

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: P190966

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190966
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-08-LED-E1-AFL-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40449.5 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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

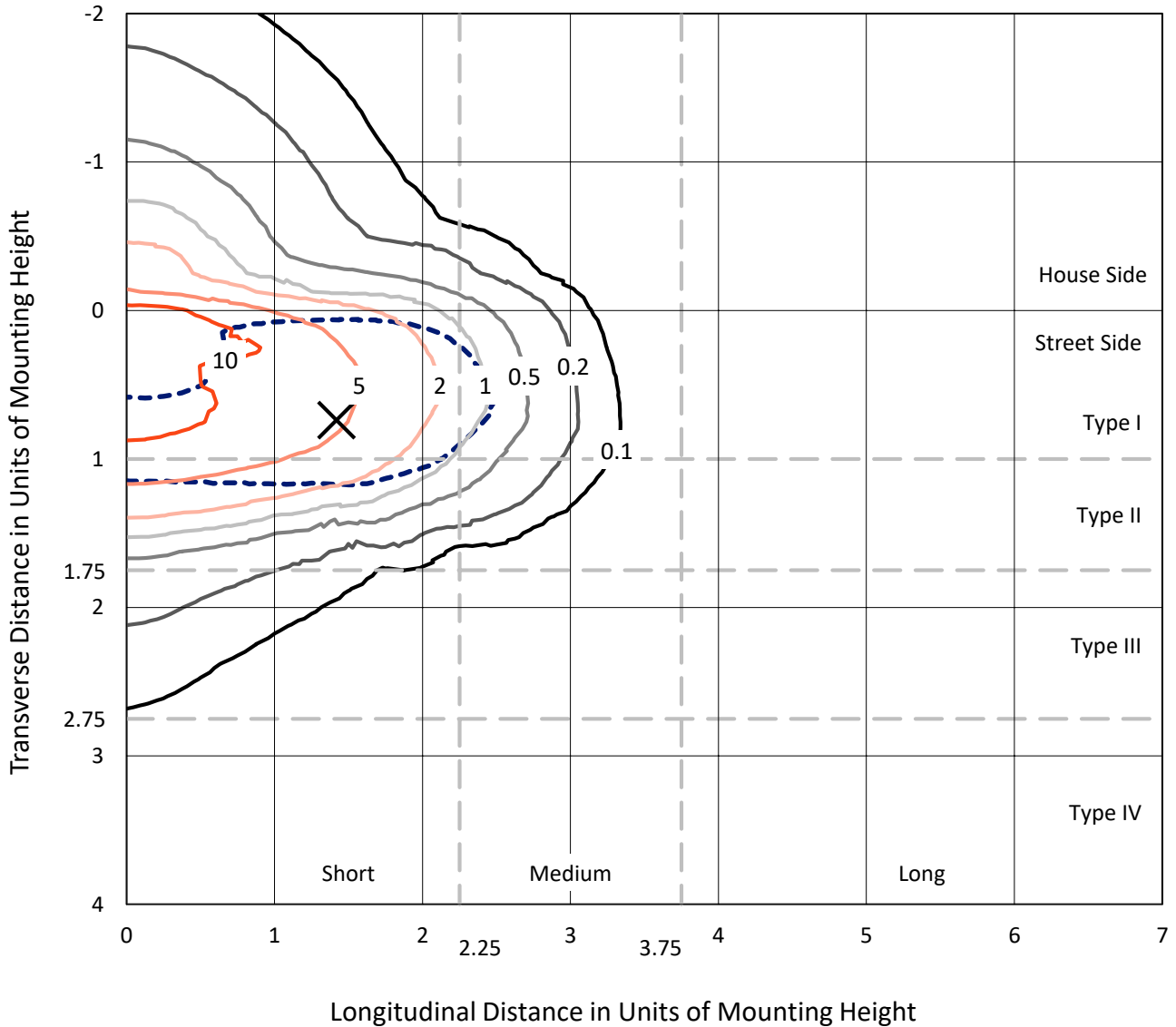


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

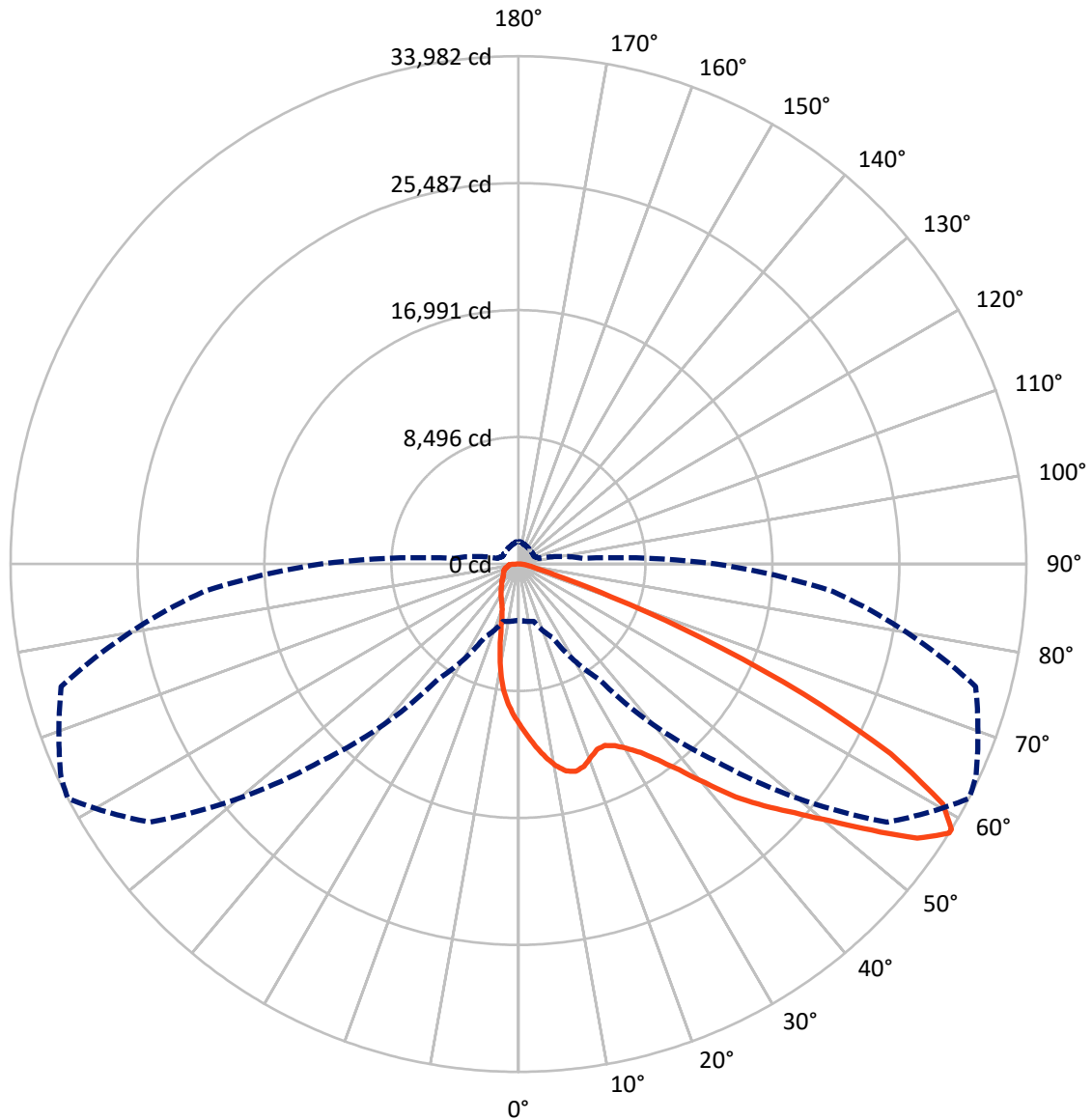


Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - Full Cutoff

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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	6168.7	0.0	6168.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	34280.8	0.0	34280.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	40449.5	0.0	40449.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	960.9	2.4
10°-20°	2456.3	6.1
20°-30°	3970.7	9.8
30°-40°	6303.5	15.6
40°-50°	9223.3	22.8
50°-60°	9646.8	23.8
60°-70°	5699.4	14.1
70°-80°	1605.5	4.0
80°-90°	582.9	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°	40449.5	100.0
0°-180°	40449.5	100.0

Coefficient of Utilization



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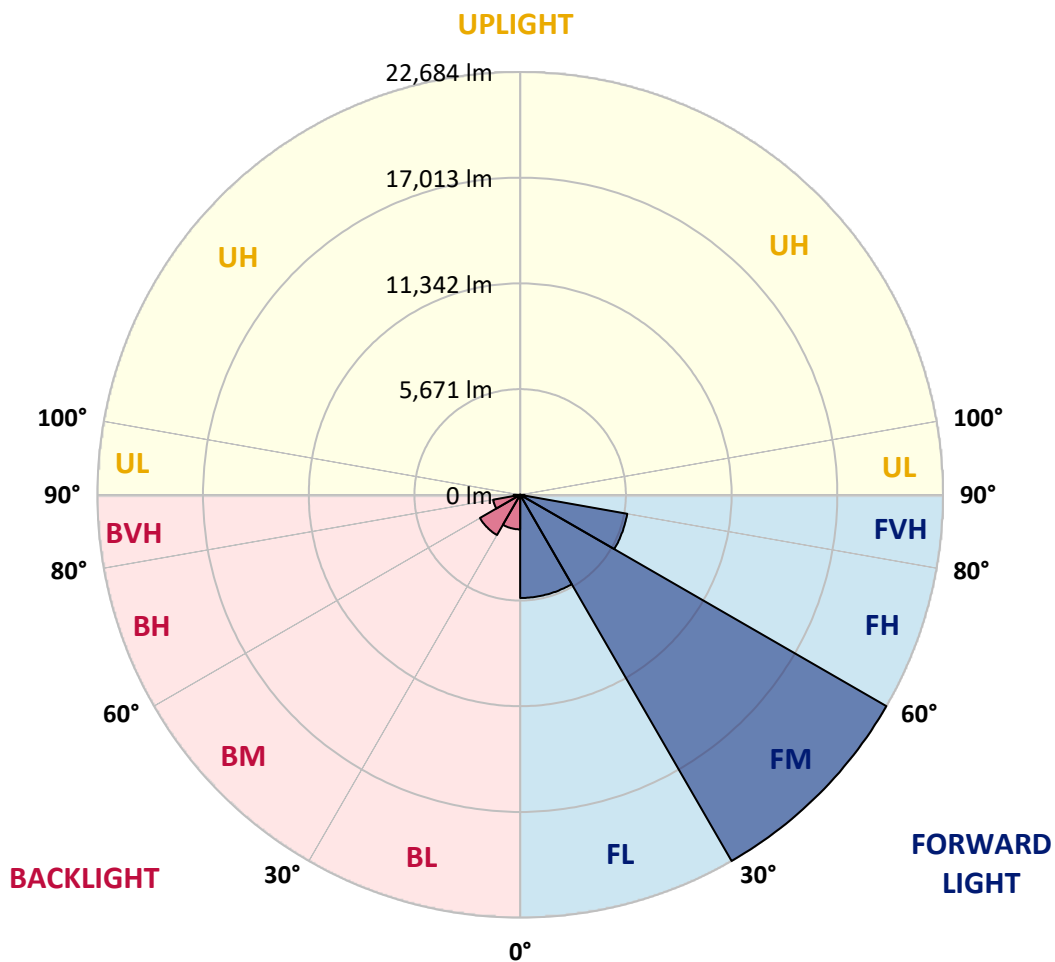
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5534.0	13.7			
FM	(30°-60°)	22683.9	56.1			
FH	(60°-80°)	5833.0	14.4			G3/7500
FVH	(80°-90°)	230.0	0.6			G3/500
BL	(0°-30°)	1854.0	4.6	B3/2500		
BM	(30°-60°)	2489.8	6.2	B2/2500		
BH	(60°-80°)	1471.9	3.6	B3/2500		G3/2500
BVH	(80°-90°)	352.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6
2.5°	12277.9	12178.8	12116.0	12060.8	11988.4	11834.1	11626.4	11495.1	11428.4	11201.7	10933.2
5°	13481.7	13394.1	13329.4	13255.0	13125.5	12883.7	12548.3	12281.8	12150.3	11696.9	11159.8
7.5°	13199.7	13236.0	13348.4	13544.6	13712.1	13679.8	13380.7	13041.7	12868.4	12237.9	11422.7
10°	11500.7	11563.6	11757.9	12217.0	12959.8	13721.7	13954.1	13719.8	13544.6	12773.2	11693.1
12.5°	11159.8	11157.9	11173.2	11295.0	11736.9	12809.3	13973.1	14209.3	14104.5	13283.6	11969.3
15°	11298.9	11302.7	11291.2	11342.7	11479.9	11904.6	13390.2	14397.8	14472.2	13797.9	12255.1
17.5°	11664.6	11655.1	11611.2	11611.2	11660.7	11826.4	12704.5	14222.6	14565.5	14253.1	12506.5
20°	12277.9	12234.1	12117.9	12011.3	11957.9	12047.4	12422.6	13818.8	14403.6	14651.2	12714.1
22.5°	13020.7	12986.5	12797.9	12569.3	12384.6	12382.6	12567.5	13466.4	14123.6	15026.4	12889.3
25°	13980.8	13925.5	13645.4	13279.7	12956.0	12832.2	12883.7	13449.3	13971.3	15434.1	13045.5
27.5°	15108.4	15007.4	14676.0	14148.3	13672.1	13422.6	13348.4	13759.8	14110.3	15938.8	13262.7
30°	16476.0	16359.7	15935.0	15247.4	14575.0	14165.5	14007.4	14310.3	14571.2	16554.0	13611.2
32.5°	18032.1	17864.5	17373.1	16615.0	15731.1	15106.4	14849.3	15037.9	15245.4	17294.9	14047.4
35°	20182.5	19982.5	19272.1	18226.4	17228.3	16369.3	15957.8	16095.0	16296.8	18399.7	14677.9
37.5°	21649.2	21559.6	21087.3	20104.5	19018.7	18030.2	17394.1	17474.0	17588.3	19780.6	15485.4
40°	21635.8	21672.0	21681.5	21691.1	20952.1	20005.4	19321.6	19237.8	19214.9	21296.8	16403.5
42.5°	20552.1	20700.6	21180.6	22153.9	22603.4	22169.2	21542.5	21300.6	21180.6	23083.4	17376.9
45°	18893.1	18973.1	19872.0	21773.0	23449.1	24312.0	23837.7	23075.8	22858.7	24725.3	18184.5
47.5°	18037.8	18125.5	18691.2	20763.4	23439.6	26043.4	26317.7	24866.3	24477.7	26153.9	18881.6
50°	16001.6	16184.5	16896.9	19007.3	22584.4	26839.6	28910.0	26999.6	26195.7	27544.3	19580.6
52.5°	12262.6	12544.5	13342.7	16119.8	20414.9	26445.3	30984.3	29586.2	28451.0	28984.3	20180.7
55°	7735.1	7944.6	8615.1	11384.6	16331.2	24393.9	31770.9	32384.3	31374.7	30348.1	20700.6
57.5°	4205.7	4299.0	4550.4	6285.6	10622.7	19858.7	30624.3	33976.6	33557.6	31506.2	21093.0
58°	3763.7	3826.7	3982.8	5447.5	9420.8	18618.7	30115.7	33982.3	33772.8	31675.7	21123.5
60°	2792.3	2759.9	2620.9	3108.5	5243.7	12862.7	27041.5	32622.3	33237.6	31883.3	20974.9
62.5°	2453.3	2375.2	2091.4	2059.0	2550.4	5925.6	20691.1	27944.4	29397.7	30698.5	20072.0
65°	2304.7	2220.9	1855.2	1737.1	1840.0	2506.6	12188.4	20957.8	22780.6	27106.3	17763.5
67.5°	2194.2	2085.7	1704.7	1542.8	1550.5	1657.1	4885.6	13199.7	15251.2	20580.6	13816.9
70°	2087.5	1969.5	1577.1	1390.5	1346.6	1310.5	1942.8	6607.5	8468.4	12999.8	8809.3
72.5°	1973.3	1857.1	1464.8	1270.5	1184.8	1064.8	1268.6	2702.8	3775.2	6150.4	3996.2
75°	1807.6	1702.8	1352.3	1163.8	1041.9	881.9	958.1	1411.4	1693.3	2449.5	1925.7
77.5°	1603.8	1518.1	1226.6	1076.1	923.8	716.2	737.1	979.1	1085.7	1401.9	1144.8
80°	1152.4	1182.8	1091.4	967.6	822.9	580.9	565.7	714.2	771.4	900.9	744.7
82.5°	809.5	826.6	902.9	790.4	680.0	457.2	417.2	502.9	537.2	592.4	401.9
85°	558.1	539.0	619.0	550.4	491.4	304.7	285.7	340.9	361.9	367.6	207.7
87.5°	335.2	335.2	358.1	295.2	264.7	158.0	154.3	194.3	207.7	198.0	114.3
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°	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6	10744.6
2.5°	10773.2	10638.0	10350.3	10119.8	9828.4	9525.5	9356.0	9175.1	9051.3	8961.8	9104.6
5°	10855.0	10578.8	9984.6	9420.8	8798.0	8150.4	7658.9	7201.8	6883.7	6685.6	6872.3
7.5°	10984.5	10559.8	9613.2	8649.4	7531.3	6453.2	5489.5	4885.6	4533.3	4359.9	4468.5
10°	11133.2	10529.3	9177.0	7603.7	6003.7	4645.6	3925.7	3681.8	3601.8	3569.5	3584.7
12.5°	11257.0	10464.6	8641.8	6338.9	4508.5	3668.5	3460.8	3455.2	3472.3	3476.1	3481.8
15°	11344.6	10369.3	7847.5	5020.8	3605.7	3342.8	3331.3	3365.6	3398.0	3411.3	3419.0
17.5°	11403.7	10173.1	6950.3	3969.5	3230.4	3184.8	3211.3	3255.2	3289.5	3299.0	3306.6
20°	11397.9	9885.6	5881.8	3310.5	3026.6	3026.6	3072.3	3106.6	3108.5	3097.1	3102.8
22.5°	11338.9	9491.2	4845.6	2959.9	2845.6	2878.1	2923.8	2891.4	2758.1	2670.4	2676.1
25°	11239.8	9020.8	3958.0	2737.1	2678.1	2735.2	2721.9	2478.1	2287.6	2201.9	2201.9
27.5°	11152.2	8464.6	3276.1	2542.9	2510.4	2580.9	2344.7	2123.7	2043.8	2003.8	1990.5
30°	11089.3	7864.7	2820.9	2356.2	2352.4	2300.9	2034.2	1973.3	1960.0	1927.5	1916.2
32.5°	11104.5	7257.0	2529.5	2192.4	2205.7	1969.5	1885.7	1899.0	1887.5	1853.3	1838.0
35°	11230.3	6679.9	2339.0	2043.8	2003.8	1779.0	1798.0	1822.8	1819.0	1771.4	1756.2
37.5°	11455.1	6133.2	2213.3	1920.0	1748.5	1683.8	1714.3	1752.3	1742.8	1710.5	1699.0
40°	11691.2	5619.0	2110.4	1822.8	1598.1	1619.0	1645.7	1666.6	1676.2	1685.7	1678.0
42.5°	11921.7	5081.8	1984.7	1723.8	1535.2	1558.1	1569.5	1590.5	1641.8	1678.0	1676.2
45°	12058.9	4577.1	1855.2	1582.8	1485.7	1499.0	1491.4	1533.3	1596.2	1655.2	1657.1
47.5°	12211.3	4184.7	1752.3	1453.3	1438.1	1447.6	1424.8	1466.6	1523.8	1596.2	1603.8
50°	12396.0	3950.4	1670.5	1350.5	1373.3	1373.3	1367.6	1405.7	1485.7	1569.5	1584.8
52.5°	12605.5	3904.7	1601.8	1276.1	1308.6	1306.6	1312.3	1369.5	1457.1	1539.0	1552.3
55°	12860.7	4028.5	1527.6	1220.9	1245.6	1253.3	1272.3	1337.1	1411.4	1504.8	1510.5
57.5°	13157.9	4279.9	1468.5	1177.1	1188.6	1213.3	1243.8	1302.8	1382.8	1485.7	1491.4
58°	13207.4	4333.2	1459.0	1173.3	1177.1	1205.6	1240.0	1297.1	1377.1	1489.5	1495.2
60°	13209.4	4510.4	1438.1	1156.1	1133.3	1180.9	1219.1	1276.1	1367.6	1502.8	1516.1
62.5°	12740.8	4508.5	1422.8	1131.4	1087.6	1146.6	1190.4	1257.1	1358.1	1535.2	1561.8
65°	11218.9	4097.1	1350.5	1093.3	1051.4	1116.1	1165.7	1243.8	1384.8	1676.2	1693.3
67.5°	8775.1	3358.0	1215.3	1040.0	1003.8	1085.7	1150.4	1241.9	1413.3	1708.5	1720.0
70°	5801.8	2512.4	1066.6	979.1	954.3	1049.5	1158.1	1306.6	1380.9	1640.0	1609.5
72.5°	3011.4	1763.8	946.6	902.9	897.1	1017.1	1268.6	1299.0	1348.6	1542.8	1504.8
75°	1581.0	1224.8	841.9	819.1	828.6	1009.6	1497.1	1264.8	1306.6	1476.1	1548.5
77.5°	967.6	988.6	752.4	742.9	761.9	986.6	1495.2	1220.9	1245.6	1358.1	1438.1
80°	647.6	801.9	683.8	685.7	699.1	902.9	1342.8	1152.4	1171.4	1283.8	1365.7
82.5°	409.5	474.2	620.9	653.4	636.2	744.7	1140.9	1049.5	1076.1	1468.5	1552.3
85°	207.7	297.2	539.0	628.6	573.4	521.9	925.7	919.9	933.3	1059.1	1106.6
87.5°	95.2	163.8	420.9	548.6	432.4	325.7	672.4	681.9	735.2	752.4	752.4
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)