

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: P191757

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191757
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-09-LED-E1-AFL-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35969 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 290
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

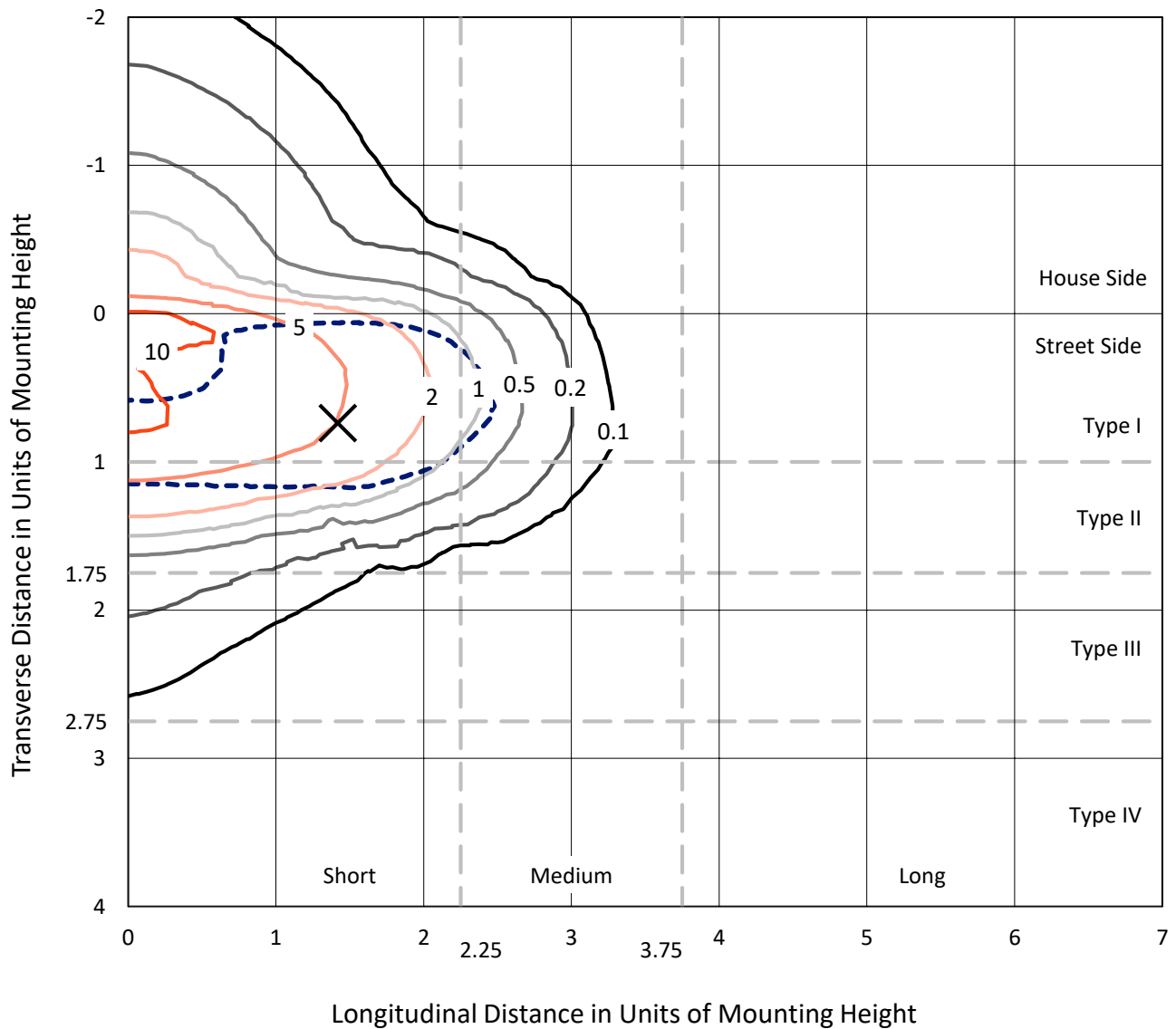


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Iso-Footcandle Lines of Horizontal Illumination

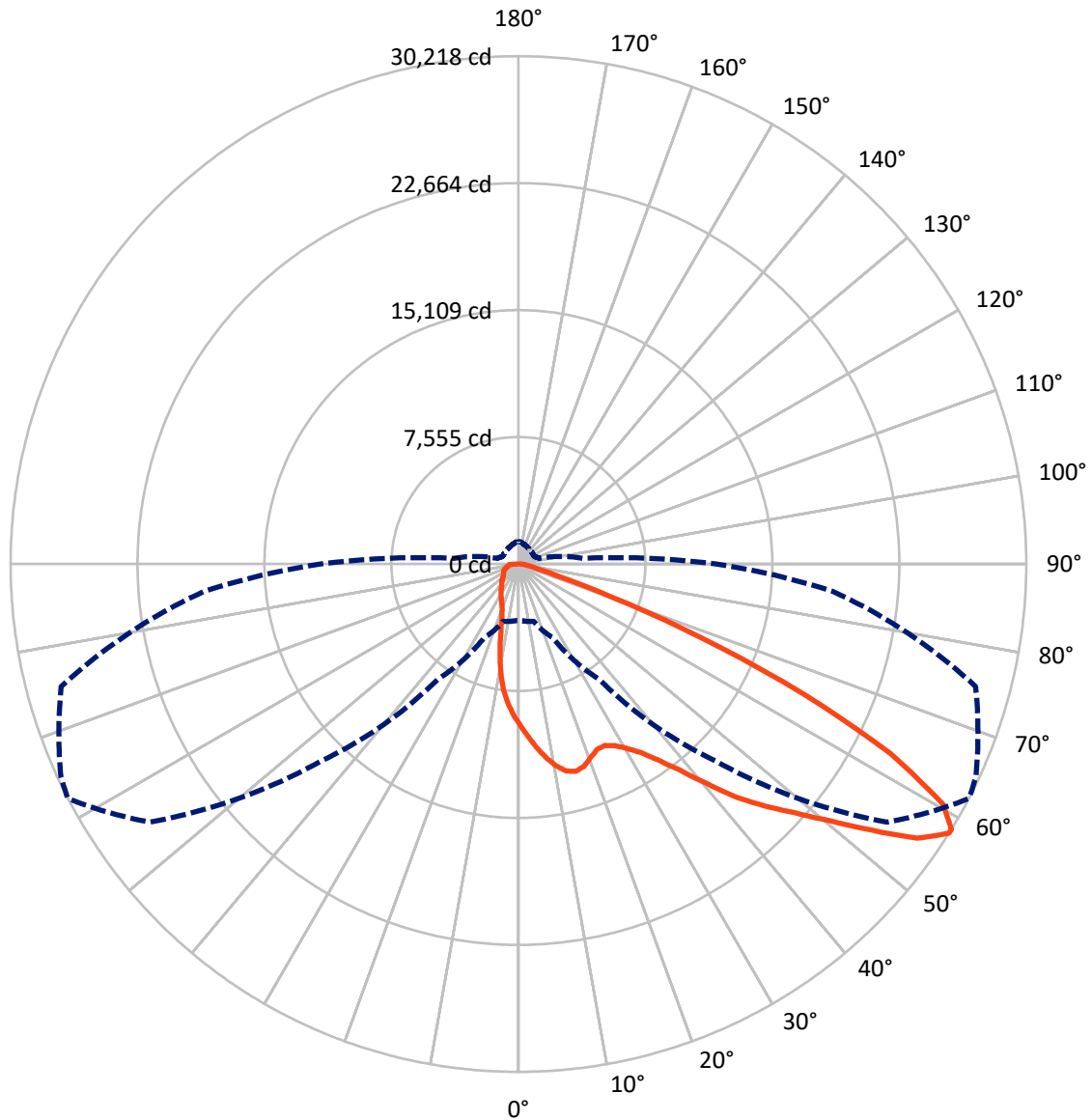
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 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
House Side	Lumens	5485.4	0.0	5485.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	30483.6	0.0	30483.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	35969.0	0.0	35969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.5	2.4
10°-20°	2184.2	6.1
20°-30°	3530.9	9.8
30°-40°	5605.3	15.6
40°-50°	8201.7	22.8
50°-60°	8578.3	23.8
60°-70°	5068.1	14.1
70°-80°	1427.7	4.0
80°-90°	518.3	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°	35969.0	100.0
0°-180°	35969.0	100.0

Coefficient of Utilization



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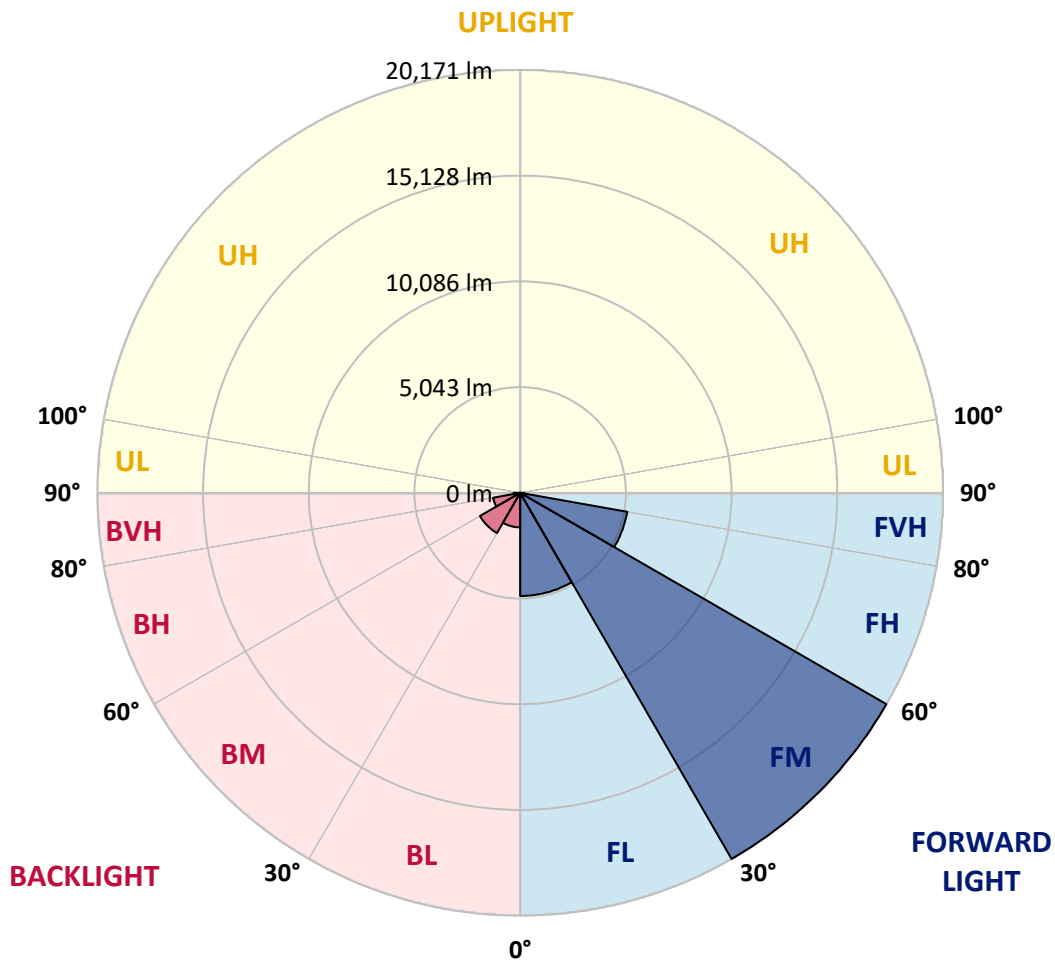
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4921.0	13.7			
FM (30°-60°)	20171.2	56.1			
FH (60°-80°)	5186.9	14.4			G3/7500
FVH (80°-90°)	204.5	0.6			G2/225
BL (0°-30°)	1648.6	4.6	B3/2500		
BM (30°-60°)	2214.0	6.2	B2/2500		
BH (60°-80°)	1308.9	3.6	B3/2500		G3/2500
BVH (80°-90°)	313.8	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°	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4
2.5°	10917.9	10829.8	10773.9	10724.8	10660.4	10523.3	10338.6	10221.8	10162.5	9960.9	9722.1
5°	11988.3	11910.4	11852.8	11786.8	11671.6	11456.5	11158.4	10921.3	10804.4	10401.3	9923.7
7.5°	11737.7	11769.9	11869.8	12044.2	12193.3	12164.5	11898.6	11597.1	11443.0	10882.3	10157.4
10°	10226.9	10282.7	10455.5	10863.7	11524.3	12201.8	12408.4	12200.1	12044.2	11358.3	10397.9
12.5°	9923.7	9922.0	9935.5	10043.9	10436.9	11390.5	12425.3	12635.4	12542.2	11812.2	10643.5
15°	10047.3	10050.7	10040.5	10086.3	10208.2	10585.9	11907.0	12803.0	12869.1	12269.5	10897.6
17.5°	10372.5	10364.0	10325.1	10325.1	10369.1	10516.5	11297.3	12647.2	12952.1	12674.3	11121.1
20°	10917.9	10878.9	10775.6	10680.8	10633.3	10713.0	11046.6	12288.1	12808.1	13028.3	11305.8
22.5°	11578.5	11548.0	11380.3	11177.0	11012.7	11011.1	11175.3	11974.8	12559.1	13362.0	11461.6
25°	12432.1	12383.0	12134.0	11808.8	11520.9	11410.8	11456.5	11959.6	12423.6	13724.4	11600.5
27.5°	13434.8	13345.0	13050.3	12581.2	12157.7	11935.8	11869.8	12235.6	12547.3	14173.3	11793.6
30°	14650.9	14547.6	14169.9	13558.5	12960.6	12596.4	12455.8	12725.1	12957.2	14720.4	12103.5
32.5°	16034.7	15885.7	15448.7	14774.6	13988.7	13433.1	13204.5	13372.1	13556.8	15379.2	12491.4
35°	17947.0	17769.1	17137.3	16207.5	15320.0	14556.1	14190.2	14312.2	14491.7	16361.6	13052.0
37.5°	19251.1	19171.5	18751.5	17877.5	16912.1	16033.0	15467.3	15538.4	15640.1	17589.6	13770.2
40°	19239.3	19271.5	19279.9	19288.4	18631.2	17789.4	17181.4	17106.9	17086.5	18937.8	14586.6
42.5°	18275.5	18407.7	18834.5	19700.0	20099.7	19713.5	19156.3	18941.2	18834.5	20526.5	15452.1
45°	16800.3	16871.4	17670.9	19361.2	20851.7	21619.0	21197.3	20519.8	20326.7	21986.5	16170.2
47.5°	16039.8	16117.7	16620.7	18463.5	20843.3	23158.6	23402.5	22111.9	21766.4	23256.9	16790.1
50°	14229.2	14391.8	15025.2	16901.9	20082.8	23866.6	25707.7	24008.9	23294.1	24493.3	17411.7
52.5°	10904.3	11155.0	11864.7	14334.2	18153.6	23516.0	27552.2	26309.0	25299.5	25773.8	17945.3
55°	6878.3	7064.6	7660.8	10123.5	14522.2	21691.8	28251.7	28797.1	27899.4	26986.5	18407.7
57.5°	3739.8	3822.8	4046.4	5589.4	9446.0	17659.0	27232.1	30213.1	29840.5	28016.3	18756.6
58°	3346.8	3402.7	3541.6	4844.1	8377.3	16556.4	26779.8	30218.2	30031.8	28167.0	18783.7
60°	2483.0	2454.2	2330.6	2764.2	4662.9	11437.9	24046.1	29008.8	29555.9	28351.6	18651.6
62.5°	2181.5	2112.1	1859.7	1830.9	2267.9	5269.2	18399.2	24849.0	26141.3	27298.1	17848.7
65°	2049.4	1974.9	1649.7	1544.7	1636.2	2229.0	10838.3	18636.3	20257.2	24103.7	15795.9
67.5°	1951.2	1854.7	1515.9	1371.9	1378.7	1473.6	4344.5	11737.7	13561.8	18300.9	12286.4
70°	1856.3	1751.3	1402.4	1236.4	1197.5	1165.3	1727.6	5875.6	7530.4	11559.8	7833.6
72.5°	1754.7	1651.4	1302.5	1129.7	1053.5	946.8	1128.0	2403.4	3357.0	5469.1	3553.5
75°	1607.4	1514.2	1202.6	1034.9	926.5	784.2	852.0	1255.1	1505.7	2178.2	1712.4
77.5°	1426.1	1349.9	1090.8	957.0	821.5	636.8	655.5	870.6	965.4	1246.6	1017.9
80°	1024.7	1051.8	970.5	860.4	731.7	516.6	503.0	635.2	686.0	801.1	662.3
82.5°	719.8	735.1	802.8	702.9	604.7	406.5	370.9	447.1	477.6	526.8	357.4
85°	496.3	479.3	550.5	489.5	437.0	271.0	254.1	303.2	321.8	326.9	184.6
87.5°	298.1	298.1	318.4	262.5	235.4	140.6	137.2	172.8	184.6	176.1	101.6
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°	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4	9554.4
2.5°	9579.8	9459.6	9203.8	8998.9	8739.7	8470.4	8319.7	8158.8	8048.7	7969.1	8096.1
5°	9652.7	9407.1	8878.6	8377.3	7823.4	7247.5	6810.6	6404.1	6121.2	5945.1	6111.0
7.5°	9767.8	9390.1	8548.3	7691.3	6697.1	5738.4	4881.4	4344.5	4031.1	3877.0	3973.5
10°	9900.0	9363.0	8160.5	6761.4	5338.7	4131.1	3490.8	3274.0	3202.9	3174.1	3187.6
12.5°	10010.1	9305.5	7684.5	5636.8	4009.1	3262.2	3077.5	3072.5	3087.7	3091.1	3096.2
15°	10088.0	9220.8	6978.2	4464.7	3206.3	2972.5	2962.4	2992.9	3021.6	3033.5	3040.3
17.5°	10140.5	9046.3	6180.5	3529.8	2872.6	2831.9	2855.7	2894.6	2925.1	2933.6	2940.3
20°	10135.4	8790.6	5230.3	2943.7	2691.4	2691.4	2732.0	2762.5	2764.2	2754.0	2759.1
22.5°	10082.9	8439.9	4308.9	2632.1	2530.5	2559.3	2599.9	2571.1	2452.5	2374.6	2379.7
25°	9994.8	8021.6	3519.6	2433.9	2381.4	2432.2	2420.4	2203.6	2034.2	1958.0	1958.0
27.5°	9916.9	7527.0	2913.2	2261.2	2232.4	2295.0	2085.0	1888.5	1817.4	1781.8	1770.0
30°	9861.0	6993.5	2508.4	2095.2	2091.8	2046.0	1808.9	1754.7	1742.9	1714.1	1703.9
32.5°	9874.6	6453.2	2249.3	1949.5	1961.4	1751.3	1676.8	1688.7	1678.5	1648.0	1634.5
35°	9986.3	5940.0	2079.9	1817.4	1781.8	1582.0	1598.9	1620.9	1617.5	1575.2	1561.6
37.5°	10186.2	5453.9	1968.1	1707.3	1554.9	1497.3	1524.4	1558.2	1549.8	1521.0	1510.8
40°	10396.2	4996.6	1876.7	1620.9	1421.1	1439.7	1463.4	1482.0	1490.5	1499.0	1492.2
42.5°	10601.2	4518.9	1764.9	1532.8	1365.2	1385.5	1395.6	1414.3	1460.0	1492.2	1490.5
45°	10723.1	4070.1	1649.7	1407.5	1321.1	1333.0	1326.2	1363.5	1419.4	1471.9	1473.6
47.5°	10858.6	3721.2	1558.2	1292.3	1278.8	1287.2	1266.9	1304.2	1355.0	1419.4	1426.1
50°	11022.9	3512.8	1485.4	1200.9	1221.2	1221.2	1216.1	1250.0	1321.1	1395.6	1409.2
52.5°	11209.2	3472.2	1424.4	1134.8	1163.6	1161.9	1167.0	1217.8	1295.7	1368.5	1380.4
55°	11436.2	3582.3	1358.4	1085.7	1107.7	1114.5	1131.4	1189.0	1255.1	1338.1	1343.1
57.5°	11700.4	3805.9	1305.9	1046.7	1056.9	1078.9	1106.0	1158.5	1229.7	1321.1	1326.2
58°	11744.4	3853.3	1297.4	1043.3	1046.7	1072.1	1102.6	1153.4	1224.6	1324.5	1329.6
60°	11746.1	4010.8	1278.8	1028.1	1007.8	1050.1	1084.0	1134.8	1216.1	1336.4	1348.2
62.5°	11329.5	4009.1	1265.2	1006.1	967.1	1019.6	1058.6	1117.9	1207.6	1365.2	1388.9
65°	9976.2	3643.3	1200.9	972.2	934.9	992.5	1036.6	1106.0	1231.4	1490.5	1505.7
67.5°	7803.1	2986.1	1080.6	924.8	892.6	965.4	1023.0	1104.3	1256.8	1519.3	1529.5
70°	5159.2	2234.1	948.5	870.6	848.6	933.3	1029.8	1161.9	1228.0	1458.3	1431.2
72.5°	2677.8	1568.4	841.8	802.8	797.8	904.5	1128.0	1155.1	1199.2	1371.9	1338.1
75°	1405.8	1089.1	748.6	728.3	736.8	897.7	1331.3	1124.6	1161.9	1312.7	1377.0
77.5°	860.4	879.1	669.0	660.6	677.5	877.4	1329.6	1085.7	1107.7	1207.6	1278.8
80°	575.9	713.1	608.1	609.7	621.6	802.8	1194.1	1024.7	1041.7	1141.6	1214.4
82.5°	364.2	421.7	552.2	581.0	565.7	662.3	1014.6	933.3	957.0	1305.9	1380.4
85°	184.6	264.2	479.3	558.9	509.8	464.1	823.2	818.1	829.9	941.7	984.1
87.5°	84.7	145.7	374.3	487.8	384.5	289.6	597.9	606.4	653.8	669.0	669.0
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)