

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: P193508

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193508
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-10-LED-E1-AFL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39849 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 419
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

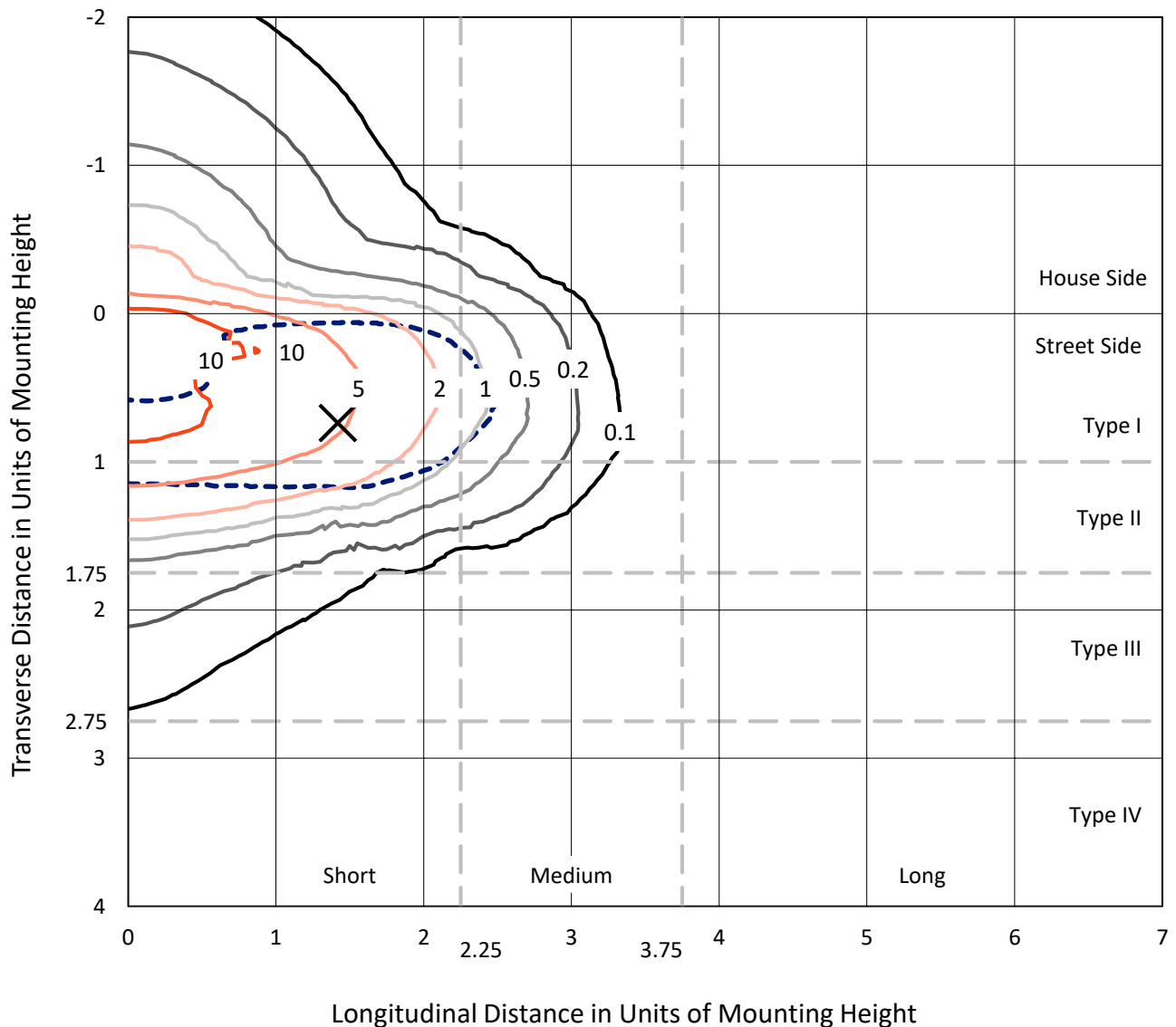


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Iso-Footcandle Lines of Horizontal Illumination

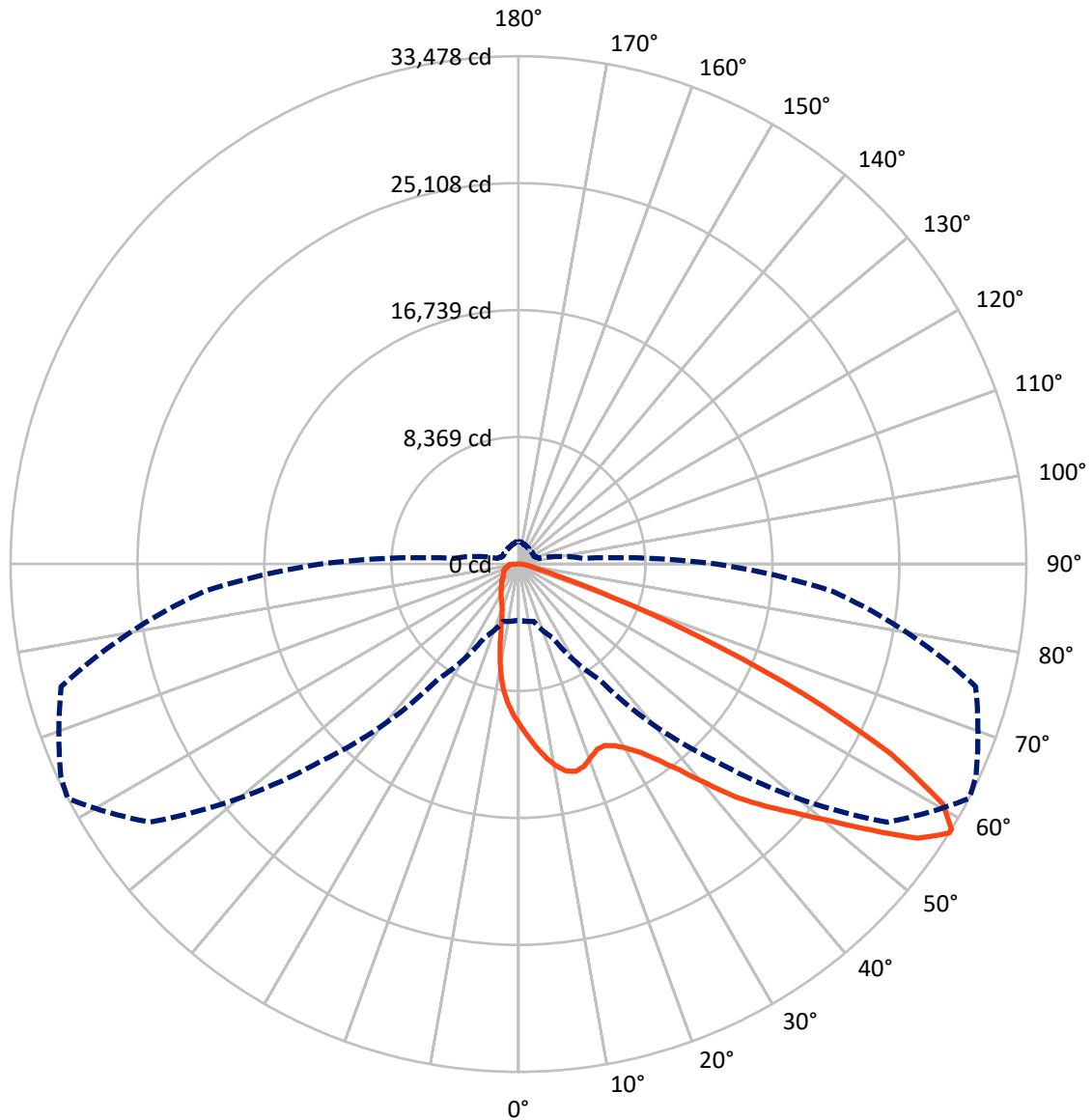
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.3 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	6077.1	0.0	6077.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	33771.9	0.0	33771.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	39849.0	0.0	39849.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.7	2.4
10°-20°	2419.9	6.1
20°-30°	3911.8	9.8
30°-40°	6209.9	15.6
40°-50°	9086.4	22.8
50°-60°	9503.6	23.8
60°-70°	5614.7	14.1
70°-80°	1581.7	4.0
80°-90°	574.2	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°	39849.0	100.0
0°-180°	39849.0	100.0



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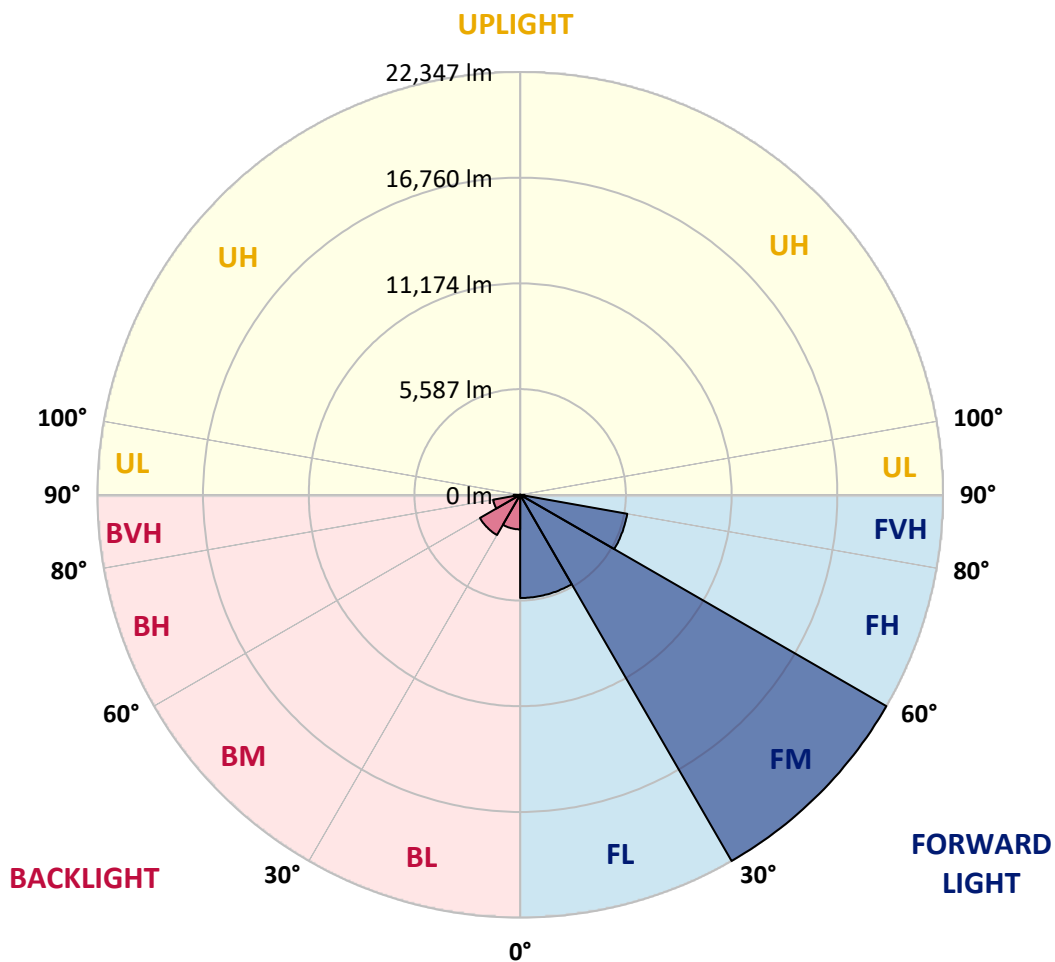
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5451.8	13.7			
FM (30°-60°)	22347.1	56.1			
FH (60°-80°)	5746.4	14.4			G3/7500
FVH (80°-90°)	226.5	0.6			G3/500
BL (0°-30°)	1826.5	4.6	B3/2500		
BM (30°-60°)	2452.9	6.2	B2/2500		
BH (60°-80°)	1450.1	3.6	B3/2500		G3/2500
BVH (80°-90°)	347.7	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1
2.5°	12095.6	11998.0	11936.1	11881.7	11810.4	11658.4	11453.9	11324.4	11258.7	11035.4	10770.8
5°	13281.5	13195.2	13131.4	13058.2	12930.6	12692.3	12362.1	12099.4	11969.9	11523.3	10994.1
7.5°	13003.8	13039.5	13150.2	13343.5	13508.6	13476.7	13182.1	12848.1	12677.3	12056.2	11253.1
10°	11330.0	11392.0	11583.3	12035.6	12767.4	13518.0	13746.9	13516.1	13343.5	12583.5	11519.5
12.5°	10994.1	10992.3	11007.3	11127.4	11562.7	12619.2	13765.7	13998.3	13895.1	13086.4	11791.6
15°	11131.1	11134.9	11123.6	11174.3	11309.4	11727.8	13191.5	14184.1	14257.3	13593.0	12073.1
17.5°	11491.4	11482.0	11438.9	11438.9	11487.6	11650.9	12515.9	14011.5	14349.2	14041.5	12320.8
20°	12095.6	12052.5	11938.0	11832.9	11780.4	11868.6	12238.2	13613.7	14189.7	14433.7	12525.3
22.5°	12827.4	12793.7	12607.9	12382.7	12200.7	12198.8	12380.8	13266.5	13913.9	14803.3	12698.0
25°	13773.2	13718.8	13442.9	13082.6	12763.6	12641.7	12692.3	13249.6	13763.8	15204.9	12851.8
27.5°	14884.0	14784.6	14458.1	13938.3	13469.2	13223.4	13150.2	13555.5	13900.8	15702.2	13065.7
30°	16231.3	16116.9	15698.4	15021.0	14358.6	13955.2	13799.4	14097.8	14354.9	16308.3	13409.1
32.5°	17764.4	17599.3	17115.1	16368.3	15497.6	14882.2	14628.8	14814.6	15019.1	17038.2	13838.8
35°	19882.9	19685.9	18986.0	17955.8	16972.5	16126.2	15720.9	15856.0	16054.9	18126.5	14460.0
37.5°	21327.8	21239.6	20774.2	19806.0	18736.4	17762.5	17135.8	17214.6	17327.2	19487.0	15255.6
40°	21314.6	21350.3	21359.7	21369.1	20641.0	19708.4	19034.7	18952.2	18929.7	20980.6	16160.0
42.5°	20246.9	20393.3	20866.2	21825.0	22267.9	21840.0	21222.7	20984.4	20866.2	22740.7	17118.9
45°	18612.5	18691.4	19577.0	21449.7	23101.0	23951.1	23483.8	22733.2	22519.3	24358.2	17914.5
47.5°	17770.0	17856.3	18413.6	20455.2	23091.6	25656.8	25927.0	24497.1	24114.3	25765.6	18601.3
50°	15764.1	15944.2	16646.0	18725.1	22249.1	26441.1	28480.8	26598.7	25806.9	27135.4	19289.9
52.5°	12080.6	12358.3	13144.6	15880.4	20111.8	26052.7	30524.3	29147.0	28028.6	28554.0	19881.0
55°	7620.3	7826.7	8487.2	11215.6	16088.7	24031.7	31299.2	31903.5	30908.9	29897.5	20393.3
57.5°	4143.2	4235.2	4482.8	6192.3	10465.0	19563.9	30169.6	33472.2	33059.4	31038.4	20779.8
58°	3707.9	3769.8	3923.7	5366.7	9280.9	18342.3	29668.6	33477.8	33271.4	31205.4	20809.9
60°	2750.9	2719.0	2582.0	3062.4	5165.9	12671.7	26640.0	32138.0	32744.1	31410.0	20663.5
62.5°	2416.9	2339.9	2060.3	2028.4	2512.6	5837.6	20383.9	27529.5	28961.2	30242.8	19774.1
65°	2270.5	2187.9	1827.7	1711.3	1812.7	2469.4	12007.4	20646.6	22442.4	26703.8	17499.8
67.5°	2161.7	2054.7	1679.4	1519.9	1527.4	1632.5	4813.1	13003.8	15024.8	20275.1	13611.8
70°	2056.6	1940.3	1553.7	1369.8	1326.7	1291.0	1914.0	6509.4	8342.7	12806.8	8678.6
72.5°	1944.0	1829.5	1443.0	1251.6	1167.2	1048.9	1249.7	2662.7	3719.1	6059.1	3936.8
75°	1780.8	1677.5	1332.3	1146.5	1026.4	868.8	943.9	1390.5	1668.2	2413.1	1897.1
77.5°	1580.0	1495.5	1208.4	1060.2	910.1	705.5	726.2	964.5	1069.6	1381.1	1127.7
80°	1135.3	1165.3	1075.2	953.2	810.6	572.3	557.3	703.7	760.0	887.6	733.7
82.5°	797.5	814.4	889.4	778.7	669.9	450.3	410.9	495.4	529.2	583.6	395.9
85°	549.8	531.0	609.8	542.3	484.1	300.2	281.5	335.9	356.5	362.2	204.5
87.5°	330.3	330.3	352.8	290.9	260.8	155.7	152.0	191.4	204.5	195.2	112.6
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°	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1	10585.1
2.5°	10613.2	10480.0	10196.6	9969.6	9682.5	9384.1	9217.1	9038.9	8916.9	8828.7	8969.4
5°	10693.9	10421.8	9836.4	9280.9	8667.3	8029.3	7545.2	7094.9	6781.5	6586.4	6770.2
7.5°	10821.5	10403.1	9470.5	8521.0	7419.5	6357.4	5407.9	4813.1	4466.0	4295.2	4402.2
10°	10967.9	10373.0	9040.8	7490.8	5914.6	4576.7	3867.4	3627.2	3548.4	3516.5	3531.5
12.5°	11089.8	10309.2	8513.5	6244.8	4441.6	3614.0	3409.5	3403.9	3420.8	3424.5	3430.2
15°	11176.2	10215.4	7731.0	4946.3	3552.1	3293.2	3281.9	3315.7	3347.6	3360.7	3368.2
17.5°	11234.3	10022.1	6847.2	3910.5	3182.5	3137.4	3163.7	3206.9	3240.6	3250.0	3257.5
20°	11228.7	9738.8	5794.5	3261.3	2981.7	2981.7	3026.7	3060.5	3062.4	3051.1	3056.7
22.5°	11170.5	9350.4	4773.7	2916.0	2803.4	2835.3	2880.4	2848.5	2717.1	2630.8	2636.4
25°	11073.0	8886.9	3899.3	2696.5	2638.3	2694.6	2681.5	2441.3	2253.6	2169.2	2169.2
27.5°	10986.6	8339.0	3227.5	2505.1	2473.2	2542.6	2309.9	2092.2	2013.4	1974.0	1960.9
30°	10924.7	7747.9	2779.0	2321.2	2317.4	2266.8	2004.1	1944.0	1930.9	1899.0	1887.7
32.5°	10939.7	7149.3	2491.9	2159.8	2172.9	1940.3	1857.7	1870.8	1859.6	1825.8	1810.8
35°	11063.6	6580.7	2304.3	2013.4	1974.0	1752.6	1771.4	1795.8	1792.0	1745.1	1730.1
37.5°	11285.0	6042.2	2180.4	1891.5	1722.6	1658.8	1688.8	1726.3	1717.0	1685.1	1673.8
40°	11517.7	5535.5	2079.1	1795.8	1574.3	1595.0	1621.3	1641.9	1651.3	1660.7	1653.2
42.5°	11744.7	5006.4	1955.3	1698.2	1512.4	1534.9	1546.2	1566.8	1617.5	1653.2	1651.3
45°	11879.8	4509.1	1827.7	1559.3	1463.6	1476.8	1469.3	1510.5	1572.5	1630.6	1632.5
47.5°	12029.9	4122.6	1726.3	1431.7	1416.7	1426.1	1403.6	1444.9	1501.2	1572.5	1580.0
50°	12212.0	3891.8	1645.6	1330.4	1352.9	1352.9	1347.3	1384.8	1463.6	1546.2	1561.2
52.5°	12418.4	3846.7	1578.1	1257.2	1289.1	1287.2	1292.9	1349.2	1435.5	1516.2	1529.3
55°	12669.8	3968.7	1504.9	1202.8	1227.2	1234.7	1253.5	1317.3	1390.5	1482.4	1488.0
57.5°	12962.5	4216.4	1446.7	1159.6	1170.9	1195.3	1225.3	1283.5	1362.3	1463.6	1469.3
58°	13011.3	4268.9	1437.4	1155.9	1159.6	1187.8	1221.6	1277.9	1356.7	1467.4	1473.0
60°	13013.2	4443.4	1416.7	1139.0	1116.5	1163.4	1200.9	1257.2	1347.3	1480.5	1493.7
62.5°	12551.6	4441.6	1401.7	1114.6	1071.5	1129.6	1172.8	1238.5	1337.9	1512.4	1538.7
65°	11052.3	4036.3	1330.4	1077.1	1035.8	1099.6	1148.4	1225.3	1364.2	1651.3	1668.2
67.5°	8644.8	3308.2	1197.2	1024.5	988.9	1069.6	1133.4	1223.4	1392.3	1683.2	1694.4
70°	5715.7	2475.0	1050.8	964.5	940.1	1033.9	1140.9	1287.2	1360.4	1615.6	1585.6
72.5°	2966.7	1737.6	932.6	889.4	883.8	1002.0	1249.7	1279.7	1328.5	1519.9	1482.4
75°	1557.5	1206.6	829.4	806.9	816.3	994.5	1474.9	1246.0	1287.2	1454.3	1525.6
77.5°	953.2	973.9	741.2	731.8	750.6	972.0	1473.0	1202.8	1227.2	1337.9	1416.7
80°	638.0	790.0	673.6	675.5	688.7	889.4	1322.9	1135.3	1154.0	1264.7	1345.4
82.5°	403.4	467.2	611.7	643.6	626.7	733.7	1124.0	1033.9	1060.2	1446.7	1529.3
85°	204.5	292.7	531.0	619.2	564.8	514.1	912.0	906.3	919.5	1043.3	1090.2
87.5°	93.8	161.4	414.7	540.4	426.0	320.9	662.4	671.8	724.3	741.2	741.2
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)