

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: P318846

Luminaire Tested: **GAN-SA2C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10703 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 113
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

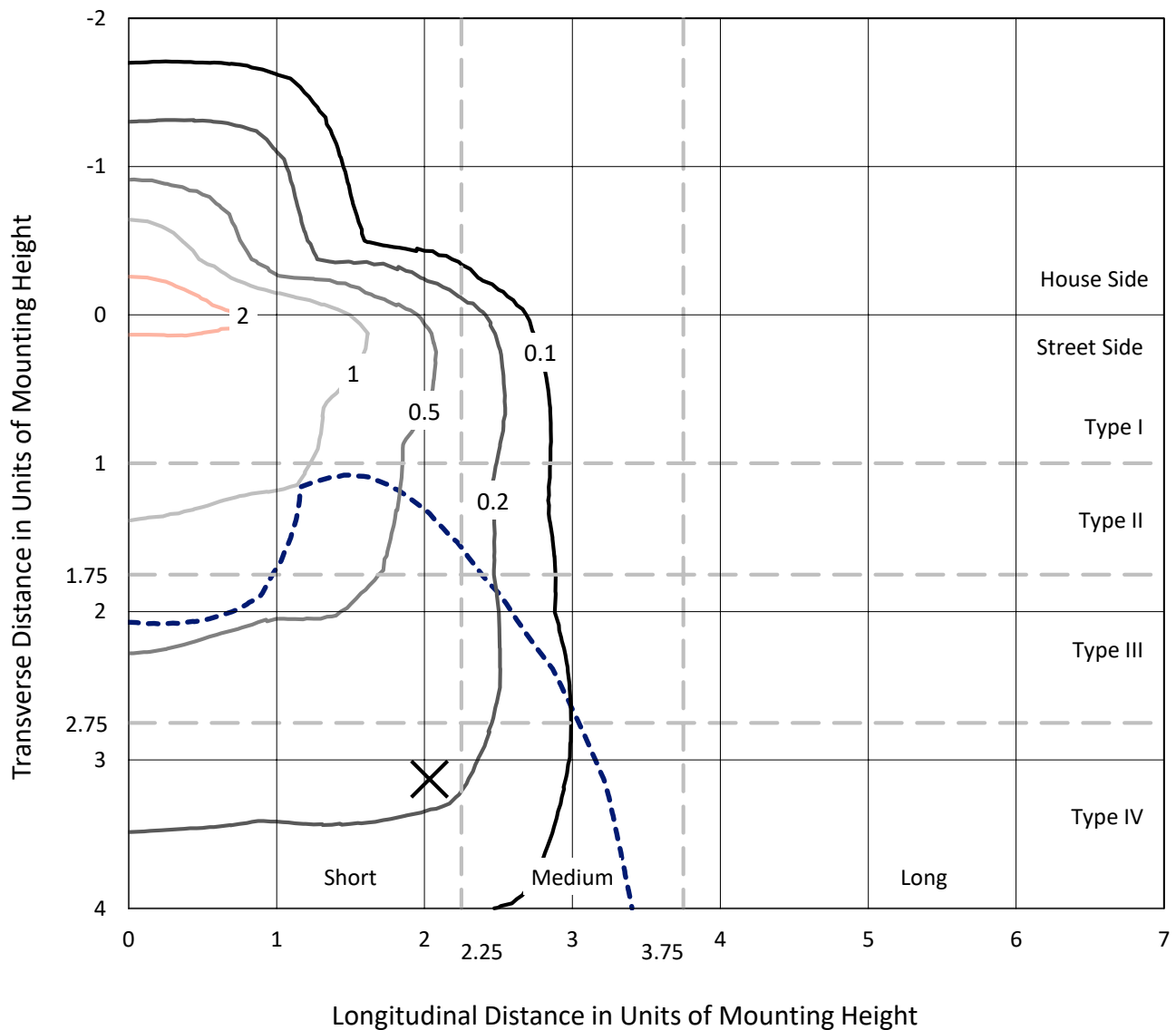


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Iso-Footcandle Lines of Horizontal Illumination

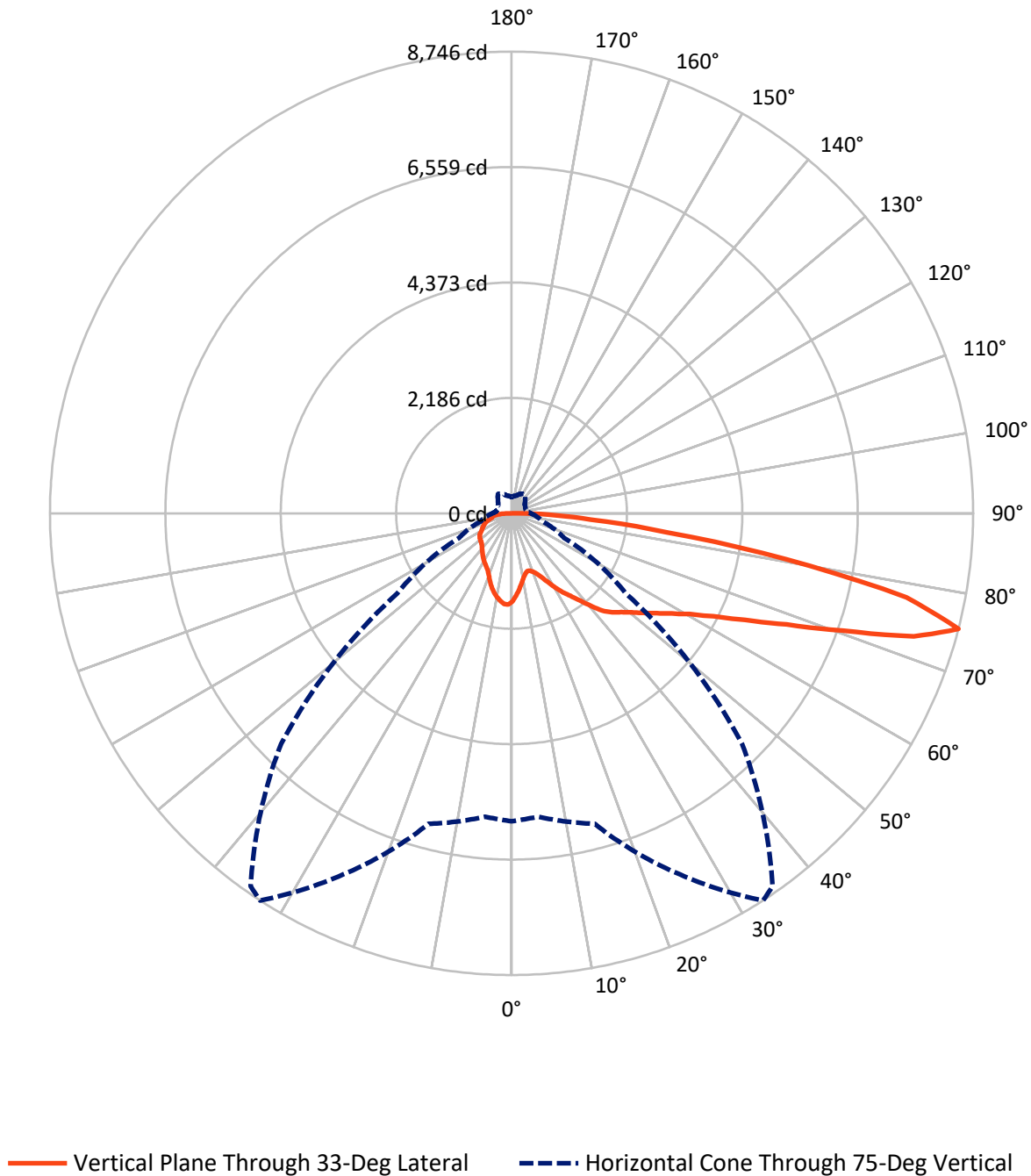
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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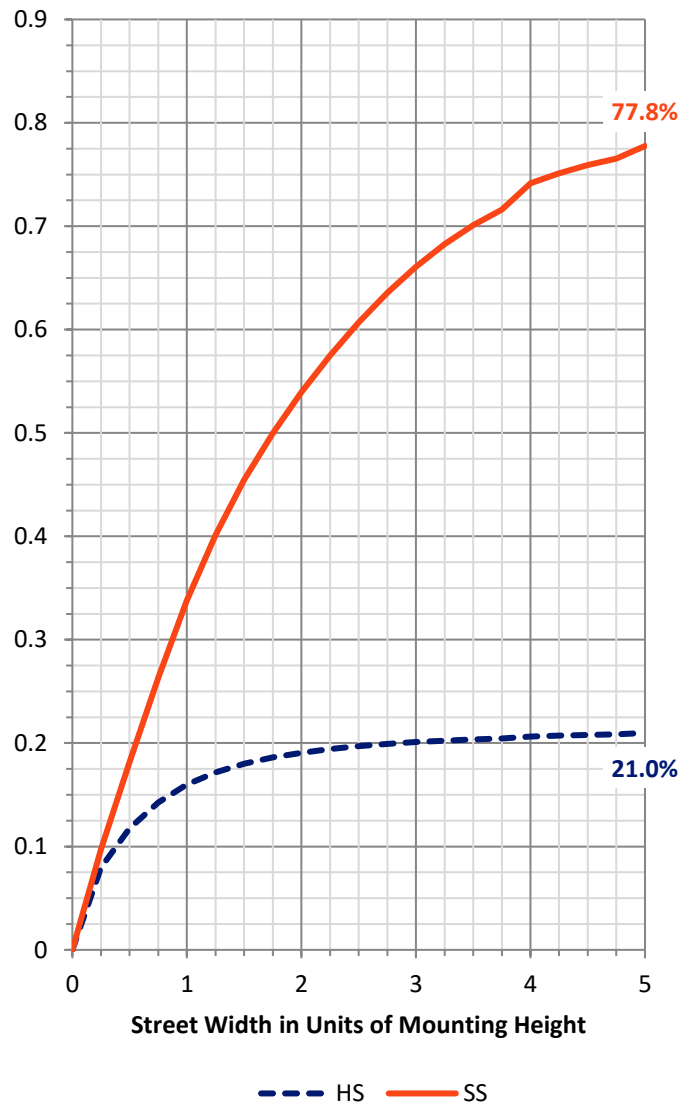
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2298.2	0.0	2298.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	8404.8	0.0	8404.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	10703.0	0.0	10703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	1.4
10°-20°	409.8	3.8
20°-30°	669.2	6.3
30°-40°	996.6	9.3
40°-50°	1429.4	13.4
50°-60°	1962.4	18.3
60°-70°	2456.8	23.0
70°-80°	2222.6	20.8
80°-90°	404.9	3.8
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°	10703.0	100.0
0°-180°	10703.0	100.0

Coefficient of Utilization



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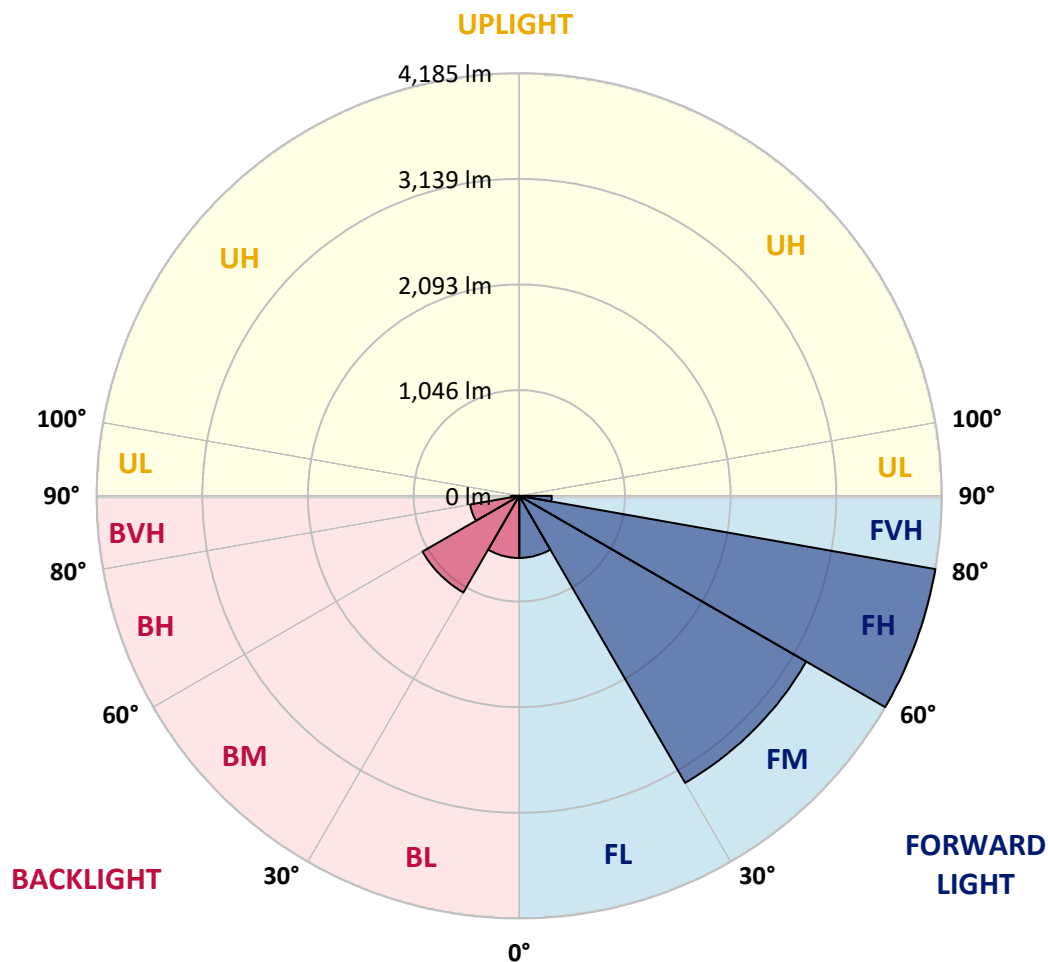
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.7	5.7			
FM	(30°-60°)	3282.4	30.7			
FH	(60°-80°)	4185.2	39.1			G2/5000
FVH	(80°-90°)	322.4	3.0			G3/500
BL	(0°-30°)	615.6	5.8	B2/1000		
BM	(30°-60°)	1106.1	10.3	B2/2500		
BH	(60°-80°)	494.2	4.6	B1/500		G1/500
BVH	(80°-90°)	82.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9
2.5°	1553.5	1547.6	1558.7	1560.2	1569.8	1573.5	1586.8	1607.5	1624.5	1644.1	1661.8
5°	1412.7	1408.6	1424.1	1435.2	1456.3	1465.2	1496.6	1540.6	1579.8	1624.1	1664.4
7.5°	1278.8	1276.6	1294.0	1319.1	1343.5	1355.7	1410.1	1474.0	1539.5	1611.2	1672.9
10°	1166.1	1165.3	1182.0	1206.7	1242.6	1256.3	1326.5	1410.8	1502.5	1601.2	1687.4
12.5°	1102.8	1105.4	1113.2	1133.9	1167.2	1180.9	1258.9	1357.9	1471.4	1597.9	1708.4
15°	1118.4	1122.4	1109.1	1108.4	1132.1	1142.8	1216.0	1320.2	1449.3	1603.4	1739.1
17.5°	1184.6	1185.3	1150.2	1128.0	1142.4	1148.0	1202.7	1298.8	1436.3	1616.0	1777.6
20°	1277.7	1275.9	1213.8	1176.8	1184.6	1186.0	1221.5	1299.2	1435.2	1637.8	1827.5
22.5°	1401.2	1387.5	1304.0	1253.7	1251.8	1249.6	1270.0	1326.5	1451.5	1673.3	1887.0
25°	1562.4	1549.5	1434.5	1365.7	1350.9	1345.4	1348.3	1384.9	1483.6	1711.4	1953.5
27.5°	1741.7	1719.2	1608.2	1511.0	1480.3	1472.6	1454.8	1467.4	1518.8	1748.0	2032.7
30°	1891.8	1879.6	1782.7	1667.4	1631.2	1620.1	1573.5	1559.8	1569.4	1797.9	2132.5
32.5°	1975.7	1967.6	1908.8	1815.6	1782.0	1766.5	1700.7	1673.3	1650.8	1876.6	2267.8
35°	2077.4	2072.2	2036.7	1969.1	1919.2	1902.9	1851.9	1823.4	1765.4	1985.0	2442.7
37.5°	2206.8	2201.3	2202.0	2147.3	2087.8	2072.6	2039.0	2009.0	1914.0	2127.3	2632.7
40°	2353.2	2342.5	2338.4	2335.8	2298.1	2289.6	2271.9	2231.2	2100.3	2297.4	2820.1
42.5°	2573.6	2535.5	2454.1	2484.8	2522.2	2517.7	2532.1	2473.7	2307.4	2498.5	3003.2
45°	2786.1	2723.7	2583.2	2589.8	2671.5	2696.3	2804.3	2762.8	2531.8	2718.8	3192.4
47.5°	2883.0	2835.7	2716.3	2716.6	2797.6	2849.0	3085.6	3056.0	2767.7	2969.1	3423.5
50°	2991.3	2944.0	2836.8	2877.1	2947.7	3002.4	3357.3	3342.2	2992.1	3243.1	3700.4
52.5°	3109.6	3029.4	2961.4	3033.5	3132.6	3196.1	3629.4	3588.0	3198.0	3518.9	4018.8
55°	3111.1	3089.3	3141.1	3193.9	3342.2	3420.2	3914.5	3805.1	3365.8	3789.9	4277.9
57.5°	3288.2	3252.7	3362.5	3386.9	3580.6	3668.6	4198.1	3994.0	3536.6	3997.7	4417.7
60°	3522.6	3492.3	3582.1	3646.5	3875.7	3993.2	4500.9	4188.1	3670.9	4154.4	4411.0
62.5°	3927.4	3893.0	3891.9	3982.1	4290.9	4427.7	4840.6	4378.5	3724.1	4185.5	4222.8
65°	4520.1	4465.4	4362.2	4405.1	4864.3	5000.7	5220.3	4516.4	3653.8	4019.1	3738.1
67.5°	5096.8	5095.0	4968.2	5056.2	5621.4	5730.9	5652.9	4530.1	3434.6	3439.8	2878.2
70°	5671.7	5679.1	5657.7	5963.8	6644.4	6758.3	6113.5	4346.3	2941.8	2484.1	1724.3
72.5°	6127.2	6125.4	6233.3	7022.6	7972.1	7946.6	6501.7	3789.5	2112.2	1340.9	824.1
75°	5832.2	5767.8	6089.5	7546.9	8745.9	8621.3	6171.6	2643.4	1096.2	610.4	443.7
77.5°	3803.9	3865.0	4337.1	6234.4	7650.0	7498.5	4527.8	1233.4	516.5	400.4	321.6
80°	1377.5	1441.9	2030.8	3531.5	5270.6	5245.8	2229.7	506.9	349.4	302.4	234.4
82.5°	474.0	497.6	801.2	1568.3	2975.8	3086.7	838.9	288.0	254.0	214.4	160.5
85°	186.0	213.0	366.4	754.6	1501.0	1512.1	339.8	172.3	176.7	140.5	88.0
87.5°	70.6	85.8	175.2	350.5	685.4	629.6	121.6	82.1	100.6	83.6	41.8
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°	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9	1672.9
2.5°	1675.5	1683.3	1699.6	1710.6	1722.5	1725.8	1727.3	1730.2	1733.2	1732.1	1732.5
5°	1685.9	1701.0	1727.3	1738.4	1743.6	1737.6	1726.2	1716.9	1710.3	1706.6	1705.5
7.5°	1702.9	1724.3	1752.4	1750.6	1738.7	1712.5	1682.9	1660.7	1642.3	1635.6	1631.9
10°	1725.4	1750.6	1770.2	1749.1	1714.7	1669.2	1624.9	1590.5	1562.8	1552.0	1550.2
12.5°	1754.3	1779.8	1783.5	1738.7	1681.8	1619.7	1559.4	1514.0	1472.6	1459.2	1456.3
15°	1791.6	1815.6	1792.7	1720.6	1641.1	1557.6	1479.6	1417.8	1374.2	1357.9	1352.0
17.5°	1830.8	1853.7	1794.6	1690.7	1587.9	1484.0	1386.0	1322.8	1272.9	1254.1	1251.8
20°	1877.8	1888.1	1786.8	1647.8	1514.7	1388.6	1285.5	1226.0	1199.3	1186.0	1184.6
22.5°	1935.8	1924.7	1769.1	1589.8	1421.9	1278.5	1194.5	1166.8	1160.2	1157.2	1158.3
25°	1997.2	1963.2	1742.8	1514.0	1304.7	1168.3	1128.0	1135.7	1144.6	1143.5	1143.5
27.5°	2064.8	2002.4	1702.5	1413.4	1174.9	1078.1	1082.9	1111.3	1124.7	1124.3	1123.9
30°	2151.7	2046.7	1651.1	1292.5	1053.7	1014.5	1043.7	1078.4	1096.6	1095.8	1096.2
32.5°	2258.6	2095.5	1581.3	1157.6	966.1	967.5	1001.2	1035.6	1056.6	1054.8	1055.2
35°	2383.5	2150.2	1486.6	1024.5	908.0	930.2	956.8	980.8	1000.8	998.2	995.6
37.5°	2519.6	2203.8	1360.9	905.4	860.7	895.4	917.6	921.7	930.9	924.3	919.5
40°	2649.0	2244.9	1199.0	807.8	813.0	865.9	880.3	864.0	847.4	845.2	838.5
42.5°	2761.7	2258.6	1035.2	729.8	762.7	834.8	843.7	809.7	779.7	765.7	759.8
45°	2880.8	2263.4	882.5	664.4	714.3	807.1	816.7	771.2	729.1	698.8	688.8
47.5°	3036.4	2298.1	763.8	615.9	677.3	788.6	802.3	740.5	685.8	642.6	633.3
50°	3240.1	2366.9	667.3	579.0	653.3	776.4	791.9	710.6	650.3	598.2	588.9
52.5°	3466.4	2430.1	589.3	549.0	630.0	754.9	778.6	689.1	617.0	557.2	547.2
55°	3624.6	2381.7	526.5	518.0	599.7	724.3	760.1	671.0	569.4	517.2	508.4
57.5°	3655.0	2216.0	478.8	485.8	563.1	685.8	731.7	630.7	543.5	499.8	490.6
60°	3572.1	1985.3	443.3	456.2	523.9	637.4	678.4	602.3	518.7	481.4	473.6
62.5°	3364.0	1749.1	417.0	429.6	487.3	588.2	645.1	572.3	493.6	460.3	452.5
65°	2943.6	1468.5	391.9	405.9	453.3	545.7	615.2	544.6	468.8	443.3	435.9
67.5°	2222.0	1099.9	368.2	380.8	422.9	508.7	582.7	517.2	444.8	428.5	419.6
70°	1308.4	688.8	341.2	354.6	391.2	470.3	547.9	487.3	414.8	407.4	396.0
72.5°	608.9	414.4	310.6	323.5	351.2	418.9	503.2	448.1	379.3	363.1	347.5
75°	363.4	303.2	274.3	285.8	305.4	364.2	447.0	408.2	345.7	324.2	308.0
77.5°	271.7	231.8	234.4	246.6	262.5	318.7	396.0	376.7	319.8	303.2	292.1
80°	195.6	176.0	191.1	204.4	221.1	289.9	379.3	348.3	289.1	266.9	256.6
82.5°	130.5	126.4	143.8	157.5	173.8	253.6	356.4	305.0	247.0	218.9	195.9
85°	72.1	76.2	96.9	102.8	116.8	178.6	292.1	245.1	186.0	149.7	143.1
87.5°	29.9	35.1	52.1	50.3	62.1	106.5	192.2	147.9	118.3	88.4	68.8
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)