2952.4	2960.0	3041.9	3161.9	3291.4	3392.4	3424.8	3440.1
22.5°	5788.7	4868.6	3163.9	2826.7	2849.5	2912.4	3005.7	3118.2	3205.7	3221.0	3234.4
25°	5960.1	4788.6	2962.0	2712.5	2722.0	2758.2	2821.0	2887.7	2948.7	2931.5	2944.8
27.5°	6190.6	4720.1	2811.5	2607.7	2590.5	2598.1	2630.5	2651.5	2683.8	2636.2	2642.0
30°	6461.1	4645.7	2695.3	2516.3	2468.6	2455.3	2462.9	2474.3	2499.1	2434.3	2424.8
32.5°	6775.3	4556.2	2586.7	2436.3	2369.6	2342.9	2346.6	2377.1	2472.4	2432.4	2411.5
35°	7141.0	4455.3	2472.4	2348.6	2302.9	2264.8	2261.0	2356.3	2640.0	2615.3	2596.2
37.5°	7569.6	4354.4	2358.1	2249.6	2253.4	2211.4	2198.1	2306.7	2672.5	2575.3	2562.0
40°	8114.4	4301.0	2261.0	2144.8	2192.4	2186.7	2160.1	2215.3	2459.1	2281.9	2259.1
42.5°	8788.7	4308.7	2188.6	2032.4	2120.1	2181.0	2139.1	2140.9	2228.6	2095.3	2074.3
45°	9621.1	4398.2	2137.1	1942.9	2038.1	2175.3	2131.4	2100.9	2108.6	2038.1	2026.7
47.5°	10592.6	4582.9	2100.9	1868.6	1960.1	2154.3	2129.6	2089.6	2072.4	2034.3	2024.8
50°	11672.6	4851.5	2074.3	1798.1	1889.6	2120.1	2131.4	2078.1	2059.1	2043.9	2038.1
52.5°	12733.5	5158.1	2034.3	1737.2	1834.4	2078.1	2137.1	2066.7	2045.7	2034.3	2028.6
55°	13916.4	5541.0	1973.4	1685.7	1788.6	2024.8	2137.1	2049.6	2026.7	2028.6	2026.7
57.5°	15514.5	6160.1	1900.9	1641.9	1733.4	1960.1	2100.9	2030.5	2001.9	2003.9	2005.7
60°	18011.7	7251.5	1813.4	1598.2	1664.8	1883.9	2051.4	1988.6	1960.1	1967.6	1969.6
62.5°	21684.1	8853.4	1699.1	1533.4	1592.4	1801.9	1982.9	1935.2	1906.7	1925.7	1925.7
65°	25501.3	10266.8	1558.2	1451.5	1516.2	1712.4	1897.2	1868.6	1840.0	1883.9	1881.9
67.5°	26528.0	9950.7	1417.2	1362.0	1440.0	1613.4	1794.4	1779.1	1763.9	1840.0	1836.2
70°	23566.0	7988.7	1287.6	1270.5	1356.2	1506.7	1683.9	1683.9	1674.3	1731.4	1718.1
72.5°	17954.5	5664.8	1163.8	1173.3	1261.0	1390.5	1563.8	1577.2	1561.9	1590.5	1579.0
75°	9611.5	3241.9	1040.0	1066.6	1142.8	1272.4	1430.5	1443.8	1434.3	1432.4	1438.2
77.5°	3194.4	1584.8	910.5	952.4	1019.1	1150.5	1291.5	1312.4	1289.5	1285.7	1283.8
80°	1422.9	996.3	767.6	822.9	881.9	1011.5	1144.8	1162.0	1137.1	1171.5	1127.6
82.5°	914.3	655.2	615.2	676.2	733.4	872.4	998.1	1001.9	979.1	1137.1	969.6
85°	443.9	405.7	462.9	518.1	567.6	685.7	826.6	828.6	771.4	702.9	678.1
87.5°	221.0	236.2	308.6	358.1	382.9	470.5	601.9	590.4	565.7	514.3	474.3
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)