

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: P451084

Luminaire Tested: **GALN-SA1D-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6365 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
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: 24 FT

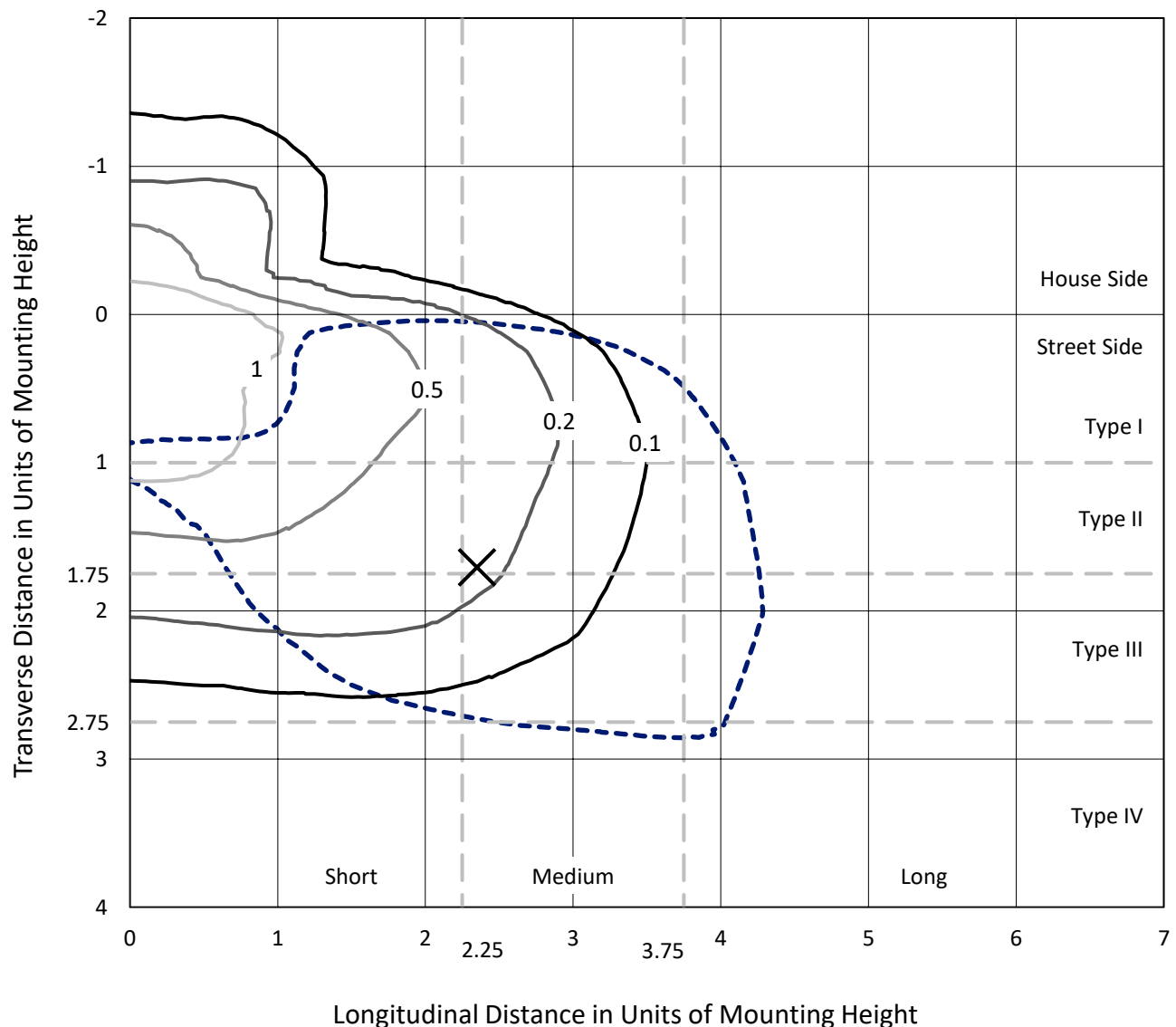


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

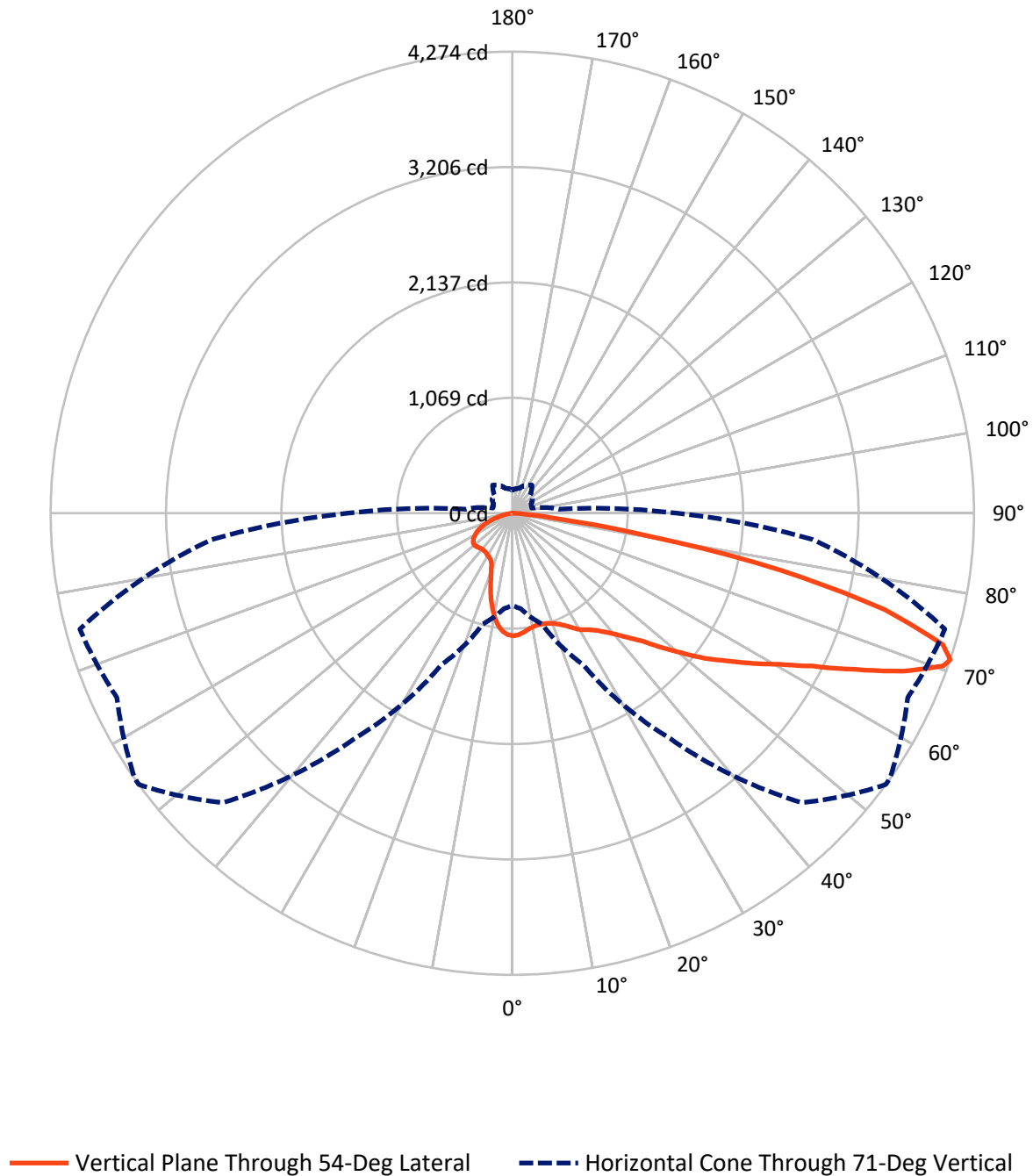


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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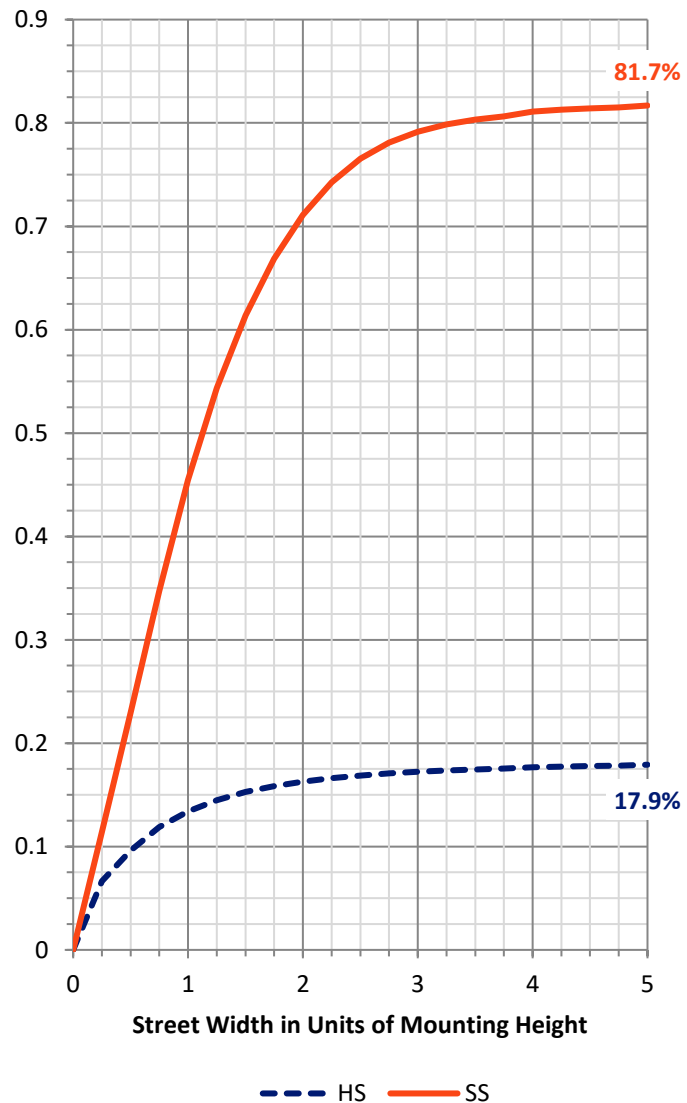
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1149.2	0.0	1149.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5215.8	0.0	5215.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	6365.0	0.0	6365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.6
10°-20°	267.2	4.2
20°-30°	444.9	7.0
30°-40°	657.9	10.3
40°-50°	926.7	14.6
50°-60°	1240.9	19.5
60°-70°	1564.0	24.6
70°-80°	1068.2	16.8
80°-90°	93.9	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°	6365.0	100.0
0°-180°	6365.0	100.0

Coefficient of Utilization



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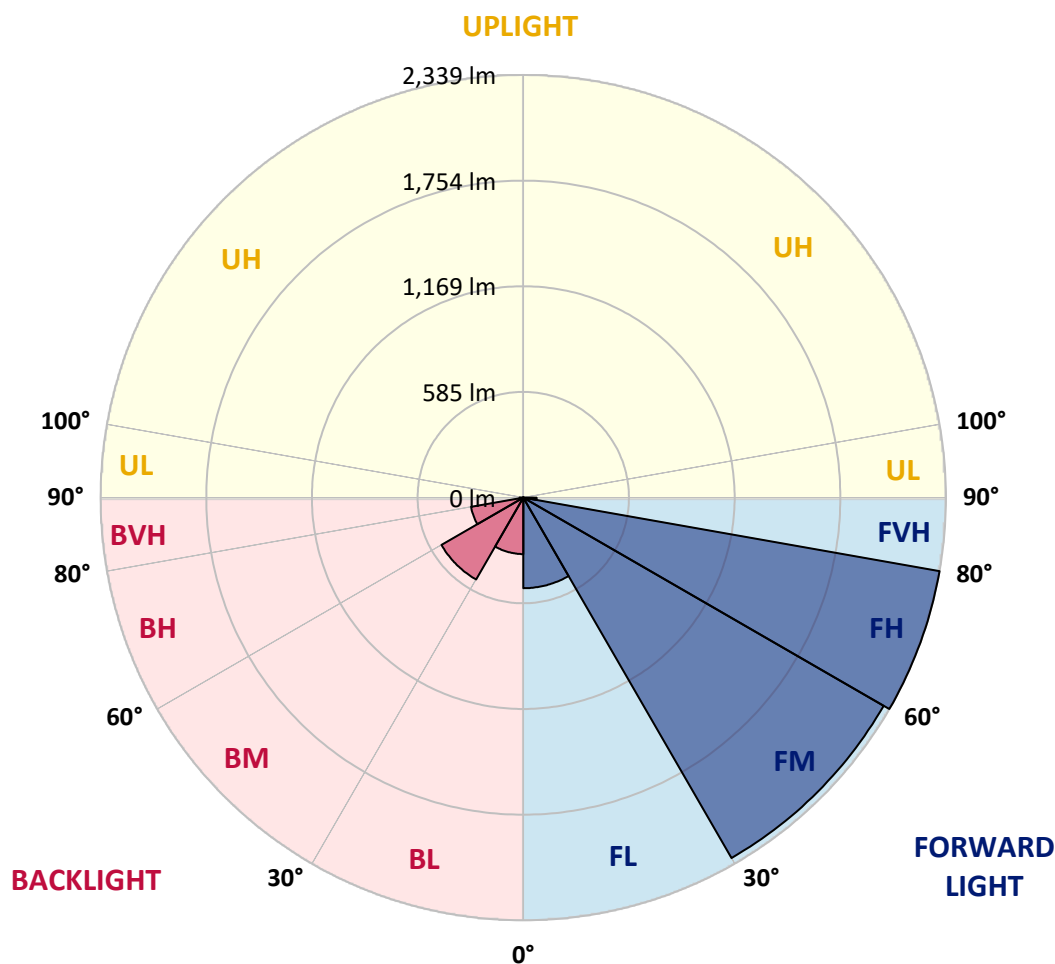
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.0	7.9			
FM	(30°-60°)	2302.6	36.2			
FH	(60°-80°)	2338.8	36.7			G2/5000
FVH	(80°-90°)	73.4	1.2			G1/100
BL	(0°-30°)	312.3	4.9	B1/500		
BM	(30°-60°)	522.8	8.2	B1/1000		
BH	(60°-80°)	293.5	4.6	B1/500		G1/500
BVH	(80°-90°)	20.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6
2.5°	1097.1	1102.3	1103.6	1107.1	1114.3	1120.1	1126.0	1125.3	1133.5	1137.0	1140.1
5°	1048.3	1049.7	1054.8	1061.7	1074.4	1090.6	1106.4	1106.7	1127.0	1143.2	1151.1
7.5°	1012.5	1017.0	1020.4	1027.7	1041.1	1058.6	1083.7	1085.8	1121.9	1153.8	1170.7
10°	989.1	994.3	998.1	1007.0	1020.4	1040.0	1067.2	1071.0	1118.1	1170.7	1200.2
12.5°	967.8	973.0	976.4	988.1	1005.6	1029.7	1060.3	1064.8	1119.5	1190.3	1232.6
15°	980.9	985.0	983.6	987.1	998.8	1026.3	1063.1	1067.5	1124.6	1209.2	1264.5
17.5°	1039.0	1042.4	1031.1	1018.0	1012.5	1032.8	1071.7	1076.5	1134.9	1228.8	1297.2
20°	1124.6	1133.9	1109.1	1079.9	1053.4	1056.2	1089.5	1094.7	1149.4	1248.4	1330.6
22.5°	1236.0	1242.9	1212.6	1164.5	1115.7	1090.6	1116.4	1119.5	1171.0	1273.8	1367.0
25°	1367.0	1371.1	1329.2	1267.3	1196.8	1149.4	1153.1	1158.6	1206.8	1302.7	1399.3
27.5°	1494.2	1507.3	1458.8	1383.2	1290.3	1211.2	1203.7	1207.1	1245.6	1318.9	1421.7
30°	1645.1	1644.1	1592.9	1505.2	1386.2	1278.6	1251.5	1250.8	1266.6	1326.8	1437.8
32.5°	1765.5	1779.6	1729.4	1633.8	1495.9	1348.4	1284.5	1283.1	1282.8	1340.5	1461.9
35°	1902.3	1904.4	1858.3	1762.0	1614.5	1436.1	1330.6	1323.7	1315.8	1370.1	1494.5
37.5°	2024.7	2034.3	1992.0	1884.1	1731.1	1527.2	1393.8	1389.3	1365.3	1421.3	1546.8
40°	2120.3	2127.5	2102.1	1999.3	1845.9	1625.5	1474.3	1466.0	1436.8	1505.2	1616.6
42.5°	2151.6	2166.4	2176.3	2125.8	1977.9	1742.1	1573.3	1563.0	1540.6	1632.4	1697.1
45°	2154.0	2177.4	2230.0	2232.4	2110.7	1881.7	1688.8	1681.6	1679.9	1795.4	1810.2
47.5°	2135.8	2159.5	2247.8	2295.6	2228.9	2022.6	1855.6	1844.2	1845.2	1996.9	1937.0
50°	2091.8	2119.9	2227.2	2336.2	2321.4	2169.1	2031.6	2027.8	2049.1	2226.9	2068.7
52.5°	2008.9	2042.9	2205.9	2361.6	2390.2	2295.3	2231.7	2221.0	2275.0	2476.5	2212.8
55°	1779.6	1830.8	2127.9	2375.7	2455.5	2416.0	2411.8	2431.1	2502.6	2748.8	2371.3
57.5°	1659.9	1698.4	1958.4	2378.1	2538.0	2556.2	2622.3	2627.1	2752.2	3037.9	2550.4
60°	1594.6	1628.6	1865.5	2362.3	2653.2	2729.9	2837.5	2854.7	2996.0	3351.1	2736.1
62.5°	1537.5	1566.8	1809.8	2307.7	2783.2	2987.4	3116.3	3124.6	3272.7	3697.0	2919.3
65°	1403.1	1436.4	1697.7	2253.0	2895.2	3309.2	3486.3	3476.6	3567.4	3995.4	3034.1
67.5°	1221.9	1264.2	1488.4	2064.2	2950.6	3660.9	3903.0	3890.9	3858.3	4191.1	3067.1
70°	990.5	1013.2	1220.5	1738.0	2729.5	3845.5	4232.0	4219.3	4038.4	4216.9	2911.1
71°	852.3	887.7	1062.7	1543.7	2545.6	3789.1	4274.3	4270.8	4038.8	4145.7	2793.5
72.5°	665.3	686.9	841.7	1196.1	2163.6	3468.7	4169.7	4182.8	3951.1	3948.0	2551.1
75°	420.8	430.5	528.1	704.1	1187.2	2456.5	3559.5	3594.9	3508.3	3231.5	1897.2
77.5°	244.5	256.8	316.3	415.0	513.0	1333.3	2547.0	2585.5	2437.6	1779.2	776.7
80°	142.3	156.1	208.3	241.0	235.5	494.7	1296.9	1362.5	1055.5	449.4	218.0
82.5°	79.1	88.4	146.5	146.8	125.5	161.6	408.1	427.0	301.2	181.2	89.0
85°	57.4	65.0	94.5	85.6	60.2	69.4	142.0	148.9	121.7	76.3	28.9
87.5°	20.3	28.9	51.9	41.3	16.5	14.4	40.9	33.3	30.9	21.3	6.5
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°	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6
2.5°	1141.8	1142.5	1139.0	1132.9	1126.7	1118.8	1109.8	1102.9	1099.9	1099.5	1099.2
5°	1154.2	1155.9	1142.8	1123.6	1102.3	1076.1	1053.8	1028.3	1021.8	1011.5	1014.6
7.5°	1174.1	1173.1	1147.3	1106.4	1056.5	1001.2	954.4	927.3	899.1	891.2	891.5
10°	1202.7	1196.1	1147.3	1071.3	988.1	905.9	840.6	799.4	777.0	758.4	751.6
12.5°	1232.9	1216.4	1136.3	1022.2	900.1	799.4	729.2	673.5	659.1	644.0	644.3
15°	1261.8	1234.3	1114.6	953.0	805.2	685.6	617.5	584.1	579.7	581.4	581.0
17.5°	1287.9	1247.0	1081.6	876.0	694.5	587.9	551.8	554.2	566.3	574.9	575.9
20°	1314.4	1254.6	1032.5	772.9	590.0	528.8	530.2	549.1	567.3	579.0	580.7
22.5°	1339.5	1258.0	974.7	673.2	514.3	503.7	524.0	544.3	562.1	573.5	575.2
25°	1356.0	1250.1	892.9	569.0	477.2	494.7	516.1	533.3	548.4	560.1	562.8
27.5°	1360.5	1224.7	791.5	484.8	460.0	486.1	505.7	518.5	530.2	541.2	543.2
30°	1358.1	1187.2	680.1	435.3	450.0	476.2	491.3	500.6	514.7	523.3	525.0
32.5°	1354.3	1143.5	563.9	408.8	441.8	466.9	475.8	484.1	483.7	480.3	482.7
35°	1355.6	1091.3	469.6	393.0	434.6	460.0	467.6	457.3	427.7	426.3	425.0
37.5°	1362.9	1039.7	401.2	382.0	430.8	459.0	463.1	415.7	389.5	377.5	374.4
40°	1381.4	979.5	356.2	373.7	430.5	466.9	442.8	394.7	344.5	321.1	319.4
42.5°	1406.2	920.4	328.7	368.6	434.6	478.9	434.6	365.1	310.5	296.7	294.6
45°	1443.0	852.7	313.6	366.2	440.8	483.4	431.8	343.5	296.7	285.7	285.7
47.5°	1484.6	788.0	305.3	364.4	448.7	480.3	407.4	336.6	290.2	291.6	298.1
50°	1525.8	732.0	299.1	360.7	455.6	478.6	397.4	336.2	291.9	309.4	321.1
52.5°	1573.6	692.4	291.6	354.5	455.6	467.6	394.4	343.1	296.7	301.9	307.0
55°	1631.4	680.1	281.9	341.1	447.3	440.1	392.6	353.1	300.1	288.1	290.2
57.5°	1707.7	700.0	272.6	324.2	428.4	411.5	391.9	355.8	292.2	282.3	280.2
60°	1796.4	739.5	269.9	307.0	402.6	387.1	387.8	347.9	281.2	270.9	272.6
62.5°	1858.6	763.3	268.2	294.0	374.4	360.3	377.8	338.3	276.4	267.5	269.2
65°	1858.6	734.4	252.4	274.0	338.0	328.0	365.8	326.3	270.2	259.9	258.2
67.5°	1788.2	650.1	228.3	244.1	297.7	291.2	349.0	311.8	261.0	253.0	248.9
70°	1604.6	493.0	198.0	209.0	246.9	252.7	327.3	292.2	245.5	235.9	229.7
71°	1523.8	429.4	185.3	191.2	227.3	235.9	317.0	284.0	238.6	224.9	213.9
72.5°	1368.0	361.7	166.1	168.5	194.3	209.7	295.3	268.2	225.5	205.9	193.6
75°	1039.3	264.0	133.7	132.4	143.7	166.4	250.0	238.9	197.7	171.2	164.0
77.5°	449.0	143.7	100.0	101.1	97.6	126.2	196.7	205.3	169.5	139.2	132.7
80°	136.1	82.9	68.4	69.8	65.3	84.6	138.6	160.9	136.1	108.3	99.4
82.5°	69.8	49.5	46.8	46.1	41.6	47.8	83.9	110.0	97.3	67.7	59.8
85°	30.3	26.5	23.0	22.3	19.6	17.2	29.9	55.0	51.6	37.8	36.1
87.5°	7.6	6.9	4.5	4.1	2.4	0.3	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)