

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: P193507

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193507
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 35992 lumens
Efficiency: N/A
Efficacy: 96.2 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): 374
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

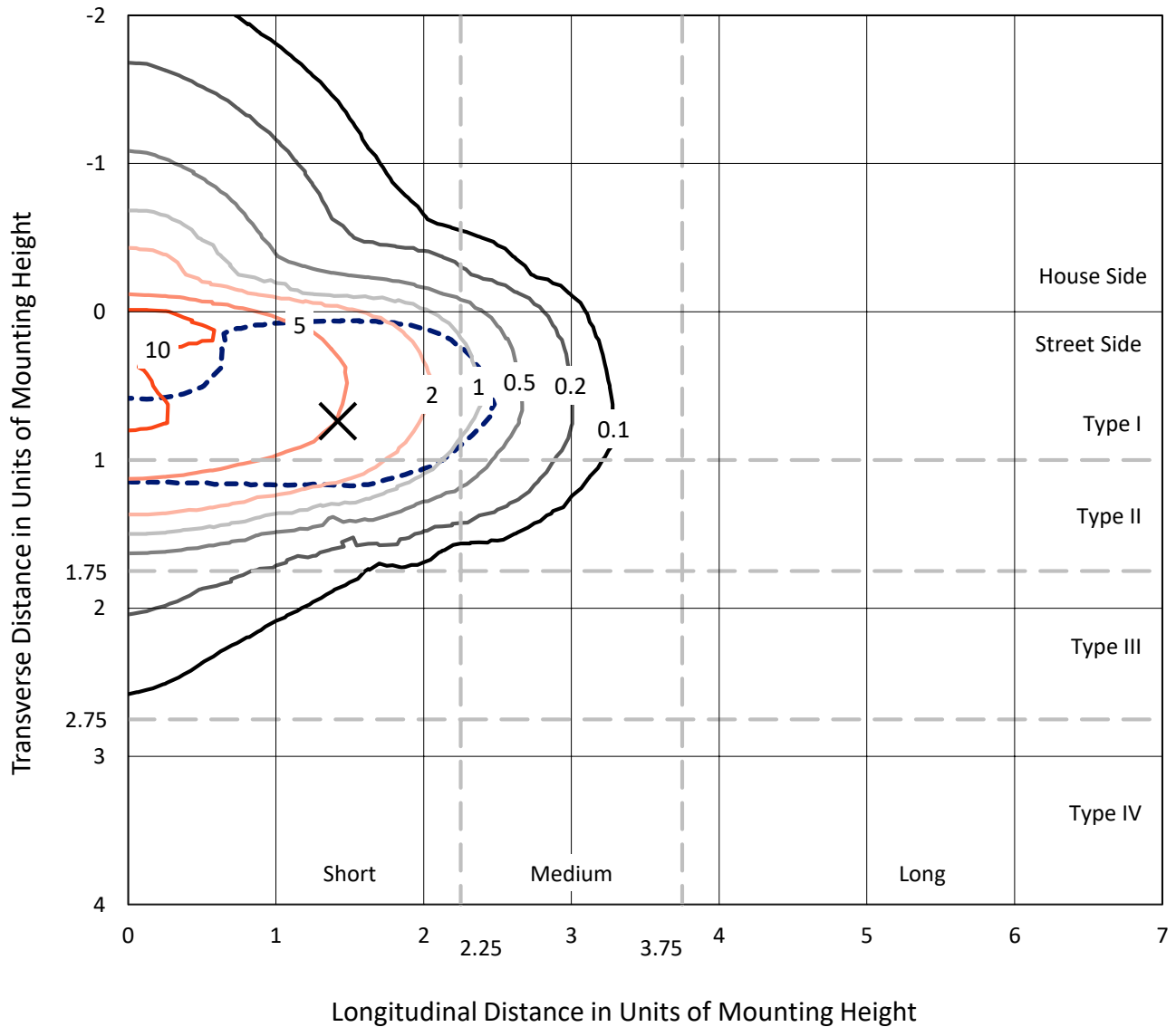


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Iso-Footcandle Lines of Horizontal Illumination

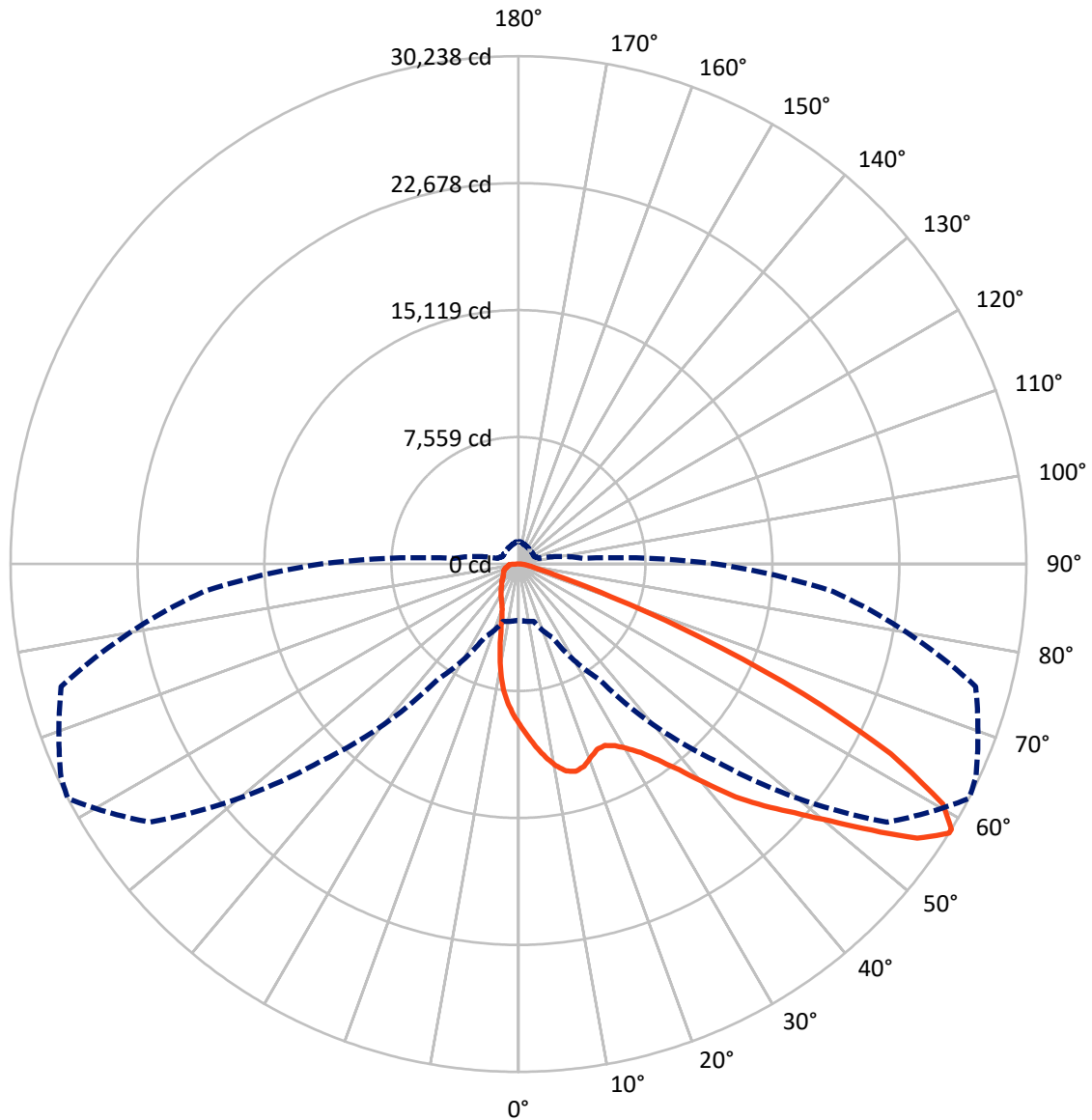
✕ Max cd
 - - - 1/2 Max cd



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	5488.9	0.0	5488.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	30503.1	0.0	30503.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	35992.0	0.0	35992.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.1	2.4
10°-20°	2185.6	6.1
20°-30°	3533.2	9.8
30°-40°	5608.9	15.6
40°-50°	8206.9	22.8
50°-60°	8583.8	23.8
60°-70°	5071.3	14.1
70°-80°	1428.6	4.0
80°-90°	518.7	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°	35992.0	100.0
0°-180°	35992.0	100.0



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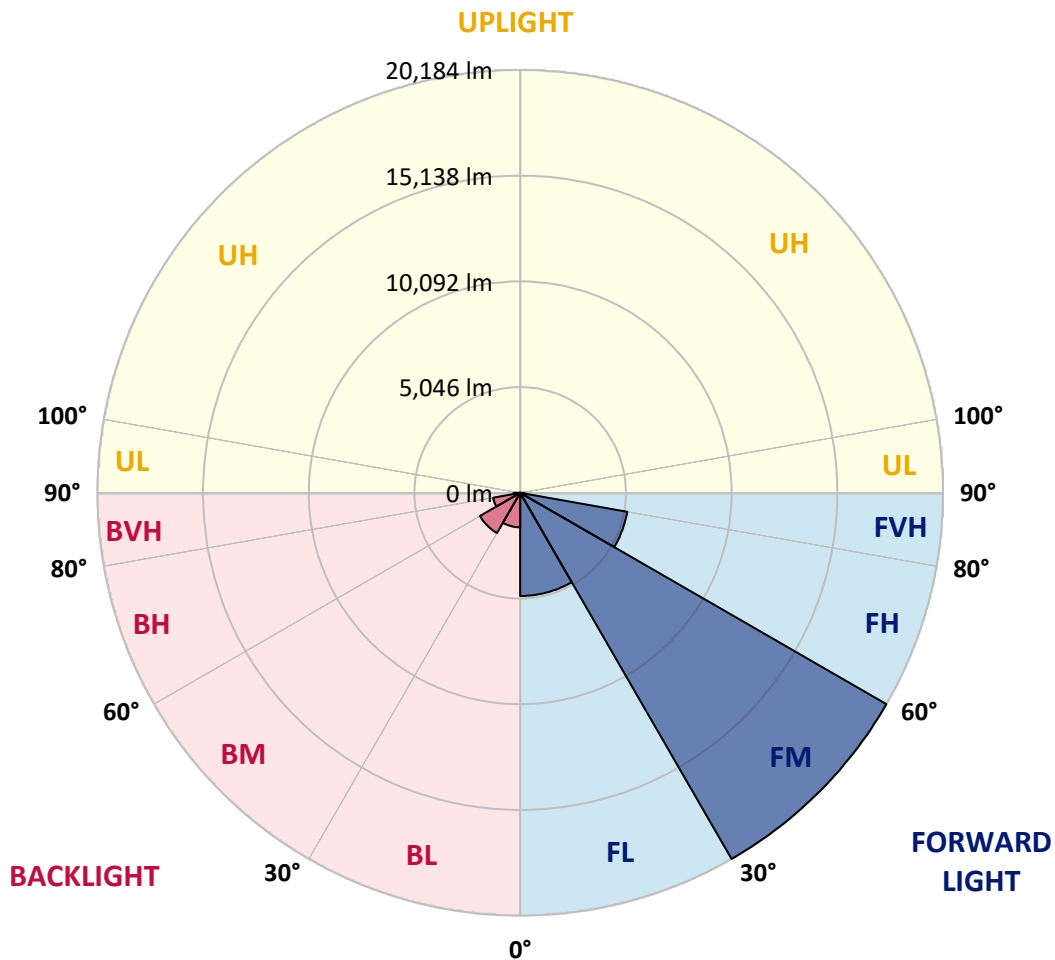
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4924.2	13.7			
FM	(30°-60°)	20184.1	56.1			
FH	(60°-80°)	5190.2	14.4			G3/7500
FVH	(80°-90°)	204.6	0.6			G2/225
BL	(0°-30°)	1649.7	4.6	B3/2500		
BM	(30°-60°)	2215.5	6.2	B2/2500		
BH	(60°-80°)	1309.7	3.6	B3/2500		G3/2500
BVH	(80°-90°)	314.0	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°	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5
2.5°	10924.9	10836.7	10780.8	10731.7	10667.3	10530.0	10345.2	10228.3	10169.0	9967.3	9728.3
5°	11996.0	11918.1	11860.4	11794.3	11679.1	11463.8	11165.5	10928.3	10811.3	10408.0	9930.0
7.5°	11745.2	11777.4	11877.4	12051.9	12201.1	12172.3	11906.2	11604.5	11450.3	10889.3	10163.9
10°	10233.4	10289.3	10462.2	10870.6	11531.6	12209.6	12416.3	12207.9	12051.9	11365.5	10404.6
12.5°	9930.0	9928.3	9941.9	10050.3	10443.5	11397.7	12433.3	12643.4	12550.2	11819.8	10650.3
15°	10053.7	10057.1	10047.0	10092.7	10214.7	10592.7	11914.7	12811.2	12877.3	12277.4	10904.5
17.5°	10379.1	10370.7	10331.7	10331.7	10375.8	10523.2	11304.5	12655.3	12960.4	12682.4	11128.3
20°	10924.9	10885.9	10782.5	10687.6	10640.1	10719.8	11053.7	12296.0	12816.3	13036.6	11313.0
22.5°	11585.9	11555.4	11387.6	11184.2	11019.8	11018.1	11182.5	11982.5	12567.2	13370.5	11468.9
25°	12440.1	12390.9	12141.8	11816.4	11528.2	11418.1	11463.8	11967.2	12431.6	13733.2	11607.9
27.5°	13443.4	13353.6	13058.7	12589.2	12165.5	11943.5	11877.4	12243.5	12555.3	14182.3	11801.1
30°	14660.3	14556.9	14179.0	13567.1	12968.8	12604.5	12463.8	12733.3	12965.5	14729.8	12111.3
32.5°	16045.0	15895.8	15458.6	14784.0	13997.6	13441.7	13212.9	13380.7	13565.4	15389.1	12499.4
35°	17958.4	17780.5	17148.3	16217.8	15329.7	14565.4	14199.3	14321.3	14501.0	16372.1	13060.4
37.5°	19263.4	19183.8	18763.5	17888.9	16922.9	16043.3	15477.2	15548.4	15650.1	17600.8	13779.0
40°	19251.6	19283.8	19292.3	19300.7	18643.1	17800.8	17192.4	17117.8	17097.5	18949.9	14595.9
42.5°	18287.2	18419.4	18846.5	19712.6	20112.6	19726.1	19168.5	18953.3	18846.5	20539.7	15461.9
45°	16811.0	16882.2	17682.2	19373.6	20865.1	21632.8	21210.8	20532.9	20339.7	22000.6	16180.6
47.5°	16050.0	16128.0	16631.4	18475.4	20856.6	23173.4	23417.5	22126.0	21780.3	23271.7	16800.9
50°	14238.3	14401.0	15034.8	16912.7	20095.6	23881.9	25724.1	24024.2	23309.0	24509.0	17422.9
52.5°	10911.3	11162.2	11872.3	14343.4	18165.2	23531.0	27569.8	26325.8	25315.7	25790.2	17956.7
55°	6882.7	7069.1	7665.7	10130.0	14531.5	21705.7	28269.8	28815.5	27917.3	27003.7	18419.4
57.5°	3742.2	3825.2	4049.0	5592.9	9452.1	17670.3	27249.5	30232.4	29859.5	28034.2	18768.6
58°	3349.0	3404.9	3543.9	4847.2	8382.6	16567.0	26797.0	30237.5	30051.0	28185.0	18795.7
60°	2484.6	2455.8	2332.1	2766.0	4665.9	11445.2	24061.5	29027.4	29574.8	28369.8	18663.5
62.5°	2182.9	2113.5	1860.9	1832.1	2269.4	5272.6	18410.9	24864.9	26158.0	27315.6	17860.1
65°	2050.7	1976.2	1650.8	1545.7	1637.2	2230.4	10845.2	18648.2	20270.2	24119.1	15806.0
67.5°	1952.4	1855.8	1516.9	1372.8	1379.6	1474.5	4347.2	11745.2	13570.5	18312.6	12294.3
70°	1857.5	1752.5	1403.3	1237.2	1198.2	1166.0	1728.7	5879.4	7535.2	11567.2	7838.6
72.5°	1755.8	1652.5	1303.3	1130.5	1054.2	947.4	1128.8	2405.0	3359.2	5472.6	3555.8
75°	1608.4	1515.2	1203.3	1035.5	927.1	784.7	852.5	1255.9	1506.7	2179.6	1713.5
77.5°	1427.0	1350.8	1091.5	957.6	822.0	637.3	655.9	871.1	966.1	1247.4	1018.6
80°	1025.4	1052.5	971.1	861.0	732.2	516.9	503.4	635.6	686.4	801.7	662.7
82.5°	720.3	735.6	803.3	703.4	605.1	406.8	371.2	447.4	477.9	527.1	357.6
85°	496.6	479.6	550.8	489.8	437.3	271.2	254.2	303.4	322.0	327.1	184.7
87.5°	298.3	298.3	318.6	262.7	235.6	140.7	137.3	172.9	184.7	176.3	101.7
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°	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5	9560.5
2.5°	9586.0	9465.6	9209.7	9004.6	8745.3	8475.8	8325.0	8164.0	8053.8	7974.2	8101.3
5°	9658.8	9413.1	8884.3	8382.6	7828.4	7252.2	6814.9	6408.2	6125.1	5948.9	6115.0
7.5°	9774.1	9396.1	8553.8	7696.2	6701.4	5742.1	4884.5	4347.2	4033.7	3879.5	3976.1
10°	9906.3	9369.0	8165.7	6765.8	5342.1	4133.7	3493.0	3276.1	3204.9	3176.1	3189.7
12.5°	10016.5	9311.4	7689.4	5640.4	4011.7	3264.2	3079.5	3074.4	3089.7	3093.1	3098.2
15°	10094.4	9226.7	6982.7	4467.6	3208.3	2974.4	2964.3	2994.8	3023.6	3035.4	3042.2
17.5°	10147.0	9052.1	6184.4	3532.0	2874.4	2833.8	2857.5	2896.5	2927.0	2935.4	2942.2
20°	10141.9	8796.2	5233.6	2945.6	2693.1	2693.1	2733.8	2764.3	2766.0	2755.8	2760.9
22.5°	10089.3	8445.3	4311.7	2633.8	2532.1	2560.9	2601.6	2572.8	2454.1	2376.2	2381.2
25°	10001.2	8026.7	3521.9	2435.5	2382.9	2433.8	2421.9	2205.0	2035.5	1959.2	1959.2
27.5°	9923.2	7531.8	2915.1	2262.6	2233.8	2296.5	2086.3	1889.7	1818.6	1783.0	1771.1
30°	9867.3	6998.0	2510.0	2096.5	2093.1	2047.4	1810.1	1755.8	1744.0	1715.2	1705.0
32.5°	9880.9	6457.3	2250.7	1950.8	1962.6	1752.5	1677.9	1689.7	1679.6	1649.1	1635.5
35°	9992.7	5943.8	2081.3	1818.6	1783.0	1583.0	1599.9	1622.0	1618.6	1576.2	1562.6
37.5°	10192.7	5457.4	1969.4	1708.4	1555.9	1498.2	1525.3	1559.2	1550.8	1522.0	1511.8
40°	10402.9	4999.8	1877.9	1622.0	1422.0	1440.6	1464.3	1483.0	1491.5	1499.9	1493.1
42.5°	10607.9	4521.8	1766.0	1533.8	1366.0	1386.4	1396.5	1415.2	1460.9	1493.1	1491.5
45°	10730.0	4072.7	1650.8	1408.4	1322.0	1333.8	1327.1	1364.3	1420.3	1472.8	1474.5
47.5°	10865.6	3723.5	1559.2	1293.2	1279.6	1288.1	1267.7	1305.0	1355.9	1420.3	1427.0
50°	11030.0	3515.1	1486.4	1201.6	1222.0	1222.0	1216.9	1250.8	1322.0	1396.5	1410.1
52.5°	11216.4	3474.4	1425.4	1135.5	1164.3	1162.7	1167.7	1218.6	1296.5	1369.4	1381.3
55°	11443.5	3584.6	1359.3	1086.4	1108.4	1115.2	1132.1	1189.8	1255.9	1338.9	1344.0
57.5°	11707.9	3808.3	1306.7	1047.4	1057.6	1079.6	1106.7	1159.3	1230.4	1322.0	1327.1
58°	11752.0	3855.7	1298.2	1044.0	1047.4	1072.8	1103.3	1154.2	1225.4	1325.4	1330.4
60°	11753.7	4013.4	1279.6	1028.8	1008.4	1050.8	1084.7	1135.5	1216.9	1337.2	1349.1
62.5°	11336.7	4011.7	1266.0	1006.7	967.7	1020.3	1059.3	1118.6	1208.4	1366.0	1389.8
65°	9982.6	3645.6	1201.6	972.8	935.5	993.2	1037.2	1106.7	1232.1	1491.5	1506.7
67.5°	7808.1	2988.0	1081.3	925.4	893.2	966.1	1023.7	1105.0	1257.6	1520.3	1530.4
70°	5162.5	2235.5	949.1	871.1	849.1	933.9	1030.5	1162.7	1228.8	1459.2	1432.1
72.5°	2679.5	1569.4	842.3	803.3	798.3	905.0	1128.8	1155.9	1199.9	1372.8	1338.9
75°	1406.7	1089.8	749.1	728.8	737.3	898.3	1332.1	1125.4	1162.7	1313.5	1377.9
77.5°	861.0	879.6	669.5	661.0	677.9	877.9	1330.4	1086.4	1108.4	1208.4	1279.6
80°	576.2	713.5	608.4	610.1	622.0	803.3	1194.9	1025.4	1042.3	1142.3	1215.2
82.5°	364.4	422.0	552.5	581.3	566.1	662.7	1015.2	933.9	957.6	1306.7	1381.3
85°	184.7	264.4	479.6	559.3	510.1	464.4	823.7	818.6	830.5	942.3	984.7
87.5°	84.7	145.8	374.6	488.1	384.7	289.8	598.3	606.7	654.2	669.5	669.5
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)