

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: P190956

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190956  
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-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 32986.1 lumens  
Efficiency: N/A  
Efficacy: 128.4 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): 257  
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

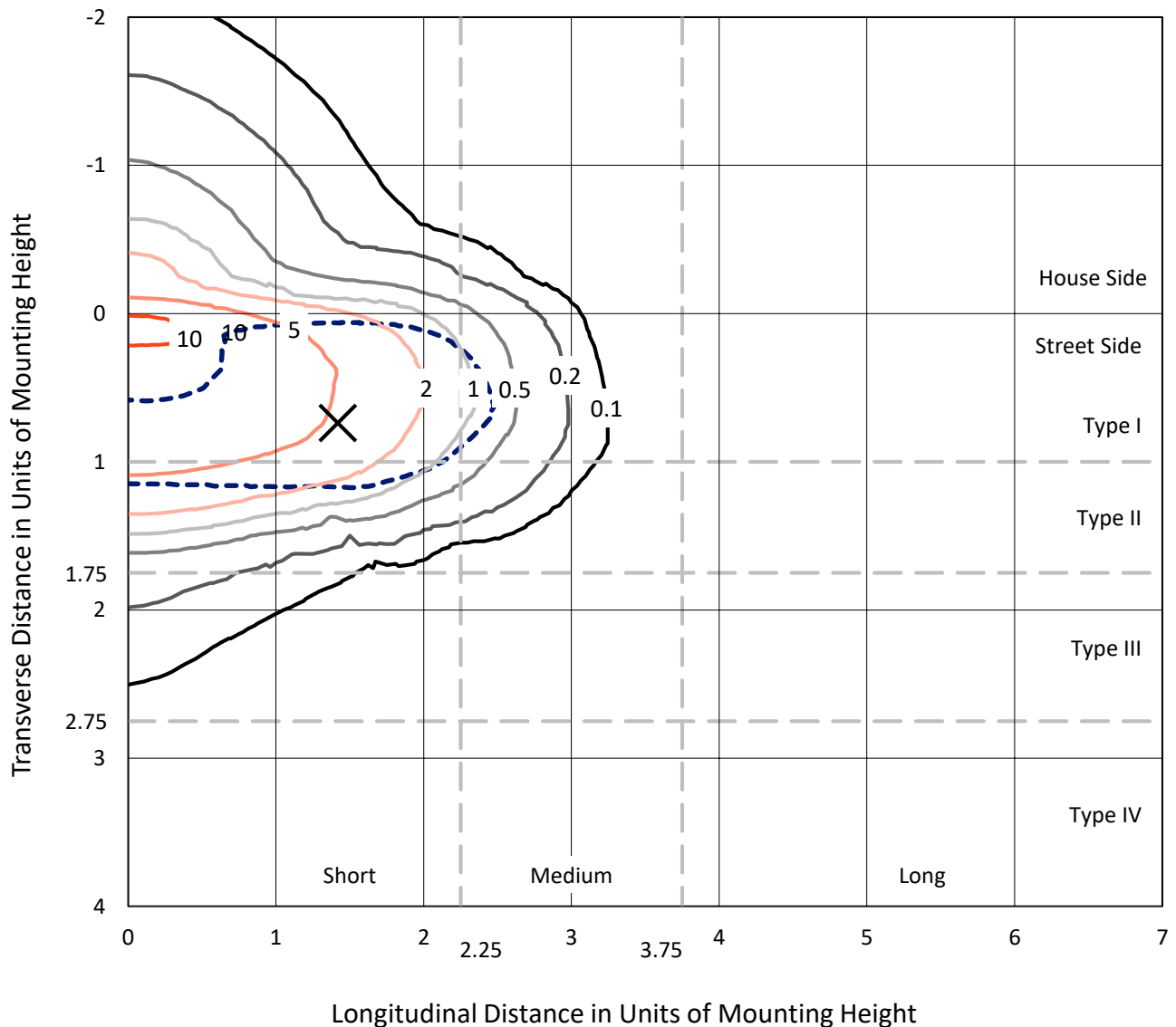


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

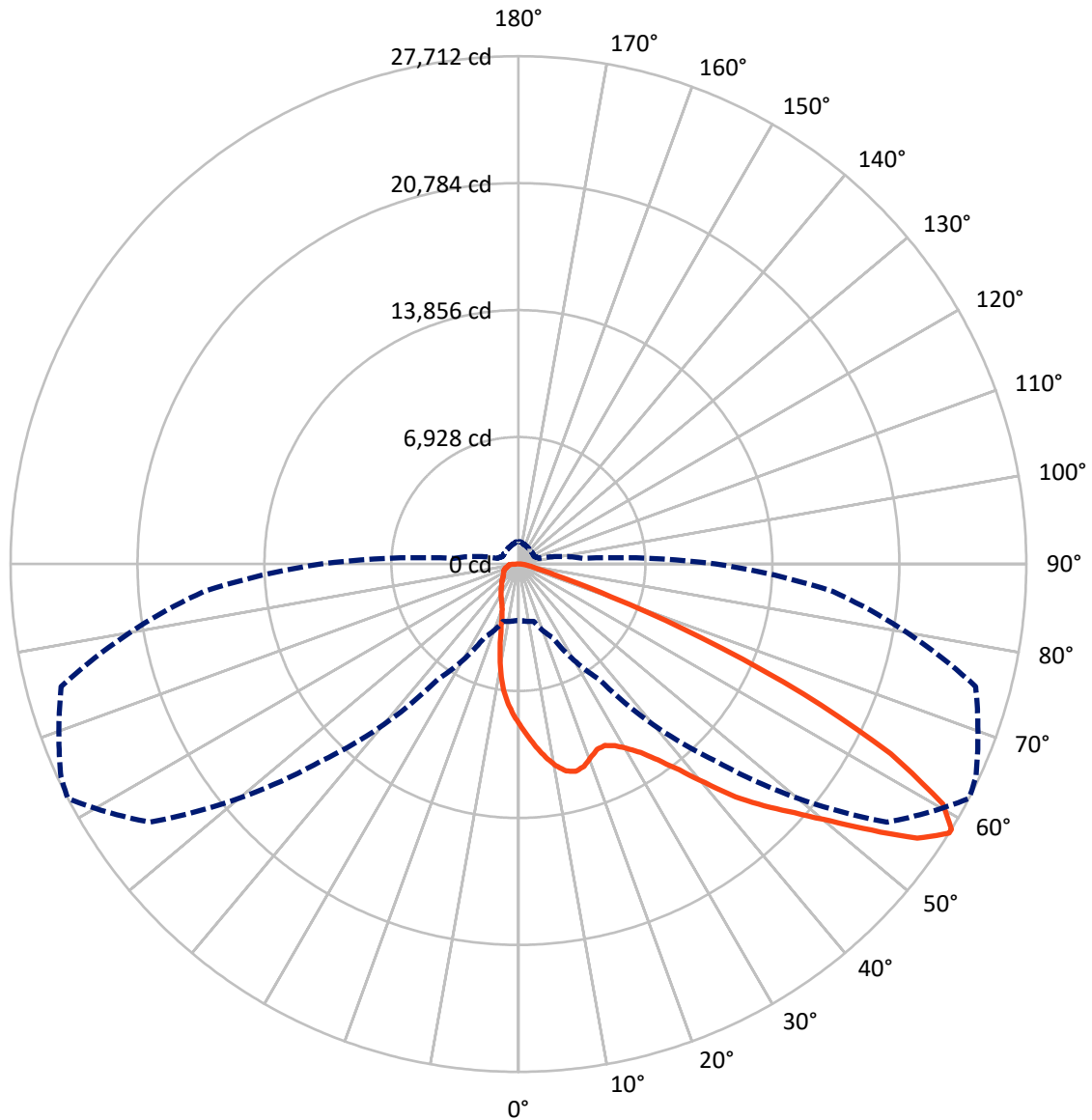


Based on 30 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - Full Cutoff

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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	5030.5	0.0	5030.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	27955.6	0.0	27955.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	32986.1	0.0	32986.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	783.6	2.4
10°-20°	2003.1	6.1
20°-30°	3238.1	9.8
30°-40°	5140.4	15.6
40°-50°	7521.5	22.8
50°-60°	7866.9	23.8
60°-70°	4647.8	14.1
70°-80°	1309.3	4.0
80°-90°	475.3	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°	32986.1	100.0
0°-180°	32986.1	100.0



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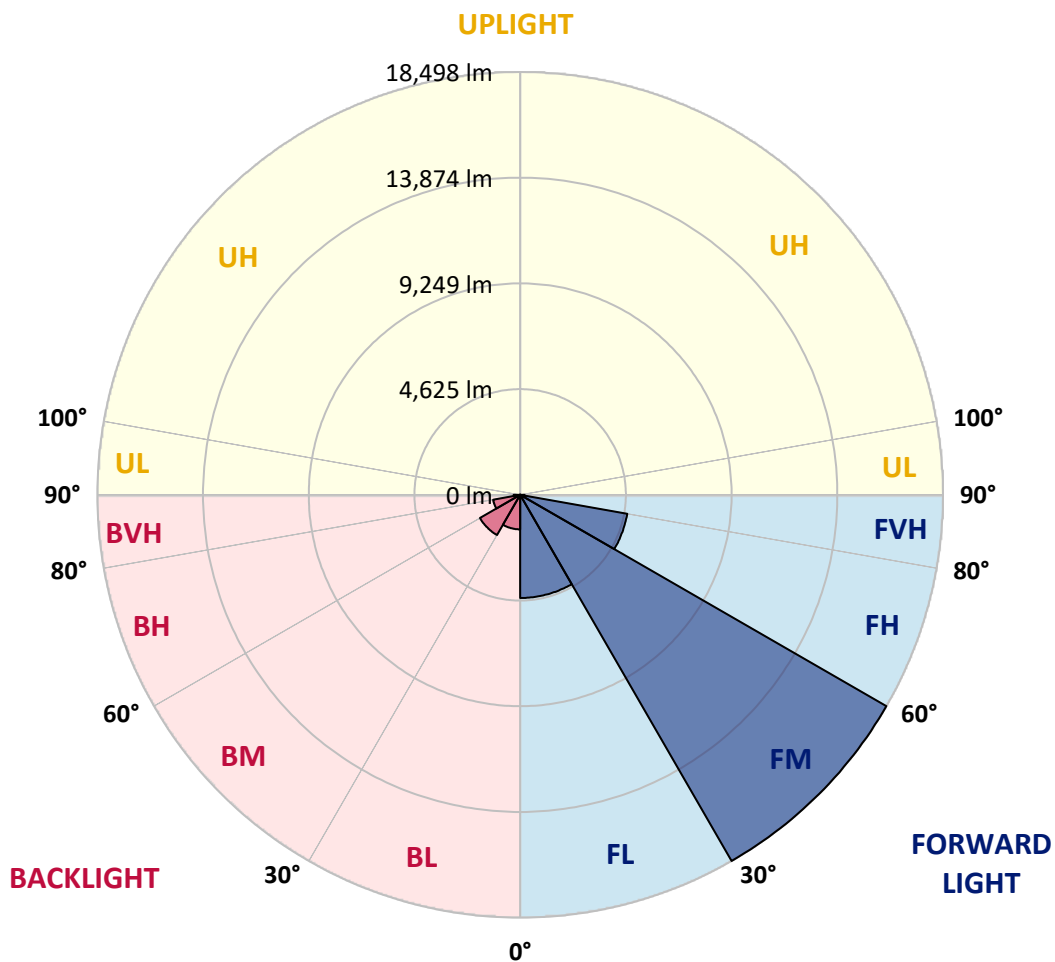
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4512.9	13.7			
FM	(30°-60°)	18498.4	56.1			
FH	(60°-80°)	4756.7	14.4			G2/5000
FVH	(80°-90°)	187.5	0.6			G2/225
BL	(0°-30°)	1511.9	4.6	B3/2500		
BM	(30°-60°)	2030.4	6.2	B2/2500		
BH	(60°-80°)	1200.3	3.6	B3/2500		G3/2500
BVH	(80°-90°)	287.8	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°	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1
2.5°	10012.4	9931.7	9880.5	9835.4	9776.3	9650.5	9481.2	9374.1	9319.7	9134.8	8915.8
5°	10994.2	10922.7	10869.9	10809.3	10703.6	10506.4	10233.1	10015.6	9908.4	9538.7	9100.7
7.5°	10764.3	10793.8	10885.4	11045.4	11182.1	11155.7	10911.8	10635.3	10493.9	9979.8	9315.1
10°	9378.7	9430.0	9588.4	9962.7	10568.5	11189.9	11379.4	11188.3	11045.4	10416.3	9535.6
12.5°	9100.7	9099.1	9111.5	9211.0	9571.3	10445.9	11394.9	11587.5	11502.1	10832.6	9760.8
15°	9214.1	9217.2	9207.9	9249.8	9361.6	9708.0	10919.6	11741.3	11801.9	11251.9	9993.8
17.5°	9512.3	9504.5	9468.8	9468.8	9509.2	9644.4	10360.4	11598.4	11878.0	11623.3	10198.8
20°	10012.4	9976.7	9882.0	9795.1	9751.5	9824.5	10130.5	11269.0	11745.9	11947.9	10368.2
22.5°	10618.2	10590.3	10436.6	10250.2	10099.5	10097.9	10248.5	10981.7	11517.6	12253.8	10511.1
25°	11401.1	11356.1	11127.8	10829.5	10565.4	10464.5	10506.4	10967.8	11393.3	12586.3	10638.5
27.5°	12320.6	12238.4	11968.0	11537.8	11149.4	10946.0	10885.4	11221.0	11506.8	12997.9	10815.6
30°	13435.9	13341.1	12994.7	12434.1	11885.8	11551.8	11422.9	11669.8	11882.6	13499.6	11099.7
32.5°	14704.9	14568.3	14167.5	13549.3	12828.6	12319.1	12109.4	12263.1	12432.5	14103.8	11455.5
35°	16458.6	16295.5	15716.1	14863.4	14049.4	13348.9	13013.5	13125.3	13289.9	15004.7	11969.6
37.5°	17654.6	17581.7	17196.4	16394.9	15509.6	14703.4	14184.6	14249.8	14343.0	16130.9	12628.2
40°	17643.8	17673.3	17681.0	17688.8	17086.1	16314.1	15756.5	15688.2	15669.6	17367.2	13376.9
42.5°	16759.9	16881.1	17272.5	18066.2	18432.9	18078.7	17567.6	17370.4	17272.5	18824.2	14170.6
45°	15407.1	15472.2	16205.4	17755.6	19122.5	19826.1	19439.3	18818.0	18640.9	20163.2	14829.2
47.5°	14709.6	14781.0	15242.4	16932.4	19114.8	21238.1	21461.7	20278.2	19961.2	21328.1	15397.7
50°	13049.2	13198.2	13779.1	15500.3	18417.3	21887.4	23575.7	22017.8	21362.3	22462.1	15967.8
52.5°	10000.1	10229.9	10880.7	13145.4	16648.1	21565.8	25267.3	24127.2	23201.4	23636.3	16457.0
55°	6307.9	6478.8	7025.5	9284.0	13317.9	19892.9	25908.8	26408.9	25585.7	24748.5	16881.1
57.5°	3429.6	3505.8	3710.8	5125.8	8662.7	16194.5	24973.7	27707.4	27365.8	25692.8	17201.1
58°	3069.3	3120.5	3247.9	4442.4	7682.6	15183.4	24559.0	27712.1	27541.3	25831.1	17225.9
60°	2277.1	2250.7	2137.4	2535.0	4276.2	10489.3	22052.0	26603.1	27104.8	26000.4	17104.8
62.5°	2000.6	1937.0	1705.5	1679.1	2079.9	4832.3	16873.4	22788.3	23973.4	25034.3	16368.5
65°	1879.5	1811.1	1512.9	1416.6	1500.5	2044.2	9939.5	17090.7	18577.3	22104.8	14485.9
67.5°	1789.3	1700.9	1390.2	1258.1	1264.4	1351.3	3984.2	10764.3	12437.1	16783.2	11267.5
70°	1702.4	1606.1	1286.2	1133.9	1098.1	1068.7	1584.3	5388.4	6905.9	10601.1	7184.0
72.5°	1609.2	1514.5	1194.5	1036.0	966.2	868.3	1034.5	2204.2	3078.6	5015.5	3258.8
75°	1474.1	1388.7	1102.8	949.1	849.7	719.1	781.3	1151.0	1380.9	1997.5	1570.3
77.5°	1307.8	1238.0	1000.3	877.6	753.3	584.0	601.1	798.4	885.4	1143.2	933.5
80°	939.8	964.5	890.1	789.1	671.1	473.7	461.4	582.5	629.1	734.7	607.3
82.5°	660.1	674.1	736.2	644.7	554.5	372.8	340.1	410.1	438.0	483.0	327.8
85°	455.1	439.6	504.8	448.9	400.8	248.5	233.0	278.0	295.1	299.8	169.3
87.5°	273.3	273.3	292.1	240.8	215.9	128.9	125.8	158.5	169.3	161.5	93.2
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°	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1	8762.1
2.5°	8785.4	8675.1	8440.6	8252.6	8014.9	7768.0	7629.8	7482.2	7381.2	7308.2	7424.7
5°	8852.2	8627.0	8142.3	7682.6	7174.7	6646.5	6245.7	5873.0	5613.5	5452.0	5604.2
7.5°	8957.8	8611.4	7839.4	7053.5	6141.7	5262.6	4476.5	3984.2	3696.8	3555.5	3644.0
10°	9079.0	8586.5	7483.7	6200.7	4895.9	3788.5	3201.3	3002.5	2937.3	2910.8	2923.3
12.5°	9180.0	8533.8	7047.2	5169.4	3676.6	2991.6	2822.3	2817.6	2831.6	2834.7	2839.4
15°	9251.4	8456.1	6399.6	4094.5	2940.4	2726.1	2716.7	2744.7	2771.1	2781.9	2788.2
17.5°	9299.5	8296.1	5668.0	3237.0	2634.4	2597.1	2618.9	2654.6	2682.5	2690.3	2696.5
20°	9294.8	8061.6	4796.5	2699.6	2468.2	2468.2	2505.4	2533.4	2535.0	2525.7	2530.3
22.5°	9246.7	7740.1	3951.6	2413.8	2320.6	2347.1	2384.3	2357.9	2249.2	2177.7	2182.4
25°	9165.9	7356.3	3227.7	2232.1	2183.9	2230.5	2219.6	2020.8	1865.5	1795.6	1795.6
27.5°	9094.4	6902.8	2671.6	2073.6	2047.2	2104.7	1912.1	1732.0	1666.7	1634.1	1623.2
30°	9043.2	6413.5	2300.4	1921.4	1918.3	1876.4	1658.9	1609.2	1598.4	1572.0	1562.6
32.5°	9055.7	5918.0	2062.8	1787.8	1798.7	1606.1	1537.8	1548.6	1539.3	1511.3	1498.9
35°	9158.2	5447.4	1907.4	1666.7	1634.1	1450.7	1466.3	1486.4	1483.4	1444.5	1432.1
37.5°	9341.5	5001.6	1804.9	1565.7	1425.9	1373.1	1398.0	1429.1	1421.3	1394.9	1385.5
40°	9534.1	4582.2	1721.0	1486.4	1303.2	1320.3	1342.0	1359.1	1366.9	1374.6	1368.4
42.5°	9722.0	4144.2	1618.5	1405.7	1252.0	1270.6	1279.9	1297.0	1338.9	1368.4	1366.9
45°	9833.8	3732.5	1512.9	1290.8	1211.6	1222.4	1216.2	1250.4	1301.6	1349.8	1351.3
47.5°	9958.1	3412.6	1429.1	1185.2	1172.7	1180.5	1161.9	1196.0	1242.6	1301.6	1307.8
50°	10108.8	3221.5	1362.3	1101.3	1119.9	1119.9	1115.2	1146.3	1211.6	1279.9	1292.3
52.5°	10279.6	3184.2	1306.3	1040.8	1067.1	1065.5	1070.2	1116.9	1188.3	1255.1	1265.9
55°	10487.8	3285.2	1245.7	995.6	1015.9	1022.0	1037.6	1090.4	1151.0	1227.1	1231.7
57.5°	10730.1	3490.2	1197.6	959.9	969.2	989.4	1014.3	1062.4	1127.7	1211.6	1216.2
58°	10770.4	3533.7	1189.8	956.9	959.9	983.3	1011.2	1057.8	1123.0	1214.7	1219.4
60°	10772.0	3678.2	1172.7	942.9	924.2	963.0	994.1	1040.8	1115.2	1225.5	1236.4
62.5°	10389.9	3676.6	1160.3	922.7	886.9	935.1	970.8	1025.2	1107.4	1252.0	1273.7
65°	9148.9	3341.2	1101.3	891.6	857.4	910.2	950.6	1014.3	1129.2	1366.9	1380.9
67.5°	7156.0	2738.4	991.0	848.1	818.6	885.4	938.1	1012.7	1152.6	1393.3	1402.6
70°	4731.4	2048.8	869.8	798.4	778.2	855.9	944.4	1065.5	1126.2	1337.4	1312.5
72.5°	2455.7	1438.4	772.0	736.2	731.6	829.4	1034.5	1059.4	1099.8	1258.1	1227.1
75°	1289.2	998.8	686.5	667.9	675.7	823.3	1220.9	1031.3	1065.5	1203.8	1262.8
77.5°	789.1	806.2	613.6	605.8	621.3	804.6	1219.4	995.6	1015.9	1107.4	1172.7
80°	528.1	654.0	557.6	559.1	570.1	736.2	1095.1	939.8	955.2	1046.9	1113.7
82.5°	334.0	386.8	506.4	532.8	518.8	607.3	930.4	855.9	877.6	1197.6	1265.9
85°	169.3	242.3	439.6	512.6	467.5	425.6	754.9	750.2	761.1	863.6	902.4
87.5°	77.6	133.6	343.3	447.3	352.6	265.7	548.3	556.1	599.6	613.6	613.6
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)