

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: P193516

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193516
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-08-LED-E1-AFL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39937 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

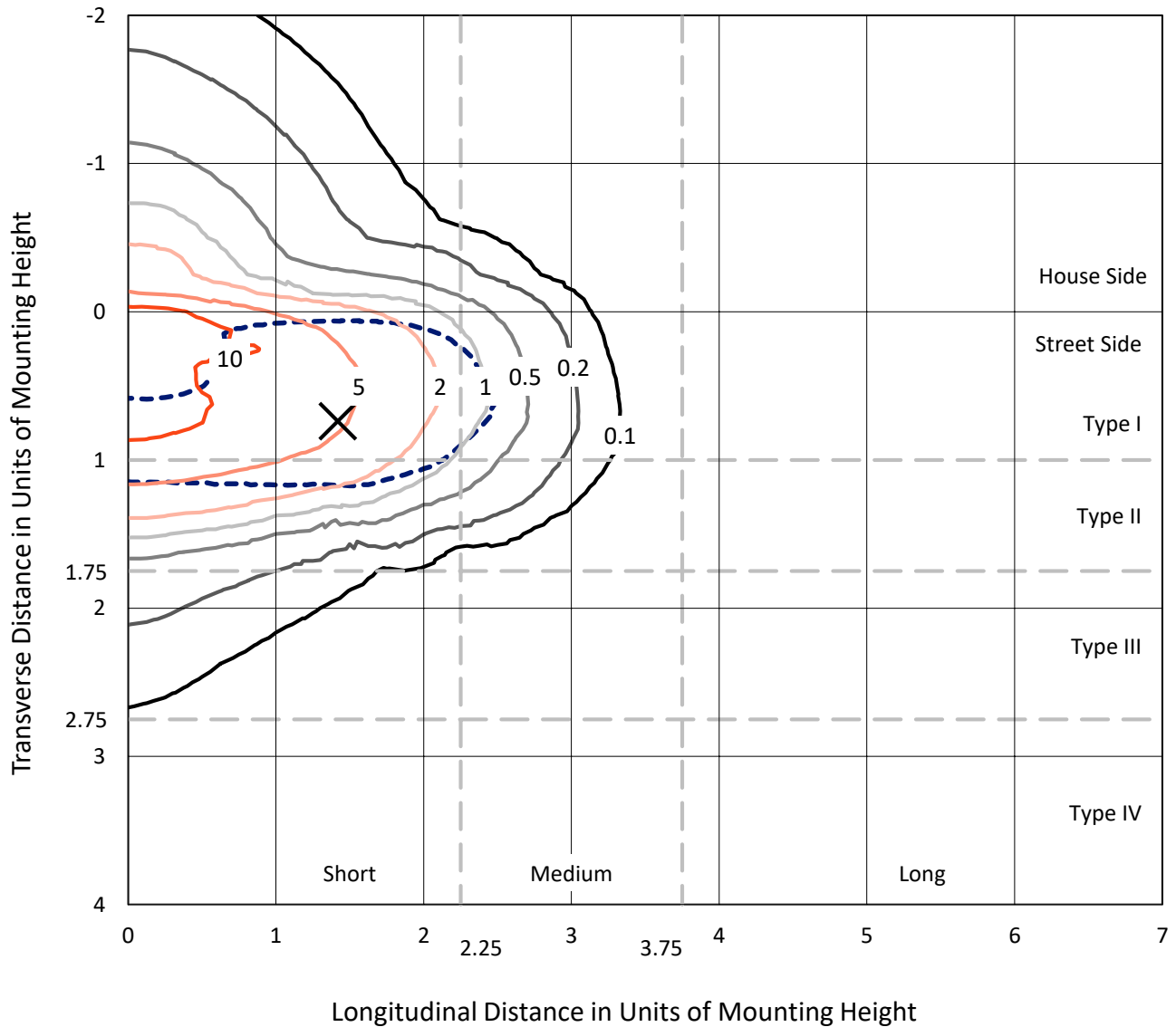
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

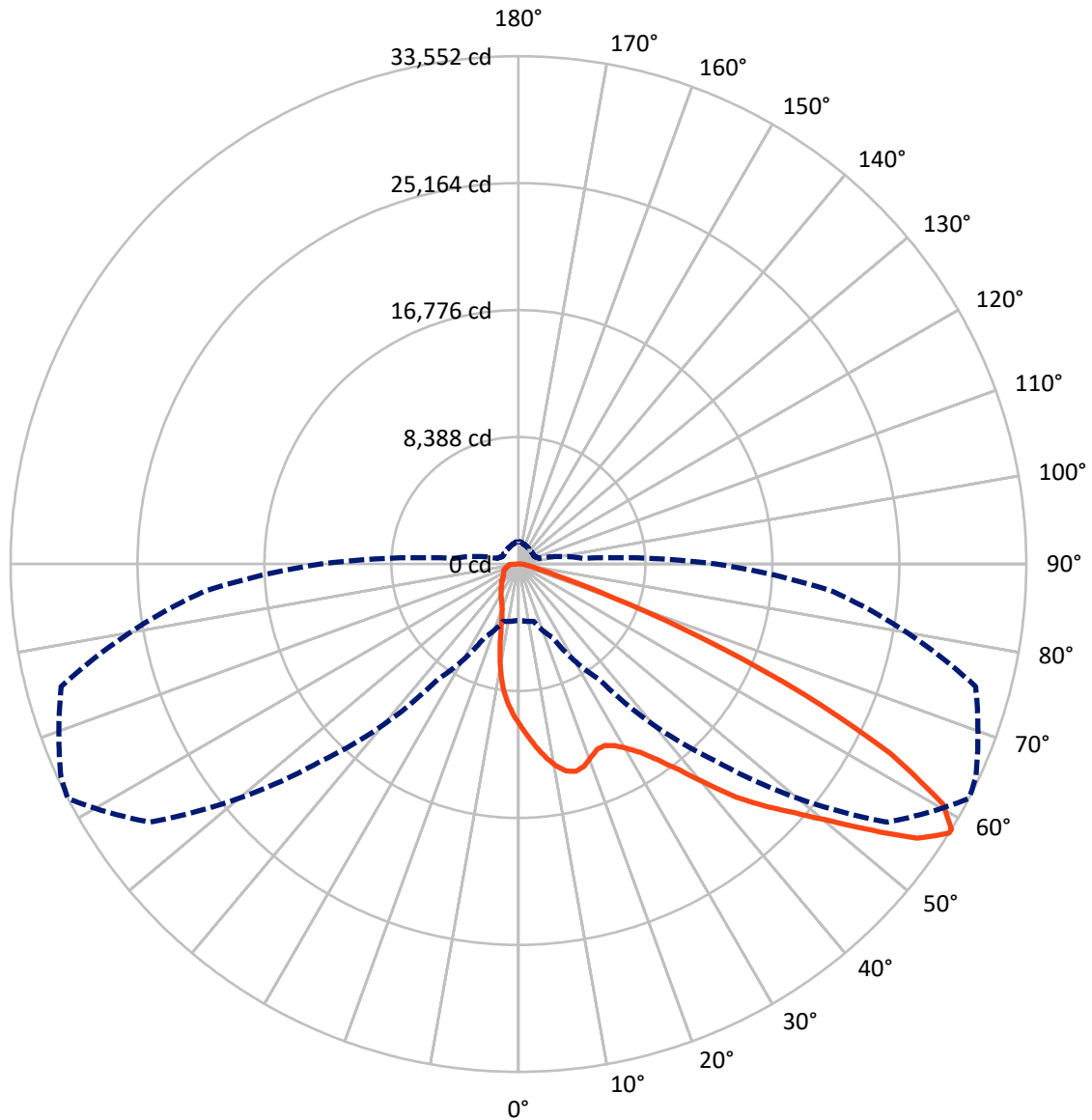
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.4 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	6090.5	0.0	6090.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	33846.4	0.0	33846.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	39937.0	0.0	39937.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	948.8	2.4
10°-20°	2425.2	6.1
20°-30°	3920.4	9.8
30°-40°	6223.6	15.6
40°-50°	9106.5	22.8
50°-60°	9524.6	23.8
60°-70°	5627.1	14.1
70°-80°	1585.2	4.0
80°-90°	575.5	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°	39937.0	100.0
0°-180°	39937.0	100.0



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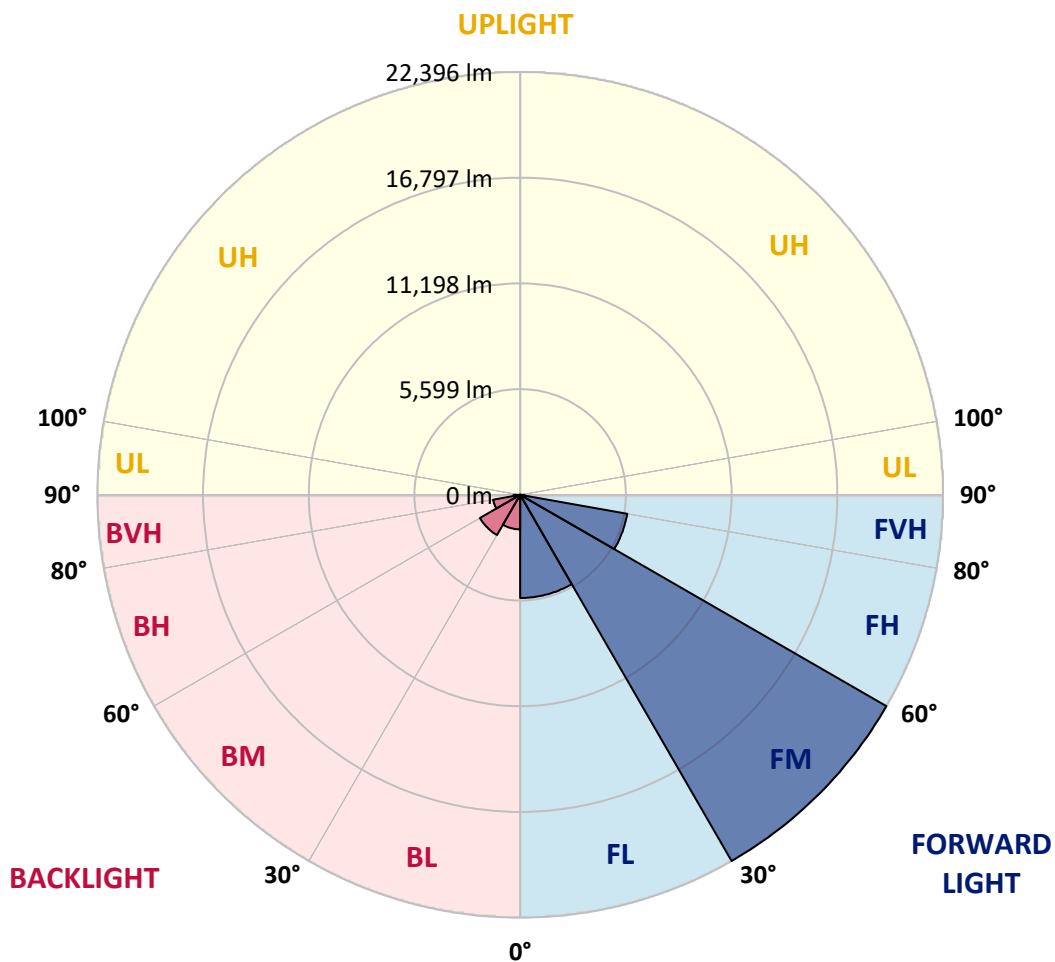
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5463.9	13.7			
FM	(30°-60°)	22396.4	56.1			
FH	(60°-80°)	5759.1	14.4			G3/7500
FVH	(80°-90°)	227.0	0.6			G3/500
BL	(0°-30°)	1830.5	4.6	B3/2500		
BM	(30°-60°)	2458.3	6.2	B2/2500		
BH	(60°-80°)	1453.3	3.6	B3/2500		G3/2500
BVH	(80°-90°)	348.5	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°	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5
2.5°	12122.3	12024.5	11962.5	11907.9	11836.5	11684.2	11479.2	11349.4	11283.6	11059.8	10794.6
5°	13310.9	13224.4	13160.4	13087.1	12959.2	12720.4	12389.4	12126.1	11996.3	11548.7	11018.4
7.5°	13032.5	13068.3	13179.2	13372.9	13538.4	13506.5	13211.2	12876.5	12705.3	12082.8	11277.9
10°	11355.0	11417.1	11608.9	12062.2	12795.6	13547.8	13777.3	13545.9	13372.9	12611.3	11545.0
12.5°	11018.4	11016.5	11031.6	11151.9	11588.2	12647.0	13796.1	14029.3	13925.8	13115.3	11817.7
15°	11155.7	11159.5	11148.2	11199.0	11334.4	11753.7	13220.6	14215.4	14288.8	13623.0	12099.8
17.5°	11516.8	11507.4	11464.1	11464.1	11513.0	11676.6	12543.6	14042.4	14380.9	14072.5	12348.0
20°	12122.3	12079.1	11964.4	11859.0	11806.4	11894.8	12265.3	13643.7	14221.1	14465.6	12553.0
22.5°	12855.8	12821.9	12635.7	12410.1	12227.6	12225.8	12408.2	13295.8	13944.6	14836.0	12726.0
25°	13803.6	13749.0	13472.6	13111.5	12791.8	12669.6	12720.4	13278.9	13794.2	15238.5	12880.2
27.5°	14916.9	14817.2	14490.0	13969.1	13498.9	13252.6	13179.2	13585.4	13931.5	15736.8	13094.6
30°	16267.2	16152.5	15733.1	15054.2	14390.3	13986.0	13829.9	14128.9	14386.6	16344.3	13438.8
32.5°	17803.6	17638.1	17152.9	16404.5	15531.9	14915.0	14661.1	14847.3	15052.3	17075.8	13869.4
35°	19926.8	19729.3	19027.9	17995.4	17010.0	16161.9	15755.6	15891.0	16090.4	18166.6	14491.9
37.5°	21374.9	21286.5	20820.1	19849.7	18777.8	17801.7	17173.6	17252.6	17365.4	19530.0	15289.3
40°	21361.7	21397.4	21406.8	21416.2	20686.6	19751.9	19076.8	18994.0	18971.5	21027.0	16195.7
42.5°	20291.6	20438.3	20912.2	21873.2	22317.1	21888.3	21269.6	21030.7	20912.2	22791.0	17156.7
45°	18653.6	18732.6	19620.3	21497.1	23152.0	24003.9	23535.7	22783.4	22569.1	24412.0	17954.1
47.5°	17809.3	17895.8	18454.3	20500.4	23142.6	25713.4	25984.2	24551.2	24167.6	25822.5	18642.4
50°	15798.9	15979.4	16682.8	18766.5	22298.2	26499.5	28543.7	26657.5	25863.9	27195.3	19332.5
52.5°	12107.3	12385.6	13173.6	15915.5	20156.2	26110.2	30591.7	29211.3	28090.5	28617.1	19924.9
55°	7637.1	7844.0	8505.9	11240.3	16124.2	24084.8	31368.4	31973.9	30977.2	29963.6	20438.3
57.5°	4152.4	4244.5	4492.7	6206.0	10488.1	19607.1	30236.2	33546.1	33132.4	31107.0	20825.7
58°	3716.1	3778.1	3932.3	5378.5	9301.4	18382.8	29734.1	33551.7	33344.9	31274.3	20855.8
60°	2757.0	2725.0	2587.7	3069.1	5177.3	12699.7	26698.8	32209.0	32816.4	31479.3	20709.1
62.5°	2422.2	2345.1	2064.9	2032.9	2518.1	5850.5	20428.9	27590.2	29025.1	30309.6	19817.7
65°	2275.5	2192.8	1831.7	1715.1	1816.7	2474.9	12033.9	20692.2	22491.9	26762.8	17538.5
67.5°	2166.4	2059.3	1683.1	1523.3	1530.8	1636.1	4823.7	13032.5	15057.9	20319.9	13641.9
70°	2061.1	1944.5	1557.1	1372.8	1329.6	1293.9	1918.2	6523.8	8361.1	12835.1	8697.8
72.5°	1948.3	1833.6	1446.2	1254.4	1169.7	1051.3	1252.5	2668.6	3727.3	6072.4	3945.5
75°	1784.7	1681.3	1335.2	1149.0	1028.7	870.7	945.9	1393.5	1671.9	2418.4	1901.3
77.5°	1583.5	1498.8	1211.1	1062.5	912.1	707.1	727.8	966.6	1071.9	1384.1	1130.2
80°	1137.8	1167.9	1077.6	955.3	812.4	573.6	558.5	705.2	761.6	889.5	735.3
82.5°	799.3	816.2	891.4	780.4	671.4	451.3	411.9	496.5	530.3	584.9	396.8
85°	551.0	532.2	611.2	543.5	485.2	300.9	282.1	336.6	357.3	363.0	205.0
87.5°	331.0	331.0	353.6	291.5	261.4	156.1	152.3	191.8	205.0	195.6	112.8
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°	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5	10608.5
2.5°	10636.7	10503.1	10219.2	9991.6	9703.9	9404.9	9237.5	9058.8	8936.6	8848.2	8989.3
5°	10717.5	10444.8	9858.1	9301.4	8686.5	8047.1	7561.9	7110.5	6796.5	6600.9	6785.2
7.5°	10845.4	10426.0	9491.4	8539.8	7435.9	6371.5	5419.9	4823.7	4475.8	4304.7	4411.9
10°	10992.1	10395.9	9060.7	7507.3	5927.6	4586.8	3875.9	3635.2	3556.2	3524.2	3539.3
12.5°	11114.3	10332.0	8532.3	6258.6	4451.4	3622.0	3417.0	3411.4	3428.3	3432.1	3437.7
15°	11200.8	10238.0	7748.1	4957.3	3560.0	3300.4	3289.2	3323.0	3355.0	3368.2	3375.7
17.5°	11259.1	10044.3	6862.3	3919.2	3189.5	3144.4	3170.7	3213.9	3247.8	3257.2	3264.7
20°	11253.5	9760.3	5807.3	3268.5	2988.3	2988.3	3033.4	3067.3	3069.1	3057.9	3063.5
22.5°	11195.2	9371.0	4784.2	2922.4	2809.6	2841.6	2886.7	2854.7	2723.1	2636.6	2642.2
25°	11097.4	8906.5	3907.9	2702.4	2644.1	2700.5	2687.4	2446.7	2258.6	2174.0	2174.0
27.5°	11010.9	8357.4	3234.6	2510.6	2478.6	2548.2	2315.0	2096.9	2017.9	1978.4	1965.2
30°	10948.8	7765.0	2785.2	2326.3	2322.5	2271.8	2008.5	1948.3	1935.1	1903.2	1891.9
32.5°	10963.9	7165.1	2497.4	2164.6	2177.7	1944.5	1861.8	1875.0	1863.7	1829.8	1814.8
35°	11088.0	6595.3	2309.4	2017.9	1978.4	1756.5	1775.3	1799.7	1796.0	1749.0	1733.9
37.5°	11309.9	6055.5	2185.3	1895.6	1726.4	1662.4	1692.5	1730.1	1720.7	1688.8	1677.5
40°	11543.1	5547.8	2083.7	1799.7	1577.8	1598.5	1624.8	1645.5	1654.9	1664.3	1656.8
42.5°	11770.7	5017.4	1959.6	1701.9	1515.8	1538.3	1549.6	1570.3	1621.1	1656.8	1654.9
45°	11906.1	4519.1	1831.7	1562.8	1466.9	1480.0	1472.5	1513.9	1575.9	1634.2	1636.1
47.5°	12056.5	4131.7	1730.1	1434.9	1419.9	1429.3	1406.7	1448.1	1504.5	1575.9	1583.5
50°	12238.9	3900.4	1649.3	1333.3	1355.9	1355.9	1350.3	1387.9	1466.9	1549.6	1564.7
52.5°	12445.8	3855.2	1581.6	1260.0	1292.0	1290.1	1295.7	1352.1	1438.7	1519.5	1532.7
55°	12697.8	3977.5	1508.2	1205.5	1229.9	1237.4	1256.2	1320.2	1393.5	1485.7	1491.3
57.5°	12991.2	4225.7	1449.9	1162.2	1173.5	1197.9	1228.0	1286.3	1365.3	1466.9	1472.5
58°	13040.1	4278.4	1440.5	1158.4	1162.2	1190.4	1224.3	1280.7	1359.7	1470.6	1476.3
60°	13041.9	4453.3	1419.9	1141.5	1119.0	1166.0	1203.6	1260.0	1350.3	1483.8	1497.0
62.5°	12579.3	4451.4	1404.8	1117.1	1073.8	1132.1	1175.4	1241.2	1340.9	1515.8	1542.1
65°	11076.7	4045.2	1333.3	1079.5	1038.1	1102.0	1150.9	1228.0	1367.2	1654.9	1671.9
67.5°	8663.9	3315.5	1199.8	1026.8	991.1	1071.9	1135.9	1226.1	1395.4	1686.9	1698.2
70°	5728.3	2480.5	1053.1	966.6	942.2	1036.2	1143.4	1290.1	1363.4	1619.2	1589.1
72.5°	2973.2	1741.4	934.7	891.4	885.8	1004.2	1252.5	1282.6	1331.5	1523.3	1485.7
75°	1560.9	1209.2	831.2	808.7	818.1	996.7	1478.1	1248.7	1290.1	1457.5	1528.9
77.5°	955.3	976.0	742.8	733.4	752.2	974.1	1476.3	1205.5	1229.9	1340.9	1419.9
80°	639.4	791.7	675.1	677.0	690.2	891.4	1325.8	1137.8	1156.6	1267.5	1348.4
82.5°	404.3	468.3	613.1	645.0	628.1	735.3	1126.5	1036.2	1062.5	1449.9	1532.7
85°	205.0	293.4	532.2	620.6	566.1	515.3	914.0	908.3	921.5	1045.6	1092.6
87.5°	94.0	161.7	415.6	541.6	426.9	321.6	663.9	673.3	725.9	742.8	742.8
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)