

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: P191782

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191782  
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-04-LED-E1-AFL-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27023 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 258  
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

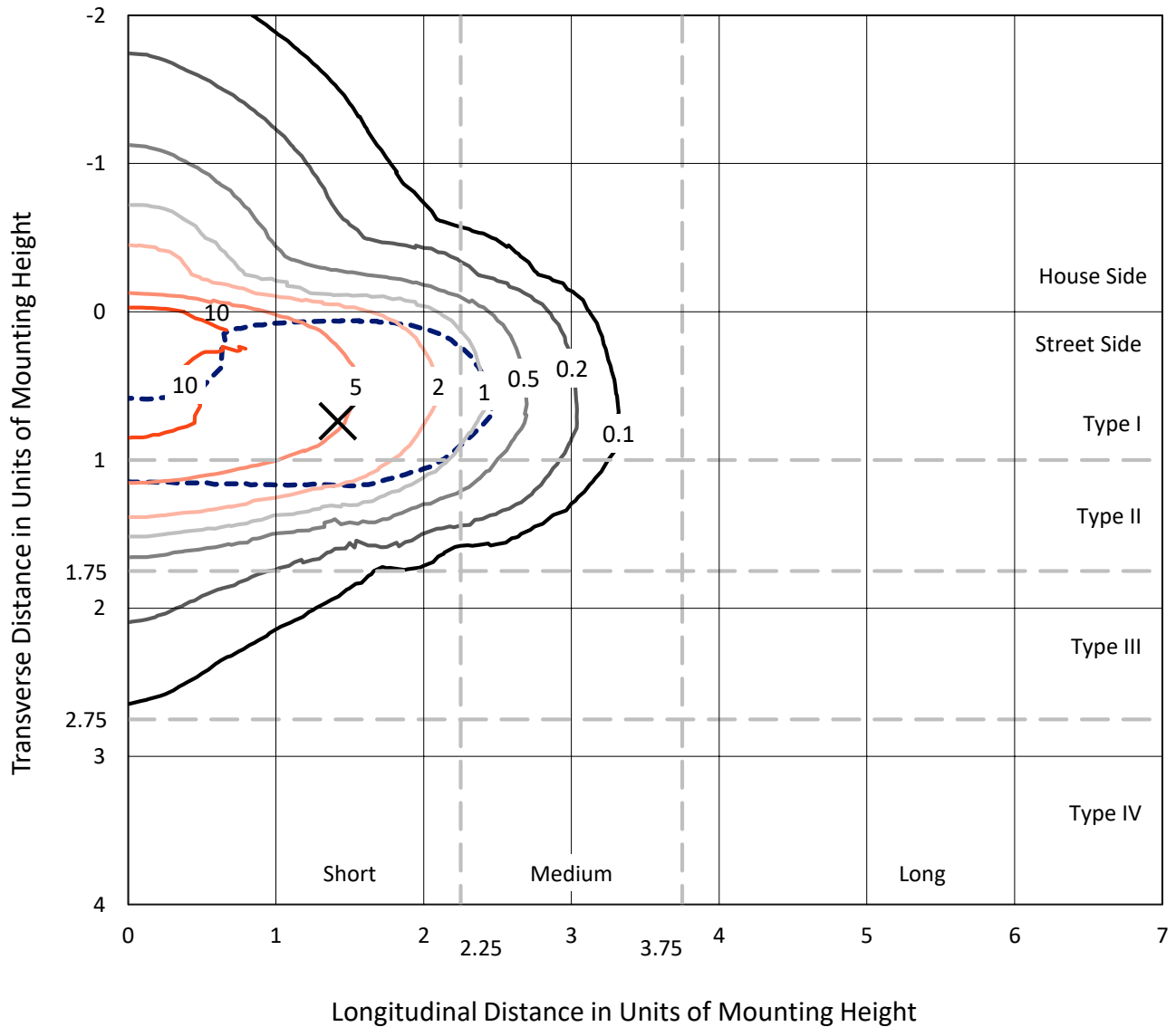


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### Iso-Footcandle Lines of Horizontal Illumination

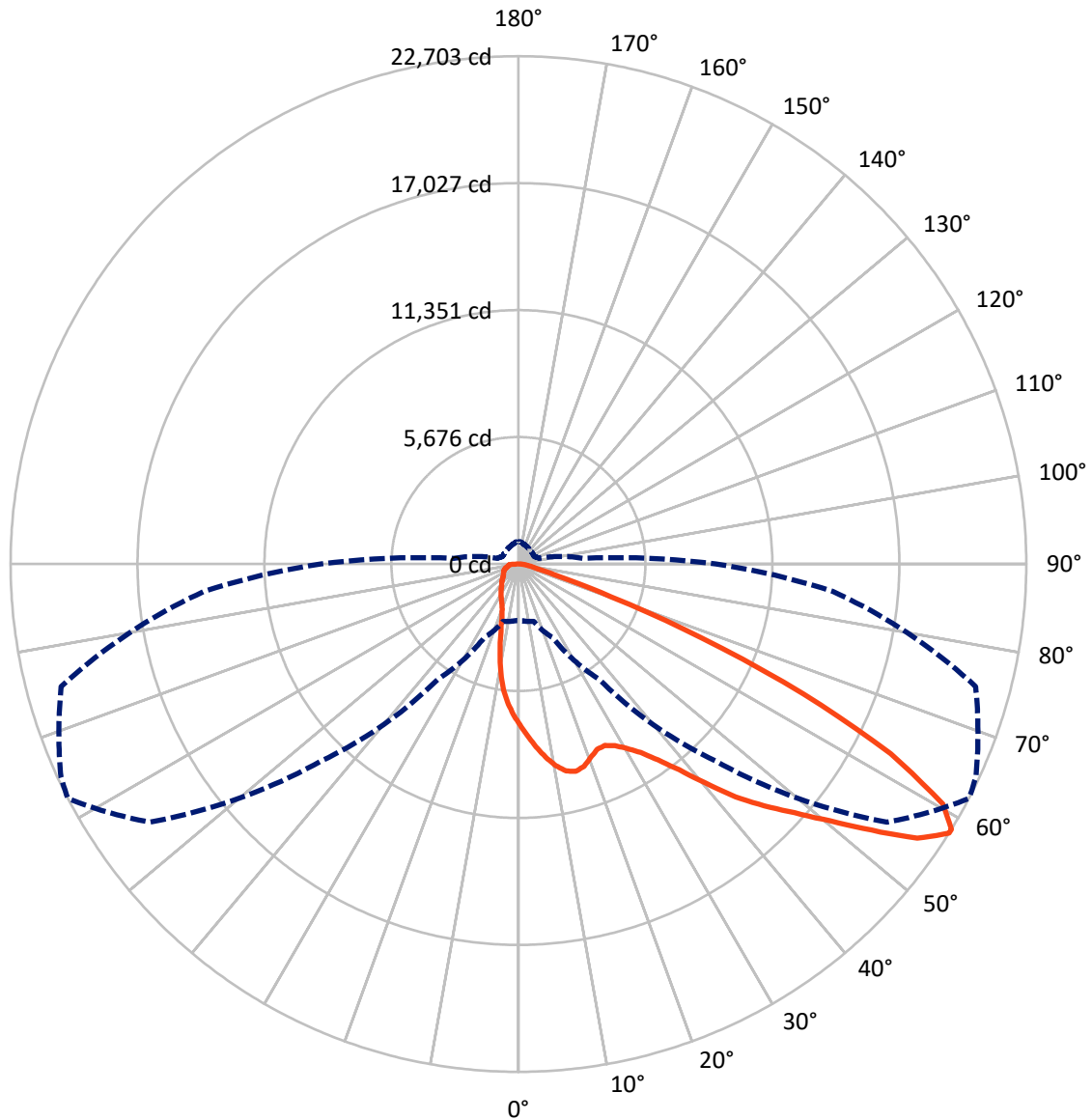
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	4121.1	0.0	4121.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	22901.9	0.0	22901.9
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	27023.0	0.0	27023.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.0	2.4
10°-20°	1641.0	6.1
20°-30°	2652.7	9.8
30°-40°	4211.2	15.6
40°-50°	6161.8	22.8
50°-60°	6444.7	23.8
60°-70°	3807.6	14.1
70°-80°	1072.6	4.0
80°-90°	389.4	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°	27023.0	100.0
0°-180°	27023.0	100.0



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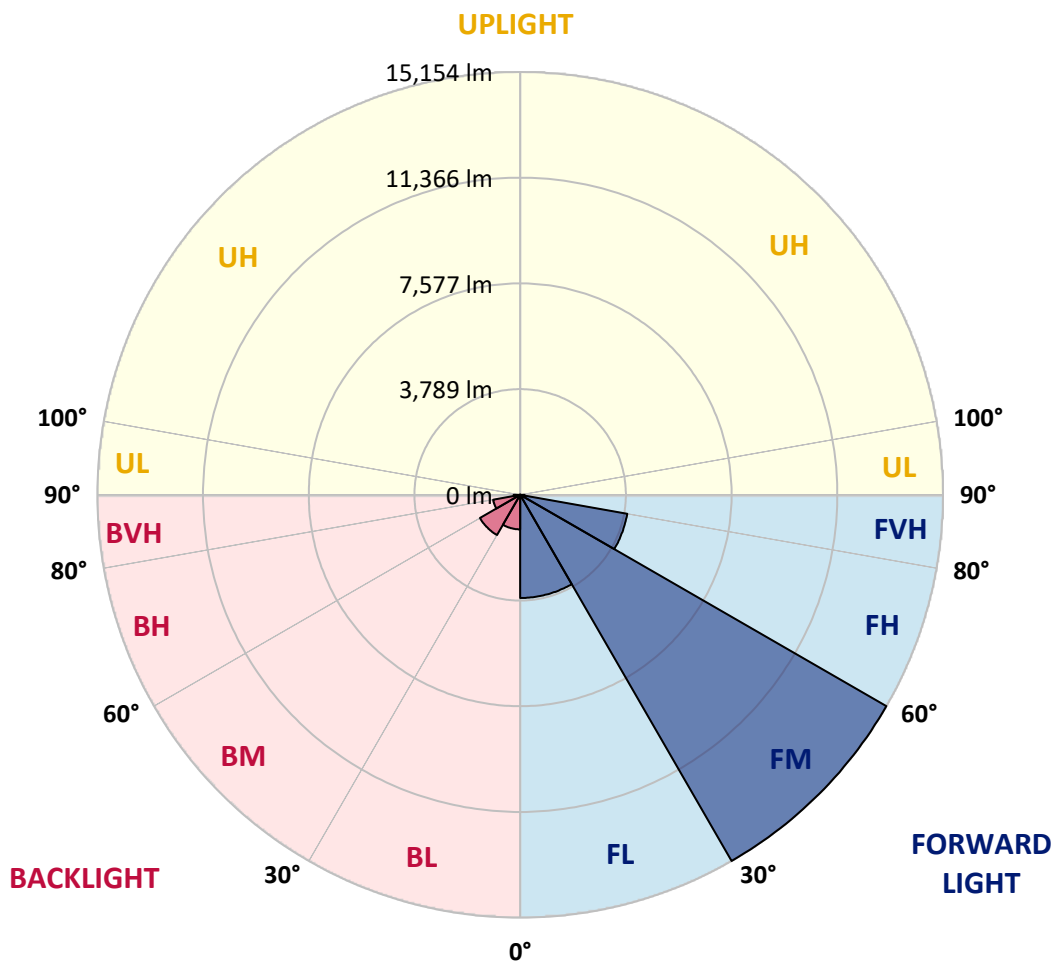
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3697.1	13.7			
FM	(30°-60°)	15154.3	56.1			
FH	(60°-80°)	3896.8	14.4			G2/5000
FVH	(80°-90°)	153.6	0.6			G2/225
BL	(0°-30°)	1238.6	4.6	B3/2500		
BM	(30°-60°)	1663.4	6.2	B2/2500		
BH	(60°-80°)	983.3	3.6	B2/1000		G2/1000
BVH	(80°-90°)	235.8	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°	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1
2.5°	8202.5	8136.3	8094.3	8057.4	8009.0	7906.0	7767.3	7679.5	7634.9	7483.5	7304.1
5°	9006.7	8948.1	8904.9	8855.2	8768.7	8607.1	8383.2	8205.0	8117.2	7814.4	7455.5
7.5°	8818.3	8842.5	8917.6	9048.7	9160.6	9139.0	8939.2	8712.7	8596.9	8175.7	7631.1
10°	7683.3	7725.3	7855.1	8161.7	8658.0	9167.0	9322.3	9165.7	9048.7	8533.3	7811.8
12.5°	7455.5	7454.2	7464.4	7545.9	7841.1	8557.5	9335.0	9492.8	9422.8	8874.3	7996.3
15°	7548.4	7550.9	7543.3	7577.7	7669.3	7953.1	8945.6	9618.7	9668.4	9217.9	8187.2
17.5°	7792.7	7786.4	7757.1	7757.1	7790.2	7900.9	8487.5	9501.7	9730.7	9522.0	8355.2
20°	8202.5	8173.2	8095.6	8024.3	7988.7	8048.5	8299.2	9231.9	9622.6	9788.0	8493.9
22.5°	8698.7	8675.8	8549.9	8397.2	8273.7	8272.5	8395.9	8996.5	9435.5	10038.7	8610.9
25°	9340.1	9303.2	9116.1	8871.8	8655.5	8572.8	8607.1	8985.0	9333.7	10311.0	8715.3
27.5°	10093.4	10025.9	9804.5	9452.0	9133.9	8967.2	8917.6	9192.5	9426.6	10648.2	8860.3
30°	11007.0	10929.4	10645.6	10186.3	9737.1	9463.5	9357.9	9560.2	9734.5	11059.2	9093.2
32.5°	12046.7	11934.7	11606.4	11099.9	10509.5	10092.1	9920.3	10046.3	10185.0	11554.2	9384.6
35°	13483.3	13349.7	12875.0	12176.4	11509.7	10935.8	10660.9	10752.5	10887.4	12292.2	9805.8
37.5°	14463.1	14403.3	14087.7	13431.1	12705.8	12045.4	11620.4	11673.8	11750.2	13214.8	10345.3
40°	14454.2	14478.4	14484.7	14491.1	13997.4	13365.0	12908.1	12852.1	12836.9	14227.7	10958.7
42.5°	13730.2	13829.4	14150.1	14800.3	15100.6	14810.5	14391.8	14230.2	14150.1	15421.3	11608.9
45°	12621.8	12675.3	13275.9	14545.8	15665.6	16242.0	15925.2	15416.2	15271.1	16518.2	12148.5
47.5°	12050.5	12109.0	12486.9	13871.4	15659.2	17398.7	17582.0	16612.3	16352.8	17472.5	12614.2
50°	10690.2	10812.3	11288.2	12698.2	15087.9	17930.6	19313.8	18037.5	17500.5	18401.5	13081.2
52.5°	8192.3	8380.6	8913.8	10769.1	13638.5	17667.2	20699.6	19765.6	19007.2	19363.5	13482.0
55°	5167.6	5307.6	5755.5	7605.7	10910.3	16296.8	21225.1	21634.9	20960.4	20274.6	13829.4
57.5°	2809.7	2872.0	3040.0	4199.2	7096.7	13267.0	20459.1	22698.7	22418.7	21048.2	14091.5
58°	2514.4	2556.4	2660.8	3639.3	6293.7	12438.6	20119.3	22702.5	22562.5	21161.5	14111.9
60°	1865.5	1843.8	1750.9	2076.7	3503.2	8593.1	18065.5	21793.9	22204.9	21300.2	14012.6
62.5°	1639.0	1586.8	1397.2	1375.6	1703.9	3958.7	13823.0	18668.7	19639.6	20508.7	13409.5
65°	1539.7	1483.7	1239.4	1160.5	1229.2	1674.6	8142.7	14001.2	15219.0	18108.8	11867.2
67.5°	1465.9	1393.4	1138.9	1030.7	1035.8	1107.1	3263.9	8818.3	10188.8	13749.2	9230.6
70°	1394.6	1315.8	1053.6	928.9	899.6	875.5	1297.9	4414.3	5657.5	8684.7	5885.3
72.5°	1318.3	1240.7	978.5	848.8	791.5	711.3	847.5	1805.7	2522.1	4108.9	2669.7
75°	1207.6	1137.6	903.5	777.5	696.1	589.2	640.1	942.9	1131.2	1636.4	1286.5
77.5°	1071.4	1014.2	819.5	719.0	617.2	478.5	492.5	654.1	725.3	936.6	764.8
80°	769.9	790.2	729.1	646.4	549.7	388.1	377.9	477.2	515.4	601.9	497.5
82.5°	540.8	552.3	603.2	528.1	454.3	305.4	278.7	335.9	358.8	395.7	268.5
85°	372.8	360.1	413.6	367.7	328.3	203.6	190.9	227.8	241.8	245.6	138.7
87.5°	224.0	224.0	239.2	197.2	176.9	105.6	103.1	129.8	138.7	132.3	76.3
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°	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1	7178.1
2.5°	7197.2	7106.9	6914.7	6760.7	6566.0	6363.7	6250.5	6129.6	6046.9	5987.1	6082.5
5°	7251.9	7067.4	6670.4	6293.7	5877.6	5445.0	5116.7	4811.3	4598.8	4466.4	4591.1
7.5°	7338.4	7054.7	6422.3	5778.4	5031.4	4311.2	3667.3	3263.9	3028.5	2912.7	2985.3
10°	7437.7	7034.3	6130.9	5079.8	4010.9	3103.6	2622.6	2459.7	2406.3	2384.6	2394.8
12.5°	7520.4	6991.1	5773.3	4234.8	3012.0	2450.8	2312.1	2308.3	2319.7	2322.3	2326.1
15°	7578.9	6927.4	5242.7	3354.3	2408.8	2233.2	2225.6	2248.5	2270.1	2279.0	2284.1
17.5°	7618.4	6796.4	4643.3	2651.9	2158.1	2127.6	2145.4	2174.7	2197.6	2204.0	2209.0
20°	7614.6	6604.2	3929.4	2211.6	2022.0	2022.0	2052.5	2075.4	2076.7	2069.1	2072.9
22.5°	7575.1	6340.8	3237.2	1977.4	1901.1	1922.7	1953.3	1931.6	1842.6	1784.0	1787.8
25°	7509.0	6026.5	2644.2	1828.6	1789.1	1827.3	1818.4	1655.5	1528.3	1471.0	1471.0
27.5°	7450.4	5654.9	2188.7	1698.8	1677.1	1724.2	1566.4	1418.8	1365.4	1338.7	1329.8
30°	7408.4	5254.1	1884.6	1574.1	1571.5	1537.2	1359.0	1318.3	1309.4	1287.8	1280.1
32.5°	7418.6	4848.2	1689.9	1464.6	1473.5	1315.8	1259.8	1268.7	1261.0	1238.1	1228.0
35°	7502.6	4462.6	1562.6	1365.4	1338.7	1188.5	1201.2	1217.8	1215.2	1183.4	1173.2
37.5°	7652.7	4097.4	1478.6	1282.7	1168.1	1124.9	1145.2	1170.7	1164.3	1142.7	1135.1
40°	7810.5	3753.8	1409.9	1217.8	1067.6	1081.6	1099.4	1113.4	1119.8	1126.2	1121.1
42.5°	7964.5	3395.0	1325.9	1151.6	1025.6	1040.9	1048.5	1062.5	1096.9	1121.1	1119.8
45°	8056.1	3057.8	1239.4	1057.4	992.5	1001.4	996.4	1024.4	1066.3	1105.8	1107.1
47.5°	8157.9	2795.7	1170.7	970.9	960.7	967.1	951.8	979.8	1018.0	1066.3	1071.4
50°	8281.4	2639.1	1116.0	902.2	917.5	917.5	913.6	939.1	992.5	1048.5	1058.7
52.5°	8421.3	2608.6	1070.2	852.6	874.2	872.9	876.7	914.9	973.5	1028.2	1037.1
55°	8591.8	2691.3	1020.5	815.7	832.2	837.3	850.0	893.3	942.9	1005.3	1009.1
57.5°	8790.4	2859.3	981.1	786.4	794.0	810.6	830.9	870.4	923.8	992.5	996.4
58°	8823.4	2894.9	974.7	783.9	786.4	805.5	828.4	866.6	920.0	995.1	998.9
60°	8824.7	3013.3	960.7	772.4	757.1	788.9	814.4	852.6	913.6	1004.0	1012.9
62.5°	8511.7	3012.0	950.5	755.9	726.6	766.0	795.3	839.8	907.3	1025.6	1043.4
65°	7495.0	2737.1	902.2	730.4	702.4	745.7	778.8	830.9	925.1	1119.8	1131.2
67.5°	5862.4	2243.4	811.8	694.8	670.6	725.3	768.6	829.7	944.2	1141.4	1149.1
70°	3876.0	1678.4	712.6	654.1	637.5	701.1	773.7	872.9	922.6	1095.6	1075.3
72.5°	2011.8	1178.3	632.4	603.2	599.3	679.5	847.5	867.8	900.9	1030.7	1005.3
75°	1056.2	818.2	562.4	547.2	553.5	674.4	1000.2	844.9	872.9	986.2	1034.5
77.5°	646.4	660.4	502.6	496.3	509.0	659.1	998.9	815.7	832.2	907.3	960.7
80°	432.6	535.7	456.8	458.1	467.0	603.2	897.1	769.9	782.6	857.7	912.4
82.5°	273.6	316.8	414.8	436.5	425.0	497.5	762.2	701.1	719.0	981.1	1037.1
85°	138.7	198.5	360.1	419.9	383.0	348.7	618.4	614.6	623.5	707.5	739.3
87.5°	63.6	109.4	281.2	366.5	288.9	217.6	449.2	455.6	491.2	502.6	502.6
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)