

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: P193504

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193504
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-06-LED-E1-AFL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24079 lumens
Efficiency: N/A
Efficacy: 96.7 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 - G2

Input Watts (W): 249
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

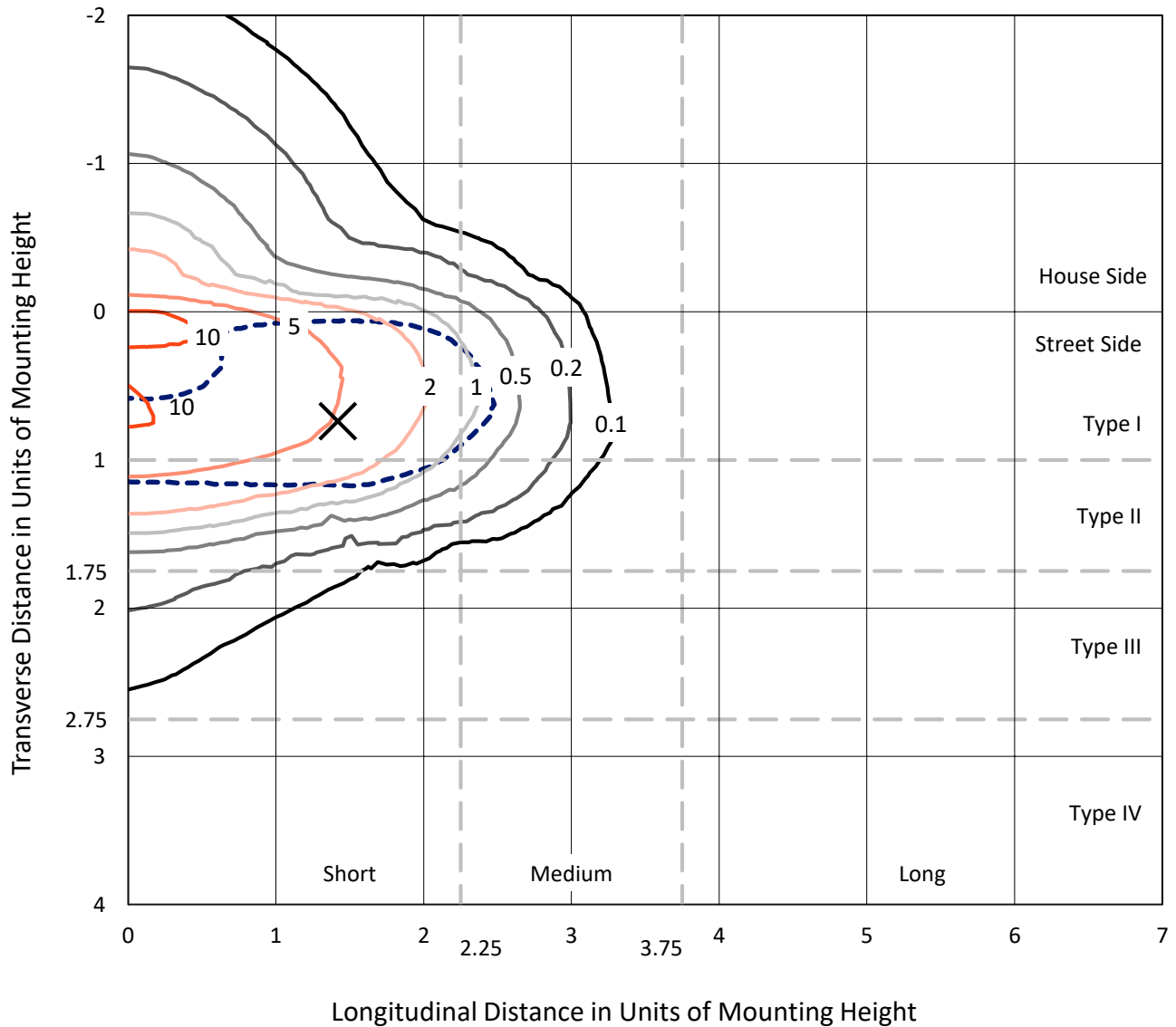


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Iso-Footcandle Lines of Horizontal Illumination

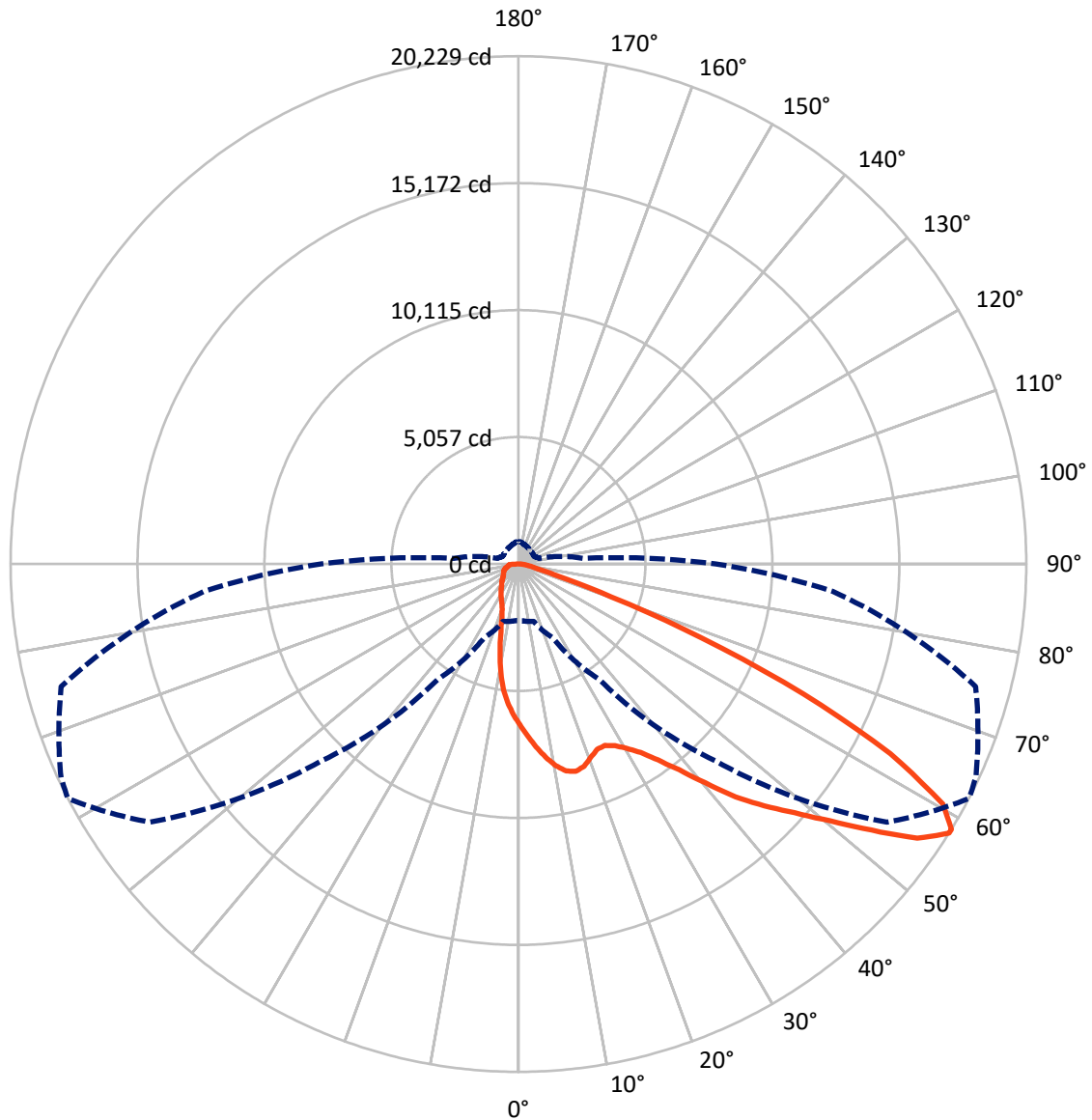
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	3672.1	0.0	3672.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20406.8	0.0	20406.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	24079.0	0.0	24079.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.0	2.4
10°-20°	1462.2	6.1
20°-30°	2363.7	9.8
30°-40°	3752.4	15.6
40°-50°	5490.5	22.8
50°-60°	5742.6	23.8
60°-70°	3392.7	14.1
70°-80°	955.7	4.0
80°-90°	347.0	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°	24079.0	100.0
0°-180°	24079.0	100.0



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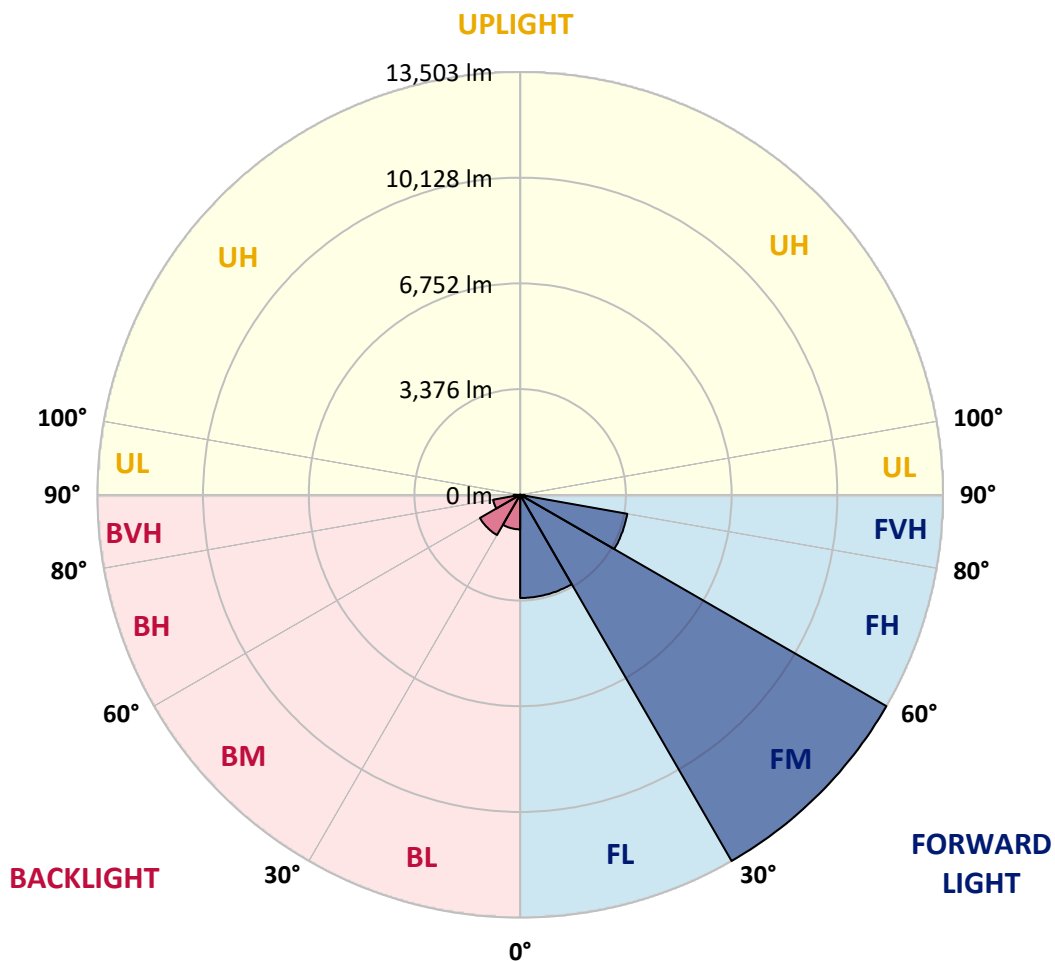
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3294.3	13.7			
FM	(30°-60°)	13503.4	56.1			
FH	(60°-80°)	3472.3	14.4			G2/5000
FVH	(80°-90°)	136.9	0.6			G2/225
BL	(0°-30°)	1103.7	4.6	B3/2500		
BM	(30°-60°)	1482.2	6.2	B2/2500		
BH	(60°-80°)	876.2	3.6	B2/1000		G2/1000
BVH	(80°-90°)	210.1	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1
2.5°	7308.9	7249.9	7212.5	7179.6	7136.5	7044.7	6921.1	6842.8	6803.2	6668.2	6508.3
5°	8025.5	7973.3	7934.7	7890.5	7813.4	7669.4	7469.9	7311.1	7232.9	6963.0	6643.3
7.5°	7857.6	7879.2	7946.1	8062.9	8162.6	8143.4	7965.4	7763.5	7660.3	7285.0	6799.7
10°	6846.2	6883.7	6999.3	7272.6	7714.8	8168.3	8306.6	8167.2	8062.9	7603.7	6960.8
12.5°	6643.3	6642.1	6651.2	6723.8	6986.8	7625.2	8318.0	8458.6	8396.2	7907.5	7125.2
15°	6726.0	6728.3	6721.5	6752.1	6833.8	7086.6	7971.0	8570.8	8615.1	8213.7	7295.2
17.5°	6943.7	6938.1	6912.0	6912.0	6941.5	7040.1	7562.8	8466.5	8670.6	8484.7	7444.9
20°	7308.9	7282.8	7213.6	7150.1	7118.4	7171.7	7395.0	8226.1	8574.2	8721.6	7568.5
22.5°	7751.1	7730.6	7618.4	7482.3	7372.3	7371.2	7481.2	8016.4	8407.6	8945.0	7672.8
25°	8322.5	8289.6	8123.0	7905.3	7712.5	7638.8	7669.4	8006.2	8316.9	9187.7	7765.8
27.5°	8993.8	8933.7	8736.4	8422.3	8138.8	7990.3	7946.1	8191.0	8399.6	9488.1	7895.1
30°	9807.9	9738.7	9485.9	9076.5	8676.3	8432.5	8338.4	8518.7	8674.0	9854.4	8102.6
32.5°	10734.2	10634.5	10341.9	9890.6	9364.5	8992.6	8839.6	8951.8	9075.4	10295.4	8362.2
35°	12014.4	11895.3	11472.4	10849.9	10255.8	9744.4	9499.5	9581.1	9701.3	10953.1	8737.5
37.5°	12887.4	12834.1	12552.9	11967.9	11321.6	10733.1	10354.4	10402.0	10470.0	11775.1	9218.3
40°	12879.5	12901.0	12906.7	12912.4	12472.4	11908.9	11501.9	11452.0	11438.4	12677.7	9764.8
42.5°	12234.3	12322.8	12608.5	13187.9	13455.5	13197.0	12823.9	12679.9	12608.5	13741.2	10344.2
45°	11246.7	11294.4	11829.5	12961.1	13958.9	14472.6	14190.2	13736.7	13607.4	14718.6	10824.9
47.5°	10737.6	10789.8	11126.6	12360.2	13953.3	15503.2	15666.5	14802.5	14571.2	15569.0	11239.9
50°	9525.5	9634.4	10058.5	11314.8	13444.2	15977.2	17209.7	16072.4	15594.0	16396.7	11656.1
52.5°	7299.8	7467.6	7942.7	9595.8	12152.7	15742.5	18444.5	17612.2	16936.4	17253.9	12013.2
55°	4604.6	4729.3	5128.4	6777.1	9721.7	14521.3	18912.8	19277.9	18676.9	18065.8	12322.8
57.5°	2503.6	2559.1	2708.8	3741.7	6323.5	11821.6	18230.2	20225.8	19976.3	18755.2	12556.3
58°	2240.5	2277.9	2370.9	3242.8	5608.1	11083.5	17927.4	20229.2	20104.4	18856.1	12574.5
60°	1662.2	1643.0	1560.2	1850.5	3121.5	7656.9	16097.4	19419.6	19785.8	18979.7	12486.1
62.5°	1460.4	1413.9	1245.0	1225.7	1518.2	3527.4	12317.1	16634.8	17500.0	18274.4	11948.6
65°	1372.0	1322.1	1104.4	1034.1	1095.3	1492.2	7255.6	12475.8	13560.9	16135.9	10574.4
67.5°	1306.2	1241.6	1014.8	918.4	923.0	986.5	2908.3	7857.6	9078.8	12251.3	8225.0
70°	1242.7	1172.4	938.8	827.7	801.6	780.1	1156.5	3933.4	5041.1	7738.6	5244.1
72.5°	1174.7	1105.5	871.9	756.3	705.3	633.8	755.1	1608.9	2247.3	3661.2	2378.8
75°	1076.0	1013.7	805.0	692.8	620.2	525.0	570.3	840.2	1008.0	1458.1	1146.3
77.5°	954.7	903.7	730.2	640.6	549.9	426.3	438.8	582.8	646.3	834.5	681.4
80°	686.0	704.1	649.7	576.0	489.8	345.8	336.8	425.2	459.2	536.3	443.3
82.5°	481.9	492.1	537.4	470.6	404.8	272.1	248.3	299.3	319.7	352.6	239.2
85°	332.2	320.9	368.5	327.7	292.5	181.4	170.1	203.0	215.4	218.8	123.6
87.5°	199.6	199.6	213.2	175.7	157.6	94.1	91.8	115.7	123.6	117.9	68.0
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°	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1
2.5°	6413.1	6332.6	6161.4	6024.2	5850.7	5670.4	5569.5	5461.8	5388.1	5334.8	5419.8
5°	6461.9	6297.5	5943.7	5608.1	5237.3	4851.8	4559.2	4287.1	4097.8	3979.8	4091.0
7.5°	6539.0	6286.1	5722.6	5148.9	4483.3	3841.5	3267.8	2908.3	2698.6	2595.4	2660.0
10°	6627.4	6268.0	5462.9	4526.4	3573.9	2765.5	2336.9	2191.7	2144.1	2124.9	2133.9
12.5°	6701.1	6229.4	5144.3	3773.5	2683.8	2183.8	2060.2	2056.8	2067.0	2069.3	2072.7
15°	6753.3	6172.7	4671.5	2988.9	2146.4	1989.9	1983.1	2003.5	2022.8	2030.7	2035.3
17.5°	6788.4	6055.9	4137.4	2363.0	1923.0	1895.8	1911.7	1937.8	1958.2	1963.8	1968.4
20°	6785.0	5884.7	3501.4	1970.6	1801.7	1801.7	1828.9	1849.3	1850.5	1843.7	1847.1
22.5°	6749.9	5650.0	2884.5	1762.0	1694.0	1713.3	1740.5	1721.2	1641.8	1589.7	1593.1
25°	6690.9	5370.0	2356.2	1629.4	1594.2	1628.2	1620.3	1475.1	1361.8	1310.7	1310.7
27.5°	6638.7	5038.9	1950.2	1513.7	1494.4	1536.4	1395.8	1264.3	1216.6	1192.8	1184.9
30°	6601.3	4681.7	1679.2	1402.6	1400.3	1369.7	1211.0	1174.7	1166.7	1147.5	1140.7
32.5°	6610.4	4320.0	1505.8	1305.1	1313.0	1172.4	1122.5	1130.5	1123.7	1103.2	1094.2
35°	6685.2	3976.4	1392.4	1216.6	1192.8	1059.0	1070.4	1085.1	1082.8	1054.5	1045.4
37.5°	6819.0	3651.0	1317.5	1142.9	1040.9	1002.3	1020.5	1043.1	1037.5	1018.2	1011.4
40°	6959.6	3344.9	1256.3	1085.1	951.3	963.8	979.7	992.1	997.8	1003.5	998.9
42.5°	7096.8	3025.1	1181.5	1026.1	913.9	927.5	934.3	946.8	977.4	998.9	997.8
45°	7178.5	2724.7	1104.4	942.2	884.4	892.3	887.8	912.8	950.2	985.3	986.5
47.5°	7269.2	2491.1	1043.1	865.1	856.1	861.7	848.1	873.1	907.1	950.2	954.7
50°	7379.2	2351.6	994.4	803.9	817.5	817.5	814.1	836.8	884.4	934.3	943.4
52.5°	7503.9	2324.4	953.6	759.7	779.0	777.8	781.2	815.2	867.4	916.2	924.1
55°	7655.8	2398.1	909.4	726.8	741.5	746.1	757.4	796.0	840.2	895.7	899.1
57.5°	7832.7	2547.8	874.2	700.7	707.5	722.3	740.4	775.6	823.2	884.4	887.8
58°	7862.2	2579.5	868.5	698.5	700.7	717.7	738.1	772.2	819.8	886.7	890.1
60°	7863.3	2685.0	856.1	688.3	674.6	703.0	725.7	759.7	814.1	894.6	902.6
62.5°	7584.4	2683.8	847.0	673.5	647.4	682.6	708.7	748.3	808.4	913.9	929.8
65°	6678.4	2438.9	803.9	650.8	625.9	664.4	693.9	740.4	824.3	997.8	1008.0
67.5°	5223.7	1999.0	723.4	619.1	597.5	646.3	684.9	739.3	841.3	1017.1	1023.9
70°	3453.7	1495.6	635.0	582.8	568.1	624.8	689.4	777.8	822.0	976.3	958.1
72.5°	1792.6	1050.0	563.5	537.4	534.0	605.5	755.1	773.3	802.8	918.4	895.7
75°	941.1	729.1	501.2	487.6	493.2	600.9	891.2	752.9	777.8	878.7	921.8
77.5°	576.0	588.5	447.9	442.2	453.5	587.3	890.1	726.8	741.5	808.4	856.1
80°	385.5	477.4	407.1	408.2	416.1	537.4	799.4	686.0	697.3	764.2	813.0
82.5°	243.8	282.3	369.6	388.9	378.7	443.3	679.2	624.8	640.6	874.2	924.1
85°	123.6	176.9	320.9	374.2	341.3	310.7	551.1	547.7	555.6	630.4	658.8
87.5°	56.7	97.5	250.6	326.6	257.4	193.9	400.3	405.9	437.7	447.9	447.9
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)