

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: P191784

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40066 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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

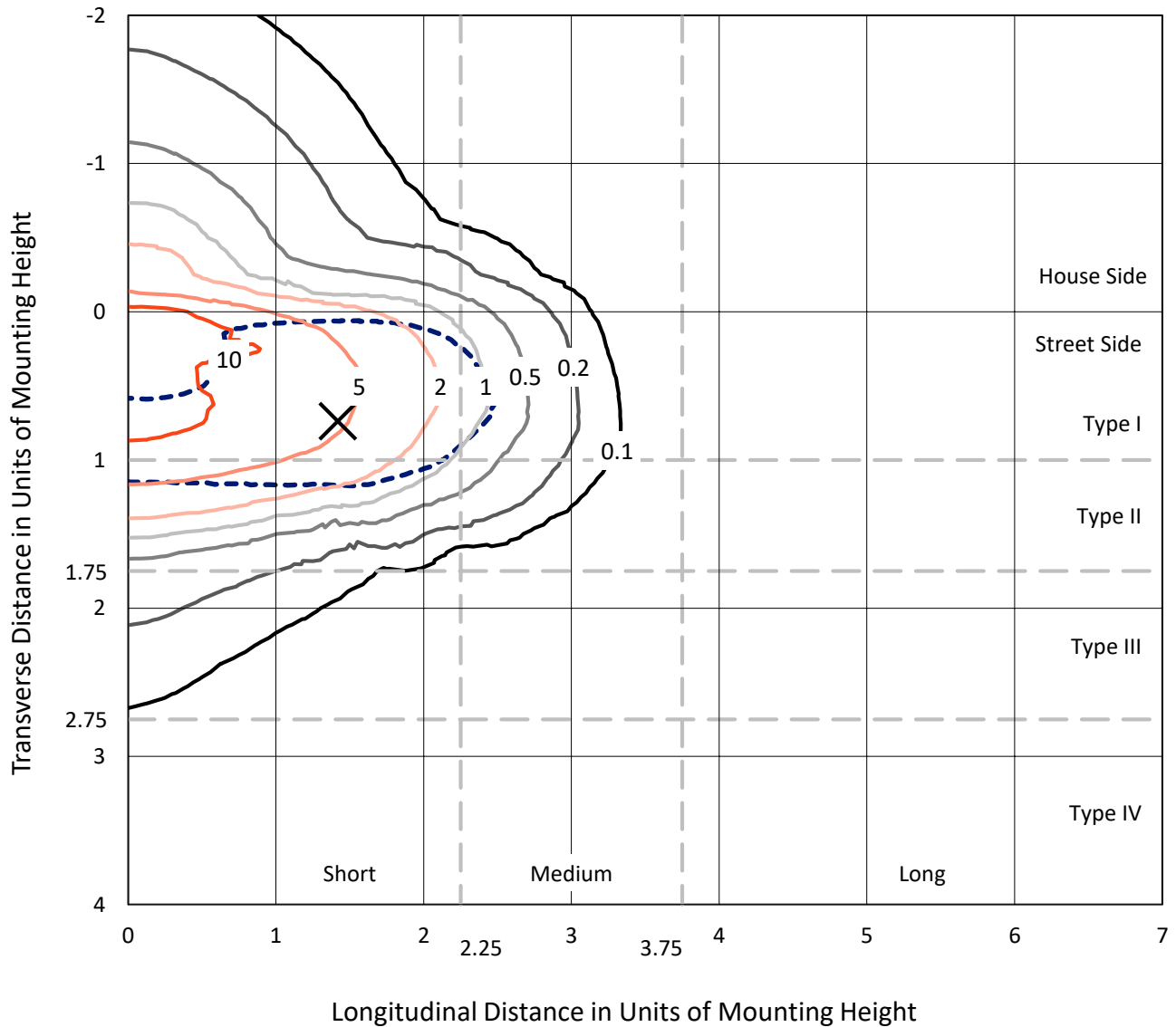


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

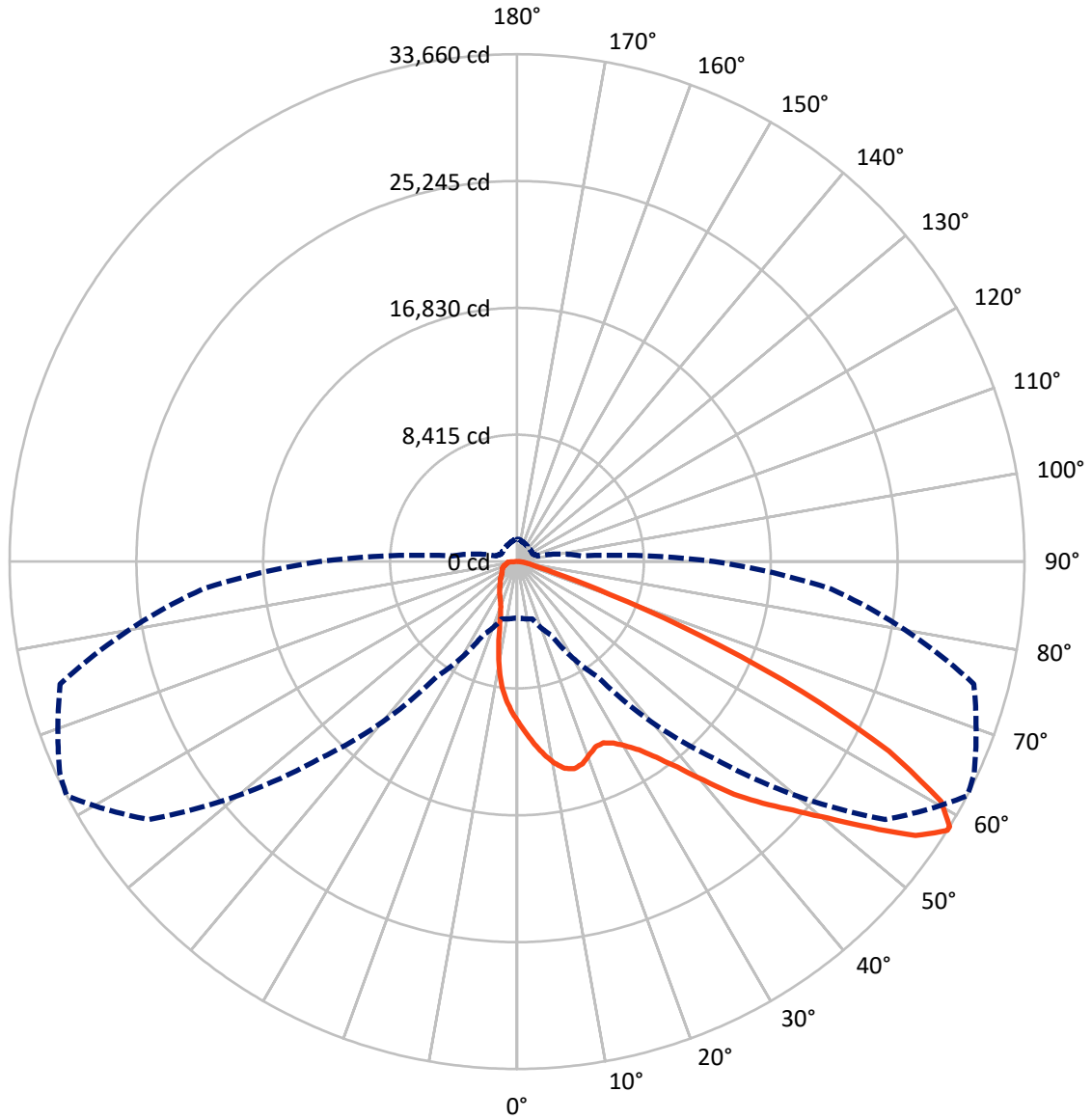


Based on 30 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6110.2	0.0	6110.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	33955.8	0.0	33955.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	40066.0	0.0	40066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.8	2.4
10°-20°	2433.0	6.1
20°-30°	3933.1	9.8
30°-40°	6243.7	15.6
40°-50°	9135.9	22.8
50°-60°	9555.4	23.8
60°-70°	5645.3	14.1
70°-80°	1590.3	4.0
80°-90°	577.4	1.4
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°	40066.0	100.0
0°-180°	40066.0	100.0

Coefficient of Utilization



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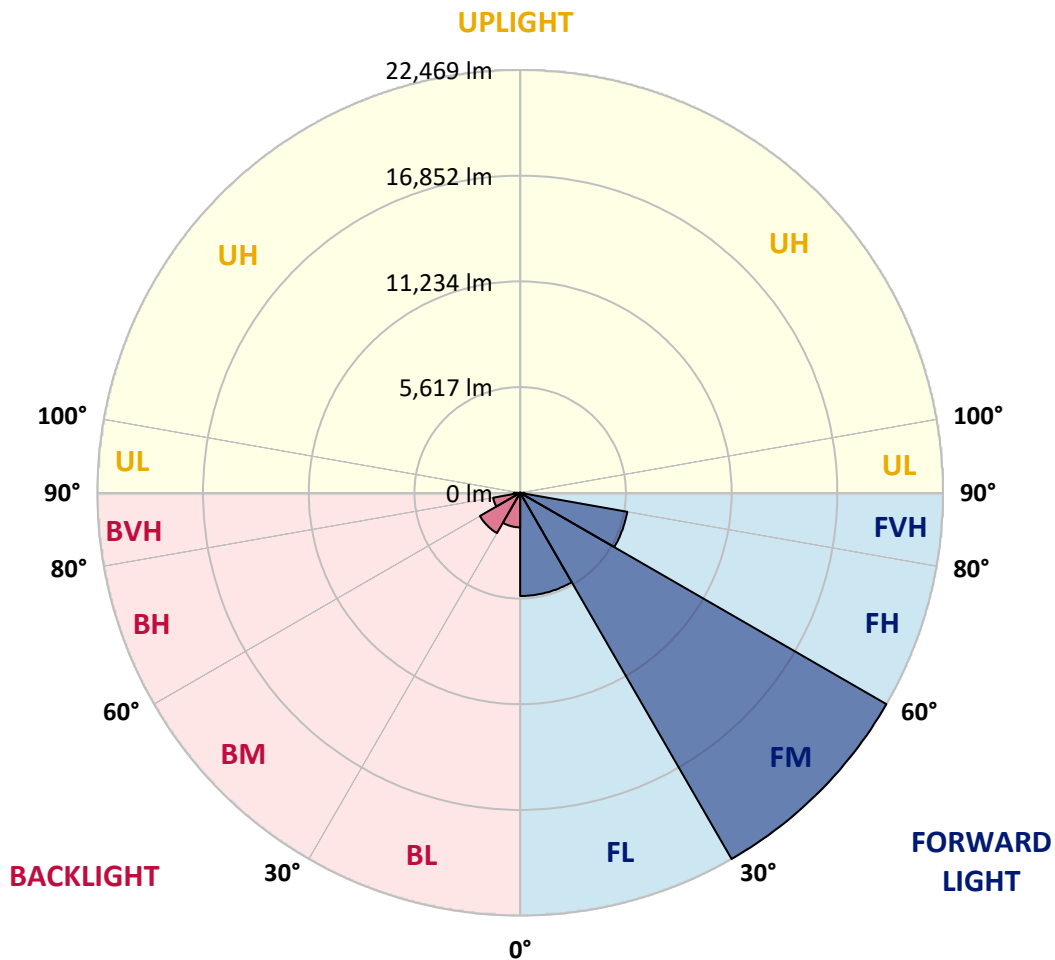
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5481.5	13.7			
FM (30°-60°)	22468.8	56.1			
FH (60°-80°)	5777.7	14.4			G3/7500
FVH (80°-90°)	227.8	0.6			G3/500
BL (0°-30°)	1836.4	4.6	B3/2500		
BM (30°-60°)	2466.2	6.2	B2/2500		
BH (60°-80°)	1458.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	349.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7
2.5°	12161.5	12063.4	12001.1	11946.4	11874.7	11721.9	11516.2	11386.1	11320.0	11095.5	10829.5
5°	13353.9	13267.1	13202.9	13129.4	13001.1	12761.4	12429.4	12165.3	12035.1	11586.1	11054.0
7.5°	13074.6	13110.5	13221.8	13416.1	13582.2	13550.1	13253.9	12918.0	12746.4	12121.9	11314.4
10°	11391.7	11454.0	11646.4	12101.1	12836.9	13591.6	13821.8	13589.7	13416.1	12652.0	11582.3
12.5°	11054.0	11052.1	11067.2	11188.0	11625.7	12687.9	13840.6	14074.6	13970.8	13157.7	11855.8
15°	11191.7	11195.5	11184.2	11235.1	11371.0	11791.7	13263.3	14261.4	14334.9	13667.1	12138.8
17.5°	11554.0	11544.5	11501.2	11501.2	11550.2	11714.3	12584.1	14087.8	14427.4	14118.0	12387.9
20°	12161.5	12118.1	12003.0	11897.4	11844.5	11933.2	12304.9	13687.8	14267.0	14512.3	12593.5
22.5°	12897.3	12863.3	12676.5	12450.1	12267.1	12265.3	12448.3	13338.8	13989.7	14884.0	12767.1
25°	13848.2	13793.5	13516.1	13153.9	12833.1	12710.5	12761.4	13321.8	13838.7	15287.7	12921.8
27.5°	14965.1	14865.1	14536.8	14014.2	13542.5	13295.4	13221.8	13629.3	13976.5	15787.7	13136.9
30°	16319.7	16204.6	15783.9	15102.8	14436.8	14031.2	13874.6	14174.6	14433.0	16397.1	13482.2
32.5°	17861.1	17695.1	17208.3	16457.4	15582.0	14963.2	14708.5	14895.3	15100.9	17131.0	13914.2
35°	19991.2	19793.1	19089.3	18053.6	17064.9	16214.1	15806.5	15942.4	16142.4	18225.3	14538.7
37.5°	21443.9	21355.2	20887.3	19913.8	18838.4	17859.2	17229.1	17308.3	17421.5	19593.1	15338.6
40°	21430.7	21466.6	21476.0	21485.4	20753.4	19815.7	19138.4	19055.4	19032.7	21094.9	16248.0
42.5°	20357.2	20504.4	20979.8	21943.9	22389.1	21959.0	21338.3	21098.7	20979.8	22864.6	17212.1
45°	18713.9	18793.1	19683.6	21566.5	23226.8	24081.5	23611.7	22857.0	22642.0	24490.9	18012.1
47.5°	17866.8	17953.6	18513.9	20566.6	23217.4	25796.5	26068.1	24630.5	24245.6	25905.9	18702.6
50°	15849.9	16031.1	16736.7	18827.1	22370.3	26585.1	28635.9	26743.6	25947.4	27283.2	19395.0
52.5°	12146.4	12425.6	13216.1	15966.9	20221.4	26194.6	30690.5	29305.7	28181.2	28709.5	19989.3
55°	7661.8	7869.3	8533.4	11276.6	16176.3	24162.6	31469.7	32077.2	31077.3	30060.3	20504.4
57.5°	4165.8	4258.2	4507.3	6226.0	10522.0	19670.4	30333.9	33654.5	33239.4	31207.4	20893.0
58°	3728.1	3790.3	3945.0	5395.9	9331.5	18442.2	29830.2	33660.1	33452.6	31375.4	20923.2
60°	2765.9	2733.8	2596.1	3079.0	5194.0	12740.7	26785.1	32313.0	32922.4	31581.0	20776.0
62.5°	2430.0	2352.7	2071.6	2039.5	2526.3	5869.4	20494.9	27679.4	29118.9	30407.5	19881.7
65°	2282.9	2199.9	1837.6	1720.6	1822.5	2482.9	12072.8	20759.1	22564.6	26849.2	17595.1
67.5°	2173.4	2065.9	1688.6	1528.2	1535.8	1641.4	4839.3	13074.6	15106.6	20385.5	13685.9
70°	2067.8	1950.8	1562.2	1377.3	1333.9	1298.0	1924.4	6544.9	8388.1	12876.5	8725.9
72.5°	1954.6	1839.5	1450.9	1258.4	1173.5	1054.6	1256.5	2677.2	3739.4	6092.1	3958.2
75°	1790.5	1686.7	1339.5	1152.8	1032.0	873.5	949.0	1398.0	1677.3	2426.3	1907.4
77.5°	1588.6	1503.7	1215.0	1066.0	915.0	709.4	730.1	969.7	1075.4	1388.6	1133.9
80°	1141.4	1171.6	1081.1	958.4	815.0	575.4	560.3	707.5	764.1	892.4	737.7
82.5°	801.8	818.8	894.3	783.0	673.5	452.8	413.2	498.1	532.0	586.8	398.1
85°	552.8	533.9	613.2	545.2	486.8	301.9	283.0	337.7	358.5	364.1	205.6
87.5°	332.1	332.1	354.7	292.4	262.2	156.6	152.8	192.4	205.6	196.2	113.2
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°	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7	10642.7
2.5°	10671.0	10537.1	10252.2	10023.9	9735.2	9435.2	9267.3	9088.1	8965.5	8876.8	9018.3
5°	10752.1	10478.6	9889.9	9331.5	8714.5	8073.1	7586.3	7133.5	6818.4	6622.2	6807.1
7.5°	10880.4	10459.7	9522.0	8567.4	7459.9	6392.0	5437.4	4839.3	4490.3	4318.6	4426.1
10°	11027.6	10429.5	9090.0	7531.6	5946.8	4601.6	3888.4	3646.9	3567.7	3535.6	3550.7
12.5°	11150.2	10365.4	8559.8	6278.8	4465.8	3633.7	3428.1	3422.4	3439.4	3443.2	3448.8
15°	11237.0	10271.0	7773.1	4973.3	3571.5	3311.1	3299.8	3333.7	3365.8	3379.0	3386.6
17.5°	11295.5	10076.7	6884.5	3931.8	3199.8	3154.5	3180.9	3224.3	3258.3	3267.7	3275.3
20°	11289.8	9791.8	5826.0	3279.0	2997.9	2997.9	3043.2	3077.2	3079.0	3067.7	3073.4
22.5°	11231.4	9401.3	4799.7	2931.9	2818.7	2850.8	2896.0	2864.0	2731.9	2645.1	2650.8
25°	11133.3	8935.3	3920.5	2711.1	2652.7	2709.3	2696.1	2454.6	2265.9	2181.0	2181.0
27.5°	11046.5	8384.4	3245.1	2518.7	2486.6	2556.4	2322.5	2103.6	2024.4	1984.8	1971.6
30°	10984.2	7790.1	2794.2	2333.8	2330.0	2279.1	2015.0	1954.6	1941.4	1909.3	1898.0
32.5°	10999.3	7188.2	2505.5	2171.6	2184.8	1950.8	1867.8	1881.0	1869.7	1835.7	1820.6
35°	11123.8	6616.6	2316.8	2024.4	1984.8	1762.2	1781.0	1805.5	1801.8	1754.6	1739.5
37.5°	11346.4	6075.1	2192.3	1901.8	1732.0	1667.8	1698.0	1735.7	1726.3	1694.2	1682.9
40°	11580.4	5565.7	2090.4	1805.5	1582.9	1603.7	1630.1	1650.8	1660.3	1669.7	1662.2
42.5°	11808.7	5033.6	1965.9	1707.4	1520.7	1543.3	1554.6	1575.4	1626.3	1662.2	1660.3
45°	11944.5	4533.7	1837.6	1567.8	1471.6	1484.8	1477.3	1518.8	1581.0	1639.5	1641.4
47.5°	12095.5	4145.0	1735.7	1439.5	1424.4	1433.9	1411.2	1452.7	1509.3	1581.0	1588.6
50°	12278.5	3913.0	1654.6	1337.7	1360.3	1360.3	1354.6	1392.4	1471.6	1554.6	1569.7
52.5°	12486.0	3867.7	1586.7	1264.1	1296.1	1294.3	1299.9	1356.5	1443.3	1524.4	1537.6
55°	12738.8	3990.3	1513.1	1209.4	1233.9	1241.4	1260.3	1324.4	1398.0	1490.5	1496.1
57.5°	13033.1	4239.4	1454.6	1166.0	1177.3	1201.8	1232.0	1290.5	1369.7	1471.6	1477.3
58°	13082.2	4292.2	1445.2	1162.2	1166.0	1194.3	1228.2	1284.8	1364.1	1475.4	1481.0
60°	13084.1	4467.6	1424.4	1145.2	1122.6	1169.7	1207.5	1264.1	1354.6	1488.6	1501.8
62.5°	12619.9	4465.8	1409.3	1120.7	1077.3	1135.8	1179.2	1245.2	1345.2	1520.7	1547.1
65°	11112.5	4058.2	1337.7	1082.9	1041.4	1105.6	1154.6	1232.0	1371.6	1660.3	1677.3
67.5°	8691.9	3326.2	1203.7	1030.1	994.3	1075.4	1139.5	1230.1	1399.9	1692.3	1703.7
70°	5746.8	2488.5	1056.5	969.7	945.2	1039.6	1147.1	1294.3	1367.8	1624.4	1594.2
72.5°	2982.8	1747.1	937.7	894.3	888.6	1007.5	1256.5	1286.7	1335.8	1528.2	1490.5
75°	1565.9	1213.1	833.9	811.3	820.7	999.9	1482.9	1252.8	1294.3	1462.2	1533.9
77.5°	958.4	979.2	745.2	735.8	754.7	977.3	1481.0	1209.4	1233.9	1345.2	1424.4
80°	641.5	794.3	677.3	679.2	692.4	894.3	1330.1	1141.4	1160.3	1271.6	1352.7
82.5°	405.6	469.8	615.1	647.1	630.1	737.7	1130.1	1039.6	1066.0	1454.6	1537.6
85°	205.6	294.3	533.9	622.6	567.9	516.9	916.9	911.3	924.5	1049.0	1096.2
87.5°	94.3	162.3	417.0	543.4	428.3	322.6	666.0	675.4	728.3	745.2	745.2
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)