

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: P193650

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5594 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

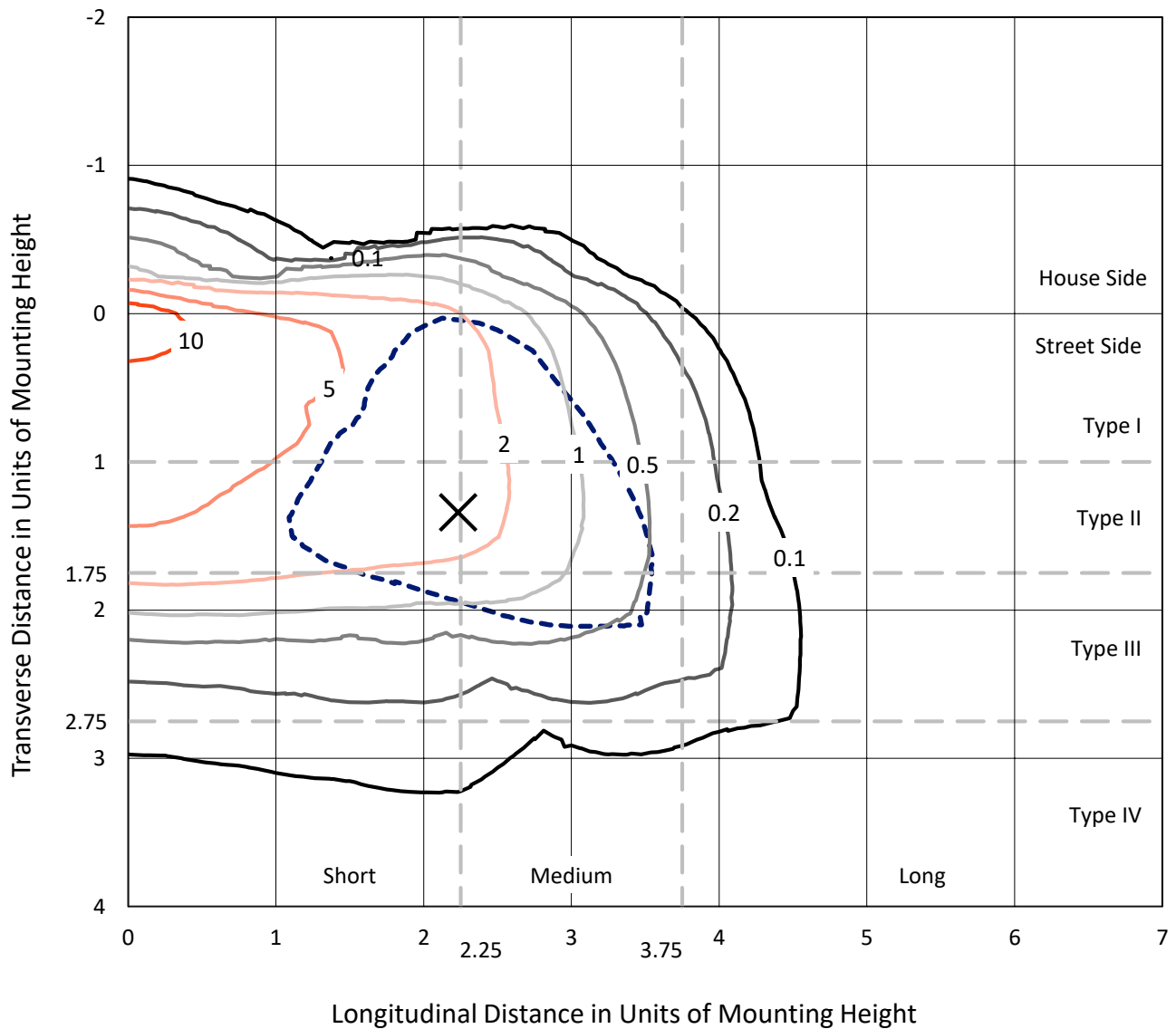


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

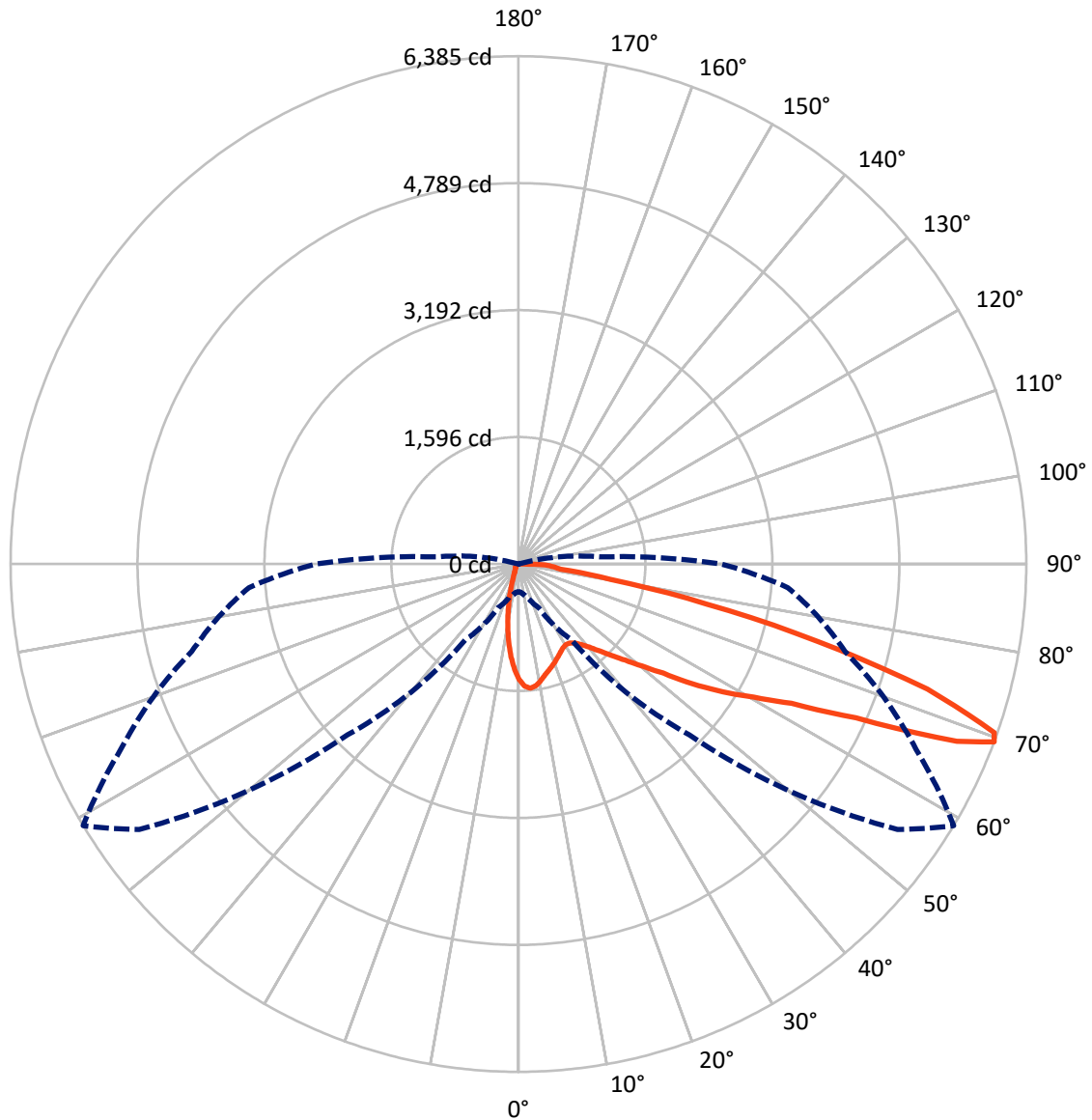


Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	455.6	0.0	455.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	5138.4	0.0	5138.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	5594.0	0.0	5594.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	2.1
10°-20°	244.2	4.4
20°-30°	328.6	5.9
30°-40°	477.1	8.5
40°-50°	794.4	14.2
50°-60°	1239.3	22.2
60°-70°	1533.6	27.4
70°-80°	777.2	13.9
80°-90°	81.3	1.5
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°	5594.0	100.0
0°-180°	5594.0	100.0



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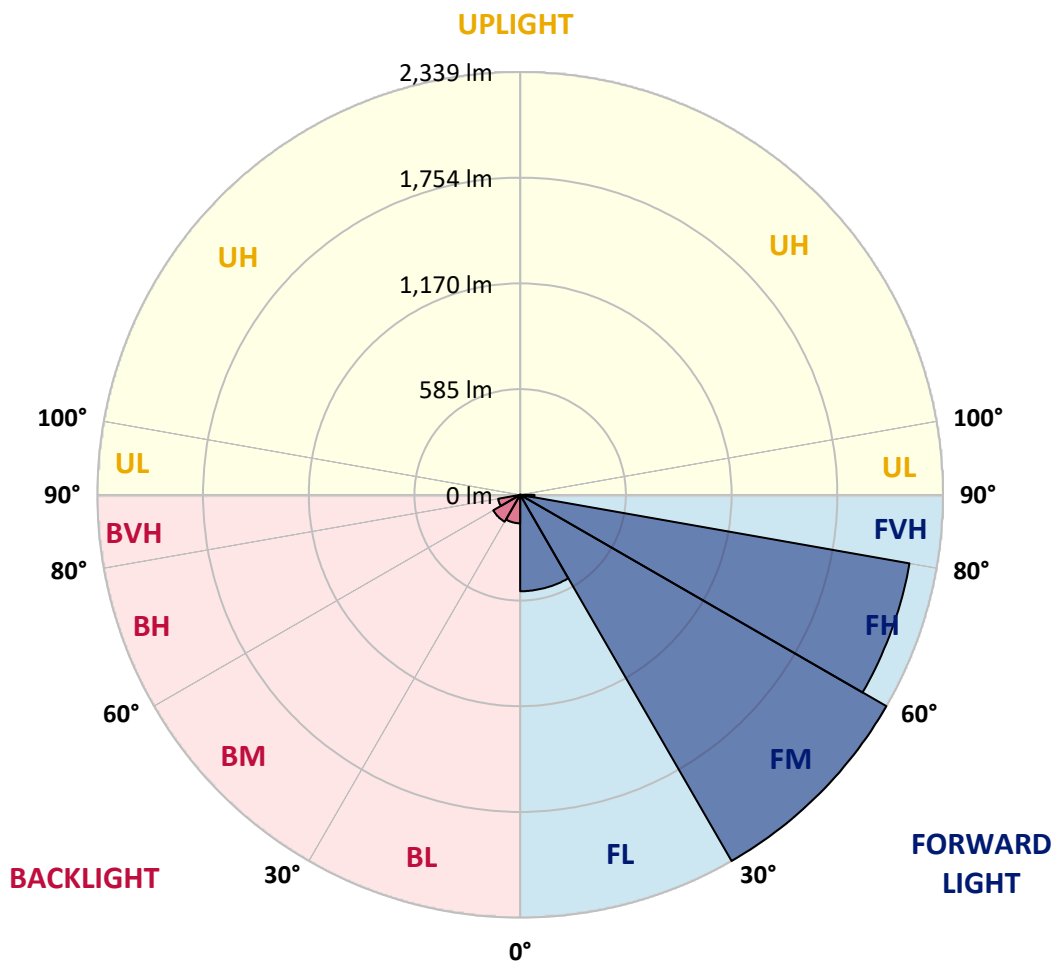
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.3	9.5			
FM	(30°-60°)	2339.2	41.8			
FH	(60°-80°)	2187.0	39.1			G2/5000
FVH	(80°-90°)	78.8	1.4			G1/100
BL	(0°-30°)	157.7	2.8	B1/500		
BM	(30°-60°)	171.7	3.1	B0/220		
BH	(60°-80°)	123.7	2.2	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0
2.5°	1595.9	1595.2	1588.3	1585.1	1579.4	1567.4	1548.7	1538.9	1523.1	1495.6	1458.6
5°	1581.3	1588.9	1593.0	1593.3	1597.4	1593.0	1576.2	1568.0	1546.2	1501.9	1435.5
7.5°	1482.6	1485.5	1497.2	1507.3	1526.9	1545.6	1551.6	1548.1	1535.1	1487.7	1399.4
10°	1377.0	1379.8	1393.7	1407.0	1433.6	1462.4	1492.7	1499.1	1504.4	1467.4	1364.6
12.5°	1285.9	1288.7	1302.9	1320.3	1351.3	1386.8	1433.9	1444.3	1468.1	1448.1	1336.8
15°	1207.4	1208.7	1222.6	1244.1	1281.1	1326.7	1380.1	1396.9	1433.3	1434.5	1312.4
17.5°	1140.7	1143.8	1152.4	1172.9	1213.4	1269.7	1332.0	1356.1	1398.8	1423.1	1288.7
20°	1099.9	1103.0	1102.7	1114.1	1150.5	1210.6	1284.0	1312.7	1364.6	1411.4	1267.5
22.5°	1092.0	1092.0	1083.7	1082.1	1103.7	1154.0	1234.0	1269.1	1333.9	1406.4	1252.6
25°	1120.1	1118.8	1098.3	1081.5	1082.5	1112.5	1185.6	1227.3	1308.0	1409.9	1244.7
27.5°	1179.6	1178.0	1152.1	1120.1	1094.5	1094.2	1148.9	1193.8	1287.4	1426.3	1247.9
30°	1261.8	1261.2	1233.0	1192.9	1146.4	1103.7	1136.2	1177.0	1274.2	1456.0	1255.2
32.5°	1351.7	1350.7	1329.5	1287.1	1228.3	1146.4	1149.5	1183.7	1278.0	1495.6	1272.9
35°	1446.9	1445.3	1436.1	1399.1	1334.3	1225.1	1193.2	1219.7	1302.0	1554.7	1307.7
37.5°	1550.0	1551.6	1558.2	1522.8	1454.8	1335.5	1266.2	1284.3	1350.4	1635.1	1364.3
40°	1702.1	1701.8	1704.0	1657.5	1592.1	1470.6	1368.4	1374.1	1431.4	1741.7	1450.3
42.5°	1978.3	1959.0	1900.5	1805.6	1739.8	1625.0	1497.2	1491.2	1530.4	1873.6	1570.9
45°	2349.3	2308.2	2156.4	1974.5	1890.4	1798.9	1655.6	1636.3	1661.3	2032.1	1719.5
47.5°	2668.5	2625.8	2411.0	2150.4	2050.1	1964.1	1841.3	1806.5	1814.8	2209.5	1908.1
50°	2777.0	2756.1	2568.6	2303.5	2204.8	2171.9	2056.7	2014.4	2002.6	2414.8	2126.6
52.5°	2739.4	2737.8	2612.8	2402.8	2346.5	2387.0	2327.8	2278.8	2235.8	2631.2	2349.0
55°	2679.0	2686.9	2630.9	2489.8	2487.9	2583.4	2698.6	2657.8	2533.1	2866.2	2540.7
57.5°	2512.2	2546.1	2620.7	2654.3	2732.1	2829.8	3007.3	3031.3	2883.9	3046.2	2699.8
60°	2038.4	2112.7	2356.9	2678.0	3046.8	3290.4	3379.9	3400.5	3171.8	3195.8	2914.6
62.5°	1446.9	1522.8	1832.5	2375.6	3051.6	3895.5	3935.1	3854.4	3488.7	3417.6	3285.0
65°	768.0	826.6	1079.6	1714.8	2645.7	4036.0	4905.9	4665.5	4048.0	3853.8	3763.6
67.5°	392.9	410.6	511.2	839.2	1818.9	3584.9	5776.1	5945.3	5011.8	4286.5	3740.5
69°	347.6	358.1	424.8	606.7	1164.7	3036.4	5818.5	6384.7	5516.4	4250.4	3399.2
70°	336.6	345.7	406.5	549.1	910.4	2546.4	5656.2	6346.1	5645.4	4113.2	3144.3
72.5°	285.6	293.5	361.9	485.2	739.9	1264.0	4594.6	5377.5	5065.9	3426.4	2276.0
75°	191.1	217.0	347.3	454.9	688.3	718.1	3029.1	3886.0	3609.9	2311.1	1185.6
77.5°	45.9	49.3	98.1	361.9	629.5	632.0	1557.9	2415.8	1970.4	823.7	280.3
80°	24.7	23.7	27.5	71.8	586.1	593.1	701.3	1172.6	703.5	136.7	92.4
82.5°	17.4	16.4	17.7	30.1	184.4	540.3	507.4	530.8	291.7	52.5	41.4
85°	6.3	6.0	9.8	27.2	57.9	310.6	521.3	437.8	236.3	24.0	30.4
87.5°	2.2	1.9	3.8	14.9	17.7	132.2	321.7	330.9	93.0	14.6	14.2
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°	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0	1456.0
2.5°	1443.1	1423.5	1387.4	1350.4	1316.2	1275.1	1254.5	1234.3	1225.8	1222.6	1207.7
5°	1401.3	1368.1	1291.6	1214.7	1143.8	1068.5	1018.9	979.0	955.6	944.2	926.2
7.5°	1347.9	1293.5	1177.4	1058.7	948.3	839.5	758.9	696.9	654.2	633.6	614.9
10°	1296.0	1223.5	1058.4	896.8	746.8	602.6	491.3	410.6	359.0	335.3	320.1
12.5°	1249.5	1155.5	943.6	738.9	550.7	381.8	268.6	204.3	172.4	161.3	155.9
15°	1208.0	1092.9	835.1	589.0	372.9	218.3	146.8	124.9	119.9	119.9	119.3
17.5°	1168.8	1031.5	730.4	448.2	234.1	133.5	111.7	108.8	108.8	110.1	110.1
20°	1131.2	973.0	629.2	321.7	147.4	106.0	100.9	100.3	100.9	102.5	102.5
22.5°	1098.9	919.9	534.6	220.8	109.4	95.5	93.0	92.1	92.4	93.3	93.9
25°	1074.9	875.0	445.4	149.6	94.3	87.0	84.1	82.6	81.3	81.3	81.9
27.5°	1059.7	837.0	359.0	108.8	84.8	79.1	74.7	72.1	69.3	67.7	68.3
30°	1048.6	800.9	278.0	88.9	75.9	70.2	64.5	60.4	56.3	54.4	55.0
32.5°	1044.5	771.8	207.8	78.4	68.0	61.7	54.7	49.3	44.9	43.3	43.7
35°	1055.6	748.7	152.2	70.9	61.7	53.8	45.9	39.9	36.4	35.4	35.7
37.5°	1084.7	736.4	113.9	64.5	56.0	47.1	38.3	32.6	30.4	30.4	30.7
40°	1139.7	736.1	91.4	60.1	50.9	40.8	31.6	27.5	26.3	26.9	27.2
42.5°	1220.1	752.9	79.7	56.0	46.5	34.8	26.3	23.4	23.1	23.7	24.0
45°	1329.8	783.5	73.4	52.5	41.8	29.1	22.1	20.2	20.2	21.2	21.5
47.5°	1464.3	828.5	68.0	49.0	37.0	24.4	19.0	17.7	18.0	19.0	19.3
50°	1626.2	885.1	62.6	45.2	33.5	20.2	16.4	15.5	15.8	17.1	17.4
52.5°	1810.6	961.3	58.2	41.8	29.1	16.8	13.9	13.3	13.9	15.2	15.5
55°	1968.8	1029.6	52.8	38.9	23.4	13.9	11.4	11.4	12.0	13.6	13.9
57.5°	2121.0	1101.1	48.1	33.5	18.3	11.1	9.5	9.8	10.8	12.3	12.7
60°	2344.3	1222.3	42.4	28.2	13.9	8.9	7.9	8.2	9.5	11.1	11.4
62.5°	2723.6	1406.7	36.7	23.4	10.8	7.0	6.3	7.0	8.5	10.4	10.8
65°	3065.8	1481.7	30.1	19.6	8.2	5.4	5.4	6.3	8.2	10.1	10.4
67.5°	2875.1	1247.3	23.4	15.5	6.3	4.1	4.4	6.0	7.9	10.1	10.4
69°	2542.6	1019.8	19.9	12.3	5.4	3.8	4.1	6.0	7.9	9.8	10.1
70°	2283.5	861.0	17.7	10.4	4.7	3.8	4.1	5.7	7.9	9.8	10.1
72.5°	1529.4	465.0	14.2	7.6	4.4	3.5	3.5	5.7	7.6	9.5	9.8
75°	657.3	128.4	11.4	5.4	3.8	3.2	3.2	5.4	7.3	9.2	9.8
77.5°	120.2	32.6	9.2	4.7	3.8	3.2	2.8	5.1	7.0	8.9	9.2
80°	47.8	16.1	7.3	4.1	3.5	2.8	2.5	4.7	6.6	8.5	8.9
82.5°	28.8	9.2	6.0	3.8	3.5	2.5	2.2	4.1	6.3	8.2	8.5
85°	23.4	6.3	4.7	3.8	3.2	2.5	1.9	3.8	5.7	7.9	8.2
87.5°	11.4	4.4	4.4	3.5	3.2	2.5	1.9	3.5	5.4	7.6	7.9
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)