

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: P190974

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190974
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37362.2 lumens
Efficiency: N/A
Efficacy: 112.2 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): 333
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

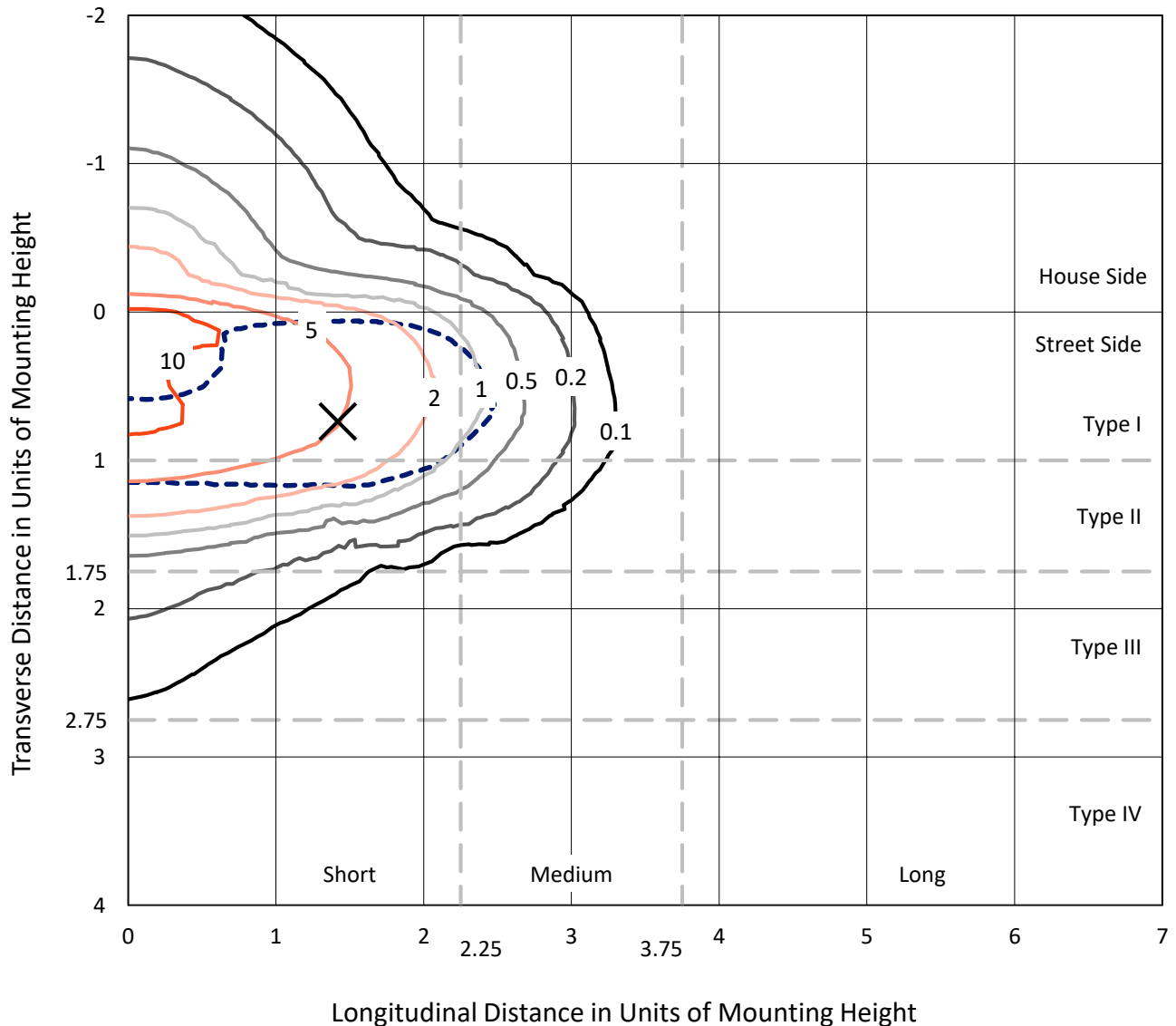


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

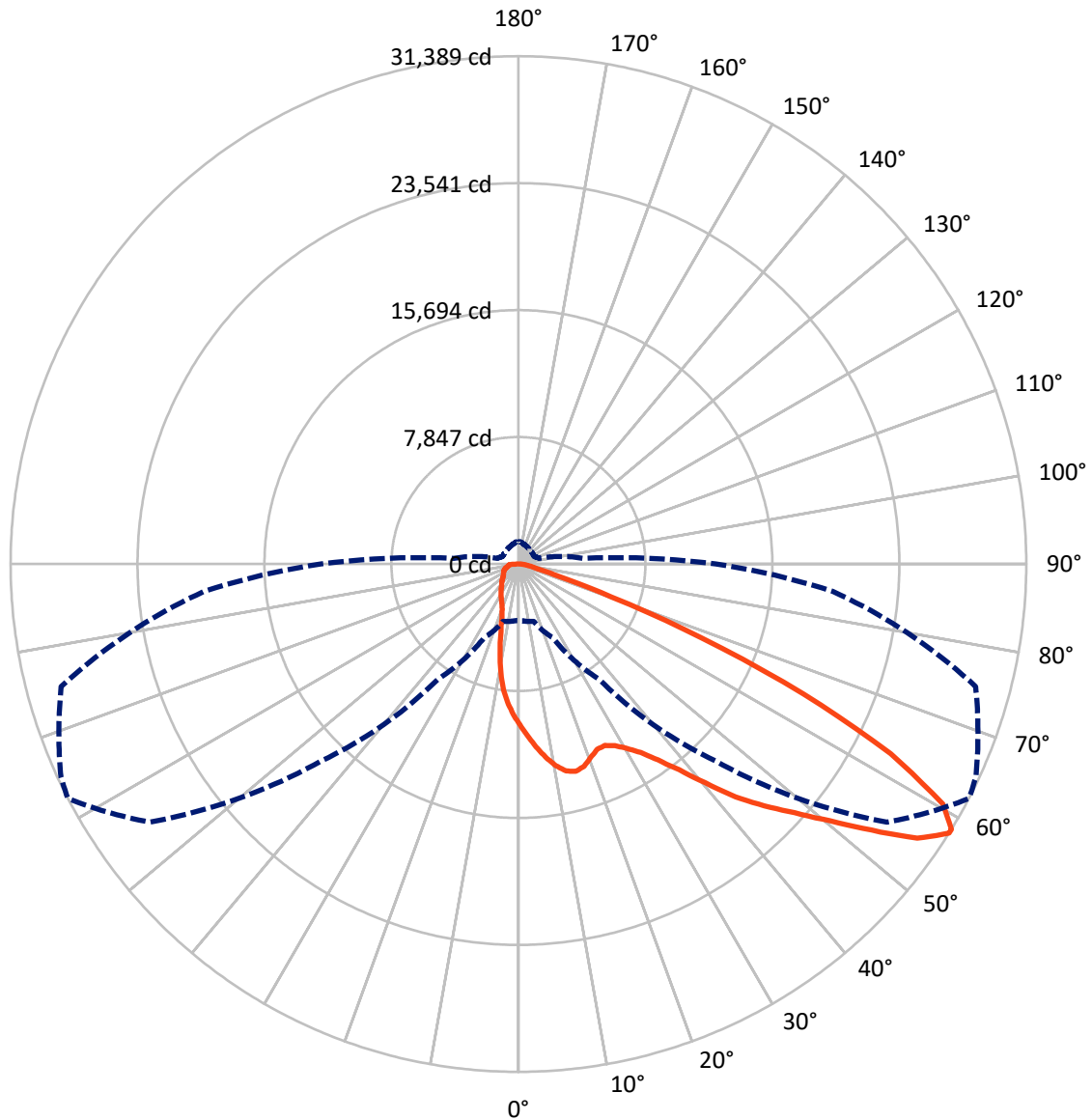


Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - Full Cutoff

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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	5697.9	0.0	5697.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	31664.4	0.0	31664.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	37362.2	0.0	37362.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.6	2.4
10°-20°	2268.9	6.1
20°-30°	3667.7	9.8
30°-40°	5822.4	15.6
40°-50°	8519.4	22.8
50°-60°	8910.6	23.8
60°-70°	5264.4	14.1
70°-80°	1483.0	4.0
80°-90°	538.4	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°	37362.2	100.0
0°-180°	37362.2	100.0



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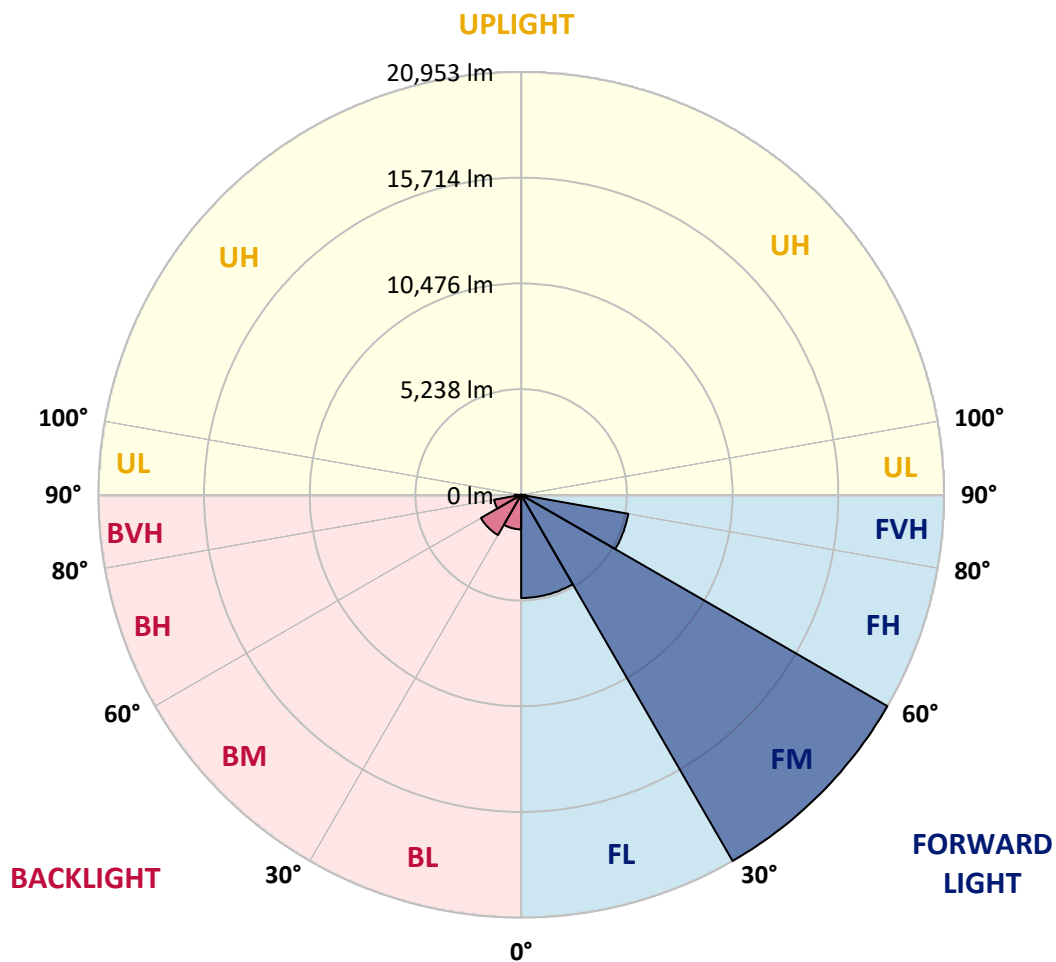
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5111.6	13.7			
FM (30°-60°)	20952.5	56.1			
FH (60°-80°)	5387.8	14.4			G3/7500
FVH (80°-90°)	212.4	0.6			G2/225
BL (0°-30°)	1712.5	4.6	B3/2500		
BM (30°-60°)	2299.8	6.2	B2/2500		
BH (60°-80°)	1359.6	3.6	B3/2500		G3/2500
BVH (80°-90°)	326.0	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°	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6
2.5°	11340.8	11249.3	11191.3	11140.2	11073.3	10930.8	10739.1	10617.7	10556.1	10346.7	10098.7
5°	12452.7	12371.8	12311.9	12243.4	12123.7	11900.3	11590.6	11344.3	11222.9	10804.2	10308.1
7.5°	12192.3	12225.8	12329.5	12510.8	12665.6	12635.7	12359.5	12046.3	11886.2	11303.8	10550.8
10°	10623.0	10681.0	10860.5	11284.5	11970.7	12674.4	12889.1	12672.6	12510.8	11798.2	10800.7
12.5°	10308.1	10306.3	10320.3	10433.0	10841.1	11831.7	12906.7	13124.8	13028.0	12269.8	11055.7
15°	10436.5	10440.0	10429.5	10477.0	10603.6	10996.0	12368.3	13299.0	13367.6	12744.7	11319.7
17.5°	10774.3	10765.5	10725.0	10725.0	10770.8	10923.9	11734.9	13137.1	13453.7	13165.3	11551.9
20°	11340.8	11300.3	11193.0	11094.5	11045.2	11128.0	11474.5	12764.1	13304.3	13532.9	11743.7
22.5°	12026.9	11995.3	11821.1	11610.0	11439.4	11437.6	11608.2	12438.7	13045.6	13879.6	11905.5
25°	12913.6	12862.7	12604.0	12266.2	11967.1	11852.7	11900.3	12422.8	12904.8	14256.0	12049.8
27.5°	13955.2	13862.0	13555.8	13068.5	12628.6	12398.2	12329.5	12709.6	13033.3	14722.3	12250.3
30°	15218.4	15111.1	14718.7	14083.7	13462.5	13084.4	12938.3	13218.1	13459.1	15290.6	12572.4
32.5°	16655.8	16501.0	16047.0	15346.8	14530.5	13953.5	13715.9	13890.1	14081.8	15974.9	12975.2
35°	18642.2	18457.4	17801.2	16835.3	15913.3	15119.9	14739.9	14866.5	15053.0	16995.4	13557.6
37.5°	19996.8	19914.1	19477.8	18570.0	17567.1	16654.0	16066.5	16140.3	16245.9	18270.9	14303.5
40°	19984.5	20017.9	20026.7	20035.5	19352.9	18478.5	17846.9	17769.5	17748.4	19671.3	15151.5
42.5°	18983.4	19120.7	19564.0	20463.1	20878.2	20477.1	19898.3	19674.8	19564.0	21321.7	16050.6
45°	17451.0	17524.9	18355.3	20111.2	21659.4	22456.4	22018.3	21314.6	21114.0	22838.2	16796.5
47.5°	16661.1	16742.0	17264.5	19178.7	21650.7	24055.7	24309.0	22968.4	22609.5	24157.7	17440.5
50°	14780.3	14949.2	15607.3	17556.6	20860.6	24791.1	26703.5	24938.8	24196.4	25442.0	18086.2
52.5°	11326.7	11587.1	12324.3	14889.5	18856.8	24426.8	28619.4	27328.0	26279.5	26772.2	18640.4
55°	7144.7	7338.2	7957.5	10515.6	15084.7	22532.0	29346.0	29912.5	28980.1	28031.8	19120.7
57.5°	3884.7	3970.9	4203.1	5805.9	9811.9	18343.0	28286.9	31383.4	30996.3	29101.5	19483.1
58°	3476.5	3534.5	3678.8	5031.8	8701.7	17197.7	27817.2	31388.6	31195.1	29258.0	19511.3
60°	2579.2	2549.3	2420.9	2871.2	4843.5	11881.0	24977.6	30132.4	30700.7	29449.8	19374.0
62.5°	2266.0	2193.9	1931.7	1901.9	2355.8	5473.4	19111.9	25811.5	27153.9	28355.5	18540.1
65°	2128.9	2051.4	1713.6	1604.5	1699.5	2315.3	11258.1	19358.2	21041.9	25037.3	16407.7
67.5°	2026.8	1926.5	1574.6	1425.1	1432.1	1530.6	4512.7	12192.3	14087.2	19009.8	12762.3
70°	1928.3	1819.2	1456.8	1284.3	1243.9	1210.5	1794.6	6103.2	7822.1	12007.6	8137.1
72.5°	1822.7	1715.4	1353.0	1173.5	1094.4	983.5	1171.7	2496.5	3487.0	5681.0	3691.1
75°	1669.7	1572.9	1249.1	1074.9	962.4	814.6	885.0	1303.6	1564.1	2262.6	1778.7
77.5°	1481.3	1402.2	1133.0	994.0	853.2	661.5	680.9	904.3	1002.8	1294.9	1057.3
80°	1064.4	1092.5	1008.1	893.8	760.1	536.6	522.5	659.8	712.6	832.2	687.9
82.5°	747.8	763.5	833.9	730.2	628.1	422.3	385.3	464.4	496.1	547.2	371.2
85°	515.5	497.9	571.8	508.4	453.9	281.5	263.9	315.0	334.3	339.5	191.8
87.5°	309.6	309.6	330.7	272.7	244.6	146.1	142.5	179.4	191.8	183.0	105.6
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°	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6	9924.6
2.5°	9951.0	9826.0	9560.3	9347.4	9078.3	8798.5	8642.0	8474.8	8360.5	8277.7	8409.7
5°	10026.6	9771.4	9222.5	8701.7	8126.4	7528.3	7074.3	6652.1	6358.4	6175.3	6347.7
7.5°	10146.2	9753.8	8879.4	7989.2	6956.5	5960.7	5070.5	4512.7	4187.2	4027.2	4127.4
10°	10283.4	9725.7	8476.6	7023.4	5545.5	4291.1	3626.1	3400.8	3326.9	3297.1	3311.1
12.5°	10397.8	9665.9	7982.2	5855.2	4164.4	3388.5	3196.7	3191.5	3207.3	3210.8	3216.1
15°	10478.7	9577.9	7248.5	4637.6	3330.4	3087.7	3077.1	3108.7	3138.7	3151.0	3158.1
17.5°	10533.2	9396.7	6419.9	3666.5	2983.8	2941.6	2966.3	3006.8	3038.4	3047.2	3054.2
20°	10528.0	9131.1	5432.9	3057.8	2795.6	2795.6	2837.9	2869.5	2871.2	2860.7	2866.0
22.5°	10473.5	8766.9	4475.8	2734.0	2628.5	2658.3	2700.6	2670.7	2547.6	2466.6	2471.9
25°	10381.9	8332.3	3655.9	2528.2	2473.7	2526.5	2514.1	2289.0	2113.0	2033.8	2033.8
27.5°	10301.0	7818.6	3026.1	2348.7	2318.8	2383.9	2165.8	1961.7	1887.8	1850.8	1838.5
30°	10243.0	7264.4	2605.6	2176.3	2172.8	2125.3	1879.0	1822.7	1810.4	1780.4	1769.9
32.5°	10257.0	6703.2	2336.4	2025.0	2037.3	1819.2	1741.8	1754.1	1743.5	1711.8	1697.8
35°	10373.1	6170.0	2160.5	1887.8	1850.8	1643.3	1660.9	1683.7	1680.2	1636.2	1622.1
37.5°	10580.8	5665.1	2044.4	1773.4	1615.1	1555.3	1583.4	1618.6	1609.8	1579.9	1569.3
40°	10798.9	5190.1	1949.3	1683.7	1476.1	1495.5	1520.1	1539.4	1548.2	1557.0	1550.0
42.5°	11011.8	4693.9	1833.2	1592.2	1418.0	1439.2	1449.7	1469.1	1516.5	1550.0	1548.2
45°	11138.5	4227.8	1713.6	1462.0	1372.3	1384.6	1377.6	1416.3	1474.4	1528.9	1530.6
47.5°	11279.3	3865.3	1618.6	1342.4	1328.3	1337.1	1316.0	1354.7	1407.5	1474.4	1481.3
50°	11449.9	3648.9	1542.9	1247.4	1268.5	1268.5	1263.2	1298.4	1372.3	1449.7	1463.7
52.5°	11643.4	3606.7	1479.6	1178.7	1208.7	1206.9	1212.2	1265.0	1345.9	1421.6	1433.9
55°	11879.1	3721.1	1411.0	1127.7	1150.6	1157.7	1175.3	1235.1	1303.6	1389.9	1395.2
57.5°	12153.6	3953.3	1356.4	1087.3	1097.8	1120.7	1148.9	1203.4	1277.3	1372.3	1377.6
58°	12199.4	4002.5	1347.6	1083.7	1087.3	1113.7	1145.3	1198.1	1272.0	1375.8	1381.1
60°	12201.1	4166.2	1328.3	1068.0	1046.8	1090.8	1126.0	1178.7	1263.2	1388.1	1400.4
62.5°	11768.3	4164.4	1314.3	1045.0	1004.6	1059.2	1099.6	1161.2	1254.4	1418.0	1442.7
65°	10362.6	3784.4	1247.4	1009.9	971.2	1031.0	1076.8	1148.9	1279.1	1548.2	1564.1
67.5°	8105.4	3101.8	1122.5	960.7	927.2	1002.8	1062.6	1147.1	1305.5	1578.1	1588.7
70°	5359.0	2320.6	985.2	904.3	881.5	969.5	1069.7	1206.9	1275.5	1514.8	1486.7
72.5°	2781.5	1629.2	874.4	833.9	828.7	939.5	1171.7	1199.9	1245.6	1425.1	1389.9
75°	1460.3	1131.3	777.6	756.5	765.3	932.4	1382.8	1168.2	1206.9	1363.5	1430.4
77.5°	893.8	913.1	695.0	686.2	703.8	911.3	1381.1	1127.7	1150.6	1254.4	1328.3
80°	598.2	740.7	631.6	633.4	645.7	833.9	1240.3	1064.4	1082.0	1185.8	1261.5
82.5°	378.3	438.1	573.6	603.4	587.6	687.9	1053.8	969.5	994.0	1356.4	1433.9
85°	191.8	274.5	497.9	580.6	529.6	482.0	855.1	849.8	862.0	978.2	1022.2
87.5°	88.0	151.3	388.8	506.7	399.4	300.8	621.0	629.8	679.1	695.0	695.0
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)