

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: P450837

Luminaire Tested: **GALN-SA1C-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5603 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT



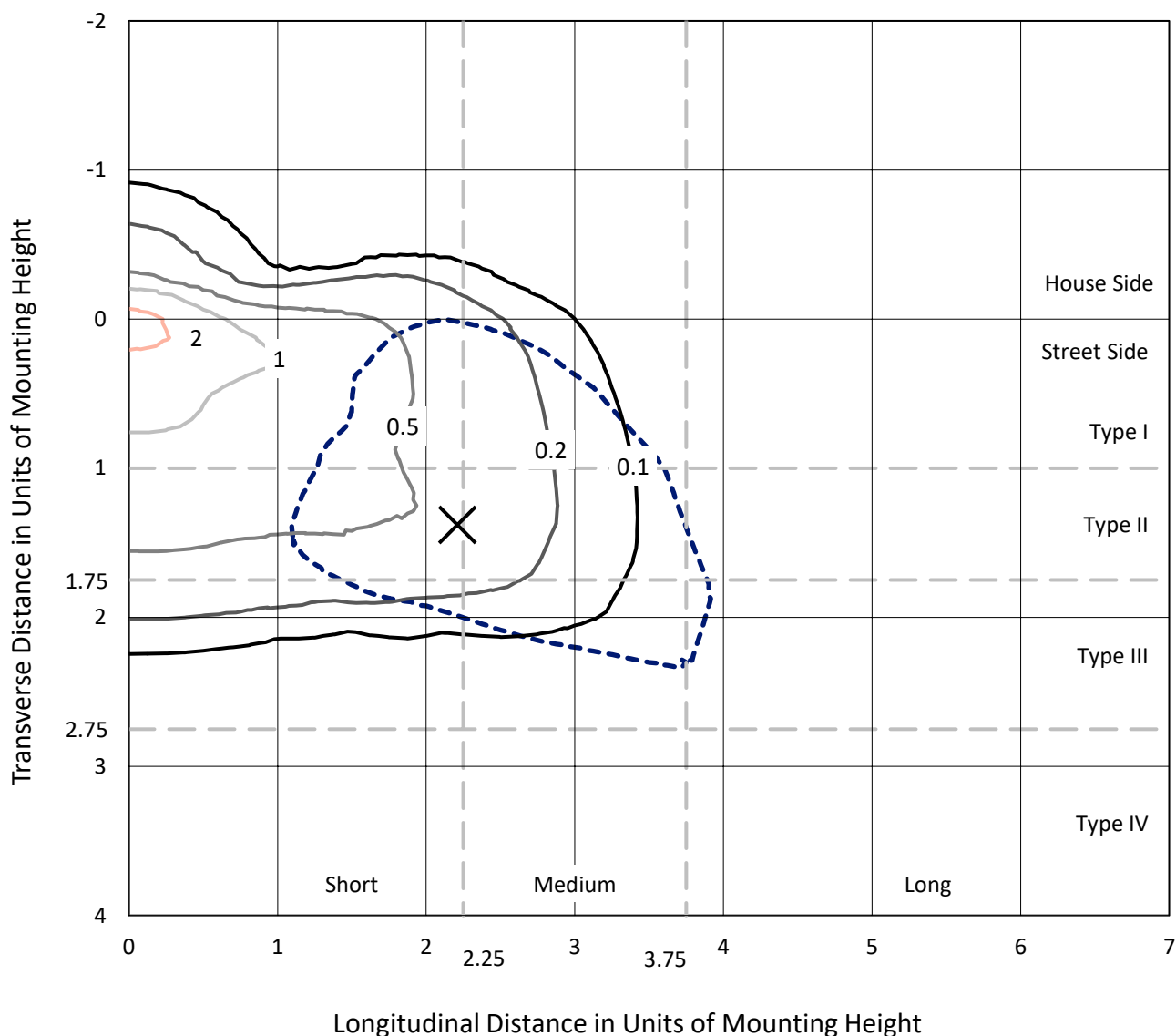
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

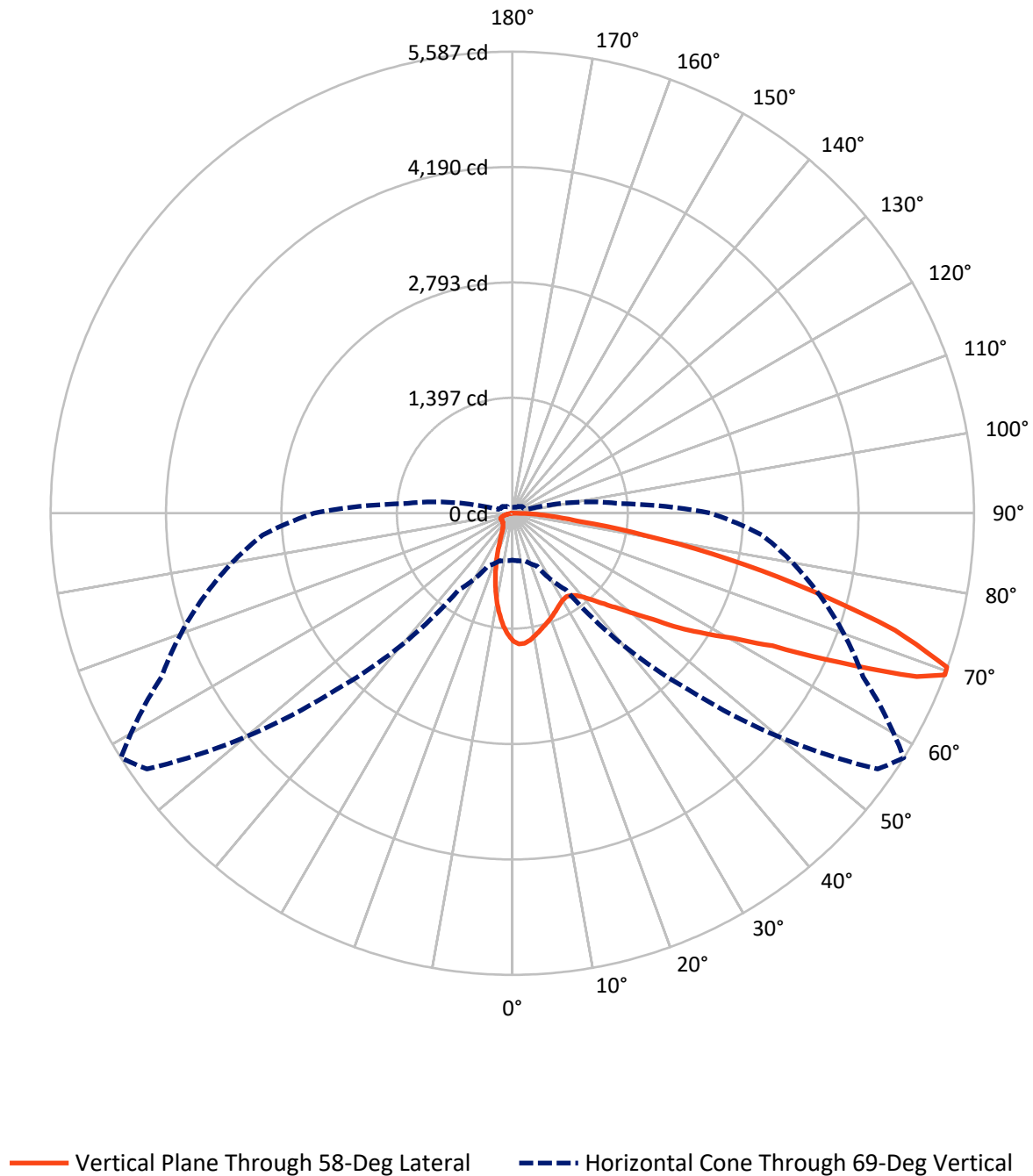


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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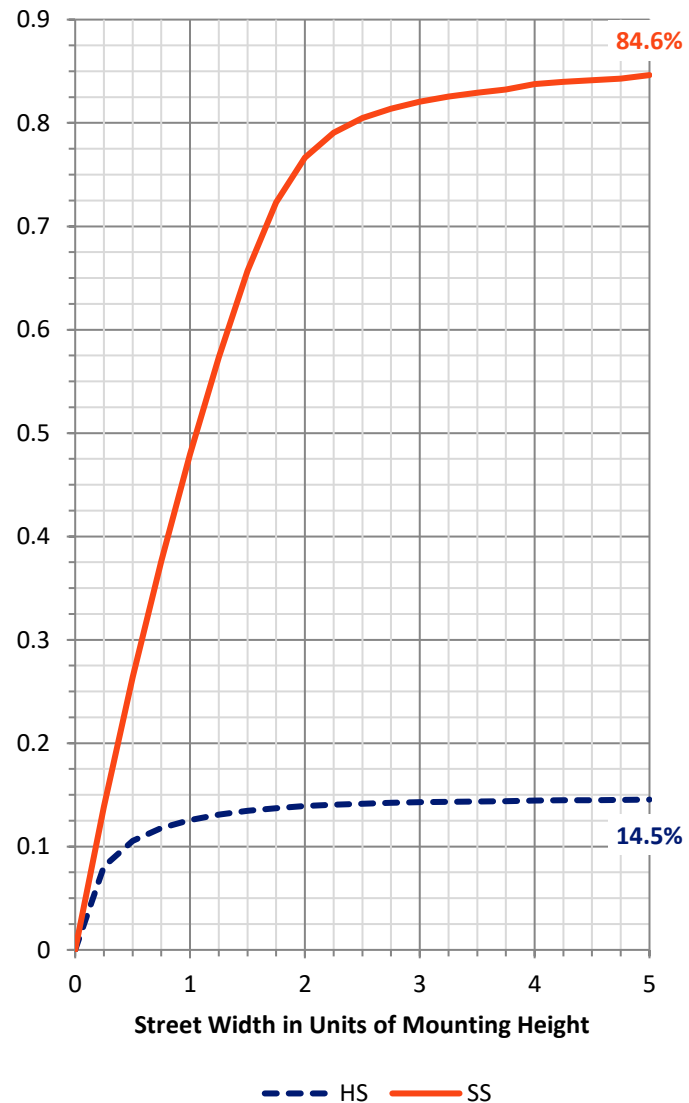
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	821.1	0.0	821.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4781.9	0.0	4781.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	5603.0	0.0	5603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	2.3
10°-20°	288.7	5.2
20°-30°	373.0	6.7
30°-40°	484.5	8.6
40°-50°	704.4	12.6
50°-60°	1124.0	20.1
60°-70°	1501.5	26.8
70°-80°	865.6	15.4
80°-90°	129.6	2.3
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°	5603.0	100.0
0°-180°	5603.0	100.0

Coefficient of Utilization



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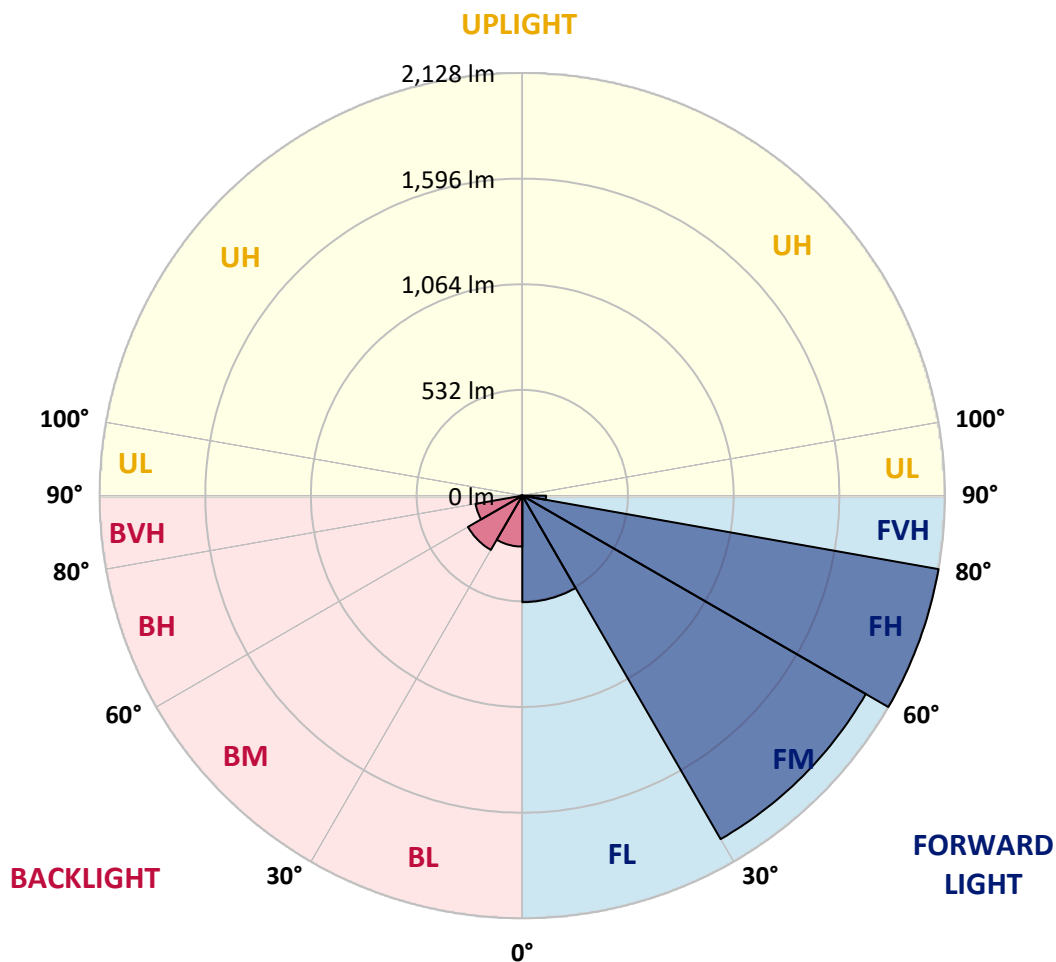
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	536.6	9.6			
FM	(30°-60°)	1997.2	35.6			
FH	(60°-80°)	2128.4	38.0			G2/5000
FVH	(80°-90°)	119.7	2.1			G2/225
BL	(0°-30°)	256.6	4.6	B1/500		
BM	(30°-60°)	315.8	5.6	B1/1000		
BH	(60°-80°)	238.8	4.3	B1/500		G1/500
BVH	(80°-90°)	9.9	0.2			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°	58°	65°	75°	85°
0°	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3
2.5°	1605.8	1610.2	1609.0	1607.4	1604.9	1598.0	1586.8	1584.9	1577.7	1562.4	1543.3
5°	1581.2	1584.9	1585.2	1587.4	1590.5	1589.3	1581.2	1580.2	1569.6	1549.0	1517.1
7.5°	1496.5	1501.5	1512.4	1524.6	1535.5	1545.8	1548.3	1549.9	1543.3	1519.6	1477.1
10°	1401.2	1406.2	1411.2	1429.3	1456.2	1481.8	1503.0	1505.8	1507.4	1485.5	1433.7
12.5°	1295.5	1305.9	1316.5	1343.4	1379.3	1419.6	1457.1	1463.0	1473.7	1457.1	1396.2
15°	1205.9	1216.5	1231.8	1255.9	1299.3	1357.4	1410.2	1419.9	1440.8	1432.4	1361.2
17.5°	1143.7	1147.4	1158.1	1185.6	1232.4	1293.7	1364.3	1383.7	1417.1	1414.9	1331.2
20°	1094.6	1099.3	1105.9	1122.7	1171.5	1236.2	1321.5	1346.5	1391.8	1399.3	1301.5
22.5°	1074.0	1077.4	1076.5	1085.6	1118.7	1183.7	1278.0	1307.7	1369.3	1388.7	1274.0
25°	1075.2	1078.4	1073.7	1071.5	1091.2	1137.4	1232.7	1270.5	1351.2	1381.5	1249.0
27.5°	1096.2	1098.4	1089.6	1080.9	1082.4	1108.7	1195.2	1237.1	1335.9	1384.6	1228.0
30°	1124.3	1128.4	1122.7	1112.1	1100.6	1101.8	1171.2	1212.4	1328.7	1395.5	1218.0
32.5°	1160.6	1164.3	1161.8	1153.4	1138.4	1121.8	1165.2	1203.4	1329.3	1417.7	1215.9
35°	1198.7	1206.2	1210.2	1209.6	1197.4	1168.7	1188.7	1220.2	1344.3	1454.9	1228.7
37.5°	1241.8	1248.0	1265.5	1276.8	1265.5	1232.1	1241.5	1263.4	1377.4	1508.7	1256.8
40°	1283.7	1293.0	1318.7	1353.7	1349.3	1319.9	1322.1	1336.5	1435.8	1588.7	1311.8
42.5°	1327.4	1338.7	1383.4	1435.2	1445.5	1422.7	1428.7	1441.5	1519.0	1699.6	1406.2
45°	1383.7	1397.1	1452.1	1516.8	1557.4	1543.3	1560.2	1566.5	1630.2	1843.9	1530.5
47.5°	1456.2	1471.8	1539.6	1620.2	1677.7	1690.5	1719.9	1716.1	1768.0	2014.9	1691.8
50°	1578.3	1587.1	1651.1	1733.3	1812.4	1870.2	1902.1	1908.0	1938.9	2181.1	1872.1
52.5°	1723.6	1731.5	1777.7	1849.6	1948.6	2071.1	2149.9	2130.5	2138.0	2383.6	2083.0
55°	1887.1	1900.2	1929.6	1977.4	2105.8	2286.1	2444.2	2448.9	2365.8	2577.3	2285.2
57.5°	2013.6	2035.8	2086.1	2154.2	2317.0	2525.2	2737.6	2740.8	2634.5	2784.2	2508.3
60°	1949.9	1976.1	2091.1	2257.0	2594.2	2942.3	3088.2	3070.4	2896.1	3019.8	2780.5
62.5°	1674.9	1679.6	1846.8	2106.1	2679.5	3500.4	3610.1	3534.8	3245.1	3318.5	3057.0
65°	1084.0	1114.6	1247.1	1610.5	2399.2	3810.1	4524.4	4350.4	3734.5	3657.6	3288.5
67.5°	684.3	676.5	731.5	919.6	1650.2	3537.3	5304.7	5277.2	4374.4	3871.6	3233.2
69°	567.5	576.2	595.0	705.0	1135.6	3020.1	5396.9	5586.8	4684.7	3854.8	3032.3
70°	514.7	518.7	538.4	625.0	876.2	2529.5	5245.6	5578.4	4806.6	3784.1	2886.7
72.5°	408.4	408.1	441.8	520.0	655.0	1444.0	4307.2	4843.1	4670.3	3455.4	2385.2
75°	310.3	315.3	352.5	440.0	603.4	789.0	3005.8	3729.8	3730.1	2729.2	1488.3
77.5°	223.7	226.9	270.3	369.4	568.4	639.6	2002.1	2675.1	2514.8	1250.5	467.8
80°	146.6	148.4	181.6	292.5	512.5	603.4	1187.1	1637.4	1186.2	331.9	154.7
82.5°	80.3	89.7	110.9	189.4	411.2	557.5	721.5	828.7	445.0	147.8	80.6
85°	40.3	42.8	62.5	110.6	268.7	461.2	502.5	475.3	229.7	73.4	41.9
87.5°	11.9	15.0	25.9	42.8	109.1	240.3	279.7	250.9	88.4	26.6	8.7
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°	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3
2.5°	1535.5	1529.9	1504.9	1482.4	1461.8	1439.9	1421.5	1405.2	1406.8	1407.1	1390.5
5°	1500.5	1487.7	1440.2	1395.9	1358.4	1310.9	1270.2	1244.0	1230.9	1213.4	1219.6
7.5°	1453.0	1428.3	1362.4	1288.7	1219.6	1158.1	1091.2	1045.2	1015.9	987.4	991.2
10°	1404.0	1364.3	1268.4	1170.9	1081.5	983.1	897.8	824.6	770.3	750.0	736.5
12.5°	1353.7	1301.5	1179.6	1049.9	926.5	808.7	687.8	609.3	549.3	517.5	521.5
15°	1307.7	1244.3	1087.1	929.0	768.7	628.4	507.8	433.1	391.2	382.5	387.5
17.5°	1265.2	1182.1	1000.6	811.5	624.3	471.2	381.5	339.4	322.5	317.8	317.5
20°	1221.5	1129.3	903.4	685.9	486.5	365.3	313.1	293.4	290.3	292.2	292.5
22.5°	1177.1	1064.0	803.4	561.2	387.5	298.7	273.7	268.4	270.9	275.3	275.9
25°	1136.2	1006.5	707.1	451.8	309.4	262.5	250.3	250.3	255.9	262.5	262.8
27.5°	1102.4	950.9	611.2	358.7	259.0	236.2	232.2	234.4	242.2	247.2	247.5
30°	1074.6	899.0	520.6	287.5	227.8	215.3	214.4	218.1	223.7	228.4	228.7
32.5°	1053.7	853.4	435.9	241.5	206.2	199.4	199.1	201.9	205.0	206.2	207.5
35°	1045.6	815.6	358.4	212.5	191.9	187.5	187.5	187.2	188.4	189.1	189.7
37.5°	1052.1	786.5	298.4	193.7	181.2	178.1	176.2	174.4	173.7	173.7	174.1
40°	1079.9	771.2	253.7	181.6	173.7	169.1	165.6	163.4	161.2	161.9	162.5
42.5°	1139.0	774.0	223.4	173.4	167.2	160.6	155.6	153.1	151.6	153.4	153.1
45°	1233.0	802.1	204.0	167.8	160.6	152.2	147.5	145.0	145.0	147.8	148.7
47.5°	1364.6	855.9	193.7	163.4	155.6	145.6	140.9	139.1	139.7	144.4	144.7
50°	1525.2	949.3	191.9	161.2	153.1	140.9	135.6	133.7	135.3	140.3	140.9
52.5°	1702.4	1069.6	200.9	161.6	150.9	138.1	131.2	128.4	130.0	134.1	135.3
55°	1912.4	1220.2	224.4	162.8	147.8	136.6	128.1	121.9	123.7	126.6	126.9
57.5°	2126.7	1410.2	265.6	163.1	145.3	133.7	122.8	114.7	114.7	116.6	117.5
60°	2388.6	1617.1	320.0	163.4	145.6	129.7	115.6	106.6	105.3	106.2	106.6
62.5°	2648.6	1790.2	329.0	162.5	148.7	125.6	107.8	98.4	96.2	95.9	95.3
65°	2763.3	1758.0	269.7	158.1	152.2	123.1	101.6	90.6	86.9	85.6	85.6
67.5°	2576.4	1487.1	202.8	152.2	150.0	120.6	95.6	84.1	79.7	77.2	77.2
69°	2400.8	1322.7	182.2	148.1	144.4	116.6	91.9	80.6	75.3	72.5	71.6
70°	2265.2	1209.6	173.4	144.7	139.1	111.9	89.1	78.1	72.2	69.1	68.4
72.5°	1807.7	949.0	151.9	131.6	118.4	94.1	79.1	70.3	64.7	61.2	60.3
75°	1041.8	514.3	125.9	114.4	95.3	73.1	66.9	61.2	56.9	53.7	52.8
77.5°	320.6	198.7	91.2	90.3	70.0	56.6	53.4	51.2	48.1	44.7	44.1
80°	135.0	101.2	61.9	60.9	46.6	39.4	38.4	38.1	36.9	34.1	33.1
82.5°	74.1	57.2	43.1	37.5	28.1	22.8	23.7	24.1	23.1	20.3	18.4
85°	36.2	31.2	20.9	16.9	12.8	8.1	7.8	9.4	8.7	6.2	6.9
87.5°	7.2	8.7	5.6	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
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)