

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: P190958

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190958
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40738 lumens
Efficiency: N/A
Efficacy: 126.1 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): 323
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

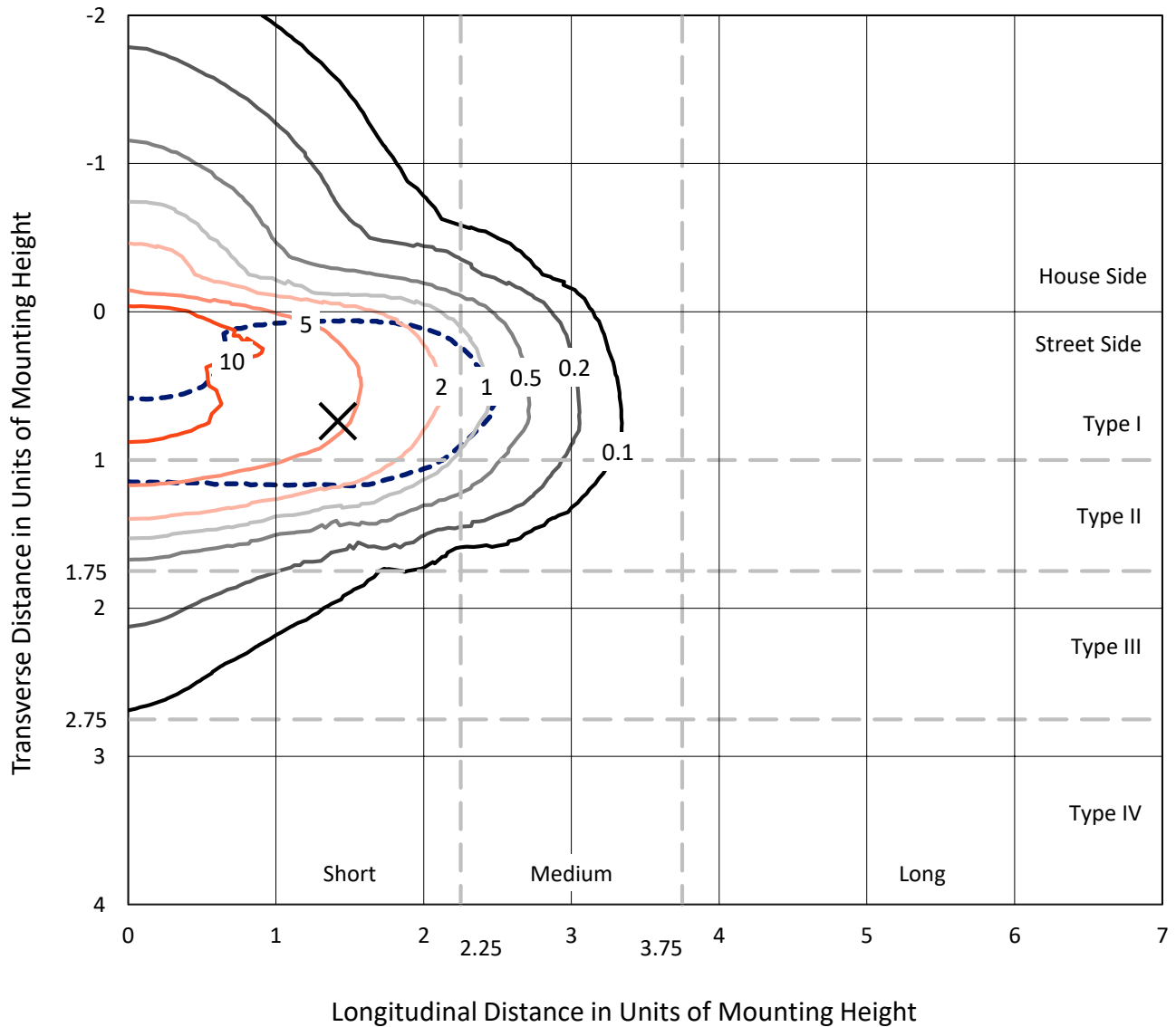


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

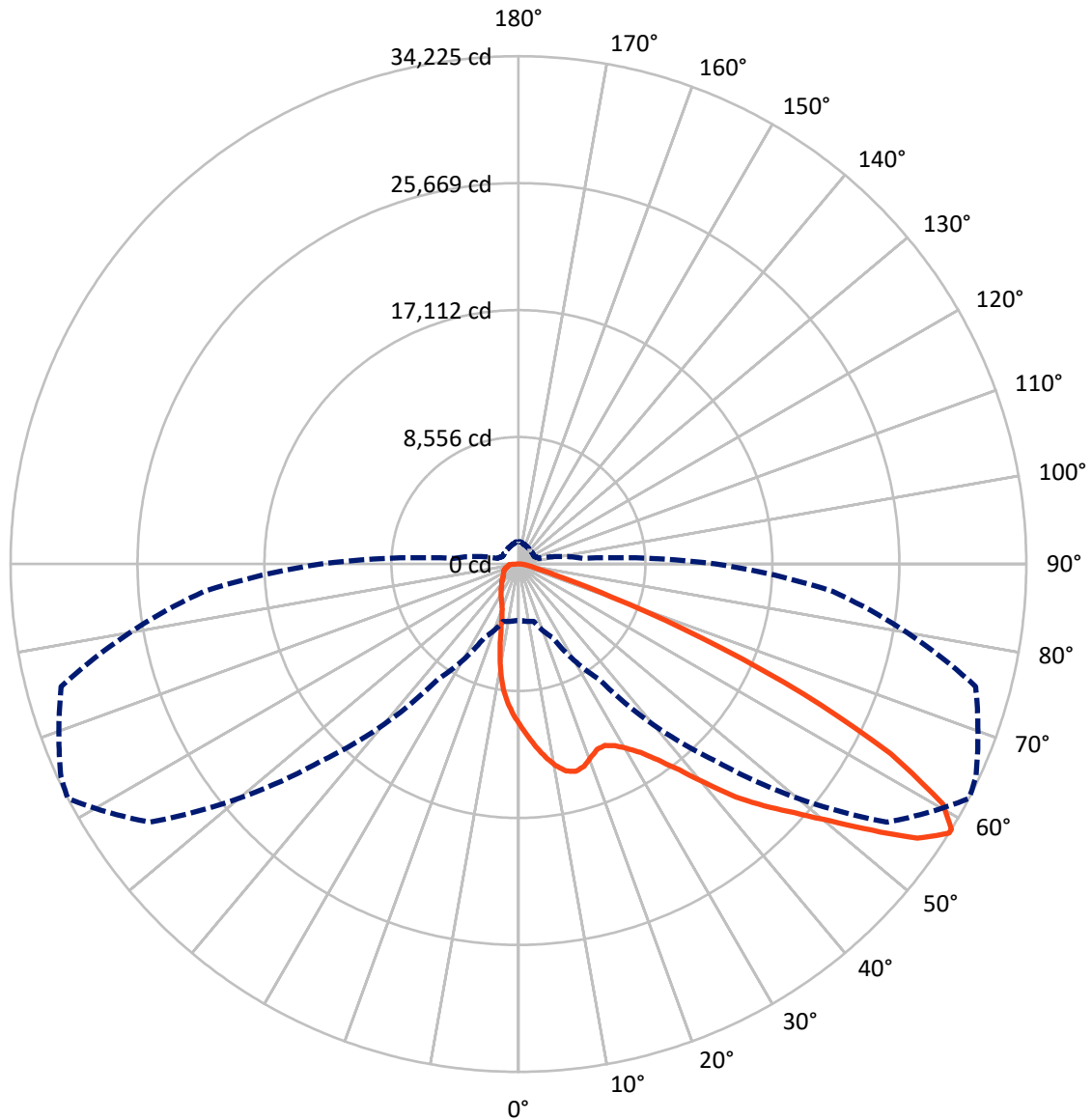


Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - Full Cutoff

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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	6212.7	0.0	6212.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	34525.3	0.0	34525.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	40738.0	0.0	40738.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.8	2.4
10°-20°	2473.8	6.1
20°-30°	3999.1	9.8
30°-40°	6348.5	15.6
40°-50°	9289.1	22.8
50°-60°	9715.6	23.8
60°-70°	5740.0	14.1
70°-80°	1617.0	4.0
80°-90°	587.1	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°	40738.0	100.0
0°-180°	40738.0	100.0



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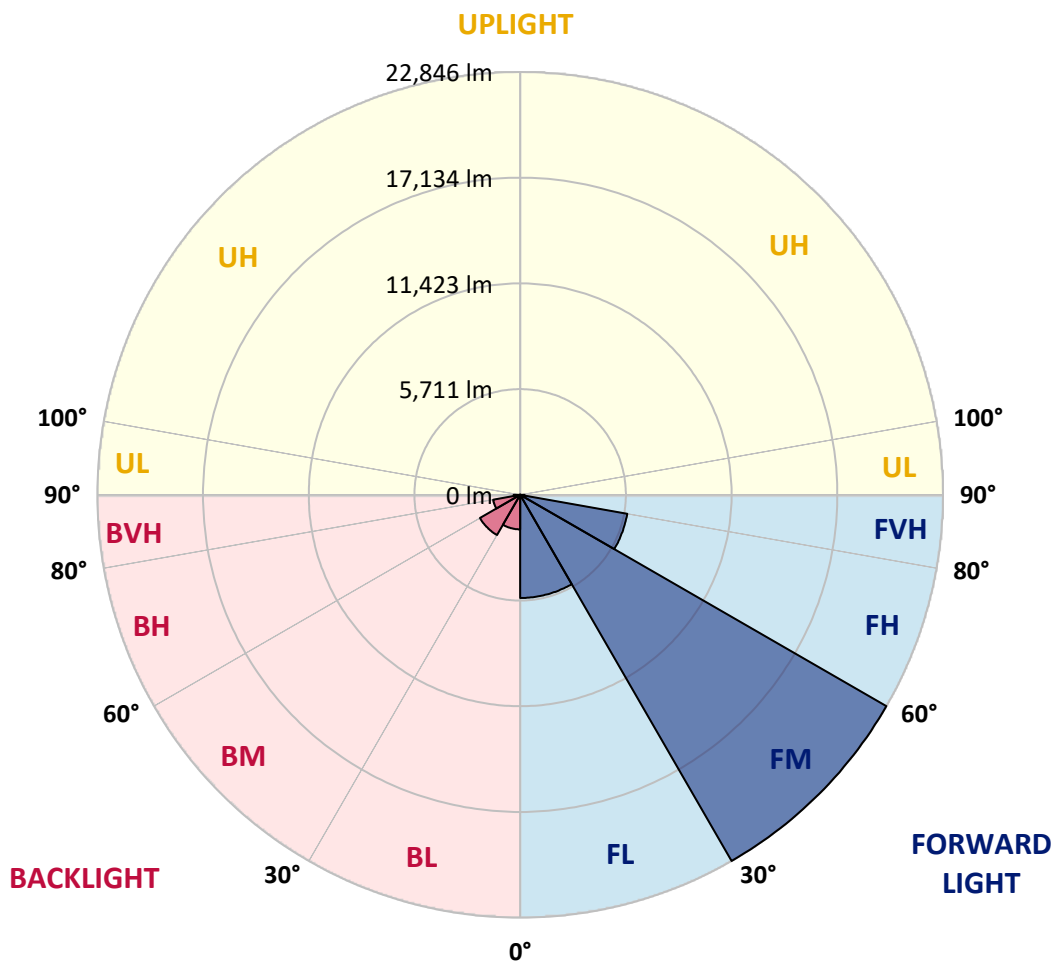
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5573.5	13.7			
FM	(30°-60°)	22845.6	56.1			
FH	(60°-80°)	5874.6	14.4			G3/7500
FVH	(80°-90°)	231.6	0.6			G3/500
BL	(0°-30°)	1867.2	4.6	B3/2500		
BM	(30°-60°)	2507.6	6.2	B3/5000		
BH	(60°-80°)	1482.4	3.6	B3/2500		G3/2500
BVH	(80°-90°)	355.5	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°	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2
2.5°	12365.4	12265.7	12202.4	12146.8	12073.9	11918.5	11709.4	11577.0	11509.9	11281.6	11011.1
5°	13577.8	13489.6	13424.4	13349.5	13219.1	12975.5	12637.8	12369.3	12236.9	11780.4	11239.4
7.5°	13294.0	13330.4	13443.5	13641.2	13809.9	13777.3	13476.1	13134.7	12960.2	12325.2	11504.1
10°	11582.8	11646.1	11841.8	12304.1	13052.2	13819.6	14053.6	13817.6	13641.2	12864.2	11776.5
12.5°	11239.4	11237.5	11252.9	11375.6	11820.7	12900.6	14072.7	14310.7	14205.1	13378.4	12054.7
15°	11379.4	11383.3	11371.7	11423.6	11561.7	11989.5	13485.8	14500.5	14575.4	13896.3	12342.4
17.5°	11747.8	11738.2	11694.1	11694.1	11743.9	11910.8	12795.2	14324.1	14669.3	14354.8	12595.7
20°	12365.4	12321.3	12204.3	12096.9	12043.2	12133.3	12511.3	13917.3	14506.3	14755.7	12804.8
22.5°	13113.6	13079.0	12889.2	12658.9	12472.8	12471.0	12657.1	13562.5	14224.3	15133.6	12981.2
25°	14080.4	14024.8	13742.8	13374.5	13048.4	12923.7	12975.5	13545.2	14070.9	15544.1	13138.6
27.5°	15216.1	15114.4	14780.6	14249.3	13769.6	13518.4	13443.5	13857.9	14210.8	16052.5	13357.3
30°	16593.4	16476.4	16048.7	15356.1	14678.9	14266.5	14107.3	14412.4	14675.2	16672.1	13708.3
32.5°	18160.7	17991.9	17497.0	16733.4	15843.4	15214.1	14955.2	15145.1	15354.2	17418.3	14147.6
35°	20326.4	20125.0	19409.5	18356.3	17351.2	16486.0	16071.7	16209.8	16413.1	18531.0	14782.6
37.5°	21803.6	21713.5	21237.7	20247.8	19154.3	18158.8	17518.0	17598.6	17713.7	19921.7	15595.9
40°	21790.2	21826.6	21836.2	21845.7	21101.4	20148.0	19459.4	19375.0	19352.0	21448.7	16520.6
42.5°	20698.6	20848.2	21331.7	22311.9	22764.6	22327.2	21696.2	21452.5	21331.7	23248.1	17500.7
45°	19027.8	19108.3	20013.8	21928.3	23616.4	24485.4	24007.7	23240.4	23021.7	24901.7	18314.2
47.5°	18166.5	18254.7	18824.4	20911.6	23606.8	26229.2	26505.4	25043.6	24652.3	26340.4	19016.2
50°	16115.8	16299.9	17017.4	19142.9	22745.5	27031.0	29116.1	27192.1	26382.6	27740.8	19720.2
52.5°	12350.1	12634.1	13437.8	16234.7	20560.5	26633.9	31205.2	29797.2	28653.9	29191.0	20324.6
55°	7790.3	8001.3	8676.6	11465.7	16447.6	24567.9	31997.5	32615.3	31598.5	30564.5	20848.2
57.5°	4235.6	4329.6	4582.8	6330.4	10698.4	20000.3	30842.7	34218.9	33796.9	31730.8	21243.4
58°	3790.5	3853.9	4011.2	5486.4	9488.0	18751.5	30330.5	34224.7	34013.6	31901.5	21274.1
60°	2812.3	2779.7	2639.6	3130.7	5281.1	12954.3	27234.3	32855.0	33474.6	32110.7	21124.4
62.5°	2470.8	2392.2	2106.4	2073.7	2568.6	5967.9	20838.6	28143.6	29607.3	30917.5	20215.2
65°	2321.2	2236.8	1868.4	1749.6	1853.1	2524.5	12275.3	21107.3	22943.0	27299.6	17890.2
67.5°	2209.9	2100.5	1716.9	1553.9	1561.5	1668.9	4920.5	13294.0	15359.9	20727.4	13915.5
70°	2102.5	1983.5	1588.3	1400.4	1356.2	1319.8	1956.7	6654.6	8528.9	13092.5	8872.3
72.5°	1987.4	1870.4	1475.2	1279.5	1193.2	1072.4	1277.6	2722.1	3802.1	6194.3	4024.6
75°	1820.4	1715.0	1362.0	1172.1	1049.3	888.2	964.9	1421.5	1705.4	2466.9	1939.4
77.5°	1615.2	1528.9	1235.4	1083.8	930.4	721.3	742.4	986.0	1093.4	1411.9	1152.9
80°	1160.5	1191.2	1099.2	974.5	828.7	585.1	569.8	719.3	776.9	907.4	750.0
82.5°	815.3	832.6	909.3	796.1	684.9	460.4	420.1	506.5	540.9	596.6	404.8
85°	562.1	542.9	623.5	554.4	494.9	306.9	287.8	343.4	364.5	370.2	209.1
87.5°	337.6	337.6	360.7	297.4	266.7	159.2	155.4	195.7	209.1	199.5	115.1
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°	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2	10821.2
2.5°	10850.0	10713.8	10424.2	10192.0	9898.5	9593.5	9422.8	9240.5	9115.8	9025.7	9169.5
5°	10932.5	10654.3	10055.8	9488.0	8860.7	8208.5	7713.6	7253.1	6932.7	6733.3	6921.3
7.5°	11062.9	10635.1	9681.7	8711.0	7585.0	6499.2	5528.5	4920.5	4565.6	4391.0	4500.4
10°	11212.6	10604.4	9242.5	7657.9	6046.6	4678.8	3953.6	3708.1	3627.5	3595.0	3610.3
12.5°	11337.3	10539.3	8703.4	6384.1	4540.7	3694.7	3485.6	3479.9	3497.1	3500.9	3506.7
15°	11425.4	10443.3	7903.4	5056.7	3631.4	3366.6	3355.2	3389.6	3422.3	3435.7	3443.4
17.5°	11485.0	10245.8	7000.0	3997.8	3253.5	3207.5	3234.3	3278.4	3312.9	3322.5	3330.2
20°	11479.2	9956.1	5923.8	3334.0	3048.2	3048.2	3094.2	3128.8	3130.7	3119.2	3124.9
22.5°	11419.7	9559.0	4880.2	2981.1	2866.0	2898.5	2944.6	2912.0	2777.7	2689.4	2695.3
25°	11320.0	9085.1	3986.2	2756.6	2697.1	2754.7	2741.3	2495.7	2303.9	2217.6	2217.6
27.5°	11231.7	8525.0	3299.5	2561.0	2528.3	2599.3	2361.5	2138.9	2058.4	2018.1	2004.7
30°	11168.5	7920.7	2841.0	2372.9	2369.2	2317.3	2048.8	1987.4	1974.0	1941.4	1929.8
32.5°	11183.8	7308.8	2547.6	2207.9	2221.4	1983.5	1899.1	1912.6	1901.1	1866.5	1851.1
35°	11310.4	6727.5	2355.7	2058.4	2018.1	1791.7	1810.9	1835.8	1832.0	1784.0	1768.7
37.5°	11536.7	6177.0	2229.1	1933.7	1761.0	1695.7	1726.4	1764.9	1755.3	1722.6	1711.1
40°	11774.6	5659.1	2125.5	1835.8	1609.5	1630.6	1657.4	1678.6	1688.1	1697.7	1690.0
42.5°	12006.8	5118.0	1998.8	1736.0	1546.2	1569.2	1580.7	1601.8	1653.6	1690.0	1688.1
45°	12144.9	4609.7	1868.4	1594.2	1496.3	1509.7	1502.0	1544.2	1607.6	1667.0	1668.9
47.5°	12298.3	4214.6	1764.9	1463.6	1448.3	1457.9	1434.9	1477.1	1534.6	1607.6	1615.2
50°	12484.4	3978.6	1682.3	1360.1	1383.1	1383.1	1377.3	1415.8	1496.3	1580.7	1596.0
52.5°	12695.4	3932.5	1613.3	1285.2	1317.9	1315.9	1321.8	1379.2	1467.5	1550.0	1563.5
55°	12952.5	4057.2	1538.5	1229.7	1254.5	1262.2	1281.5	1346.6	1421.5	1515.5	1521.2
57.5°	13251.7	4310.4	1479.0	1185.5	1197.1	1222.0	1252.7	1312.1	1392.7	1496.3	1502.0
58°	13301.6	4364.2	1469.5	1181.7	1185.5	1214.3	1248.8	1306.4	1386.9	1500.2	1505.9
60°	13303.5	4542.6	1448.3	1164.4	1141.4	1189.4	1227.7	1285.2	1377.3	1513.6	1527.0
62.5°	12831.6	4540.7	1432.9	1139.5	1095.4	1154.8	1198.9	1266.1	1367.8	1546.2	1573.0
65°	11298.9	4126.3	1360.1	1101.1	1059.0	1124.1	1174.0	1252.7	1394.6	1688.1	1705.4
67.5°	8837.7	3382.0	1223.9	1047.4	1011.0	1093.4	1158.7	1250.8	1423.4	1720.7	1732.3
70°	5843.2	2530.3	1074.3	986.0	961.1	1057.0	1166.4	1315.9	1390.8	1651.7	1621.0
72.5°	3032.8	1776.4	953.4	909.3	903.6	1024.4	1277.6	1308.3	1358.2	1553.9	1515.5
75°	1592.2	1233.5	847.9	824.9	834.4	1016.7	1507.8	1273.8	1315.9	1486.7	1559.6
77.5°	974.5	995.6	757.7	748.2	767.3	993.7	1505.9	1229.7	1254.5	1367.8	1448.3
80°	652.2	807.6	688.7	690.6	704.0	909.3	1352.4	1160.5	1179.8	1292.9	1375.5
82.5°	412.5	477.6	625.3	658.0	640.7	750.0	1149.1	1057.0	1083.8	1479.0	1563.5
85°	209.1	299.2	542.9	633.0	577.5	525.6	932.3	926.6	940.0	1066.6	1114.5
87.5°	96.0	165.0	423.9	552.5	435.5	328.1	677.2	686.7	740.5	757.7	757.7
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)