

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: P451067

Luminaire Tested: **GALN-SA1D-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6209 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
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

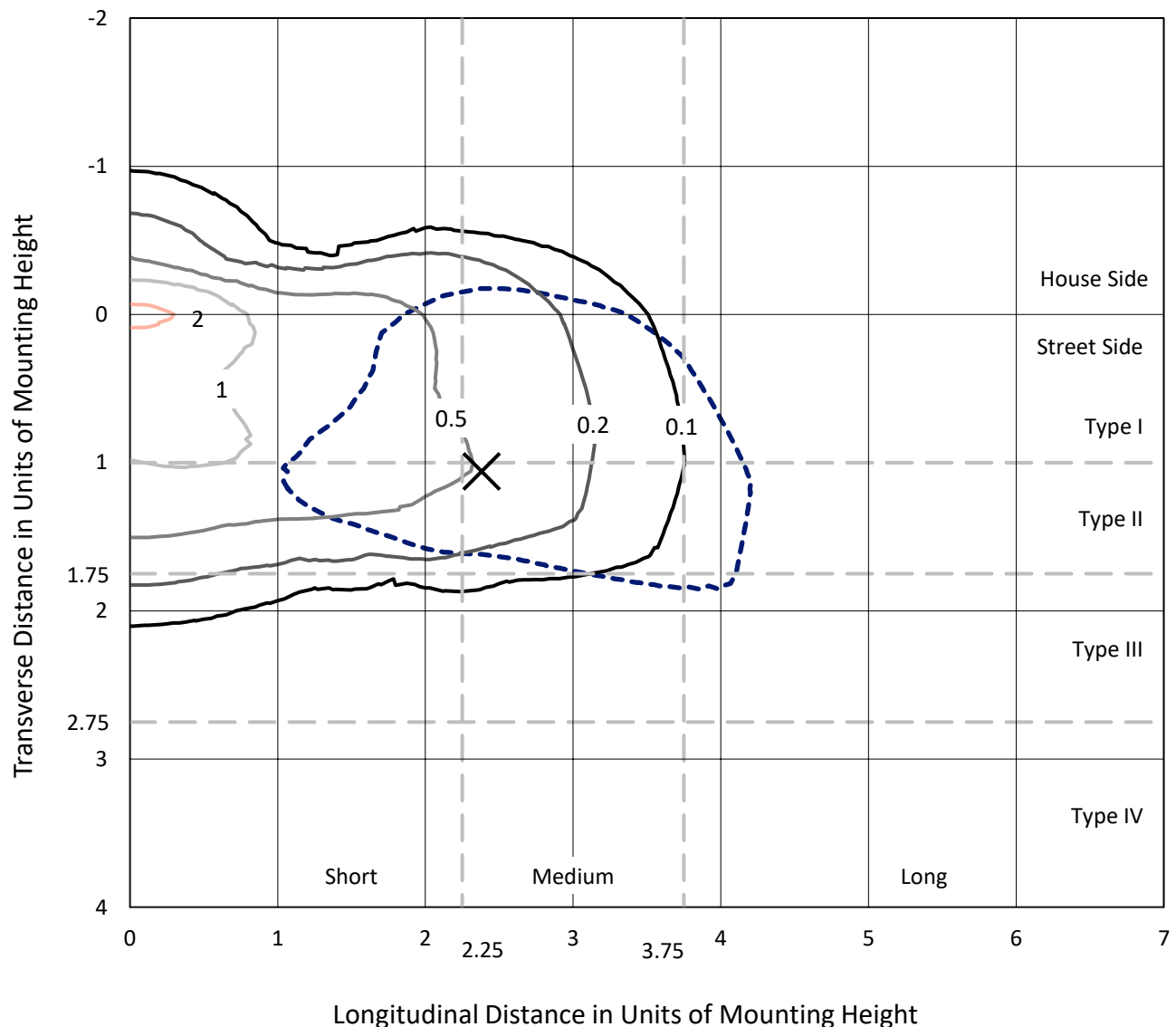


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

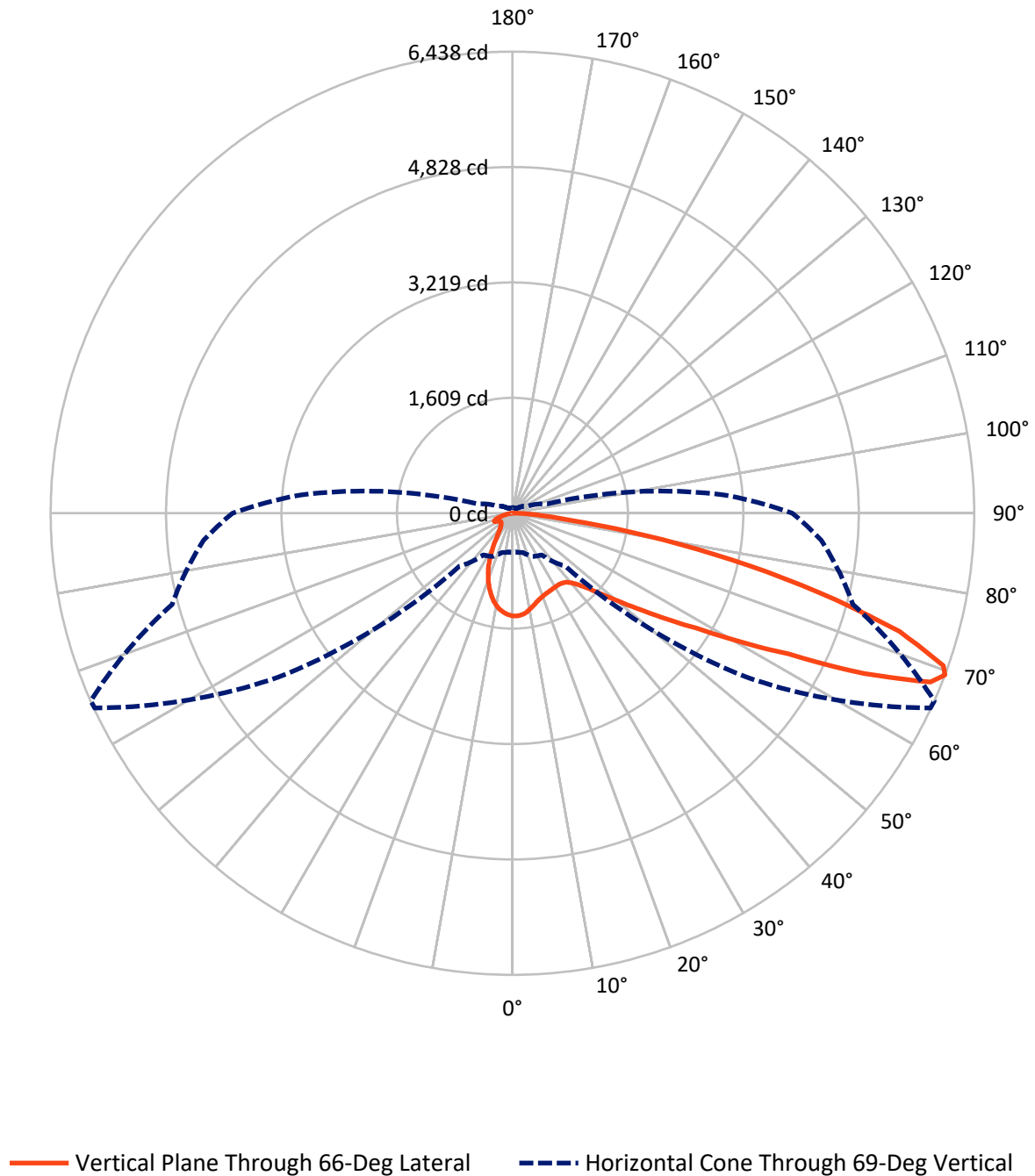


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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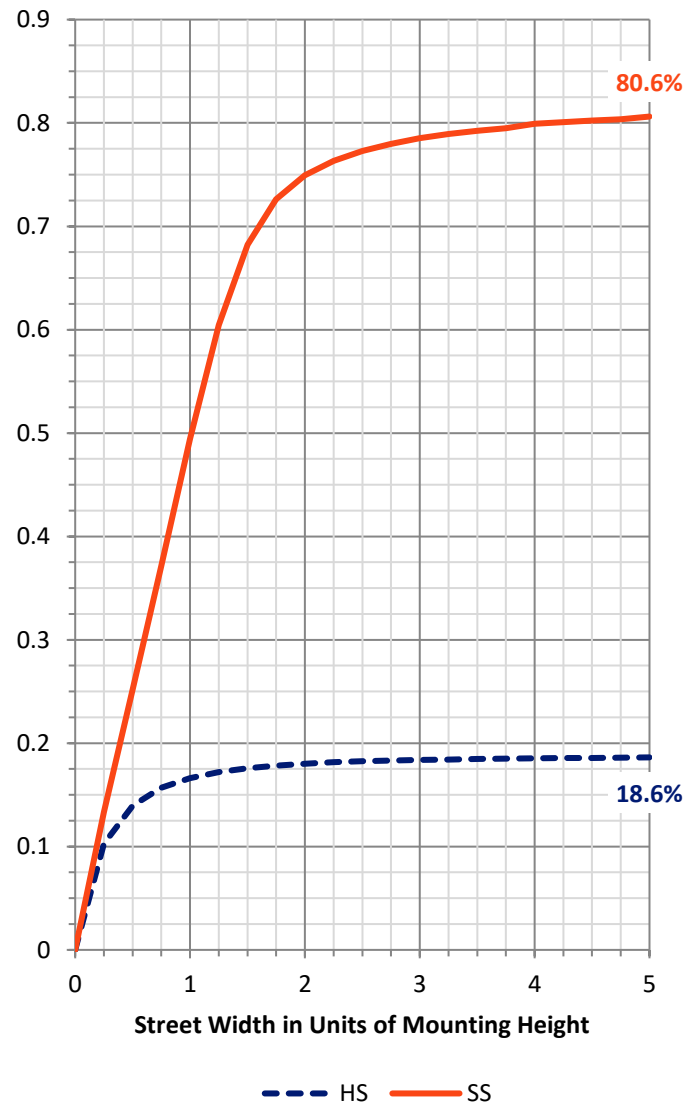
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1167.7	0.0	1167.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5041.3	0.0	5041.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	6209.0	0.0	6209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	2.0
10°-20°	295.3	4.8
20°-30°	402.1	6.5
30°-40°	540.3	8.7
40°-50°	806.7	13.0
50°-60°	1283.2	20.7
60°-70°	1578.3	25.4
70°-80°	1026.9	16.5
80°-90°	151.6	2.4
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°	6209.0	100.0
0°-180°	6209.0	100.0

Coefficient of Utilization



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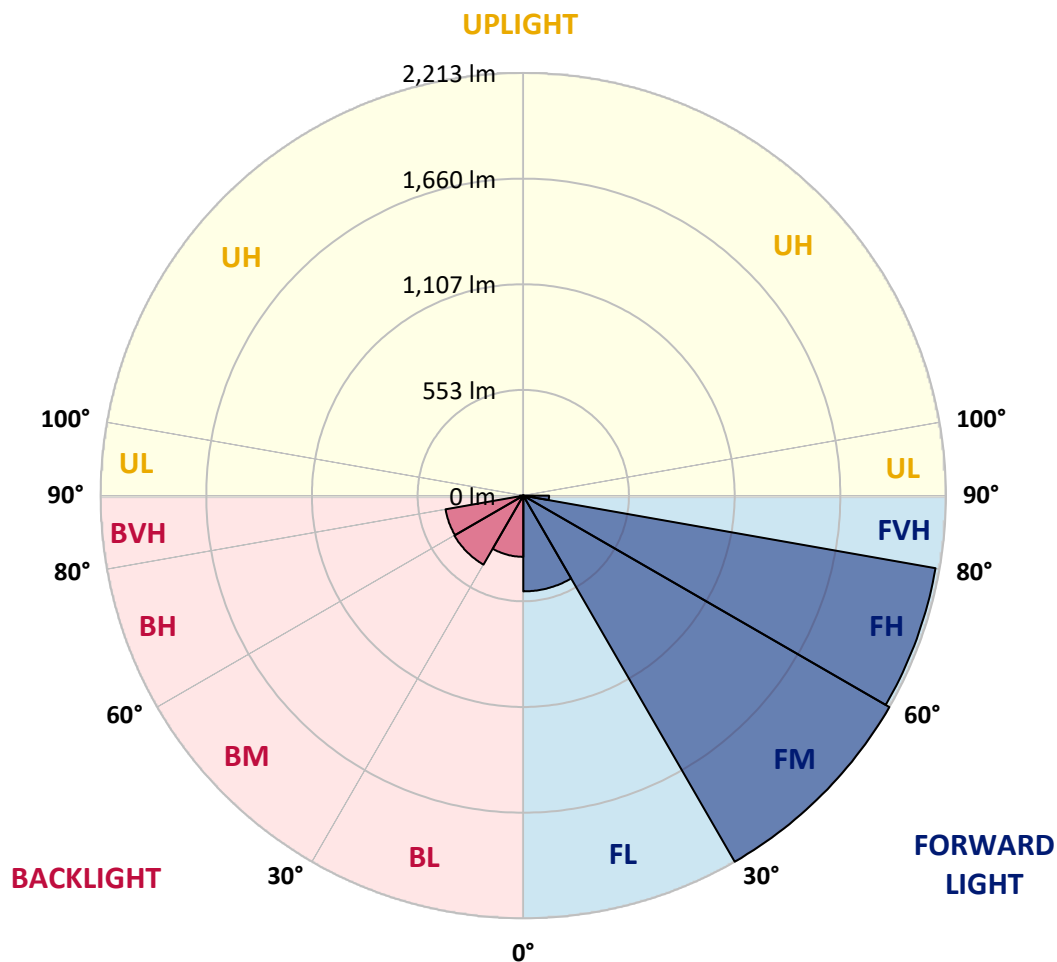
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.4	8.1			
FM	(30°-60°)	2213.3	35.6			
FH	(60°-80°)	2191.8	35.3			G2/5000
FVH	(80°-90°)	134.8	2.2			G2/225
BL	(0°-30°)	320.5	5.2	B1/500		
BM	(30°-60°)	416.9	6.7	B1/1000		
BH	(60°-80°)	413.4	6.7	B1/500		G1/500
BVH	(80°-90°)	16.8	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8
2.5°	1383.6	1389.1	1395.3	1402.2	1415.3	1422.5	1427.6	1433.5	1434.2	1437.3	1434.9
5°	1281.5	1288.0	1297.3	1310.4	1330.0	1360.6	1392.2	1418.0	1421.1	1435.5	1439.7
7.5°	1196.2	1200.0	1207.6	1228.6	1256.4	1290.4	1336.5	1388.8	1396.4	1430.7	1442.8
10°	1126.8	1130.6	1139.5	1161.2	1188.7	1231.3	1281.9	1350.6	1356.8	1416.0	1443.5
12.5°	1074.9	1078.3	1087.9	1109.2	1140.9	1180.8	1236.5	1309.4	1318.3	1396.4	1436.9
15°	1035.3	1041.8	1049.8	1067.3	1100.6	1139.2	1193.1	1271.5	1278.8	1375.7	1432.5
17.5°	1018.5	1021.6	1027.1	1043.2	1067.6	1105.5	1159.8	1242.0	1250.6	1361.3	1431.4
20°	1019.2	1022.2	1023.3	1032.2	1049.8	1082.4	1136.1	1218.6	1228.9	1348.6	1433.1
22.5°	1042.5	1042.9	1039.1	1036.0	1042.9	1070.0	1119.2	1201.0	1213.1	1343.1	1434.5
25°	1078.6	1084.8	1079.3	1064.9	1052.2	1065.2	1112.7	1191.4	1202.8	1335.1	1432.8
27.5°	1137.1	1138.1	1133.7	1114.1	1081.0	1071.4	1109.9	1184.2	1193.8	1329.3	1424.2
30°	1215.5	1212.4	1208.3	1186.6	1134.7	1095.1	1115.8	1177.7	1187.6	1320.7	1413.9
32.5°	1294.9	1304.5	1300.8	1275.3	1207.9	1141.2	1134.7	1177.0	1185.2	1314.2	1402.5
35°	1379.2	1383.6	1401.5	1388.4	1319.3	1215.8	1170.1	1187.6	1194.2	1314.5	1394.6
37.5°	1445.2	1457.2	1499.2	1510.5	1445.5	1314.5	1227.5	1217.9	1220.6	1331.4	1397.7
40°	1524.9	1545.6	1599.6	1646.0	1603.3	1442.8	1325.2	1273.9	1277.4	1371.9	1418.0
42.5°	1626.0	1640.5	1713.0	1776.0	1769.1	1612.3	1443.5	1365.7	1367.5	1452.7	1474.7
45°	1744.3	1765.0	1846.4	1941.0	1957.2	1804.2	1614.3	1504.7	1503.6	1578.2	1580.7
47.5°	1895.6	1908.3	1989.1	2092.3	2157.6	2045.2	1821.7	1704.1	1693.1	1761.2	1741.6
50°	2034.9	2054.8	2116.0	2228.8	2391.4	2327.5	2094.4	1962.7	1936.9	2000.5	1967.5
52.5°	2093.3	2114.3	2165.9	2305.8	2591.9	2692.6	2440.6	2271.1	2228.1	2276.9	2264.9
55°	1991.9	2019.1	2067.2	2237.4	2679.9	3113.9	2907.5	2627.7	2596.4	2575.4	2578.8
57.5°	1719.2	1745.0	1810.0	1997.7	2574.7	3419.5	3574.3	3086.0	3019.0	2922.3	2938.8
60°	1308.7	1324.8	1358.5	1566.6	2262.8	3499.0	4331.4	3665.4	3622.7	3267.9	3279.6
62.5°	929.4	947.6	971.0	1074.9	1656.6	3275.1	4924.2	4474.4	4322.1	3625.8	3614.5
65°	754.7	742.4	770.6	819.0	972.0	2538.3	5057.6	5597.4	5387.7	4097.2	3939.8
67.5°	620.6	607.6	635.4	721.7	739.3	1473.4	4576.9	6326.4	6284.4	4609.9	4270.2
69°	549.5	542.6	567.0	665.3	709.7	1046.3	3987.2	6427.8	6437.8	4912.2	4321.1
70°	495.1	497.9	521.6	636.8	696.3	862.7	3407.8	6287.9	6372.5	5063.1	4266.1
72.5°	364.5	370.3	403.3	527.5	683.6	732.0	2028.0	5492.2	5641.8	5072.0	3902.6
75°	254.8	252.0	281.3	397.1	645.7	725.5	1191.1	4247.5	4417.0	4384.0	3279.2
77.5°	166.8	171.2	194.6	280.6	543.3	720.0	776.4	3013.5	3123.5	2932.0	1939.6
80°	117.6	117.3	130.3	191.5	403.0	691.8	635.8	1899.4	1871.5	1152.2	575.3
82.5°	67.4	72.2	87.3	134.8	269.6	608.9	584.9	908.4	829.4	328.4	194.3
85°	37.5	39.2	51.9	81.5	157.5	458.7	510.6	413.3	389.9	137.2	83.6
87.5°	12.0	13.1	21.7	41.3	71.5	216.6	289.2	190.8	176.0	49.5	33.7
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°	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8	1433.8
2.5°	1435.9	1440.0	1429.0	1418.4	1408.7	1395.3	1383.3	1373.3	1366.4	1365.4	1362.0
5°	1440.7	1441.1	1420.1	1391.9	1364.4	1334.1	1302.8	1280.5	1259.5	1247.8	1242.0
7.5°	1444.1	1441.1	1403.2	1357.5	1304.5	1249.5	1194.5	1150.5	1116.5	1103.1	1108.2
10°	1442.8	1433.1	1377.8	1304.5	1227.5	1145.3	1066.3	1004.4	947.6	918.4	919.1
12.5°	1435.2	1419.4	1340.0	1245.1	1131.9	1021.9	900.9	817.3	751.6	712.8	700.8
15°	1428.7	1401.2	1295.6	1164.3	1023.6	866.5	719.0	615.8	560.8	530.2	529.9
17.5°	1421.8	1383.6	1247.1	1078.6	899.2	697.0	542.2	463.5	437.7	440.8	435.7
20°	1414.6	1363.0	1196.6	983.4	747.5	519.9	406.1	374.1	381.3	395.4	397.5
22.5°	1406.3	1341.0	1142.3	878.5	588.0	391.3	329.4	324.6	343.2	365.2	368.3
25°	1393.6	1313.5	1073.8	768.8	453.5	315.3	288.5	291.9	310.1	328.7	330.8
27.5°	1375.7	1279.4	1004.7	632.0	340.7	270.6	263.7	268.2	277.1	288.5	291.2
30°	1351.7	1240.9	925.3	513.7	273.0	248.3	245.5	247.9	253.1	257.9	259.3
32.5°	1327.6	1203.8	845.2	393.4	243.4	233.5	230.7	230.7	230.7	231.4	231.8
35°	1305.2	1168.7	759.2	306.4	228.0	221.8	218.0	213.9	213.2	210.8	210.8
37.5°	1292.9	1136.7	667.7	256.5	216.6	212.2	207.0	200.1	196.3	196.7	196.0
40°	1295.3	1115.8	584.5	228.3	207.3	202.5	194.6	186.7	184.3	184.3	183.6
42.5°	1322.4	1108.9	504.8	213.5	198.4	192.9	182.9	175.7	174.3	174.0	174.7
45°	1385.0	1125.7	433.2	203.9	190.8	182.6	172.6	166.1	164.7	164.7	164.4
47.5°	1507.1	1180.4	382.0	197.7	185.3	174.7	164.4	157.8	155.4	154.7	154.7
50°	1696.9	1299.0	343.8	192.2	178.5	167.5	156.8	149.2	145.4	145.1	144.8
52.5°	1960.6	1484.0	329.1	188.1	170.9	159.9	148.2	141.0	136.2	135.1	134.4
55°	2269.0	1742.3	349.3	185.0	163.0	151.3	139.3	131.7	127.2	125.2	124.8
57.5°	2626.3	2052.4	426.4	180.9	155.8	142.0	130.3	122.8	117.9	115.5	114.8
60°	2947.1	2371.2	560.8	178.5	149.6	132.0	120.0	113.1	108.7	106.2	105.9
62.5°	3299.5	2675.1	721.4	185.0	146.8	122.4	110.4	104.2	100.4	98.0	98.0
65°	3676.0	2979.4	827.6	207.0	150.9	114.8	100.1	94.9	91.5	89.7	89.4
67.5°	3929.8	3084.6	681.8	229.7	161.3	106.6	90.1	86.0	83.9	82.2	82.2
69°	3902.3	2951.6	503.0	235.5	164.4	102.5	84.6	81.5	78.7	78.1	77.4
70°	3815.3	2799.9	421.6	231.8	162.0	98.7	81.1	77.4	75.0	74.3	73.9
72.5°	3398.2	2428.2	313.9	201.5	137.9	85.6	71.9	68.4	66.4	65.3	65.3
75°	2823.3	1984.7	245.2	160.2	108.0	72.2	61.5	58.8	57.1	56.4	56.0
77.5°	1582.4	1108.2	176.0	125.5	81.8	58.5	51.6	49.2	47.5	46.8	46.8
80°	440.8	316.7	103.5	82.9	55.7	44.4	40.9	39.2	36.8	35.1	36.1
82.5°	166.1	137.2	59.1	49.9	35.4	29.6	28.5	27.2	26.1	23.7	23.7
85°	80.8	66.7	37.8	26.5	19.6	15.5	14.8	14.1	13.4	11.7	12.0
87.5°	27.9	29.6	16.5	9.6	5.8	3.8	3.1	1.7	1.7	1.7	1.7
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)