

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: P193517

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193517
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-09-LED-E1-AFL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44548 lumens
Efficiency: N/A
Efficacy: 88.9 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

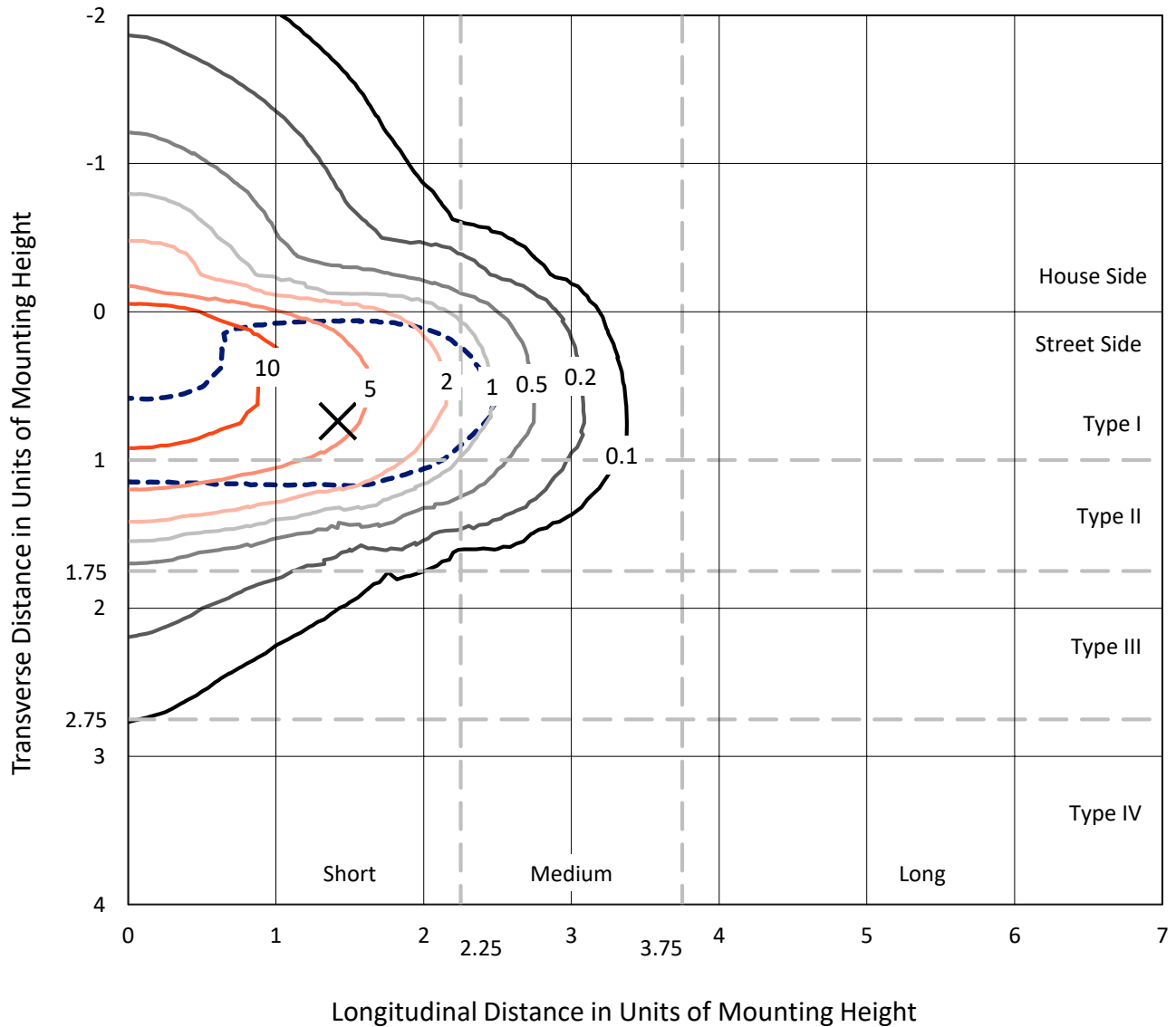
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

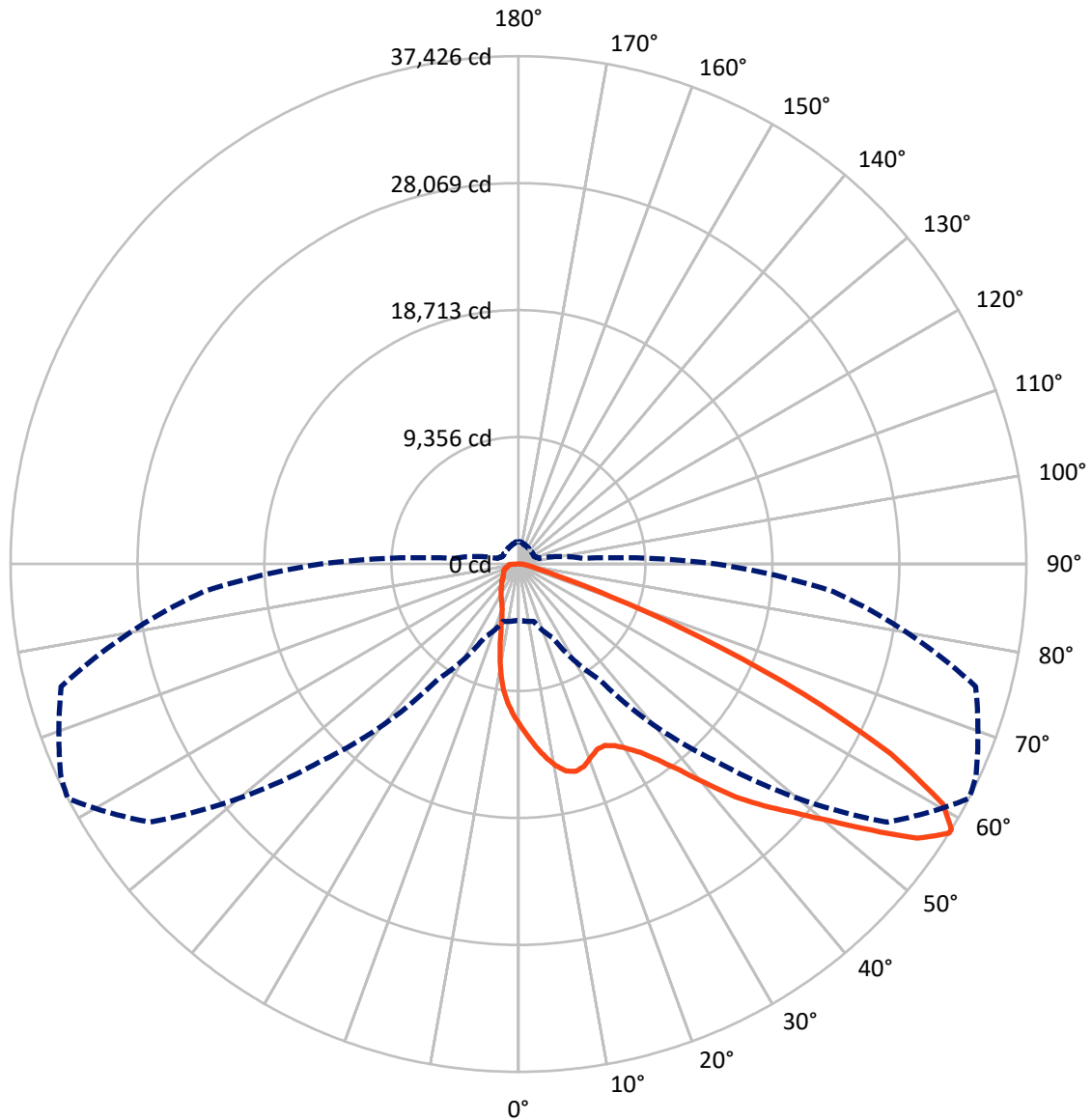
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16 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	6793.7	0.0	6793.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	37754.3	0.0	37754.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	44548.0	0.0	44548.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1058.3	2.4
10°-20°	2705.2	6.1
20°-30°	4373.1	9.8
30°-40°	6942.2	15.6
40°-50°	10157.9	22.8
50°-60°	10624.3	23.8
60°-70°	6276.8	14.1
70°-80°	1768.2	4.0
80°-90°	642.0	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°	44548.0	100.0
0°-180°	44548.0	100.0



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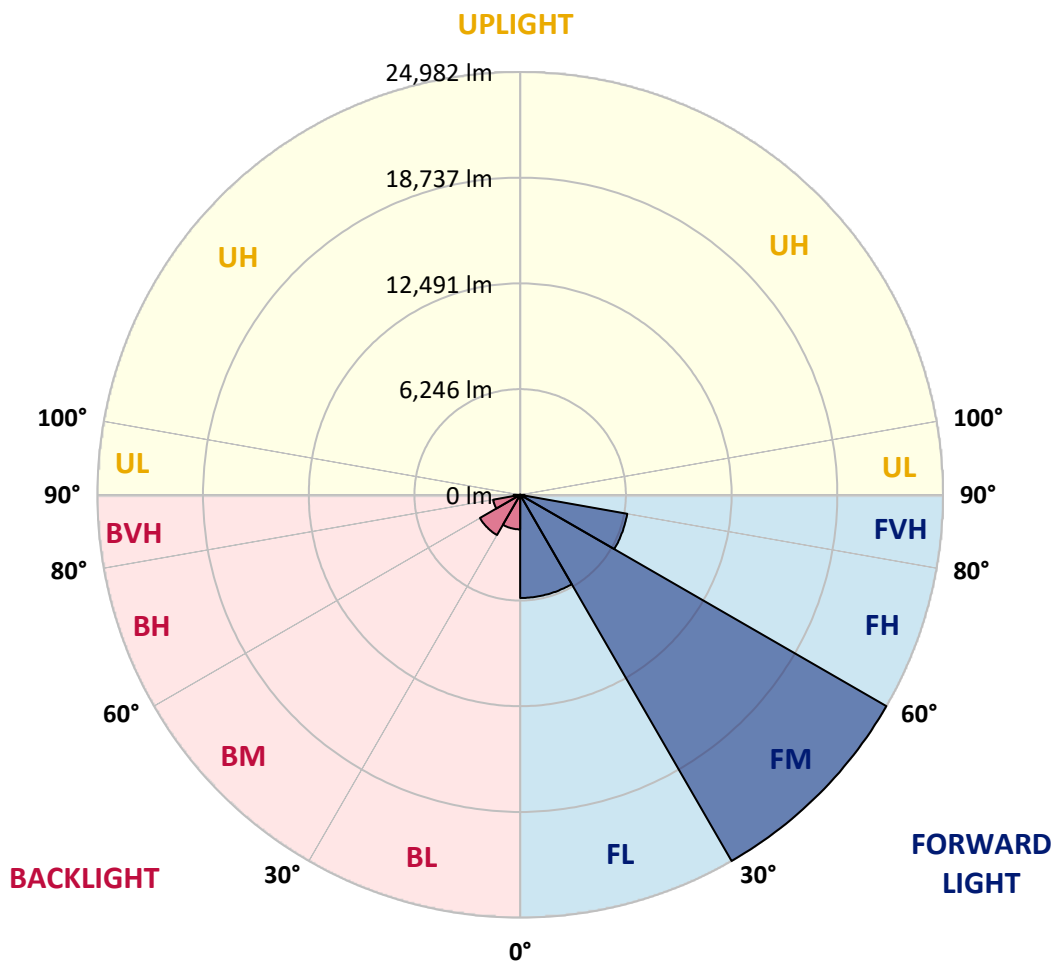
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6094.7	13.7			
FM (30°-60°)	24982.3	56.1			
FH (60°-80°)	6424.0	14.4			G3/7500
FVH (80°-90°)	253.3	0.6			G3/500
BL (0°-30°)	2041.9	4.6	B3/2500		
BM (30°-60°)	2742.1	6.2	B3/5000		
BH (60°-80°)	1621.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	388.7	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°	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3
2.5°	13521.9	13412.9	13343.6	13282.8	13203.1	13033.2	12804.5	12659.8	12586.4	12336.7	12040.9
5°	14847.7	14751.2	14679.9	14598.1	14455.4	14189.0	13819.8	13526.1	13381.4	12882.1	12290.6
7.5°	14537.2	14577.1	14700.9	14916.9	15101.5	15065.9	14736.5	14363.1	14172.2	13477.9	12580.1
10°	12666.1	12735.3	12949.3	13454.8	14272.9	15112.0	15367.9	15109.9	14916.9	14067.3	12877.9
12.5°	12290.6	12288.5	12305.3	12439.5	12926.2	14107.2	15388.9	15649.0	15533.7	14629.5	13182.1
15°	12443.7	12447.9	12435.3	12492.0	12643.0	13110.8	14747.0	15856.7	15938.5	15195.9	13496.8
17.5°	12846.5	12836.0	12787.7	12787.7	12842.3	13024.8	13991.8	15663.7	16041.3	15697.3	13773.7
20°	13521.9	13473.7	13345.7	13228.3	13169.5	13268.1	13681.4	15219.0	15863.0	16135.7	14002.3
22.5°	14340.1	14302.3	14094.6	13842.9	13639.4	13637.3	13840.8	14830.9	15554.6	16549.0	14195.3
25°	15397.3	15336.5	15028.1	14625.3	14268.7	14132.4	14189.0	14812.0	15386.8	16997.9	14367.3
27.5°	16639.2	16528.0	16163.0	15581.9	15057.5	14782.7	14700.9	15154.0	15539.9	17553.8	14606.5
30°	18145.3	18017.4	17549.6	16792.3	16051.8	15600.8	15426.7	15760.2	16047.6	18231.3	14990.3
32.5°	19859.2	19674.6	19133.4	18298.5	17325.1	16637.1	16353.9	16561.5	16790.2	19047.3	15470.7
35°	22227.5	22007.2	21224.8	20073.1	18973.9	18027.9	17574.7	17725.8	17948.1	20264.0	16165.1
37.5°	23842.7	23744.2	23223.9	22141.5	20945.8	19857.1	19156.4	19244.5	19370.4	21784.9	17054.5
40°	23828.1	23867.9	23878.4	23888.9	23075.0	22032.4	21279.3	21187.0	21161.9	23454.7	18065.6
42.5°	22634.5	22798.1	23326.7	24398.6	24893.7	24415.4	23725.3	23458.9	23326.7	25422.3	19137.5
45°	20807.3	20895.4	21885.6	23979.1	25825.1	26775.4	26253.0	25413.9	25174.8	27230.6	20027.0
47.5°	19865.5	19962.0	20585.0	22867.3	25814.6	28682.2	28984.3	27385.8	26957.9	28803.9	20794.8
50°	17623.0	17824.4	18608.9	20933.2	24872.7	29559.0	31839.3	29735.3	28850.0	30335.2	21564.6
52.5°	13505.2	13815.6	14694.6	17753.1	22483.4	29124.8	34123.7	32584.0	31333.7	31921.1	22225.4
55°	8518.9	8749.6	9488.0	12538.1	17985.9	26865.6	34990.1	35665.5	34553.7	33423.1	22798.1
57.5°	4631.8	4734.6	5011.5	6922.5	11699.0	21870.9	33727.2	37419.2	36957.7	34698.5	23230.2
58°	4145.1	4214.3	4386.3	5999.5	10375.3	20505.3	33167.1	37425.5	37194.8	34885.2	23263.8
60°	3075.3	3039.6	2886.5	3423.5	5775.0	14165.9	29781.4	35927.7	36605.3	35113.8	23100.2
62.5°	2701.9	2615.9	2303.3	2267.6	2808.9	6526.0	22787.6	30775.7	32376.3	33809.0	22105.8
65°	2538.2	2445.9	2043.2	1913.1	2026.4	2760.6	13423.3	23081.3	25088.8	29852.7	19563.4
67.5°	2416.6	2297.0	1877.5	1699.2	1707.5	1825.0	5380.7	14537.2	16796.5	22665.9	15216.9
70°	2299.1	2169.0	1736.9	1531.3	1483.1	1443.2	2139.7	7277.0	9326.5	14317.0	9702.0
72.5°	2173.2	2045.3	1613.2	1399.2	1304.8	1172.6	1397.1	2976.7	4157.7	6773.6	4401.0
75°	1990.7	1875.4	1489.4	1281.7	1147.5	971.2	1055.2	1554.4	1864.9	2697.7	2120.8
77.5°	1766.3	1671.9	1350.9	1185.2	1017.4	788.7	811.8	1078.2	1195.7	1543.9	1260.7
80°	1269.1	1302.7	1202.0	1065.6	906.2	639.8	623.0	786.6	849.6	992.2	820.2
82.5°	891.5	910.4	994.3	870.6	748.9	503.5	459.4	553.8	591.6	652.4	442.6
85°	614.6	593.7	681.8	606.2	541.2	335.6	314.7	375.5	398.6	404.9	228.7
87.5°	369.2	369.2	394.4	325.1	291.6	174.1	169.9	214.0	228.7	218.2	125.9
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°	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3
2.5°	11864.7	11715.8	11399.0	11145.2	10824.3	10490.7	10304.0	10104.7	9968.4	9869.8	10027.1
5°	11954.9	11650.8	10996.3	10375.3	9689.4	8976.2	8435.0	7931.5	7581.2	7363.0	7568.6
7.5°	12097.6	11629.8	10587.2	9525.8	8294.4	7107.1	6045.6	5380.7	4992.6	4801.7	4921.3
10°	12261.2	11596.2	10106.8	8374.1	6612.0	5116.4	4323.4	4054.9	3966.8	3931.1	3947.9
12.5°	12397.6	11524.9	9517.4	6981.2	4965.3	4040.2	3811.6	3805.3	3824.2	3828.3	3834.6
15°	12494.1	11420.0	8642.6	5529.6	3971.0	3681.5	3668.9	3706.7	3742.3	3757.0	3765.4
17.5°	12559.1	11204.0	7654.6	4371.7	3557.7	3507.4	3536.8	3585.0	3622.8	3633.3	3641.7
20°	12552.8	10887.2	6477.8	3645.8	3333.3	3333.3	3383.6	3421.4	3423.5	3410.9	3417.2
22.5°	12487.8	10453.0	5336.6	3259.9	3134.0	3169.7	3220.0	3184.3	3037.5	2941.0	2947.3
25°	12378.7	9934.8	4359.1	3014.4	2949.4	3012.3	2997.6	2729.1	2519.4	2425.0	2425.0
27.5°	12282.2	9322.3	3608.1	2800.5	2764.8	2842.4	2582.3	2339.0	2250.9	2206.8	2192.1
30°	12213.0	8661.5	3106.7	2594.9	2590.7	2534.1	2240.4	2173.2	2158.6	2122.9	2110.3
32.5°	12229.7	7992.3	2785.8	2414.5	2429.2	2169.0	2076.7	2091.4	2078.8	2041.1	2024.3
35°	12368.2	7356.7	2576.0	2250.9	2206.8	1959.3	1980.3	2007.5	2003.3	1950.9	1934.1
37.5°	12615.7	6754.7	2437.6	2114.5	1925.7	1854.4	1888.0	1929.9	1919.4	1883.8	1871.2
40°	12875.8	6188.3	2324.3	2007.5	1760.0	1783.1	1812.4	1835.5	1846.0	1856.5	1848.1
42.5°	13129.7	5596.7	2185.8	1898.4	1690.8	1715.9	1728.5	1751.6	1808.2	1848.1	1846.0
45°	13280.7	5040.8	2043.2	1743.2	1636.2	1650.9	1642.5	1688.7	1757.9	1822.9	1825.0
47.5°	13448.5	4608.7	1929.9	1600.6	1583.8	1594.3	1569.1	1615.2	1678.2	1757.9	1766.3
50°	13652.0	4350.7	1839.7	1487.3	1512.5	1512.5	1506.2	1548.1	1636.2	1728.5	1745.3
52.5°	13882.7	4300.3	1764.2	1405.5	1441.1	1439.0	1445.3	1508.3	1604.8	1695.0	1709.6
55°	14163.8	4436.7	1682.4	1344.6	1371.9	1380.3	1401.3	1472.6	1554.4	1657.2	1663.5
57.5°	14491.1	4713.6	1617.3	1296.4	1309.0	1336.3	1369.8	1434.8	1522.9	1636.2	1642.5
58°	14545.6	4772.3	1606.9	1292.2	1296.4	1327.9	1365.6	1428.6	1516.7	1640.4	1646.7
60°	14547.7	4967.4	1583.8	1273.3	1248.1	1300.6	1342.5	1405.5	1506.2	1655.1	1669.8
62.5°	14031.7	4965.3	1567.0	1246.0	1197.8	1262.8	1311.1	1384.5	1495.7	1690.8	1720.1
65°	12355.6	4512.2	1487.3	1204.1	1157.9	1229.3	1283.8	1369.8	1525.0	1846.0	1864.9
67.5°	9664.2	3698.3	1338.3	1145.4	1105.5	1195.7	1267.0	1367.7	1556.5	1881.7	1894.2
70°	6389.7	2766.9	1174.7	1078.2	1051.0	1155.8	1275.4	1439.0	1520.9	1806.1	1772.6
72.5°	3316.5	1942.5	1042.6	994.3	988.0	1120.2	1397.1	1430.6	1485.2	1699.2	1657.2
75°	1741.1	1348.8	927.2	902.0	912.5	1111.8	1648.8	1392.9	1439.0	1625.7	1705.5
77.5°	1065.6	1088.7	828.6	818.1	839.1	1086.6	1646.7	1344.6	1371.9	1495.7	1583.8
80°	713.2	883.1	753.1	755.2	769.9	994.3	1478.9	1269.1	1290.1	1413.9	1504.1
82.5°	451.0	522.3	683.9	719.5	700.6	820.2	1256.5	1155.8	1185.2	1617.3	1709.6
85°	228.7	327.2	593.7	692.2	631.4	574.8	1019.5	1013.2	1027.9	1166.3	1218.8
87.5°	104.9	180.4	463.6	604.1	476.2	358.7	740.5	751.0	809.7	828.6	828.6
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)