

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: P190964

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190964
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30186.2 lumens
Efficiency: N/A
Efficacy: 121.2 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): 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

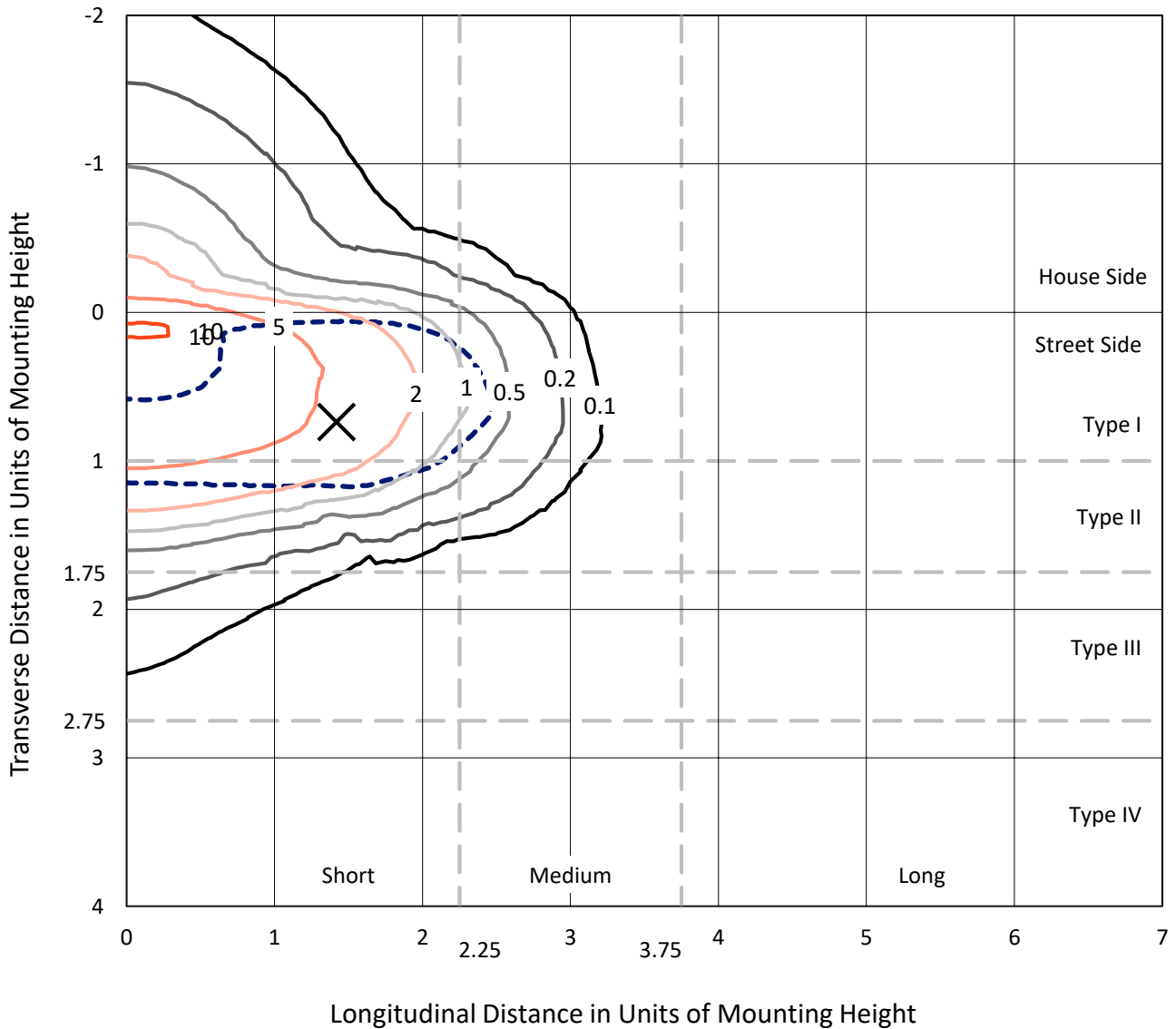


REPORT NUMBER: P190964

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-800

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

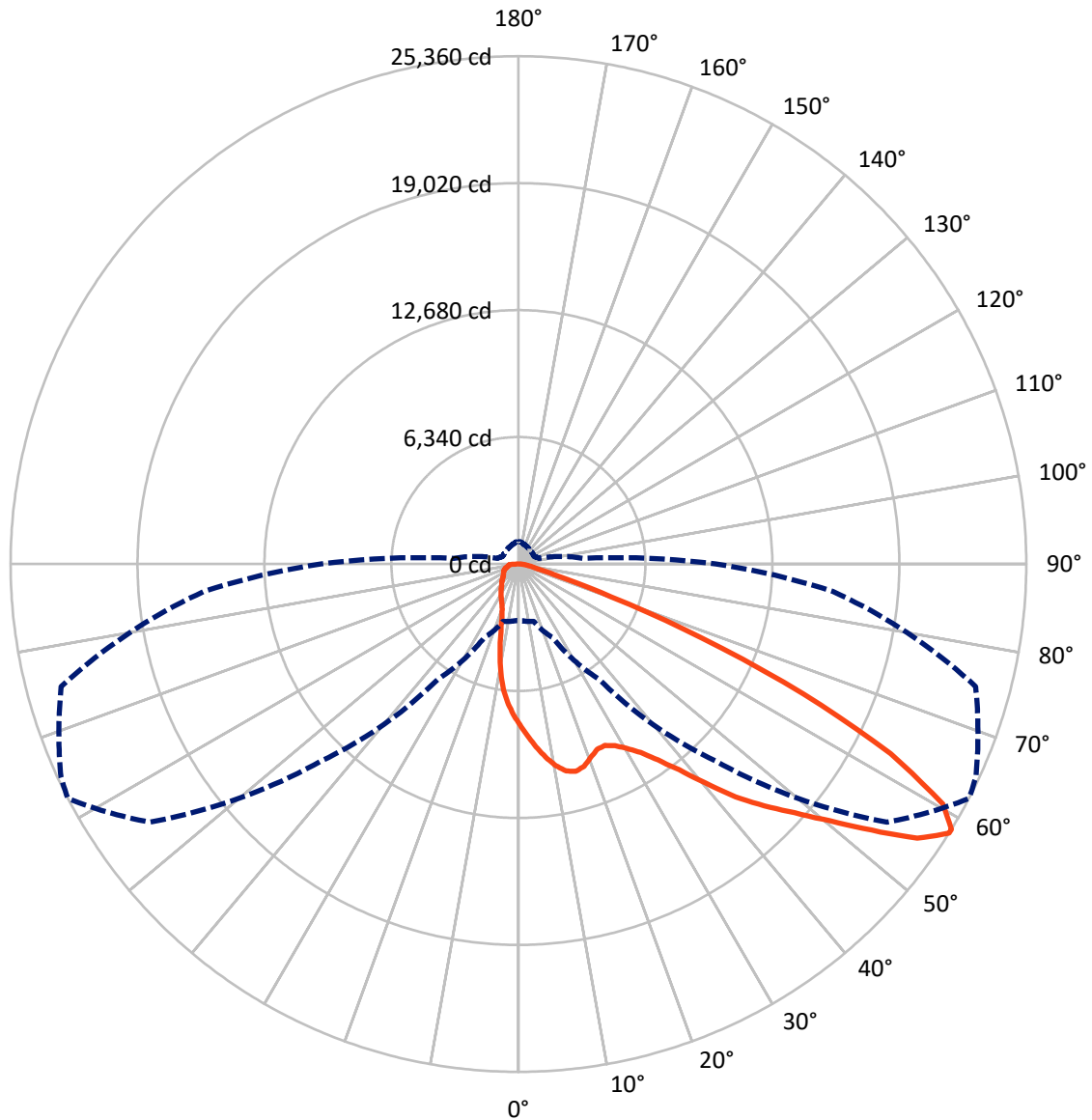


Based on 30 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P190964

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-800

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P190964

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4603.5	0.0	4603.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	25582.7	0.0	25582.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	30186.2	0.0	30186.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.1	2.4
10°-20°	1833.1	6.1
20°-30°	2963.2	9.8
30°-40°	4704.1	15.6
40°-50°	6883.1	22.8
50°-60°	7199.1	23.8
60°-70°	4253.3	14.1
70°-80°	1198.2	4.0
80°-90°	435.0	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°	30186.2	100.0
0°-180°	30186.2	100.0



REPORT NUMBER: P190964

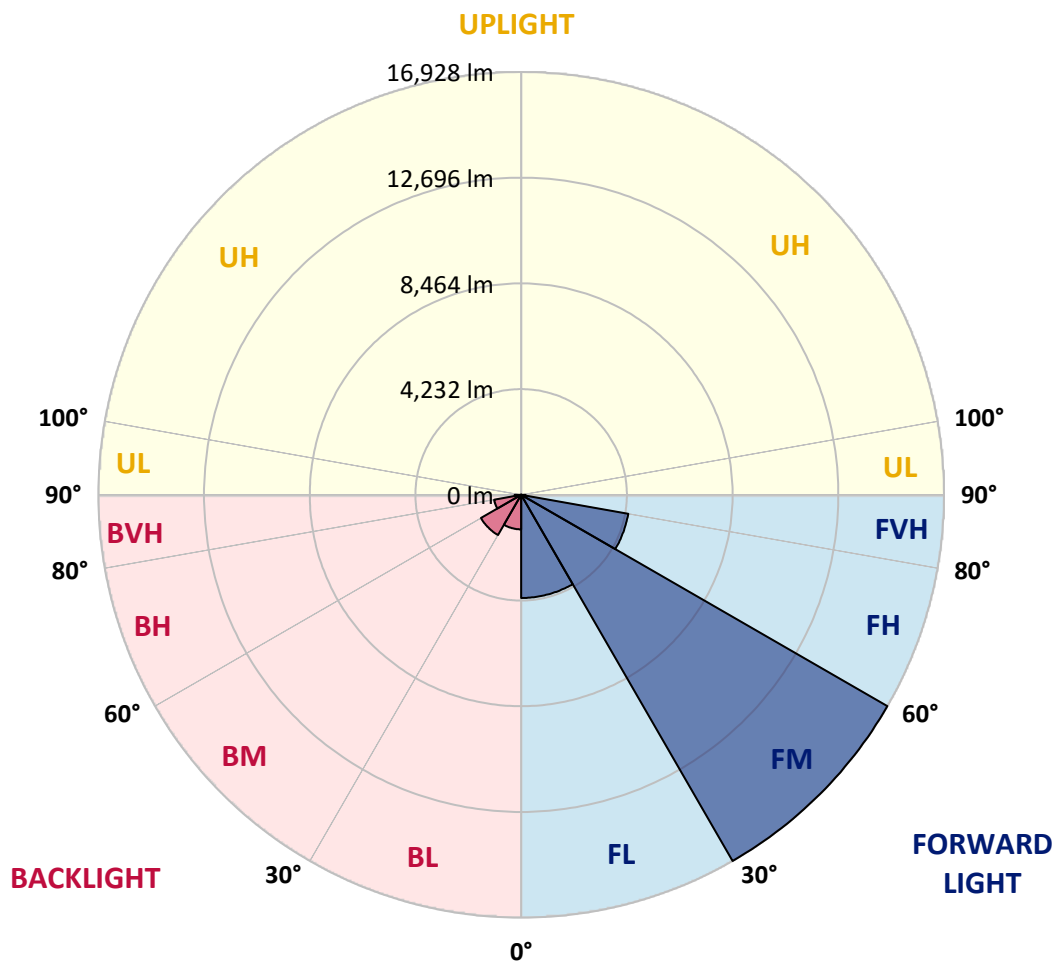
CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4129.9	13.7			
FM (30°-60°)	16928.3	56.1			
FH (60°-80°)	4353.0	14.4			G2/5000
FVH (80°-90°)	171.6	0.6			G2/225
BL (0°-30°)	1383.6	4.6	B3/2500		
BM (30°-60°)	1858.1	6.2	B2/2500		
BH (60°-80°)	1098.4	3.6	B3/2500		G3/2500
BVH (80°-90°)	263.4	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





REPORT NUMBER: P190964

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4
2.5°	9162.7	9088.7	9041.8	9000.5	8946.5	8831.4	8676.5	8578.4	8528.6	8359.6	8159.1
5°	10061.0	9995.6	9947.3	9891.8	9795.2	9614.6	9364.5	9165.4	9067.4	8729.0	8328.3
7.5°	9850.6	9877.6	9961.5	10107.9	10233.0	10208.8	9985.6	9732.7	9603.3	9132.8	8524.4
10°	8582.7	8629.6	8774.6	9117.2	9671.5	10240.0	10413.5	10238.6	10107.9	9532.2	8726.3
12.5°	8328.3	8326.8	8338.2	8429.1	8758.9	9559.2	10427.8	10604.0	10525.8	9913.1	8932.3
15°	8432.0	8434.8	8426.4	8464.7	8567.0	8884.0	9992.8	10744.7	10800.1	10296.9	9145.6
17.5°	8704.9	8697.8	8665.1	8665.1	8702.0	8825.7	9481.0	10613.9	10869.8	10636.6	9333.2
20°	9162.7	9129.9	9043.2	8963.6	8923.8	8990.6	9270.7	10312.6	10749.0	10933.7	9488.2
22.5°	9717.0	9691.4	9550.7	9380.2	9242.3	9240.8	9378.7	10049.6	10540.0	11213.8	9618.9
25°	10433.4	10392.2	10183.3	9910.3	9668.6	9576.3	9614.6	10036.8	10426.3	11517.9	9735.4
27.5°	11274.9	11199.6	10952.2	10558.5	10203.1	10016.9	9961.5	10268.5	10530.1	11894.7	9897.6
30°	12295.5	12208.8	11891.8	11378.7	10876.9	10571.3	10453.3	10679.3	10874.1	12353.8	10157.6
32.5°	13456.8	13331.7	12965.0	12399.3	11739.7	11273.4	11081.6	11222.3	11377.3	12906.7	10483.1
35°	15061.6	14912.4	14382.2	13601.8	12857.0	12215.9	11908.9	12011.2	12161.9	13731.2	10953.7
37.5°	16156.2	16089.3	15736.8	15003.3	14193.1	13455.4	12980.6	13040.4	13125.6	14761.7	11556.4
40°	16146.2	16173.2	16180.3	16187.4	15635.9	14929.5	14419.1	14356.6	14339.5	15893.2	12241.4
42.5°	15337.4	15448.3	15806.4	16532.8	16868.3	16544.2	16076.5	15896.0	15806.4	17226.5	12967.8
45°	14099.3	14159.0	14829.9	16248.6	17499.4	18143.3	17789.3	17220.8	17058.7	18451.8	13570.6
47.5°	13461.1	13526.5	13948.7	15495.1	17492.3	19435.3	19640.0	18556.9	18266.9	19517.8	14090.7
50°	11941.5	12078.0	12609.6	14184.5	16854.0	20029.6	21574.6	20149.0	19549.1	20555.5	14612.4
52.5°	9151.2	9361.6	9957.2	12029.7	15235.0	19735.3	23122.6	22079.3	21232.1	21630.1	15060.2
55°	5772.5	5928.8	6429.1	8496.0	12187.4	18204.4	23709.6	24167.4	23414.0	22647.8	15448.3
57.5°	3138.5	3208.2	3395.8	4690.7	7927.4	14820.0	22853.9	25355.7	25043.0	23512.1	15741.1
58°	2808.8	2855.7	2972.3	4065.3	7030.4	13894.6	22474.4	25360.0	25203.7	23638.7	15763.8
60°	2083.9	2059.7	1955.9	2319.7	3913.2	9599.0	20180.3	24345.1	24804.2	23793.5	15653.0
62.5°	1830.8	1772.6	1560.7	1536.6	1903.3	4422.1	15441.1	20854.0	21938.6	22909.4	14979.2
65°	1720.0	1657.4	1384.5	1296.4	1373.1	1870.7	9095.8	15640.1	17000.4	20228.5	13256.4
67.5°	1637.5	1556.5	1272.1	1151.3	1157.1	1236.6	3646.0	9850.6	11381.5	15358.7	10311.1
70°	1557.9	1469.8	1176.9	1037.7	1004.9	977.9	1449.8	4931.0	6319.7	9701.4	6574.2
72.5°	1472.6	1385.9	1093.1	948.1	884.1	794.6	946.6	2017.1	2817.3	4589.9	2982.2
75°	1349.0	1270.8	1009.2	868.5	777.5	658.2	714.9	1053.3	1263.7	1828.0	1437.0
77.5°	1196.9	1132.9	915.4	803.1	689.4	534.5	550.1	730.6	810.2	1046.2	854.3
80°	860.0	882.7	814.5	722.1	614.1	433.5	422.2	533.1	575.7	672.4	555.8
82.5°	604.2	616.9	673.7	589.9	507.5	341.2	311.3	375.2	400.9	442.1	299.9
85°	416.4	402.2	462.0	410.8	366.7	227.4	213.2	254.4	270.1	274.4	155.0
87.5°	250.2	250.2	267.2	220.3	197.5	117.9	115.2	145.0	155.0	147.8	85.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P190964

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4
2.5°	8039.7	7938.7	7724.1	7552.1	7334.7	7108.7	6982.2	6847.1	6754.7	6687.8	6794.5
5°	8100.8	7894.7	7451.2	7030.4	6565.6	6082.4	5715.6	5374.5	5137.1	4989.2	5128.6
7.5°	8197.4	7880.5	7174.1	6454.8	5620.4	4815.8	4096.6	3646.0	3383.0	3253.7	3334.7
10°	8308.3	7857.7	6848.6	5674.4	4480.4	3466.9	2929.6	2747.6	2687.9	2663.8	2675.1
12.5°	8400.8	7809.4	6449.1	4730.5	3364.6	2737.7	2582.7	2578.4	2591.3	2594.1	2598.4
15°	8466.1	7738.3	5856.4	3747.0	2690.8	2494.7	2486.1	2511.7	2535.9	2545.8	2551.4
17.5°	8510.2	7591.9	5186.9	2962.3	2410.8	2376.6	2396.6	2429.2	2454.9	2461.9	2467.7
20°	8505.9	7377.3	4389.4	2470.4	2258.7	2258.7	2292.7	2318.4	2319.7	2311.3	2315.6
22.5°	8461.8	7083.0	3616.1	2209.0	2123.6	2147.8	2182.0	2157.7	2058.3	1992.9	1997.1
25°	8387.9	6731.9	2953.8	2042.6	1998.5	2041.2	2031.3	1849.3	1707.2	1643.2	1643.2
27.5°	8322.5	6316.9	2444.9	1897.7	1873.4	1926.0	1749.8	1585.0	1525.2	1495.3	1485.4
30°	8275.7	5869.2	2105.1	1758.4	1755.5	1717.1	1518.1	1472.6	1462.6	1438.5	1430.0
32.5°	8287.0	5415.7	1887.7	1636.1	1646.0	1469.8	1407.3	1417.2	1408.6	1383.0	1371.7
35°	8380.8	4985.0	1745.6	1525.2	1495.3	1327.6	1341.8	1360.3	1357.5	1322.0	1310.6
37.5°	8548.6	4577.1	1651.8	1432.8	1304.9	1256.6	1279.3	1307.7	1300.6	1276.4	1267.9
40°	8724.8	4193.3	1574.9	1360.3	1192.6	1208.2	1228.2	1243.8	1250.9	1258.0	1252.3
42.5°	8896.8	3792.4	1481.1	1286.4	1145.7	1162.8	1171.3	1186.9	1225.3	1252.3	1250.9
45°	8999.2	3415.7	1384.5	1181.2	1108.8	1118.7	1113.0	1144.3	1191.1	1235.2	1236.6
47.5°	9112.9	3122.9	1307.7	1084.5	1073.2	1080.3	1063.3	1094.6	1137.1	1191.1	1196.9
50°	9250.7	2948.0	1246.6	1007.8	1024.9	1024.9	1020.6	1049.0	1108.8	1171.3	1182.6
52.5°	9407.2	2914.0	1195.4	952.4	976.5	975.1	979.4	1022.0	1087.4	1148.6	1158.5
55°	9597.6	3006.4	1140.0	911.1	929.7	935.3	949.5	997.9	1053.3	1122.9	1127.2
57.5°	9819.3	3194.0	1095.9	878.4	887.0	905.4	928.2	972.3	1032.0	1108.8	1113.0
58°	9856.3	3233.8	1088.8	875.6	878.4	899.8	925.4	968.0	1027.7	1111.5	1115.8
60°	9857.7	3366.0	1073.2	862.9	845.8	881.3	909.7	952.4	1020.6	1121.6	1131.5
62.5°	9508.0	3364.6	1061.8	844.3	811.6	855.7	888.4	938.1	1013.5	1145.7	1165.6
65°	8372.3	3057.5	1007.8	815.9	784.6	833.0	869.9	928.2	1033.4	1250.9	1263.7
67.5°	6548.6	2506.0	906.8	776.1	749.1	810.2	858.6	926.8	1054.7	1275.0	1283.6
70°	4329.7	1874.9	796.0	730.6	712.2	783.2	864.2	975.1	1030.5	1223.9	1201.1
72.5°	2247.3	1316.2	706.4	673.7	669.5	759.0	946.6	969.5	1006.4	1151.3	1122.9
75°	1179.8	914.0	628.3	611.2	618.4	753.4	1117.3	943.9	975.1	1101.6	1155.6
77.5°	722.1	737.8	561.5	554.3	568.6	736.3	1115.8	911.1	929.7	1013.5	1073.2
80°	483.2	598.4	510.2	511.7	521.7	673.7	1002.1	860.0	874.2	958.1	1019.2
82.5°	305.7	353.9	463.4	487.5	474.8	555.8	851.4	783.2	803.1	1095.9	1158.5
85°	155.0	221.8	402.2	469.1	427.9	389.4	690.8	686.6	696.5	790.3	825.8
87.5°	71.1	122.2	314.1	409.4	322.6	243.1	501.8	508.9	548.7	561.5	561.5
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)