

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: P194048

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T3R-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53922 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

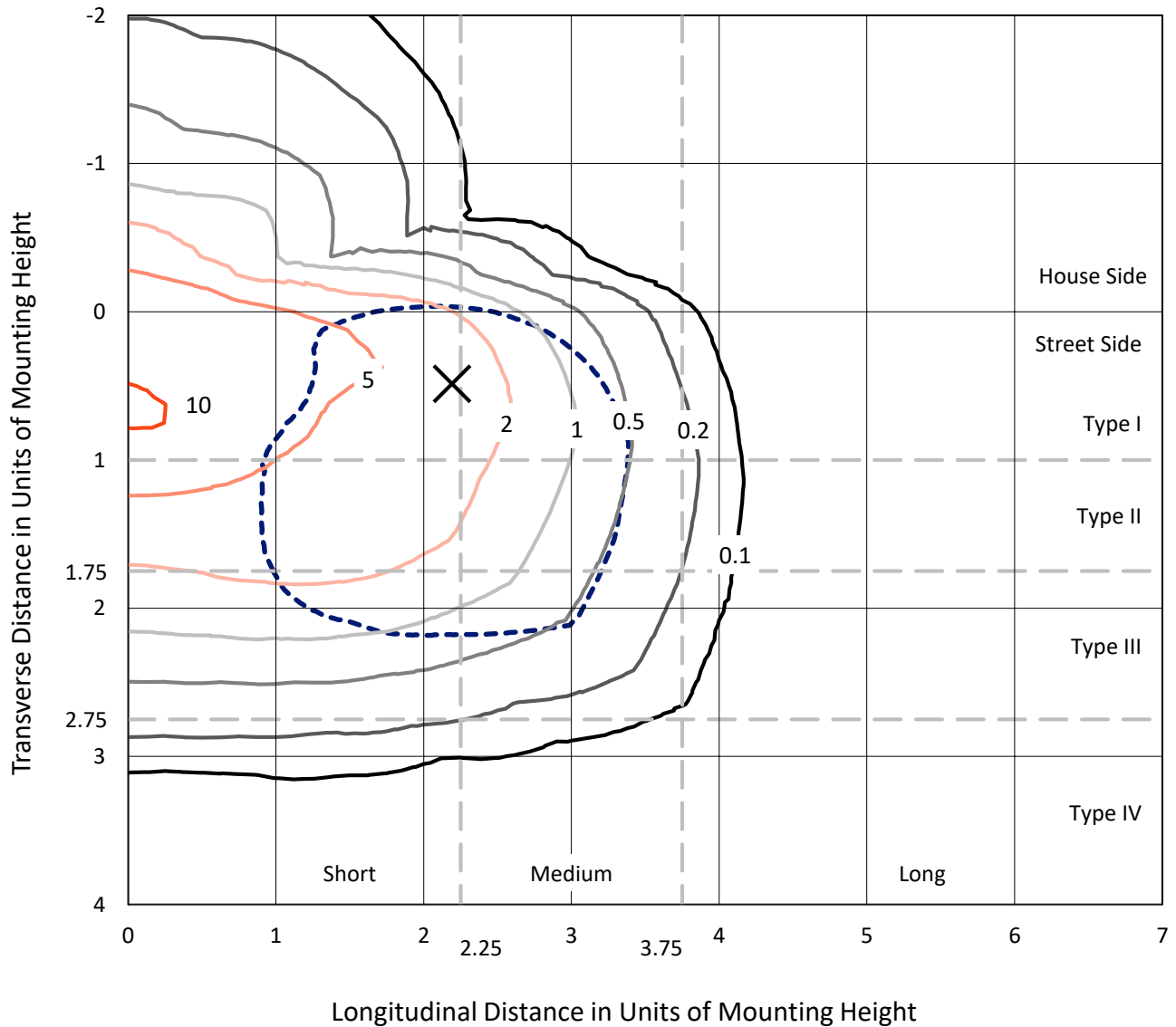


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

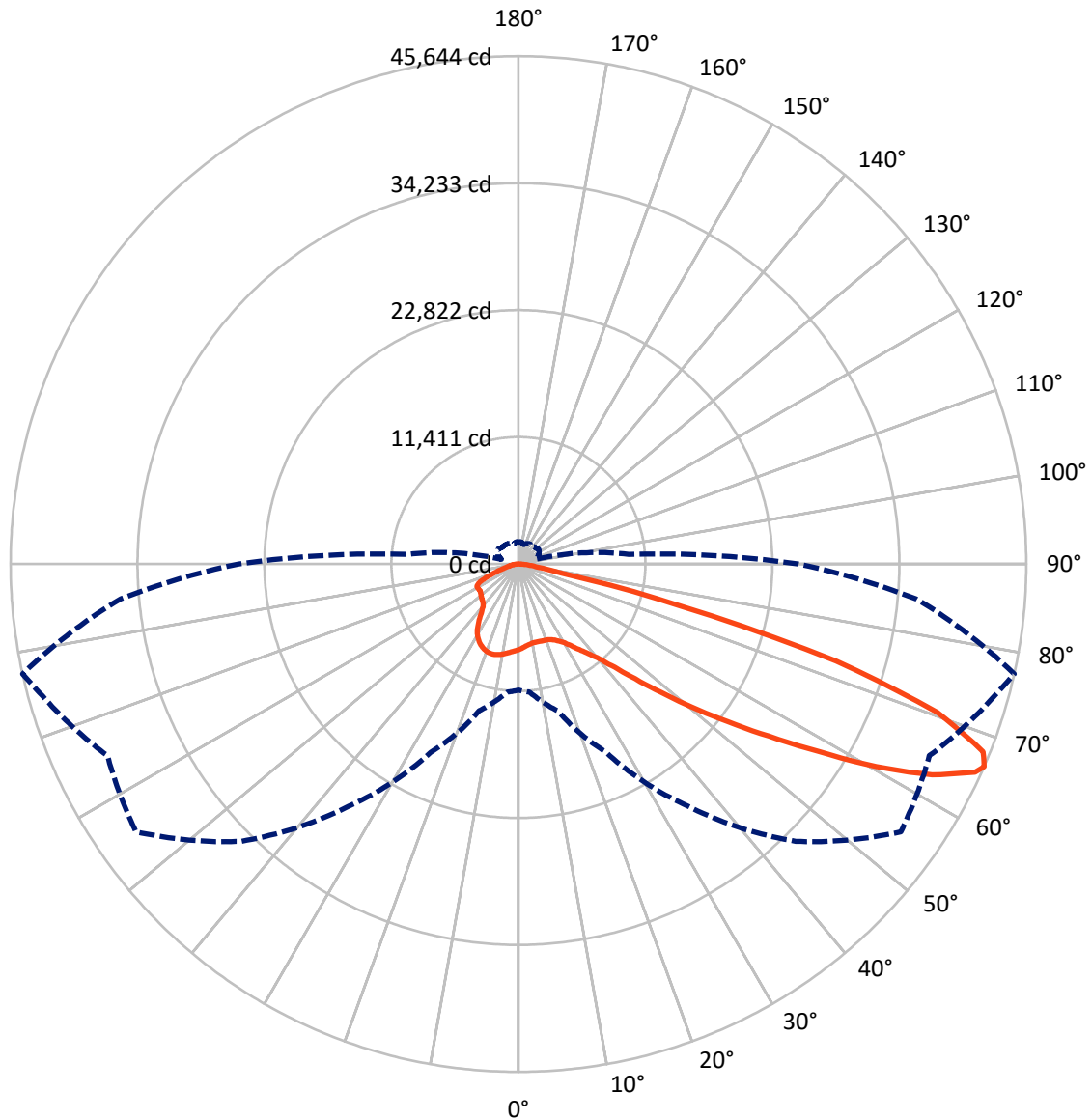


Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9212.2	0.0	9212.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	44709.8	0.0	44709.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	53922.0	0.0	53922.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.5	1.3
10°-20°	1936.8	3.6
20°-30°	3305.4	6.1
30°-40°	5291.4	9.8
40°-50°	8174.6	15.2
50°-60°	11594.5	21.5
60°-70°	15510.2	28.8
70°-80°	6735.8	12.5
80°-90°	686.8	1.3
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°	53922.0	100.0
0°-180°	53922.0	100.0



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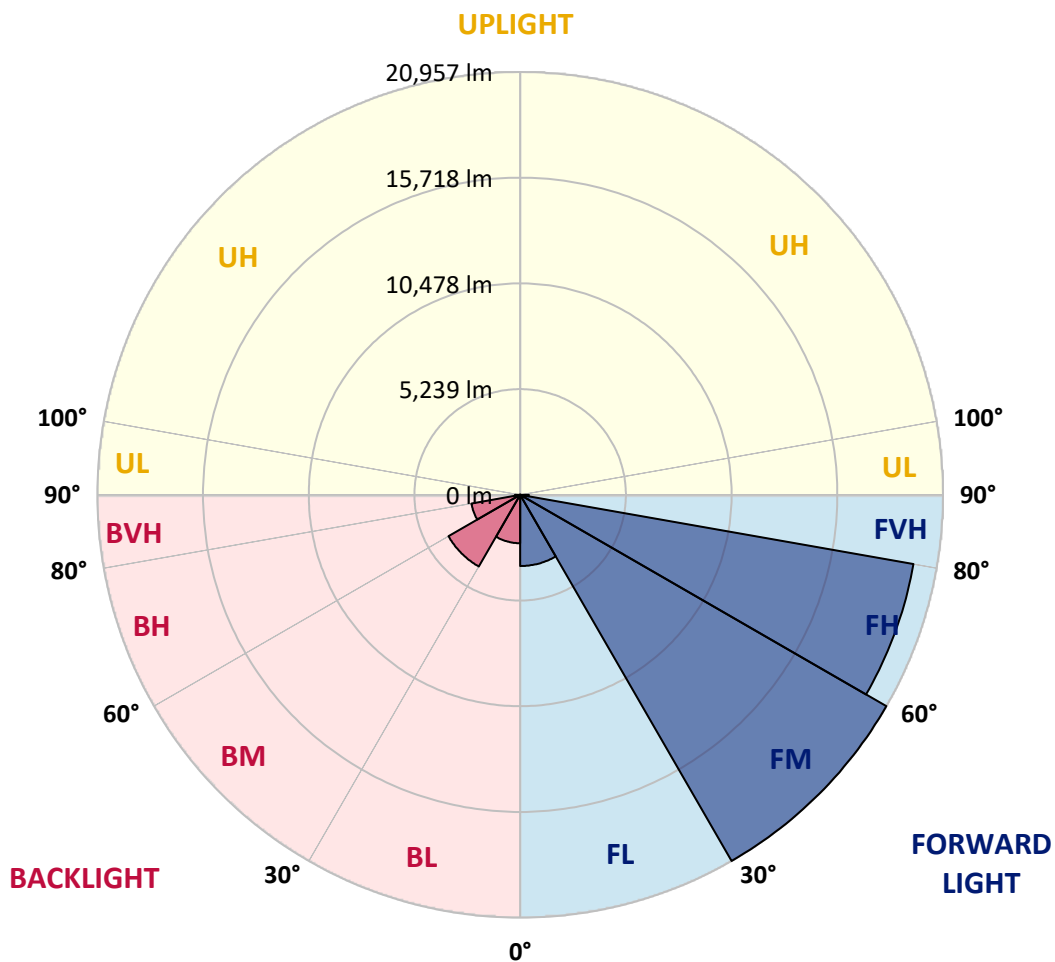
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3529.4	6.5			
FM (30°-60°)	20956.9	38.9			
FH (60°-80°)	19792.7	36.7			G5
FVH (80°-90°)	430.8	0.8			G3/500
BL (0°-30°)	2399.2	4.4	B3/2500		
BM (30°-60°)	4103.5	7.6	B3/5000		
BH (60°-80°)	2453.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	256.1	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1
2.5°	6797.5	6843.4	6881.6	6917.3	6988.6	7105.8	7240.8	7350.4	7508.3	7538.9	7623.0
5°	6173.3	6173.3	6203.9	6257.4	6354.2	6530.0	6713.4	6958.0	7302.0	7383.5	7607.7
7.5°	5870.1	5872.7	5890.5	5936.4	6020.4	6180.9	6382.2	6670.1	7136.4	7271.4	7653.6
10°	5982.2	5956.7	5918.5	5895.6	5908.3	6002.6	6193.7	6514.7	7034.5	7207.7	7755.5
12.5°	6609.0	6560.6	6428.1	6252.3	6084.1	6015.3	6127.4	6440.8	6991.1	7192.4	7890.5
15°	7633.2	7612.8	7365.7	7001.3	6593.7	6252.3	6175.8	6412.8	6996.2	7210.3	8051.0
17.5°	8917.3	8889.2	8563.1	8033.2	7368.2	6703.2	6346.6	6435.7	7014.1	7240.8	8206.4
20°	10214.1	10127.5	9775.9	9144.0	8290.5	7317.3	6629.4	6494.3	7037.0	7273.9	8369.5
22.5°	11182.3	11110.9	10795.0	10181.0	9197.5	8028.1	7009.0	6596.2	7110.9	7370.8	8570.8
25°	12033.2	12038.3	11724.9	11131.3	10114.7	8782.2	7498.2	6868.8	7299.4	7569.5	8845.9
27.5°	13085.5	13024.3	12731.3	12142.8	11021.7	9544.0	8089.2	7243.4	7579.7	7852.3	9207.7
30°	14344.1	14300.8	13961.9	13294.4	12028.1	10361.9	8764.4	7679.0	7941.5	8224.3	9681.6
32.5°	15824.3	15804.0	15452.4	14593.8	13189.9	11324.9	9556.8	8254.8	8481.6	8774.6	10361.9
35°	17561.9	17564.5	17149.2	16117.3	14461.3	12446.0	10456.1	8996.3	9138.9	9444.7	11172.1
37.5°	18632.0	18761.9	18606.5	17554.3	15900.8	13699.5	11623.0	9979.7	9888.0	10196.3	12040.9
40°	18861.3	19019.3	19511.0	18976.0	17511.0	15080.4	12657.4	10924.9	10810.3	11187.4	13159.3
42.5°	18540.3	18759.4	19798.9	20176.0	19220.5	16782.3	14048.5	12328.8	12183.5	12690.6	14550.4
45°	18349.2	18512.3	19714.8	20800.2	20703.4	18705.9	15819.2	14091.8	14038.3	14703.3	16155.6
47.5°	18018.0	18165.8	19322.5	20945.4	21574.7	20469.0	17946.6	16247.3	16351.7	17223.1	17967.0
50°	18196.3	18257.5	18884.2	20576.0	21826.9	21760.7	20323.7	18744.1	19100.8	20188.7	20018.0
52.5°	18170.9	18328.8	18833.3	19969.6	21860.1	22558.2	22665.2	21528.8	22280.4	23528.9	22293.2
55°	14690.6	14981.0	18234.5	19816.7	21977.3	23340.3	24749.3	24463.9	25865.2	27320.0	24861.4
57.5°	14028.1	14211.6	16015.4	20137.7	22598.9	24833.3	27067.7	27694.5	30038.5	31727.7	27990.0
60°	13898.2	14125.0	15992.5	20530.1	23860.1	27266.5	30504.7	31605.4	35116.2	36965.9	31618.1
62.5°	13493.1	13737.7	15842.2	20479.2	25651.2	30632.1	34904.8	35763.4	39931.5	41730.3	34652.5
65°	12209.0	12438.3	14616.7	19656.2	26858.8	34224.5	40112.4	39574.9	43732.9	45085.7	36165.9
66°	11330.0	11554.2	13651.1	18688.1	26578.6	35243.6	41957.0	40754.5	44583.8	45643.7	35870.4
67.5°	9722.4	9898.2	11775.9	16519.9	25088.1	35529.0	43508.6	41641.1	44673.0	45047.5	34181.2
70°	6142.7	6193.7	7653.6	11403.9	18991.2	30813.0	41146.8	39439.8	40988.9	39974.9	28655.0
72.5°	2665.0	2647.2	3673.9	5801.3	10751.7	20675.3	33284.4	32542.9	32153.1	29839.7	20058.8
75°	1482.8	1503.2	1908.3	2693.0	4369.5	10155.5	21773.4	20835.8	17592.5	15011.6	9095.6
77.5°	1189.8	1217.8	1582.2	1910.8	1961.8	3541.4	10188.6	8290.5	4991.1	4005.1	2527.4
80°	940.1	991.1	1380.9	1487.9	1322.3	1459.9	3291.7	2631.9	1974.5	1811.5	1309.6
82.5°	744.0	779.6	1184.7	1126.1	924.8	983.4	1577.1	1536.3	1284.1	1169.4	756.7
85°	535.0	601.3	973.3	848.4	606.4	662.4	1047.1	1003.8	736.3	601.3	333.8
87.5°	219.1	285.4	687.9	563.1	338.9	308.3	522.3	491.7	349.0	254.8	165.6
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°	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1	7684.1
2.5°	7676.5	7737.6	7816.6	7865.0	7890.5	7908.3	7936.4	7933.8	7941.5	7944.0	7954.2
5°	7727.5	7829.4	7944.0	7974.6	7974.6	7946.6	7918.5	7872.7	7854.8	7849.7	7854.8
7.5°	7859.9	7972.0	8071.4	8035.7	7959.3	7847.2	7702.0	7574.6	7505.8	7482.9	7477.8
10°	8028.1	8163.1	8203.9	8068.9	7844.7	7574.6	7286.7	7077.8	6958.0	6924.9	6914.7
12.5°	8231.9	8359.3	8303.3	8017.9	7602.6	7166.9	6769.5	6435.7	6186.0	6107.1	6102.0
15°	8456.1	8555.5	8359.3	7859.9	7240.8	6598.8	5890.5	5314.7	5003.9	4904.5	4896.9
17.5°	8665.0	8716.0	8326.2	7584.8	6708.3	5668.8	4728.7	4285.4	4178.4	4203.9	4209.0
20°	8843.4	8843.4	8214.1	7189.9	5870.1	4443.3	3849.7	3842.1	3918.5	3994.9	4010.2
22.5°	9039.6	8922.4	8017.9	6631.9	4682.8	3635.7	3549.1	3620.4	3707.0	3791.1	3803.9
25°	9281.6	8986.1	7745.3	5786.0	3681.6	3301.9	3335.1	3393.7	3437.0	3490.5	3498.1
27.5°	9551.7	9067.6	7386.0	4621.7	3194.9	3093.0	3118.5	3138.9	3133.8	3154.2	3159.3
30°	9875.2	9161.9	6894.3	3612.8	2993.7	2914.7	2868.8	2851.0	2851.0	2884.1	2896.8
32.5°	10308.4	9302.0	6188.6	3095.6	2896.8	2787.3	2639.5	2573.3	2598.7	2710.9	2736.3
35°	10784.8	9452.3	5233.2	2919.8	2876.5	2728.7	2499.4	2377.1	2379.6	2484.1	2517.2
37.5°	11304.6	9643.4	4186.0	2886.6	2922.3	2731.2	2425.5	2257.3	2188.6	2188.6	2201.3
40°	11969.5	9839.6	3388.6	2909.6	3019.1	2761.8	2387.3	2163.1	1969.4	1974.5	1984.7
42.5°	12835.8	10007.7	2960.5	2958.0	3136.3	2802.6	2384.7	2038.2	1870.1	1984.7	2089.2
45°	13798.8	10091.8	2772.0	3001.3	3230.6	2828.0	2344.0	2017.9	1882.8	2224.2	2423.0
47.5°	14907.1	10043.4	2667.5	3016.6	3253.5	2828.0	2298.1	2066.3	1972.0	2575.8	2807.7
50°	16122.4	9903.3	2565.6	2986.0	3245.9	2823.0	2341.4	2114.7	2005.1	2637.0	2797.5
52.5°	17551.7	9786.1	2458.6	2919.8	3192.4	2794.9	2392.4	2094.3	1900.7	2397.5	2509.6
55°	19182.3	9819.2	2338.9	2825.5	3108.3	2741.4	2374.5	2012.8	1791.1	2112.1	2180.9
57.5°	21266.4	10214.1	2196.2	2705.8	2993.7	2652.3	2310.8	1974.5	1758.0	1915.9	1956.7
60°	23592.6	10902.0	2017.9	2586.0	2851.0	2509.6	2262.4	1992.4	1773.3	1900.7	1921.0
62.5°	25299.6	11302.0	1865.0	2410.2	2657.3	2351.6	2201.3	2015.3	1814.0	1954.2	1949.1
65°	25763.3	10644.7	1673.9	2152.9	2394.9	2186.0	2124.9	2040.8	1831.9	1997.5	1974.5
66°	25113.6	9936.4	1589.8	2033.1	2262.4	2104.5	2086.6	2038.2	1824.2	2002.6	1964.3
67.5°	23536.5	8484.1	1444.6	1857.3	2051.0	1982.2	2025.5	2015.3	1803.8	1997.5	1944.0
70°	19195.1	5788.6	1235.7	1546.5	1707.0	1745.2	1908.3	1933.8	1737.6	1908.3	1791.1
72.5°	13411.6	3526.1	1093.0	1200.0	1380.9	1487.9	1747.8	1821.7	1648.4	1666.3	1554.2
75°	6481.6	1872.6	991.1	929.9	1072.6	1243.3	1554.2	1668.8	1508.3	1393.6	1352.9
77.5°	2020.4	1144.0	840.8	749.1	840.8	1003.8	1299.4	1462.4	1342.7	1166.9	1151.6
80°	1085.4	840.8	647.1	601.3	665.0	787.3	1021.7	1220.4	1154.1	1047.1	935.0
82.5°	715.9	545.2	479.0	466.2	507.0	601.3	759.2	1011.5	1011.5	896.8	652.2
85°	369.4	333.8	328.7	328.7	354.1	400.0	517.2	779.6	830.6	473.9	392.4
87.5°	183.4	191.1	178.3	186.0	198.7	196.2	247.1	392.4	468.8	287.9	239.5
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)