

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: STREETWORKS

Report Number: P323445

Luminaire Tested: **GAN-SA1C-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 5290 lumens
Efficiency: N/A
Efficacy: 89.7 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

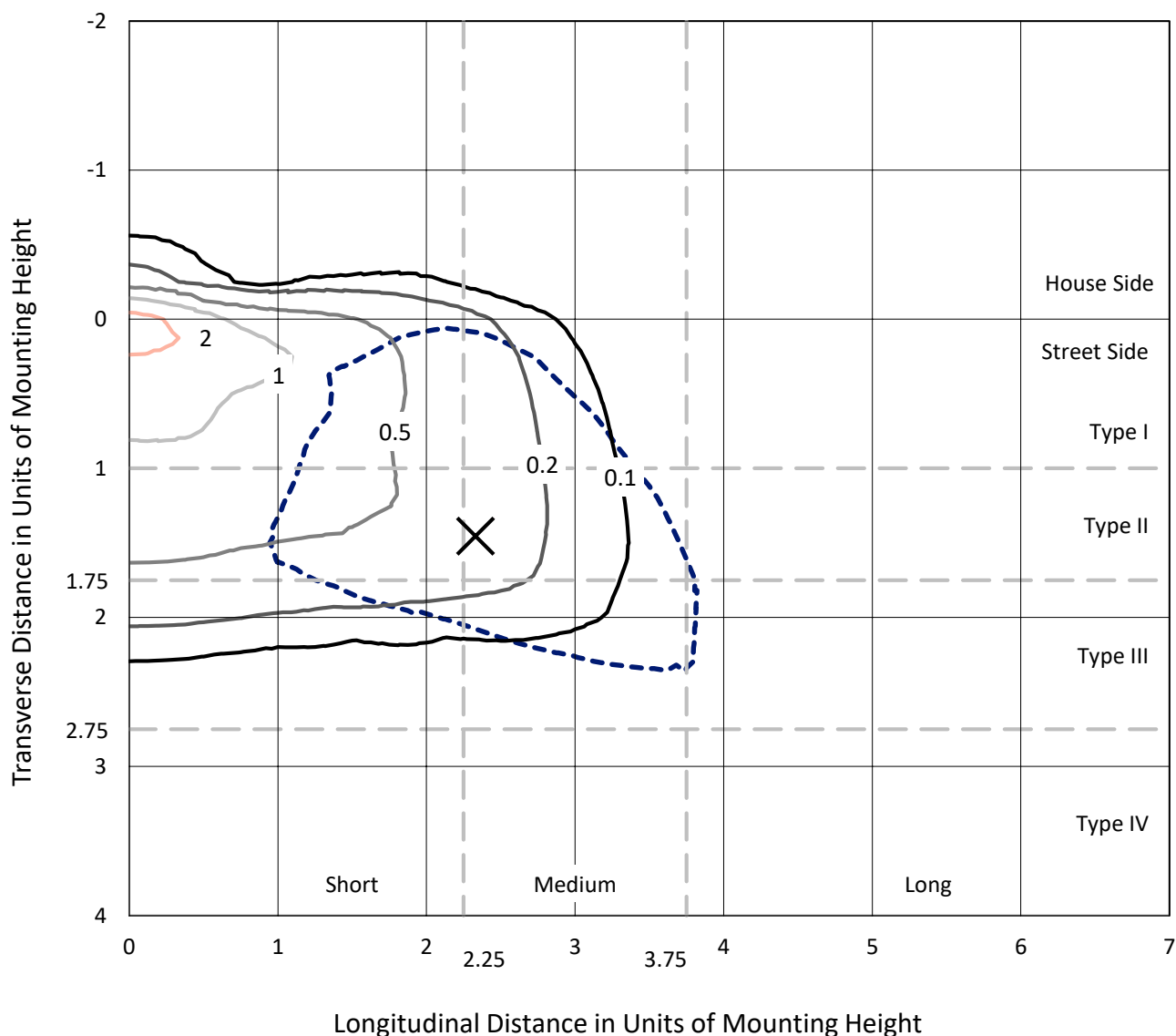
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

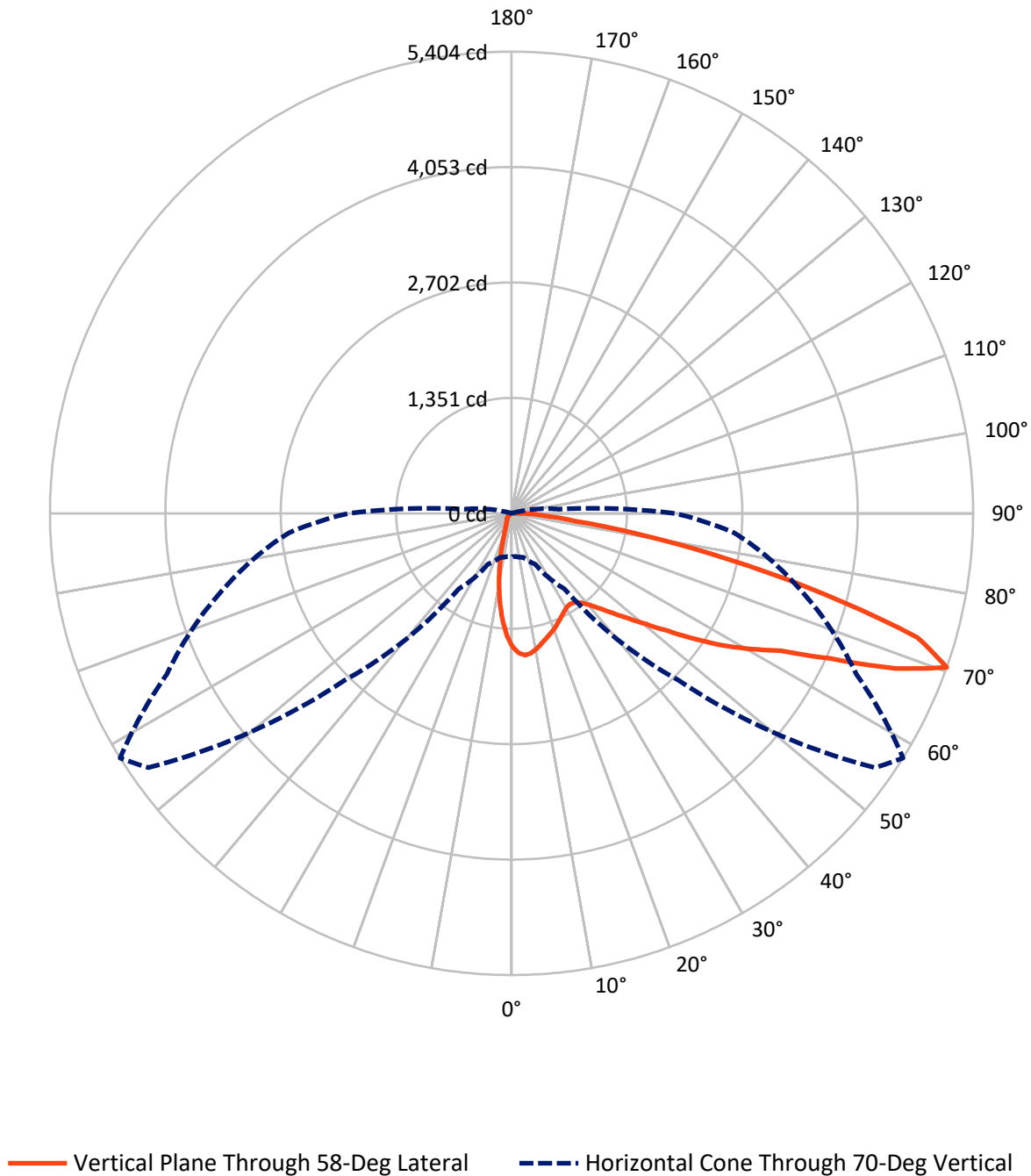
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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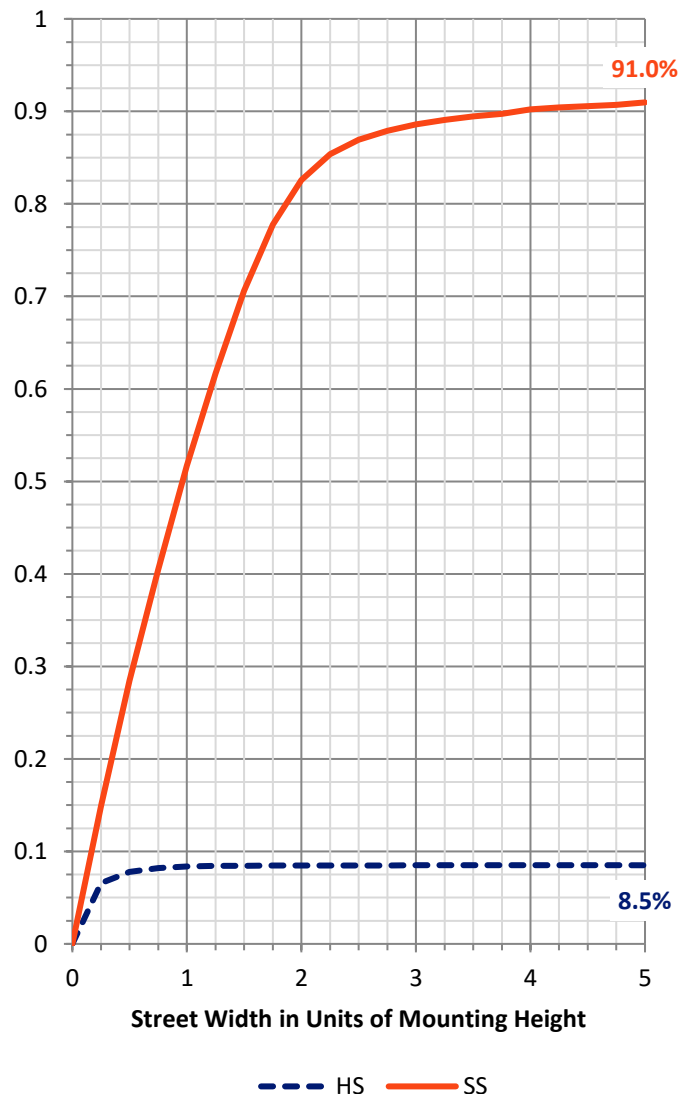
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	452.7	0.0	452.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	4837.3	0.0	4837.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	5290.0	0.0	5290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	2.4
10°-20°	268.2	5.1
20°-30°	352.6	6.7
30°-40°	466.9	8.8
40°-50°	697.9	13.2
50°-60°	1118.1	21.1
60°-70°	1409.3	26.6
70°-80°	760.2	14.4
80°-90°	89.0	1.7
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°	5290.0	100.0
0°-180°	5290.0	100.0

Coefficient of Utilization



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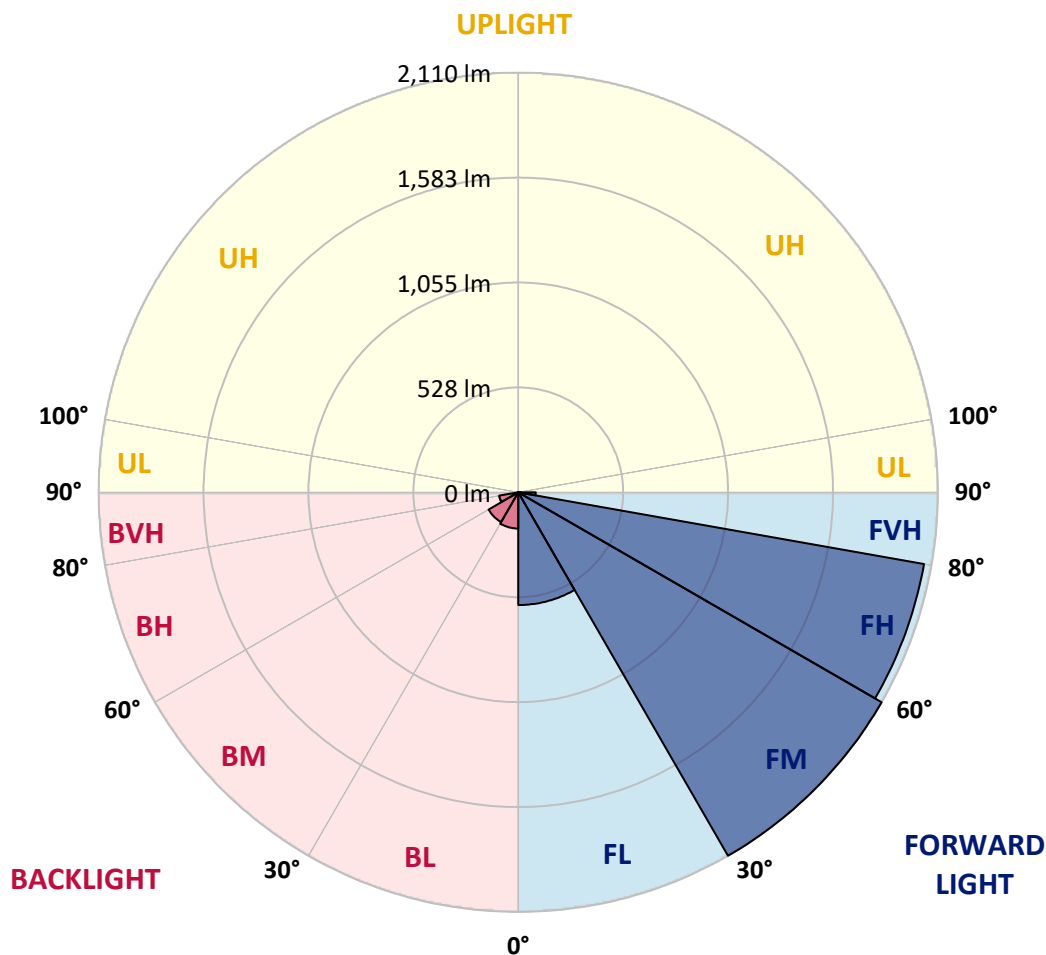
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.7	10.7			
FM	(30°-60°)	2110.3	39.9			
FH	(60°-80°)	2072.1	39.2			G2/5000
FVH	(80°-90°)	88.2	1.7			G1/100
BL	(0°-30°)	181.9	3.4	B1/500		
BM	(30°-60°)	172.7	3.3	B0/220		
BH	(60°-80°)	97.4	1.8	B0/110		G0/110
BVH	(80°-90°)	0.8	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6
2.5°	1692.2	1688.0	1686.5	1683.8	1673.7	1663.8	1644.2	1638.7	1626.4	1597.2	1566.2
5°	1693.5	1693.3	1697.9	1696.8	1693.3	1688.7	1674.6	1667.3	1646.4	1604.7	1547.9
7.5°	1611.9	1616.1	1626.4	1634.8	1644.5	1657.0	1658.8	1651.7	1634.6	1589.5	1514.2
10°	1502.4	1509.0	1523.5	1540.0	1565.3	1590.4	1612.8	1611.9	1606.0	1561.5	1473.8
12.5°	1392.6	1400.3	1417.0	1441.4	1477.3	1518.2	1558.2	1563.7	1573.6	1536.5	1436.4
15°	1296.5	1303.1	1319.6	1349.5	1393.9	1448.9	1507.6	1517.8	1543.3	1516.9	1405.1
17.5°	1214.9	1219.1	1231.2	1264.4	1315.8	1382.5	1458.8	1478.6	1516.7	1501.5	1378.1
20°	1157.9	1158.6	1166.5	1189.8	1241.3	1315.8	1408.2	1436.6	1488.5	1488.3	1350.2
22.5°	1129.7	1127.5	1129.1	1142.5	1180.3	1252.3	1357.6	1391.3	1463.2	1477.1	1321.8
25°	1124.5	1122.7	1118.3	1120.1	1142.9	1196.6	1306.6	1345.5	1441.0	1470.3	1297.1
27.5°	1141.0	1142.7	1135.2	1127.3	1129.1	1160.5	1261.3	1306.4	1423.0	1470.3	1279.8
30°	1174.2	1175.1	1169.6	1159.2	1145.4	1150.4	1229.8	1274.9	1413.9	1480.4	1268.8
32.5°	1210.9	1215.8	1215.1	1206.7	1186.9	1166.5	1222.4	1263.5	1413.3	1502.8	1267.7
35°	1256.4	1261.9	1271.2	1269.4	1248.7	1215.1	1247.9	1280.2	1426.3	1539.8	1279.5
37.5°	1304.8	1313.2	1333.0	1342.5	1329.0	1291.0	1305.1	1328.2	1461.0	1599.6	1309.7
40°	1351.7	1361.2	1397.2	1434.4	1424.3	1385.1	1391.7	1410.2	1522.8	1685.6	1366.9
42.5°	1397.7	1411.7	1464.8	1525.9	1538.0	1506.8	1510.3	1525.0	1614.6	1803.9	1460.4
45°	1452.7	1468.5	1547.0	1622.5	1654.8	1641.2	1656.1	1665.8	1734.4	1960.3	1586.4
47.5°	1533.4	1551.6	1648.0	1734.0	1790.7	1799.5	1829.7	1836.1	1886.0	2142.5	1750.7
50°	1690.9	1695.9	1783.0	1861.1	1943.0	1995.8	2030.1	2034.9	2069.4	2341.5	1955.9
52.5°	1889.1	1892.4	1941.6	1994.0	2087.0	2194.8	2275.1	2281.9	2289.2	2535.6	2158.5
55°	2085.9	2085.5	2118.1	2148.9	2255.3	2411.9	2586.1	2590.3	2538.2	2719.7	2313.4
57.5°	2208.9	2220.8	2270.3	2309.9	2458.6	2659.4	2901.1	2916.5	2799.7	2856.0	2466.5
60°	2169.7	2175.5	2285.2	2431.7	2711.7	3011.1	3219.9	3223.8	2996.4	2992.2	2660.1
62.5°	1848.6	1851.7	2024.1	2326.1	2840.0	3467.3	3604.4	3539.9	3222.5	3181.2	2891.7
65°	1267.0	1287.0	1431.1	1804.4	2604.4	3753.5	4199.6	4092.9	3567.2	3453.5	3101.1
67.5°	746.1	741.9	813.2	1088.2	1912.8	3563.5	4952.5	4846.5	4037.3	3635.8	3039.7
70°	509.7	506.8	534.1	658.8	1079.8	2764.3	5189.4	5403.5	4452.3	3513.1	2616.1
72.5°	363.8	365.4	405.6	511.9	677.9	1610.6	4462.7	4969.3	4322.3	3062.6	1988.5
75°	247.0	251.2	308.8	419.9	594.3	819.4	3166.9	3777.5	3519.7	2225.8	1142.9
77.5°	132.9	137.5	205.4	338.3	537.4	569.3	2037.1	2599.8	2210.9	1000.6	331.3
80°	55.4	58.1	96.1	245.9	464.3	500.0	1198.6	1576.5	942.1	197.3	73.9
82.5°	24.0	25.3	40.0	146.7	347.1	422.1	634.6	758.4	285.5	43.3	37.2
85°	4.6	4.8	16.5	77.6	221.5	238.2	411.3	403.2	128.2	18.7	27.1
87.5°	0.0	0.0	4.0	24.4	65.1	129.8	251.0	247.9	43.6	9.0	10.1
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°	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6
2.5°	1550.3	1535.1	1503.3	1463.9	1433.7	1400.5	1374.1	1340.7	1326.2	1326.8	1318.9
5°	1515.6	1484.3	1413.7	1324.6	1256.0	1185.2	1124.2	1063.5	1027.7	1016.0	1005.0
7.5°	1465.9	1416.4	1303.7	1166.5	1050.3	936.8	838.1	751.2	696.2	669.4	659.5
10°	1409.8	1340.3	1177.3	996.4	830.6	677.1	549.0	437.7	393.3	363.2	355.5
12.5°	1360.5	1266.3	1053.6	822.0	625.1	439.9	317.9	248.6	218.4	206.5	204.6
15°	1314.1	1197.3	934.6	664.1	432.9	270.8	202.1	178.6	171.6	169.6	169.6
17.5°	1270.3	1131.5	818.3	508.6	286.4	189.8	167.4	162.1	159.9	159.7	159.9
20°	1224.6	1065.7	703.9	372.6	199.9	160.8	154.6	151.8	151.1	151.1	151.1
22.5°	1180.8	1000.0	592.6	266.2	160.4	146.7	143.6	141.7	141.0	140.8	140.3
25°	1138.8	937.5	483.9	188.1	140.8	134.4	131.8	129.1	127.1	126.0	125.4
27.5°	1104.2	881.8	382.7	150.9	127.1	121.6	118.3	114.4	109.5	107.3	106.5
30°	1076.7	831.0	295.0	127.4	114.4	108.9	103.8	97.0	90.0	86.2	86.0
32.5°	1055.2	781.1	223.9	112.6	102.9	96.1	88.9	80.3	72.1	68.0	67.7
35°	1044.6	737.1	171.1	101.8	92.8	84.2	75.2	65.8	57.9	53.9	53.5
37.5°	1051.7	699.9	133.5	92.8	84.2	74.3	63.8	53.9	46.9	43.3	43.1
40°	1077.4	676.2	108.4	85.1	77.0	64.9	53.5	44.2	38.3	35.4	35.2
42.5°	1132.2	667.4	92.6	78.7	69.9	56.1	44.4	36.5	31.0	29.0	28.6
45°	1223.7	680.4	81.8	72.6	62.7	47.7	36.7	29.9	25.1	23.5	23.3
47.5°	1345.5	714.5	74.1	66.6	56.1	40.3	30.6	24.2	20.5	18.9	18.7
50°	1502.6	768.6	67.7	60.7	49.9	34.1	25.3	19.1	15.8	14.7	14.7
52.5°	1673.5	833.0	62.0	55.2	43.8	28.4	20.5	14.7	12.5	11.2	11.2
55°	1814.7	889.3	55.9	51.0	36.3	23.5	15.6	11.2	9.2	8.6	8.6
57.5°	1955.7	949.4	48.8	43.8	29.0	19.1	11.9	8.4	6.8	6.4	6.4
60°	2138.5	1022.8	42.0	35.6	22.9	14.5	8.8	5.9	5.1	4.8	4.8
62.5°	2339.6	1066.0	35.9	28.6	17.8	10.8	6.4	4.0	3.7	3.7	3.5
65°	2462.5	1005.0	30.1	22.9	13.9	8.1	4.2	2.9	3.3	3.1	2.6
67.5°	2305.7	786.8	24.6	17.8	10.8	6.2	2.6	2.0	3.5	2.9	2.2
70°	1909.1	550.8	19.1	12.5	8.6	5.3	1.8	1.3	3.7	2.9	1.8
72.5°	1428.7	368.7	15.2	8.4	6.4	4.6	1.5	0.7	3.3	2.4	1.5
75°	780.7	148.5	12.1	5.3	4.0	3.3	1.1	0.4	2.2	1.8	1.1
77.5°	205.4	39.2	8.8	3.5	2.2	1.3	0.7	0.2	1.1	0.9	0.4
80°	52.4	15.2	5.7	2.4	1.5	0.7	0.0	0.0	0.2	0.0	0.0
82.5°	27.9	6.4	3.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.1	4.2	2.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	1.3	0.7	0.0	0.0	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)