

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: P191774

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191774
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36524 lumens
Efficiency: N/A
Efficacy: 109.7 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 - G3

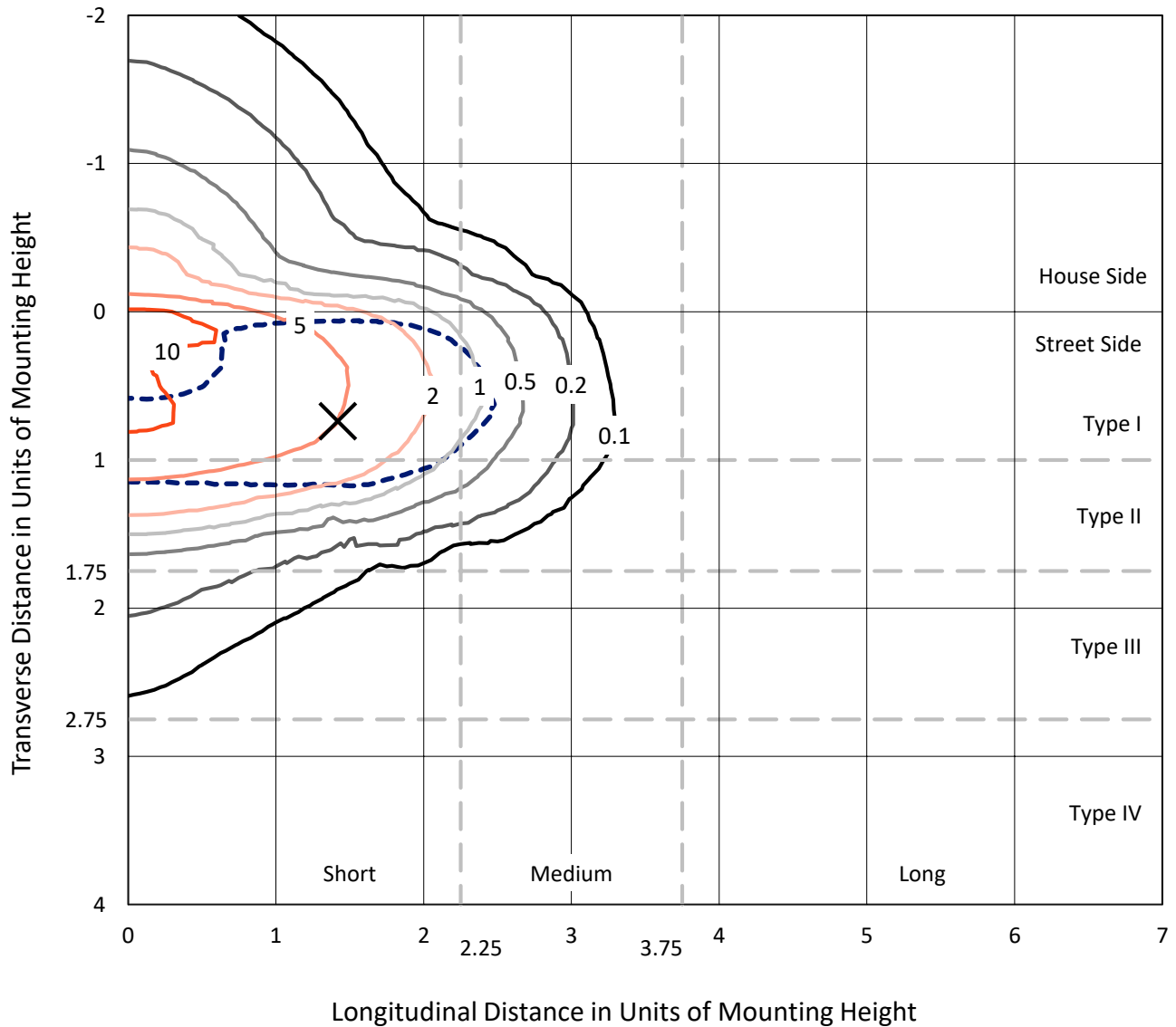
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

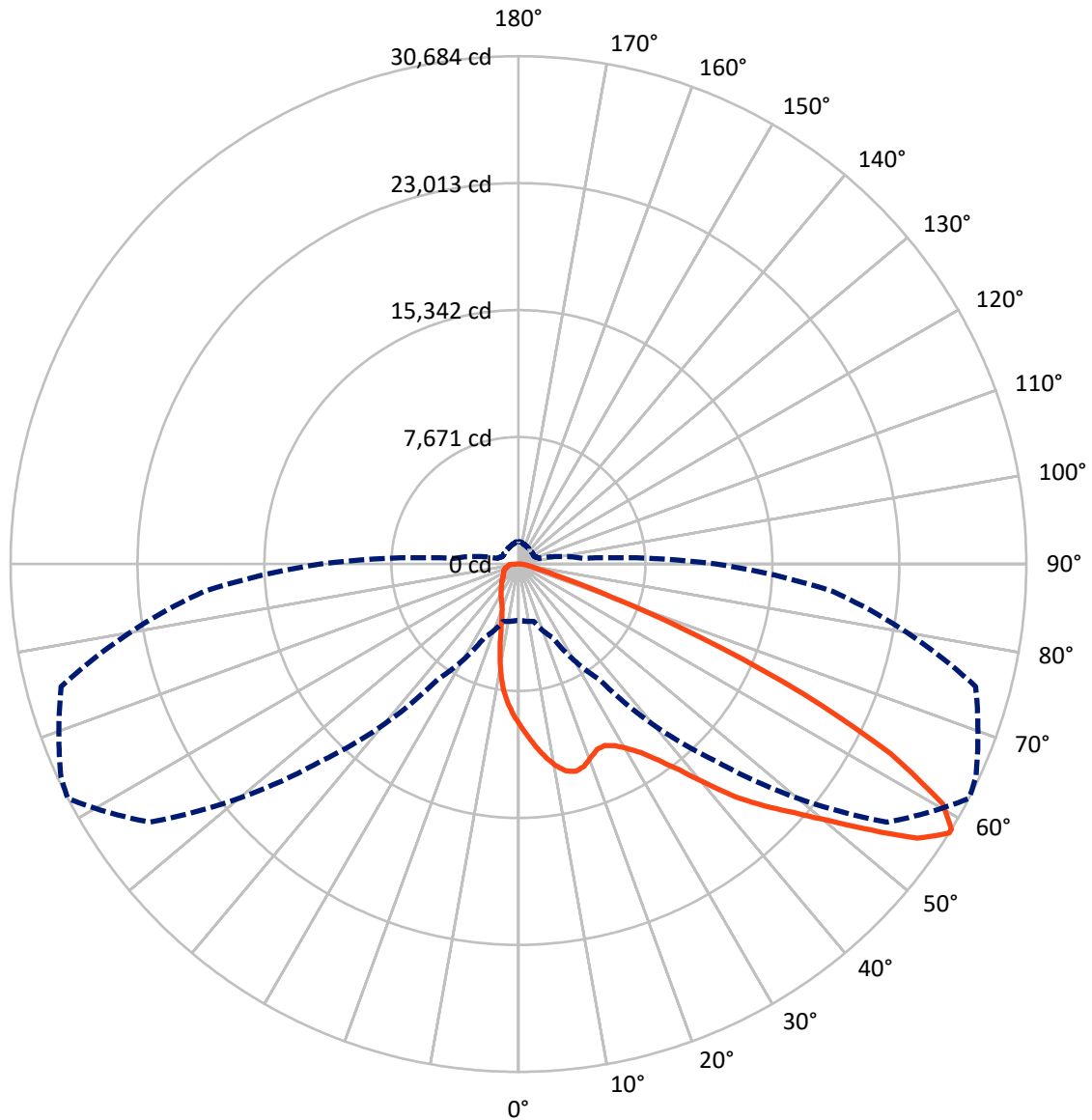
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 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	5570.1	0.0	5570.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	30953.9	0.0	30953.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	36524.0	0.0	36524.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.7	2.4
10°-20°	2217.9	6.1
20°-30°	3585.4	9.8
30°-40°	5691.8	15.6
40°-50°	8328.2	22.8
50°-60°	8710.6	23.8
60°-70°	5146.3	14.1
70°-80°	1449.7	4.0
80°-90°	526.3	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°	36524.0	100.0
0°-180°	36524.0	100.0



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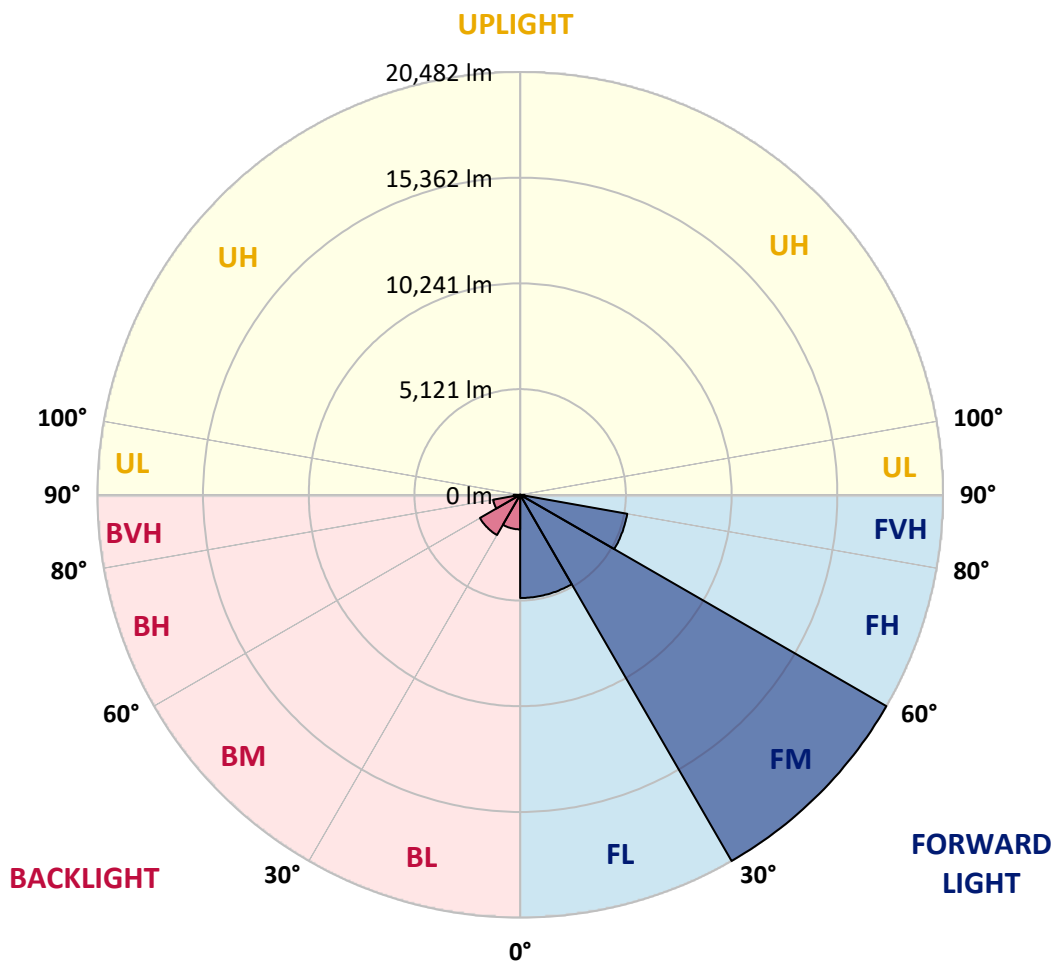
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4996.9	13.7			
FM (30°-60°)	20482.5	56.1			
FH (60°-80°)	5266.9	14.4			G3/7500
FVH (80°-90°)	207.6	0.6			G2/225
BL (0°-30°)	1674.1	4.6	B3/2500		
BM (30°-60°)	2248.2	6.2	B2/2500		
BH (60°-80°)	1329.1	3.6	B3/2500		G3/2500
BVH (80°-90°)	318.7	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°	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9
2.5°	11086.4	10996.9	10940.2	10890.3	10824.9	10685.6	10498.2	10379.5	10319.3	10114.6	9872.1
5°	12173.3	12094.2	12035.7	11968.7	11851.7	11633.3	11330.6	11089.8	10971.1	10561.8	10076.8
7.5°	11918.8	11951.5	12052.9	12230.1	12381.4	12352.2	12082.2	11776.0	11619.5	11050.2	10314.1
10°	10384.7	10441.4	10616.8	11031.3	11702.1	12390.0	12599.9	12388.3	12230.1	11533.5	10558.4
12.5°	10076.8	10075.1	10088.8	10198.9	10597.9	11566.2	12617.1	12830.3	12735.7	11994.5	10807.7
15°	10202.3	10205.8	10195.5	10241.9	10365.7	10749.3	12090.8	13000.6	13067.7	12458.8	11065.7
17.5°	10532.6	10524.0	10484.4	10484.4	10529.1	10678.8	11471.6	12842.4	13151.9	12869.9	11292.7
20°	11086.4	11046.8	10941.9	10845.6	10797.4	10878.3	11217.1	12477.7	13005.8	13229.3	11480.2
22.5°	11757.1	11726.2	11555.9	11349.5	11182.7	11181.0	11347.8	12159.6	12752.9	13568.2	11638.4
25°	12623.9	12574.1	12321.2	11991.0	11698.6	11586.8	11633.3	12144.1	12615.3	13936.2	11779.5
27.5°	13642.1	13551.0	13251.7	12775.3	12345.3	12120.0	12052.9	12424.4	12740.9	14392.0	11975.5
30°	14877.0	14772.1	14388.5	13767.7	13160.5	12790.8	12648.0	12921.5	13157.1	14947.5	12290.3
32.5°	16282.1	16130.8	15687.0	15002.5	14204.5	13640.4	13408.2	13578.5	13765.9	15616.5	12684.1
35°	18223.9	18043.3	17401.8	16457.6	15556.3	14780.7	14409.2	14533.0	14715.3	16614.1	13253.4
37.5°	19548.2	19467.3	19040.8	18153.4	17173.0	16280.4	15706.0	15778.2	15881.4	17861.0	13982.6
40°	19536.1	19568.8	19577.4	19586.0	18918.7	18063.9	17446.5	17370.8	17350.2	19230.0	14811.6
42.5°	18557.5	18691.7	19125.1	20004.0	20409.8	20017.7	19451.9	19233.4	19125.1	20843.3	15690.5
45°	17059.5	17131.7	17943.5	19660.0	21173.5	21952.6	21524.3	20836.4	20640.3	22325.8	16419.7
47.5°	16287.3	16366.4	16877.2	18748.4	21164.9	23516.0	23763.6	22453.1	22102.2	23615.7	17049.2
50°	14448.7	14613.8	15257.1	17162.7	20392.6	24234.9	26104.4	24379.3	23653.5	24871.2	17680.4
52.5°	11072.6	11327.1	12047.8	14555.4	18433.7	23878.8	27977.3	26714.9	25689.9	26171.5	18222.2
55°	6984.4	7173.6	7779.0	10279.7	14746.3	22026.5	28687.6	29241.4	28329.9	27402.9	18691.7
57.5°	3797.5	3881.8	4108.8	5675.6	9591.8	17931.5	27652.3	30679.3	30300.9	28448.6	19046.0
58°	3398.5	3455.2	3596.3	4918.9	8506.5	16811.9	27193.1	30684.4	30495.2	28601.6	19073.5
60°	2521.3	2492.1	2366.6	2806.8	4734.8	11614.4	24417.2	29456.4	30011.9	28789.1	18939.3
62.5°	2215.2	2144.7	1888.4	1859.2	2302.9	5350.6	18683.1	25232.4	26544.7	27719.3	18124.1
65°	2081.1	2005.4	1675.2	1568.5	1661.4	2263.4	11005.5	18923.9	20569.8	24475.6	16039.6
67.5°	1981.3	1883.3	1539.3	1393.1	1400.0	1496.3	4411.5	11918.8	13771.1	18583.3	12476.0
70°	1885.0	1778.4	1424.1	1255.5	1216.0	1183.3	1754.3	5966.3	7646.6	11738.2	7954.5
72.5°	1781.8	1676.9	1322.6	1147.2	1069.8	961.4	1145.4	2440.5	3408.8	5553.5	3608.3
75°	1632.2	1537.6	1221.1	1050.8	940.8	796.3	865.1	1274.4	1529.0	2211.8	1738.8
77.5°	1448.1	1370.7	1107.6	971.7	834.1	646.7	665.6	884.0	980.3	1265.8	1033.6
80°	1040.5	1068.0	985.5	873.7	743.0	524.6	510.8	645.0	696.6	813.5	672.5
82.5°	731.0	746.4	815.2	713.8	614.0	412.8	376.7	454.0	485.0	534.9	362.9
85°	503.9	486.7	559.0	497.0	443.7	275.2	258.0	307.9	326.8	331.9	187.5
87.5°	302.7	302.7	323.3	266.6	239.1	142.8	139.3	175.4	187.5	178.9	103.2
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°	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9	9701.9
2.5°	9727.7	9605.5	9345.8	9137.7	8874.6	8601.1	8448.1	8284.7	8172.9	8092.0	8221.0
5°	9801.6	9552.2	9015.6	8506.5	7944.1	7359.4	6915.6	6502.9	6215.7	6036.8	6205.3
7.5°	9918.6	9535.0	8680.2	7810.0	6800.4	5827.0	4956.7	4411.5	4093.3	3936.8	4034.8
10°	10052.7	9507.5	8286.4	6865.8	5421.1	4194.8	3544.7	3324.5	3252.3	3223.1	3236.8
12.5°	10164.5	9449.0	7803.1	5723.8	4071.0	3312.5	3125.0	3119.9	3135.3	3138.8	3143.9
15°	10243.6	9363.0	7085.9	4533.6	3255.7	3018.4	3008.1	3039.0	3068.3	3080.3	3087.2
17.5°	10296.9	9185.9	6275.9	3584.2	2916.9	2875.6	2899.7	2939.3	2970.2	2978.8	2985.7
20°	10291.8	8926.2	5311.0	2989.2	2732.9	2732.9	2774.2	2805.1	2806.8	2796.5	2801.7
22.5°	10238.5	8570.2	4375.4	2672.7	2569.5	2598.7	2640.0	2610.8	2490.4	2411.3	2416.4
25°	10149.0	8145.4	3573.9	2471.5	2418.2	2469.8	2457.7	2237.6	2065.6	1988.2	1988.2
27.5°	10069.9	7643.2	2958.2	2296.0	2266.8	2330.4	2117.2	1917.7	1845.4	1809.3	1797.3
30°	10013.2	7101.4	2547.1	2127.5	2124.1	2077.6	1836.8	1781.8	1769.8	1740.5	1730.2
32.5°	10026.9	6552.8	2284.0	1979.6	1991.6	1778.4	1702.7	1714.7	1704.4	1673.4	1659.7
35°	10140.4	6031.6	2112.0	1845.4	1809.3	1606.4	1623.6	1645.9	1642.5	1599.5	1585.7
37.5°	10343.4	5538.0	1998.5	1733.6	1578.9	1520.4	1547.9	1582.3	1573.7	1544.5	1534.1
40°	10556.6	5073.7	1905.6	1645.9	1443.0	1461.9	1486.0	1504.9	1513.5	1522.1	1515.2
42.5°	10764.7	4588.6	1792.1	1556.5	1386.2	1406.9	1417.2	1436.1	1482.5	1515.2	1513.5
45°	10888.6	4132.9	1675.2	1429.2	1341.5	1353.5	1346.7	1384.5	1441.3	1494.6	1496.3
47.5°	11026.2	3778.6	1582.3	1312.3	1298.5	1307.1	1286.5	1324.3	1375.9	1441.3	1448.1
50°	11193.0	3567.0	1508.3	1219.4	1240.0	1240.0	1234.9	1269.3	1341.5	1417.2	1430.9
52.5°	11382.2	3525.8	1446.4	1152.3	1181.6	1179.8	1185.0	1236.6	1315.7	1389.7	1401.7
55°	11612.6	3637.6	1379.3	1102.4	1124.8	1131.7	1148.9	1207.4	1274.4	1358.7	1363.9
57.5°	11880.9	3864.6	1326.0	1062.9	1073.2	1095.6	1123.1	1176.4	1248.6	1341.5	1346.7
58°	11925.7	3912.7	1317.4	1059.4	1062.9	1088.7	1119.6	1171.2	1243.5	1344.9	1350.1
60°	11927.4	4072.7	1298.5	1044.0	1023.3	1066.3	1100.7	1152.3	1234.9	1357.0	1369.0
62.5°	11504.3	4071.0	1284.8	1021.6	982.1	1035.4	1074.9	1135.1	1226.3	1386.2	1410.3
65°	10130.1	3699.5	1219.4	987.2	949.4	1007.9	1052.6	1123.1	1250.4	1513.5	1529.0
67.5°	7923.5	3032.2	1097.3	939.1	906.4	980.3	1038.8	1121.4	1276.2	1542.7	1553.1
70°	5238.8	2268.5	963.1	884.0	861.7	947.7	1045.7	1179.8	1246.9	1480.8	1453.3
72.5°	2719.1	1592.6	854.8	815.2	810.1	918.4	1145.4	1173.0	1217.7	1393.1	1358.7
75°	1427.5	1105.9	760.2	739.5	748.1	911.5	1351.8	1142.0	1179.8	1332.9	1398.3
77.5°	873.7	892.6	679.4	670.8	688.0	890.9	1350.1	1102.4	1124.8	1226.3	1298.5
80°	584.8	724.1	617.4	619.2	631.2	815.2	1212.5	1040.5	1057.7	1159.2	1233.2
82.5°	369.8	428.3	560.7	589.9	574.4	672.5	1030.2	947.7	971.7	1326.0	1401.7
85°	187.5	268.3	486.7	567.6	517.7	471.2	835.9	830.7	842.7	956.3	999.3
87.5°	86.0	147.9	380.1	495.3	390.4	294.1	607.1	615.7	663.9	679.4	679.4
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)