

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: P193496

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193496  
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-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26313 lumens  
Efficiency: N/A  
Efficacy: 102.4 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

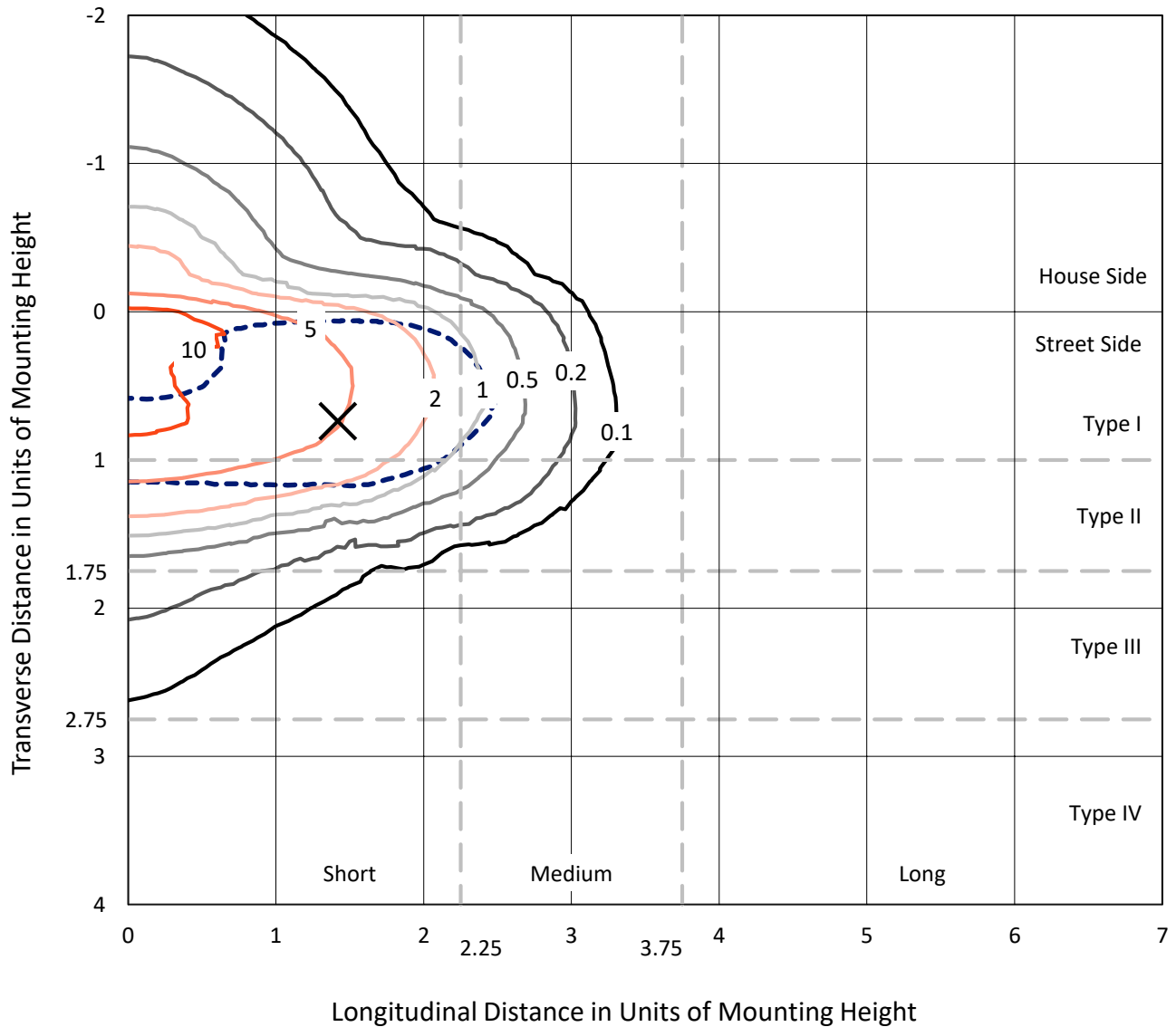


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### Iso-Footcandle Lines of Horizontal Illumination

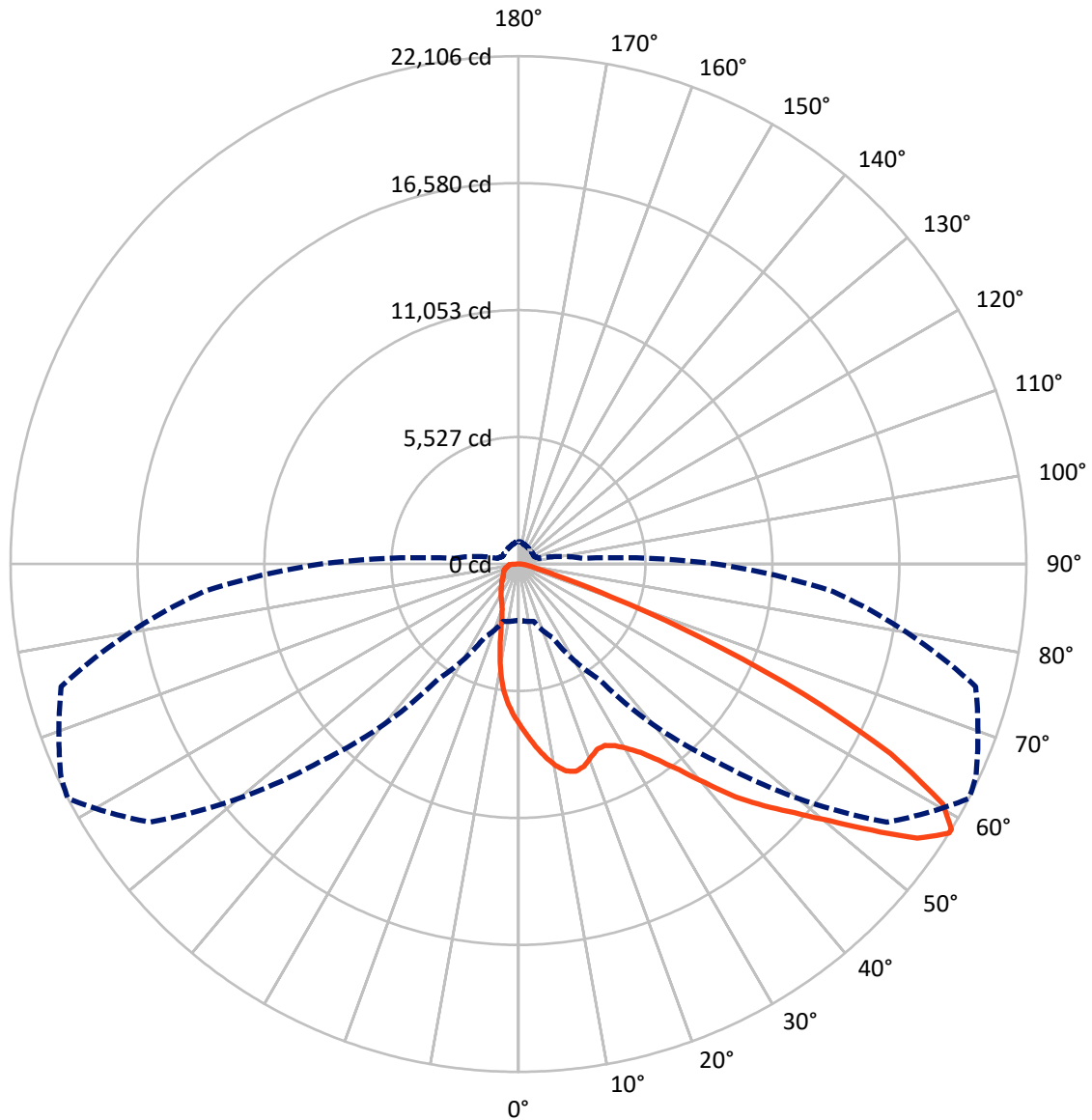
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	4012.8	0.0	4012.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	22300.2	0.0	22300.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	26313.0	0.0	26313.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	625.1	2.4
10°-20°	1597.9	6.1
20°-30°	2583.0	9.8
30°-40°	4100.5	15.6
40°-50°	5999.9	22.8
50°-60°	6275.4	23.8
60°-70°	3707.5	14.1
70°-80°	1044.4	4.0
80°-90°	379.2	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°	26313.0	100.0
0°-180°	26313.0	100.0



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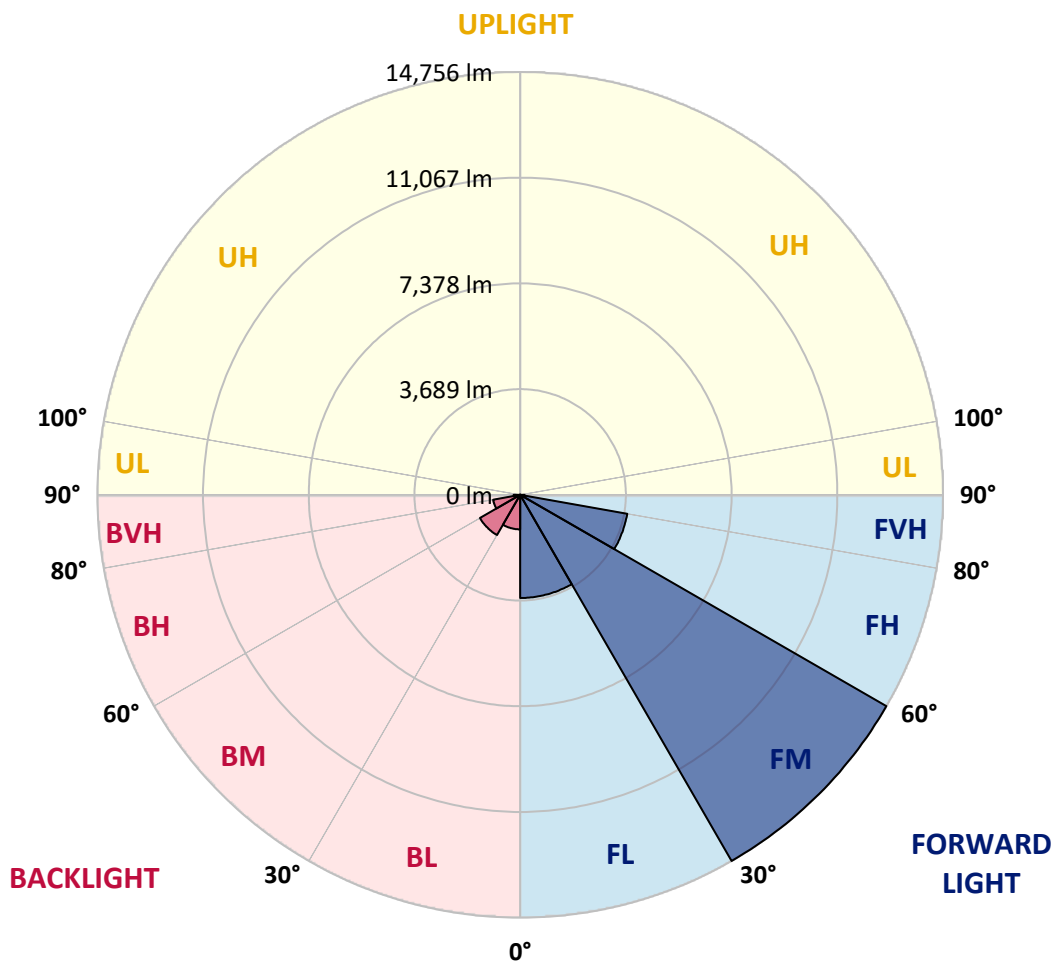
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3599.9	13.7			
FM	(30°-60°)	14756.2	56.1			
FH	(60°-80°)	3794.4	14.4			G2/5000
FVH	(80°-90°)	149.6	0.6			G2/225
BL	(0°-30°)	1206.1	4.6	B3/2500		
BM	(30°-60°)	1619.7	6.2	B2/2500		
BH	(60°-80°)	957.5	3.6	B2/1000		G2/1000
BVH	(80°-90°)	229.6	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°	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5
2.5°	7987.0	7922.5	7881.6	7845.7	7798.6	7698.3	7563.2	7477.7	7434.3	7286.9	7112.2
5°	8770.0	8713.0	8670.9	8622.6	8538.3	8381.0	8162.9	7989.4	7903.9	7609.0	7259.6
7.5°	8586.7	8610.2	8683.3	8810.9	8920.0	8898.9	8704.4	8483.8	8371.1	7960.9	7430.6
10°	7481.4	7522.3	7648.7	7947.3	8430.5	8926.2	9077.3	8924.9	8810.9	8309.1	7606.6
12.5°	7259.6	7258.4	7268.3	7347.6	7635.1	8332.6	9089.7	9243.4	9175.2	8641.2	7786.2
15°	7350.1	7352.6	7345.1	7378.6	7467.8	7744.1	8710.6	9366.0	9414.3	8975.7	7972.1
17.5°	7588.0	7581.8	7553.3	7553.3	7585.5	7693.3	8264.5	9252.0	9475.1	9271.9	8135.6
20°	7987.0	7958.5	7882.9	7813.5	7778.8	7837.0	8081.1	8989.3	9369.7	9530.8	8270.7
22.5°	8470.2	8447.9	8325.2	8176.5	8056.3	8055.1	8175.3	8760.1	9187.6	9774.9	8384.7
25°	9094.7	9058.7	8876.6	8638.7	8428.1	8347.5	8381.0	8749.0	9088.5	10040.1	8486.3
27.5°	9828.2	9762.5	9546.9	9203.7	8893.9	8731.6	8683.3	8950.9	9178.9	10368.4	8627.5
30°	10717.8	10642.2	10365.9	9918.6	9481.3	9214.9	9112.0	9309.0	9478.8	10768.6	8854.3
32.5°	11730.1	11621.1	11301.4	10808.3	10233.4	9826.9	9659.7	9782.3	9917.4	11250.6	9138.0
35°	13129.0	12998.9	12536.8	11856.5	11207.3	10648.4	10380.8	10470.0	10601.4	11969.3	9548.2
37.5°	14083.1	14024.9	13717.6	13078.2	12372.0	11728.9	11315.1	11367.1	11441.4	12867.6	10073.5
40°	14074.4	14098.0	14104.2	14110.4	13629.6	13013.8	12569.0	12514.5	12499.6	13853.9	10670.7
42.5°	13369.4	13466.1	13778.3	14411.5	14703.9	14421.4	14013.7	13856.4	13778.3	15016.1	11303.9
45°	12290.2	12342.2	12927.1	14163.6	15254.0	15815.3	15506.8	15011.2	14869.9	16084.2	11829.3
47.5°	11733.9	11790.9	12158.9	13506.9	15247.8	16941.6	17120.0	16175.9	15923.1	17013.5	12282.8
50°	10409.3	10528.3	10991.7	12364.5	14691.5	17459.5	18806.4	17563.6	17040.7	17918.0	12737.5
52.5°	7977.0	8160.4	8679.6	10486.1	13280.2	17203.0	20155.7	19246.3	18507.8	18854.7	13127.8
55°	5031.8	5168.1	5604.2	7405.8	10623.7	15868.6	20667.4	21066.4	20409.7	19741.9	13466.1
57.5°	2735.8	2796.5	2960.1	4088.9	6910.2	12918.4	19921.5	22102.3	21829.7	20495.2	13721.3
58°	2448.4	2489.3	2590.9	3543.7	6128.4	12111.8	19590.7	22106.0	21969.7	20605.5	13741.1
60°	1816.5	1795.4	1704.9	2022.1	3411.1	8367.3	17590.9	21221.3	21621.5	20740.6	13644.5
62.5°	1595.9	1545.1	1360.5	1339.4	1659.1	3854.7	13459.9	18178.2	19123.6	19969.9	13057.2
65°	1499.3	1444.7	1206.8	1130.0	1196.9	1630.6	7928.7	13633.3	14819.1	17633.0	11555.4
67.5°	1427.4	1356.8	1109.0	1003.6	1008.6	1078.0	3178.2	8586.7	9921.1	13388.0	8988.1
70°	1358.0	1281.2	1025.9	904.5	876.0	852.5	1263.8	4298.3	5508.8	8456.6	5730.6
72.5°	1283.7	1208.1	952.8	826.5	770.7	692.6	825.2	1758.2	2455.8	4000.9	2599.5
75°	1175.9	1107.7	879.7	757.1	677.8	573.7	623.2	918.1	1101.5	1593.4	1252.7
77.5°	1043.3	987.5	798.0	700.1	600.9	465.9	479.5	636.9	706.3	911.9	744.7
80°	749.6	769.5	710.0	629.4	535.3	377.9	368.0	464.6	501.8	586.1	484.5
82.5°	526.6	537.8	587.3	514.2	442.3	297.4	271.4	327.1	349.4	385.3	261.4
85°	363.0	350.7	402.7	358.1	319.7	198.2	185.9	221.8	235.4	239.1	135.1
87.5°	218.1	218.1	232.9	192.1	172.2	102.8	100.4	126.4	135.1	128.9	74.3
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°	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5	6989.5
2.5°	7008.1	6920.1	6733.0	6583.1	6393.5	6196.5	6086.2	5968.5	5888.0	5829.8	5922.7
5°	7061.4	6881.7	6495.1	6128.4	5723.2	5301.9	4982.2	4684.9	4477.9	4349.1	4470.5
7.5°	7145.6	6869.3	6253.5	5626.6	4899.2	4197.9	3571.0	3178.2	2949.0	2836.2	2906.8
10°	7242.3	6849.5	5969.8	4946.3	3905.5	3022.1	2553.7	2395.1	2343.1	2322.0	2331.9
12.5°	7322.8	6807.4	5621.6	4123.6	2932.8	2386.4	2251.4	2247.6	2258.8	2261.3	2265.0
15°	7379.8	6745.4	5104.9	3266.2	2345.5	2174.5	2167.1	2189.4	2210.5	2219.1	2224.1
17.5°	7418.2	6617.8	4521.3	2582.2	2101.4	2071.7	2089.0	2117.5	2139.8	2146.0	2151.0
20°	7414.5	6430.7	3826.2	2153.5	1968.9	1968.9	1998.6	2020.9	2022.1	2014.7	2018.4
22.5°	7376.1	6174.2	3152.2	1925.5	1851.1	1872.2	1902.0	1880.9	1794.2	1737.2	1740.9
25°	7311.7	5868.2	2574.8	1780.5	1742.1	1779.3	1770.6	1612.0	1488.1	1432.3	1432.3
27.5°	7254.7	5506.4	2131.2	1654.1	1633.1	1678.9	1525.3	1381.5	1329.5	1303.5	1294.8
30°	7213.8	5116.1	1835.0	1532.7	1530.2	1496.8	1323.3	1283.7	1275.0	1253.9	1246.5
32.5°	7223.7	4720.8	1645.5	1426.2	1434.8	1281.2	1226.7	1235.3	1227.9	1205.6	1195.7
35°	7305.5	4345.4	1521.6	1329.5	1303.5	1157.3	1169.7	1185.8	1183.3	1152.3	1142.4
37.5°	7451.7	3989.8	1439.8	1249.0	1137.5	1095.3	1115.2	1139.9	1133.7	1112.7	1105.2
40°	7605.3	3655.2	1372.9	1185.8	1039.6	1053.2	1070.5	1084.2	1090.4	1096.6	1091.6
42.5°	7755.2	3305.8	1291.1	1121.3	998.7	1013.5	1021.0	1034.6	1068.1	1091.6	1090.4
45°	7844.5	2977.5	1206.8	1029.7	966.5	975.1	970.2	997.4	1038.3	1076.7	1078.0
47.5°	7943.6	2722.2	1139.9	945.4	935.5	941.7	926.8	954.1	991.2	1038.3	1043.3
50°	8063.8	2569.8	1086.7	878.5	893.4	893.4	889.6	914.4	966.5	1021.0	1030.9
52.5°	8200.1	2540.1	1042.0	830.2	851.2	850.0	853.7	890.9	947.9	1001.2	1009.8
55°	8366.1	2620.6	993.7	794.2	810.3	815.3	827.7	869.8	918.1	978.9	982.6
57.5°	8559.4	2784.2	955.3	765.7	773.2	789.3	809.1	847.5	899.6	966.5	970.2
58°	8591.6	2818.9	949.1	763.3	765.7	784.3	806.6	843.8	895.8	968.9	972.7
60°	8592.9	2934.1	935.5	752.1	737.2	768.2	793.0	830.2	889.6	977.6	986.3
62.5°	8288.0	2932.8	925.6	736.0	707.5	745.9	774.4	817.8	883.4	998.7	1016.0
65°	7298.0	2665.2	878.5	711.2	684.0	726.1	758.3	809.1	900.8	1090.4	1101.5
67.5°	5708.3	2184.5	790.5	676.5	653.0	706.3	748.4	807.9	919.4	1111.4	1118.9
70°	3774.2	1634.3	693.9	636.9	620.8	682.7	753.3	850.0	898.3	1066.8	1047.0
72.5°	1958.9	1147.4	615.8	587.3	583.6	661.7	825.2	845.0	877.3	1003.6	978.9
75°	1028.4	796.7	547.7	532.8	539.0	656.7	973.9	822.7	850.0	960.3	1007.4
77.5°	629.4	643.1	489.4	483.2	495.6	641.8	972.7	794.2	810.3	883.4	935.5
80°	421.3	521.6	444.8	446.1	454.7	587.3	873.5	749.6	762.0	835.1	888.4
82.5°	266.4	308.5	403.9	425.0	413.8	484.5	742.2	682.7	700.1	955.3	1009.8
85°	135.1	193.3	350.7	408.9	373.0	339.5	602.2	598.5	607.1	688.9	719.9
87.5°	62.0	106.6	273.8	356.8	281.3	211.9	437.4	443.6	478.3	489.4	489.4
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)