

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: P190983

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190983  
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-05-LED-E1-AFL-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34249.4 lumens  
Efficiency: N/A  
Efficacy: 107.0 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

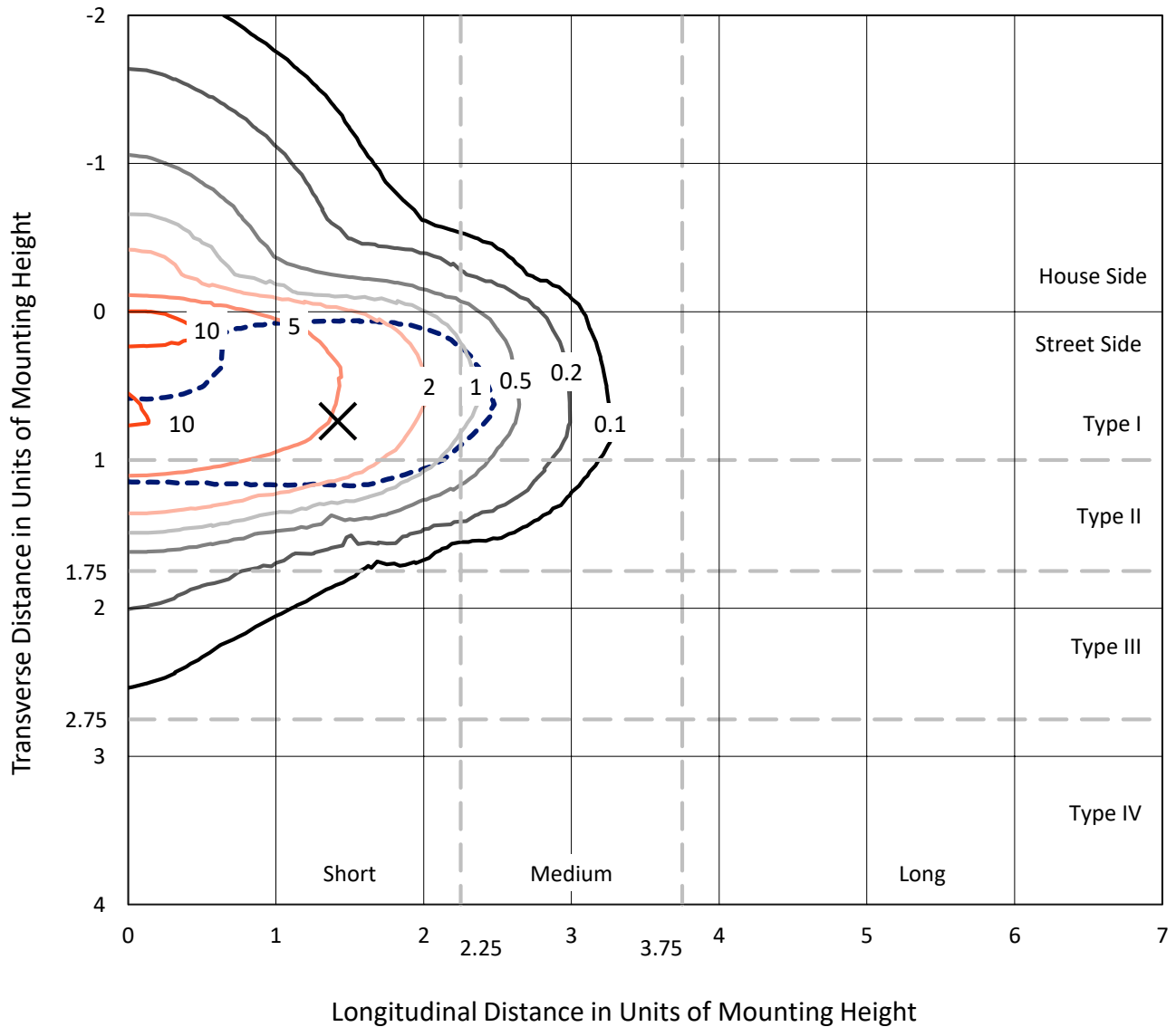
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

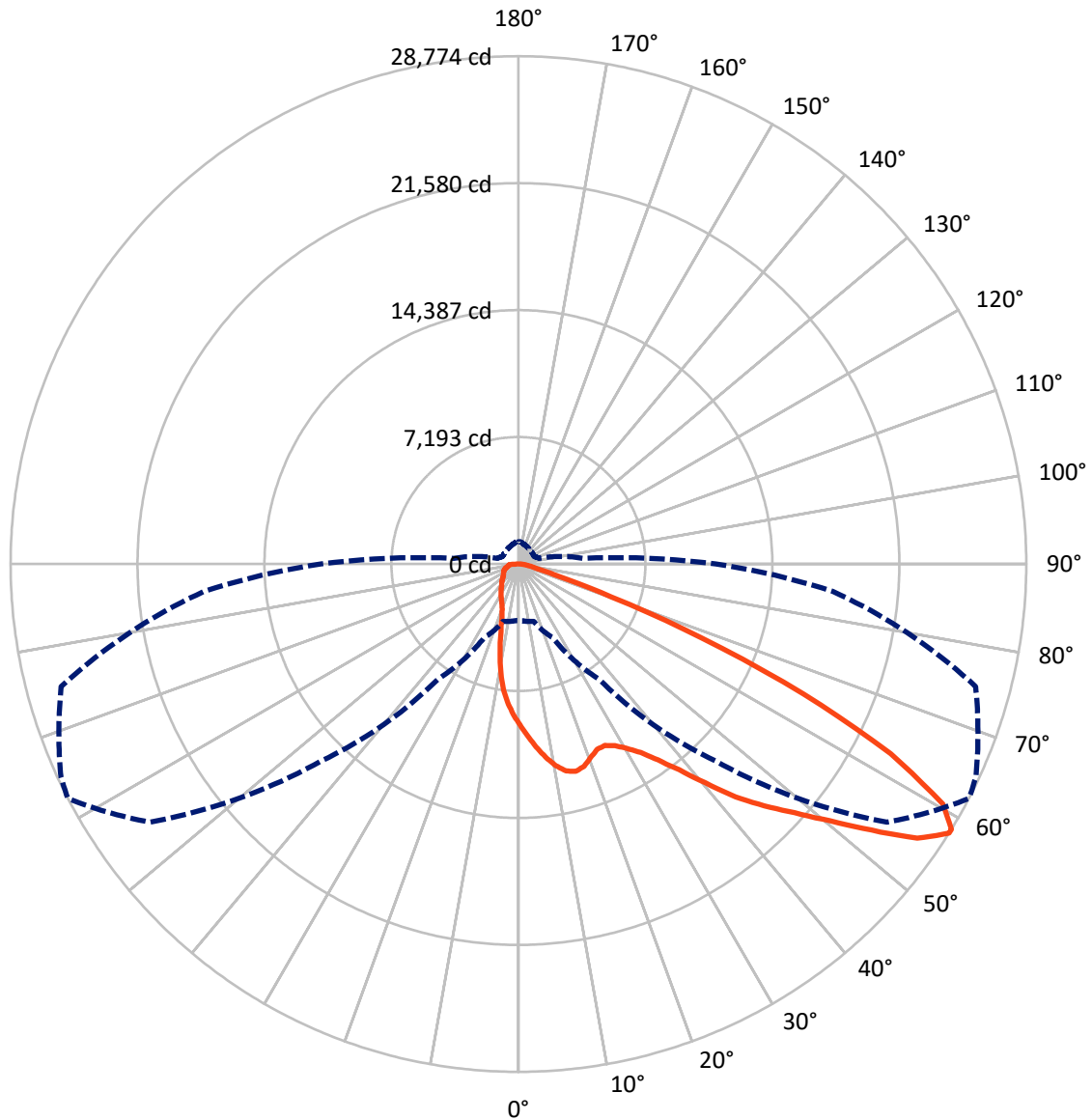
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 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
<b>House Side</b>	Lumens	5223.2	0.0	5223.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	29026.2	0.0	29026.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	34249.4	0.0	34249.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	813.7	2.4
10°-20°	2079.8	6.1
20°-30°	3362.1	9.8
30°-40°	5337.3	15.6
40°-50°	7809.6	22.8
50°-60°	8168.2	23.8
60°-70°	4825.8	14.1
70°-80°	1359.4	4.0
80°-90°	493.6	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°	34249.4	100.0
0°-180°	34249.4	100.0

**Coefficient of Utilization**



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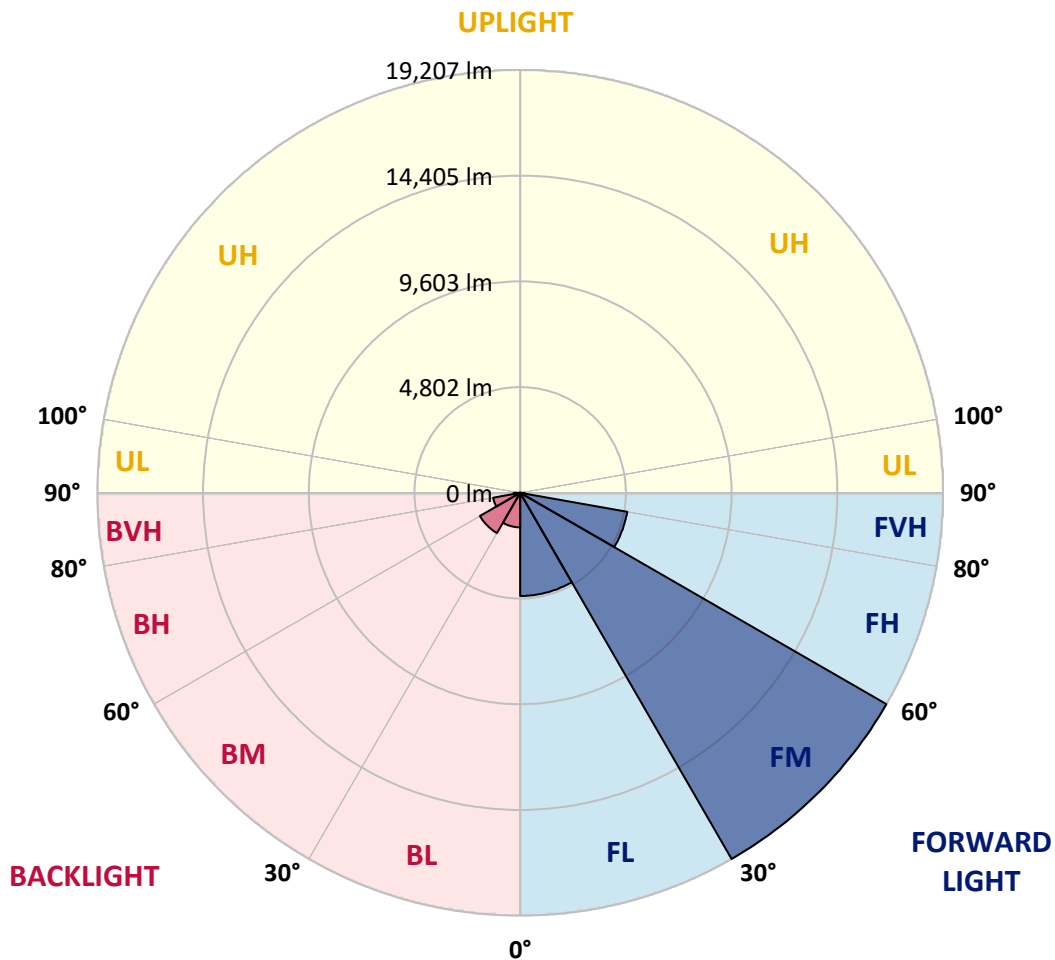
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4685.7	13.7			
FM (30°-60°)	19206.9	56.1			
FH (60°-80°)	4938.9	14.4			G2/5000
FVH (80°-90°)	194.7	0.6			G2/225
BL (0°-30°)	1569.8	4.6	B3/2500		
BM (30°-60°)	2108.2	6.2	B2/2500		
BH (60°-80°)	1246.3	3.6	B3/2500		G3/2500
BVH (80°-90°)	298.8	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°	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6
2.5°	10395.9	10312.1	10258.9	10212.1	10150.8	10020.2	9844.4	9733.1	9676.6	9484.7	9257.3
5°	11415.2	11341.0	11286.2	11223.3	11113.6	10908.8	10625.0	10399.2	10287.9	9904.0	9449.2
7.5°	11176.6	11207.1	11302.3	11468.4	11610.4	11583.0	11329.7	11042.7	10895.9	10362.1	9671.8
10°	9738.0	9791.2	9955.7	10344.4	10973.3	11618.5	11815.2	11616.8	11468.4	10815.2	9900.8
12.5°	9449.2	9447.7	9460.6	9563.8	9937.9	10845.9	11831.3	12031.3	11942.6	11247.4	10134.7
15°	9566.9	9570.2	9560.5	9604.1	9720.2	10079.9	11337.8	12190.9	12253.8	11682.9	10376.6
17.5°	9876.6	9868.6	9831.5	9831.5	9873.4	10013.7	10757.2	12042.6	12332.9	12068.4	10589.5
20°	10395.9	10358.8	10260.5	10170.2	10125.0	10200.8	10518.5	11700.7	12195.8	12405.4	10765.2
22.5°	11025.0	10995.9	10836.2	10642.7	10486.3	10484.6	10641.0	11402.3	11958.7	12723.2	10913.7
25°	11837.8	11791.0	11553.9	11244.3	10970.1	10865.3	10908.8	11387.8	11829.7	13068.3	11045.9
27.5°	12792.5	12707.1	12426.4	11979.7	11576.5	11365.2	11302.3	11650.7	11947.5	13495.7	11229.7
30°	13950.5	13852.1	13492.5	12910.3	12341.0	11994.2	11860.3	12116.8	12337.7	14016.6	11524.9
32.5°	15268.2	15126.2	14710.1	14068.2	13319.9	12790.9	12573.2	12732.9	12908.6	14644.0	11894.3
35°	17089.0	16919.6	16318.0	15432.6	14587.6	13860.2	13511.9	13628.0	13798.9	15579.4	12428.0
37.5°	18330.8	18255.0	17855.0	17022.8	16103.6	15266.5	14727.8	14795.6	14892.3	16748.7	13111.9
40°	18319.5	18350.1	18358.2	18366.3	17740.5	16938.9	16360.0	16289.1	16269.6	18032.5	13889.2
42.5°	17401.8	17527.6	17934.1	18758.2	19138.8	18771.0	18240.4	18035.6	17934.1	19545.2	14713.3
45°	15997.1	16064.8	16826.1	18435.6	19854.9	20585.5	20183.8	19538.8	19354.9	20935.4	15397.1
47.5°	15273.0	15347.1	15826.2	17580.8	19846.8	22051.4	22283.7	21054.8	20725.8	22145.0	15987.4
50°	13548.9	13703.8	14306.9	16093.9	19122.6	22725.6	24478.7	22861.1	22180.4	23322.4	16579.3
52.5°	10383.1	10621.7	11297.5	13648.9	17285.7	22391.8	26235.0	25051.2	24090.0	24541.6	17087.4
55°	6549.4	6726.9	7294.6	9639.6	13827.9	20654.8	26901.0	27420.4	26565.6	25696.3	17527.6
57.5°	3561.0	3640.1	3852.9	5322.1	8994.4	16814.8	25930.2	28768.7	28413.9	26676.9	17859.9
58°	3186.8	3240.1	3372.4	4612.5	7976.8	15764.9	25499.6	28773.5	28596.1	26820.4	17885.7
60°	2364.3	2336.9	2219.2	2632.1	4440.0	10891.1	22896.6	27622.0	28142.9	26996.2	17759.9
62.5°	2077.2	2011.1	1770.8	1743.4	2159.6	5017.4	17519.6	23661.1	24891.6	25993.1	16995.4
65°	1951.5	1880.5	1570.8	1470.9	1558.0	2122.4	10320.1	17745.3	19288.8	22951.4	15040.8
67.5°	1857.9	1766.0	1443.4	1306.3	1312.8	1403.1	4136.8	11176.6	12913.5	17426.1	11699.1
70°	1767.6	1667.6	1335.4	1177.3	1140.2	1109.6	1645.0	5594.7	7170.4	11007.2	7459.1
72.5°	1670.8	1572.5	1240.2	1075.7	1003.1	901.5	1074.1	2288.5	3196.5	5207.6	3383.6
75°	1530.5	1441.8	1145.1	985.4	882.2	746.8	811.2	1195.1	1433.8	2074.0	1630.5
77.5°	1358.0	1285.3	1038.6	911.2	782.1	606.4	624.1	829.0	919.3	1187.0	969.2
80°	975.7	1001.6	924.1	819.3	696.7	491.9	478.9	604.8	653.2	762.8	630.5
82.5°	685.5	699.9	764.5	669.3	575.7	387.1	353.2	425.8	454.8	501.6	340.3
85°	472.5	456.4	524.2	466.1	416.1	258.1	241.9	288.7	306.5	311.3	175.7
87.5°	283.9	283.9	303.2	250.0	224.1	133.9	130.6	164.5	175.7	167.8	96.8
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°	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6	9097.6
2.5°	9121.9	9007.4	8763.8	8568.6	8321.9	8065.5	7921.9	7768.7	7663.9	7588.1	7709.1
5°	9191.2	8957.4	8454.2	7976.8	7449.4	6901.0	6485.0	6097.9	5828.6	5660.8	5818.9
7.5°	9300.9	8941.2	8139.7	7323.6	6376.9	5464.1	4648.0	4136.8	3838.4	3691.6	3783.6
10°	9426.7	8915.4	7770.3	6438.1	5083.5	3933.6	3324.0	3117.4	3049.7	3022.3	3035.2
12.5°	9531.4	8860.6	7317.2	5367.3	3817.4	3106.2	2930.4	2925.5	2940.1	2943.3	2948.1
15°	9605.7	8780.0	6644.7	4251.3	3053.0	2830.4	2820.8	2849.7	2877.2	2888.5	2895.0
17.5°	9655.6	8613.9	5885.0	3361.0	2735.3	2696.6	2719.1	2756.2	2785.3	2793.4	2799.8
20°	9650.8	8370.3	4980.2	2803.0	2562.7	2562.7	2601.4	2630.4	2632.1	2622.3	2627.2
22.5°	9600.8	8036.4	4102.9	2506.2	2409.5	2436.9	2475.6	2448.2	2335.3	2261.1	2265.9
25°	9517.0	7638.1	3351.4	2317.6	2267.6	2316.0	2304.6	2098.2	1937.0	1864.3	1864.3
27.5°	9442.8	7167.2	2773.9	2153.0	2125.6	2185.3	1985.3	1798.2	1730.5	1696.7	1685.3
30°	9389.6	6659.1	2388.5	1995.0	1991.8	1948.2	1722.4	1670.8	1659.5	1632.1	1622.4
32.5°	9402.5	6144.7	2141.8	1856.3	1867.6	1667.6	1596.6	1608.0	1598.3	1569.2	1556.3
35°	9508.9	5656.0	1980.5	1730.5	1696.7	1506.3	1522.5	1543.4	1540.2	1499.9	1487.0
37.5°	9699.2	5193.1	1874.0	1625.7	1480.5	1425.7	1451.5	1483.8	1475.7	1448.3	1438.6
40°	9899.2	4757.6	1787.0	1543.4	1353.2	1370.9	1393.5	1411.2	1419.2	1427.3	1420.9
42.5°	10094.4	4302.8	1680.5	1459.5	1299.9	1319.3	1328.9	1346.7	1390.2	1420.9	1419.2
45°	10210.5	3875.4	1570.8	1340.2	1257.9	1269.3	1262.8	1298.3	1351.5	1401.5	1403.1
47.5°	10339.5	3543.3	1483.8	1230.5	1217.6	1225.7	1206.4	1241.9	1290.2	1351.5	1358.0
50°	10495.9	3344.8	1414.4	1143.5	1162.8	1162.8	1158.0	1190.2	1257.9	1328.9	1341.8
52.5°	10673.4	3306.2	1356.3	1080.5	1108.0	1106.3	1111.2	1159.6	1233.8	1303.1	1314.4
55°	10889.4	3411.0	1293.4	1033.8	1054.8	1061.2	1077.4	1132.2	1195.1	1274.1	1278.9
57.5°	11141.1	3623.9	1243.5	996.7	1006.4	1027.3	1053.1	1103.2	1170.9	1257.9	1262.8
58°	11183.0	3669.0	1235.4	993.5	996.7	1020.9	1050.0	1098.3	1166.1	1261.2	1266.0
60°	11184.6	3819.1	1217.6	979.0	959.6	999.9	1032.2	1080.5	1158.0	1272.4	1283.8
62.5°	10787.8	3817.4	1204.7	958.0	920.9	970.9	1008.0	1064.4	1149.9	1299.9	1322.5
65°	9499.2	3469.0	1143.5	925.8	890.3	945.1	987.0	1053.1	1172.5	1419.2	1433.8
67.5°	7430.1	2843.3	1029.0	880.6	850.0	919.3	974.2	1051.5	1196.6	1446.7	1456.4
70°	4912.5	2127.2	903.2	829.0	808.0	888.6	980.6	1106.3	1169.2	1388.6	1362.8
72.5°	2549.8	1493.4	801.6	764.5	759.6	861.2	1074.1	1099.9	1141.8	1306.3	1274.1
75°	1338.6	1037.0	712.9	693.5	701.5	854.8	1267.6	1070.9	1106.3	1249.9	1311.2
77.5°	819.3	837.1	637.1	629.0	645.1	835.4	1266.0	1033.8	1054.8	1149.9	1217.6
80°	548.3	678.9	579.0	580.6	591.9	764.5	1137.0	975.7	991.9	1087.0	1156.3
82.5°	346.8	401.6	525.8	553.2	538.7	630.5	966.1	888.6	911.2	1243.5	1314.4
85°	175.7	251.5	456.4	532.2	485.5	441.9	783.8	779.0	790.2	896.7	937.0
87.5°	80.6	138.7	356.4	464.5	366.1	275.8	569.3	577.4	622.6	637.1	637.1
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)