

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: P318856

Luminaire Tested: **GAN-SA2D-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318856
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-SA2D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 11740 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

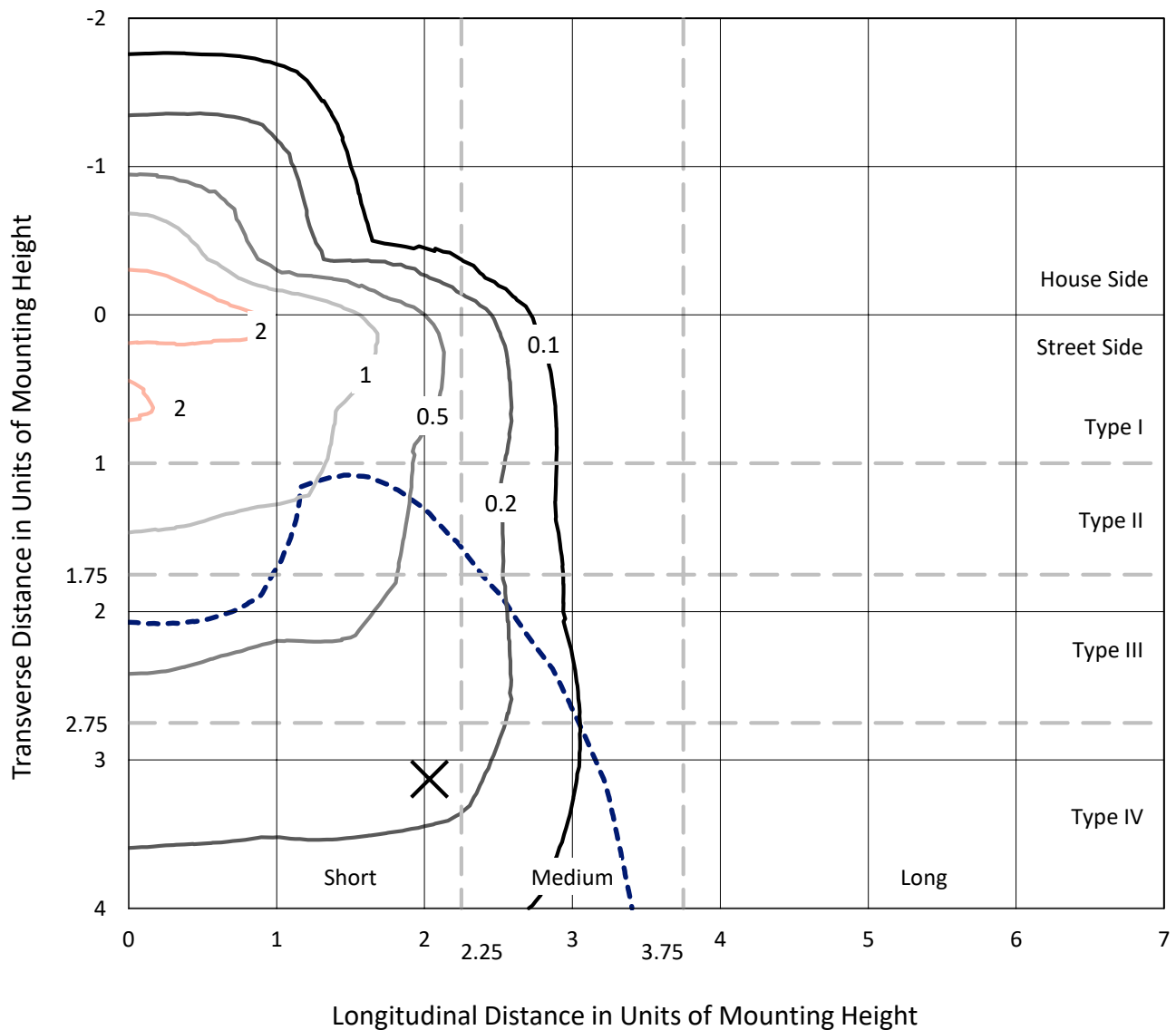
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

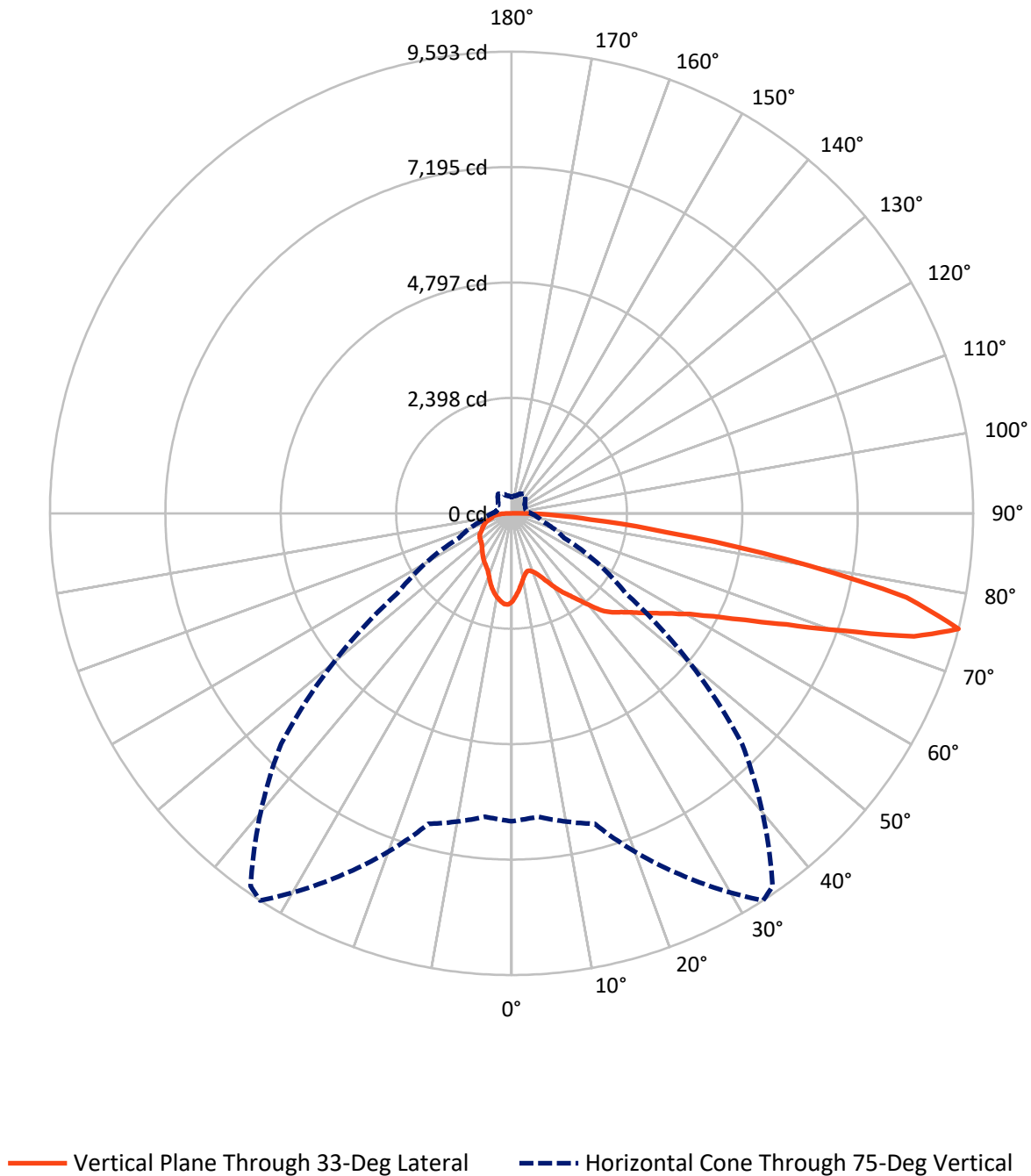
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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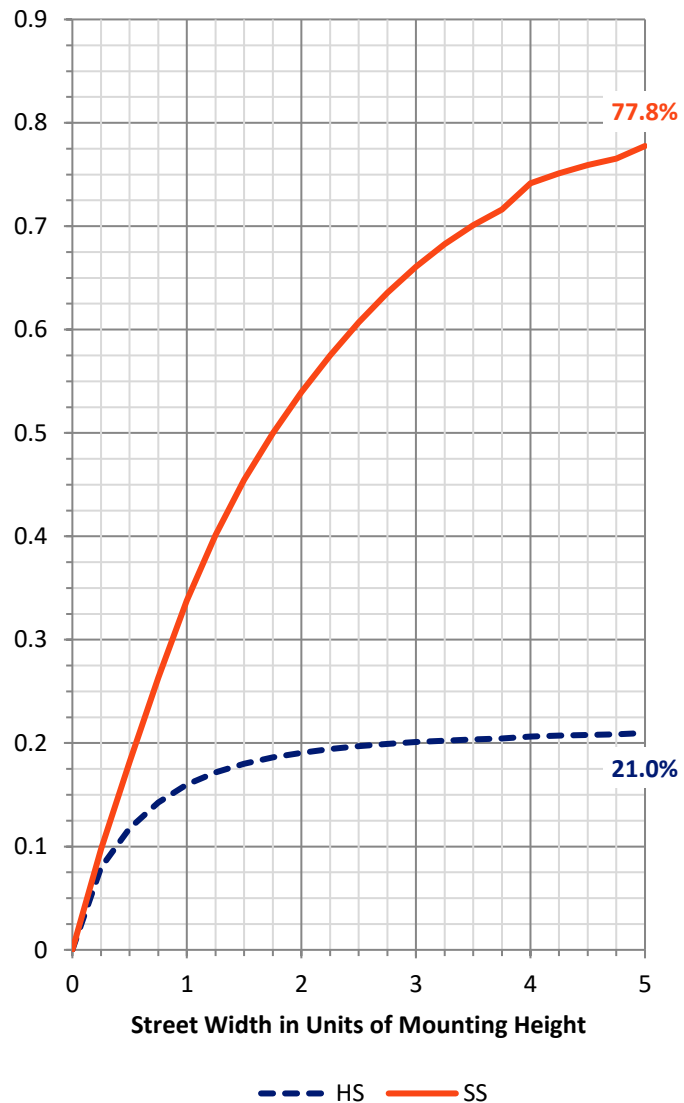
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2520.9	0.0	2520.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9219.1	0.0	9219.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	11740.0	0.0	11740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	1.4
10°-20°	449.5	3.8
20°-30°	734.1	6.3
30°-40°	1093.2	9.3
40°-50°	1567.9	13.4
50°-60°	2152.5	18.3
60°-70°	2694.9	23.0
70°-80°	2437.9	20.8
80°-90°	444.1	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°	11740.0	100.0
0°-180°	11740.0	100.0

Coefficient of Utilization



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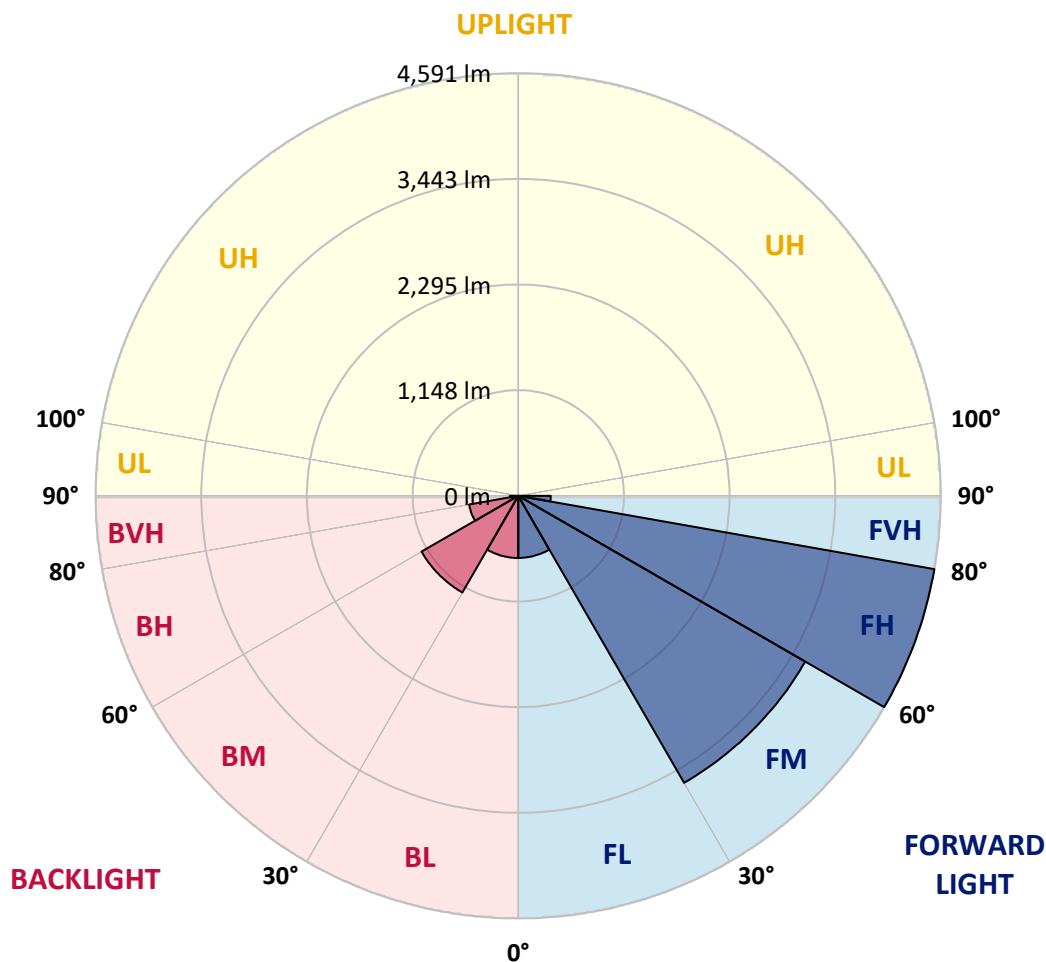
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	674.3	5.7			
FM	(30°-60°)	3600.4	30.7			
FH	(60°-80°)	4590.7	39.1			G2/5000
FVH	(80°-90°)	353.7	3.0			G3/500
BL	(0°-30°)	675.2	5.8	B2/1000		
BM	(30°-60°)	1213.2	10.3	B2/2500		
BH	(60°-80°)	542.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	90.4	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°	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0
2.5°	1704.0	1697.6	1709.7	1711.3	1721.9	1725.9	1740.5	1763.2	1781.9	1803.4	1822.9
5°	1549.5	1545.1	1562.1	1574.3	1597.4	1607.1	1641.6	1689.8	1732.8	1781.5	1825.7
7.5°	1402.7	1400.3	1419.4	1446.9	1473.7	1487.1	1546.7	1616.9	1688.6	1767.3	1835.0
10°	1279.0	1278.2	1296.5	1323.7	1363.0	1378.0	1455.0	1547.5	1648.1	1756.4	1850.8
12.5°	1209.7	1212.5	1221.1	1243.8	1280.3	1295.3	1380.8	1489.5	1614.0	1752.7	1874.0
15°	1226.7	1231.2	1216.6	1215.8	1241.7	1253.5	1333.8	1448.2	1589.7	1758.8	1907.6
17.5°	1299.3	1300.1	1261.6	1237.3	1253.1	1259.2	1319.2	1424.6	1575.5	1772.6	1949.8
20°	1401.5	1399.5	1331.4	1290.8	1299.3	1300.9	1339.9	1425.0	1574.3	1796.5	2004.5
22.5°	1537.0	1522.0	1430.3	1375.2	1373.1	1370.7	1393.0	1455.0	1592.1	1835.4	2069.8
25°	1713.8	1699.6	1573.5	1498.0	1481.8	1475.7	1479.0	1519.1	1627.4	1877.2	2142.8
27.5°	1910.5	1885.7	1764.1	1657.4	1623.7	1615.2	1595.8	1609.6	1665.9	1917.4	2229.6
30°	2075.1	2061.7	1955.5	1828.9	1789.2	1777.0	1725.9	1710.9	1721.5	1972.1	2339.1
32.5°	2167.2	2158.2	2093.8	1991.6	1954.7	1937.6	1865.4	1835.4	1810.7	2058.5	2487.5
35°	2278.7	2273.0	2234.1	2159.9	2105.1	2087.3	2031.3	2000.1	1936.4	2177.3	2679.3
37.5°	2420.6	2414.5	2415.3	2355.3	2290.0	2273.4	2236.5	2203.7	2099.4	2333.4	2887.8
40°	2581.2	2569.4	2565.0	2562.1	2520.8	2511.5	2492.0	2447.4	2303.8	2520.0	3093.4
42.5°	2822.9	2781.1	2691.9	2725.6	2766.5	2761.7	2777.5	2713.4	2530.9	2740.6	3294.1
45°	3056.1	2987.5	2833.4	2840.7	2930.4	2957.5	3076.0	3030.5	2777.1	2982.3	3501.8
47.5°	3162.3	3110.4	2979.4	2979.8	3068.7	3125.0	3384.6	3352.1	3035.8	3256.8	3755.2
50°	3281.2	3229.2	3111.6	3155.8	3233.3	3293.3	3682.6	3666.0	3282.0	3557.3	4059.0
52.5°	3410.9	3322.9	3248.3	3327.4	3436.1	3505.8	3981.1	3935.7	3507.8	3859.8	4408.1
55°	3412.5	3388.6	3445.4	3503.4	3666.0	3751.6	4293.8	4173.7	3692.0	4157.1	4692.4
57.5°	3606.8	3567.9	3688.3	3715.1	3927.6	4024.1	4604.8	4381.0	3879.3	4385.0	4845.7
60°	3863.9	3830.6	3929.2	3999.8	4251.2	4380.1	4936.9	4593.9	4026.5	4557.0	4838.4
62.5°	4308.0	4270.2	4269.0	4368.0	4706.6	4856.6	5309.6	4802.7	4084.9	4591.0	4632.0
65°	4958.0	4898.0	4784.9	4831.9	5335.6	5485.2	5726.1	4954.0	4007.9	4408.5	4100.3
67.5°	5590.7	5588.6	5449.5	5546.0	6166.1	6286.1	6200.6	4969.0	3767.4	3773.1	3157.1
70°	6221.3	6229.4	6205.8	6541.6	7288.2	7413.1	6705.9	4767.4	3226.8	2724.8	1891.4
72.5°	6720.9	6718.8	6837.3	7703.1	8744.5	8716.5	7131.7	4156.7	2316.8	1470.9	903.9
75°	6397.3	6326.7	6679.5	8278.1	9593.2	9456.6	6769.5	2899.5	1202.4	669.5	486.6
77.5°	4172.5	4239.4	4757.3	6838.5	8391.2	8225.0	4966.5	1352.9	566.5	439.2	352.8
80°	1511.0	1581.6	2227.6	3873.6	5781.3	5754.1	2445.8	556.0	383.2	331.7	257.1
82.5°	519.9	545.8	878.8	1720.3	3264.1	3385.8	920.1	315.9	278.6	235.2	176.0
85°	204.0	233.6	401.9	827.7	1646.5	1658.6	372.7	189.0	193.8	154.1	96.5
87.5°	77.5	94.1	192.2	384.4	751.9	690.6	133.4	90.0	110.3	91.7	45.8
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°	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0
2.5°	1837.9	1846.4	1864.2	1876.4	1889.4	1893.0	1894.6	1897.9	1901.1	1899.9	1900.3
5°	1849.2	1865.8	1894.6	1906.8	1912.5	1906.0	1893.4	1883.3	1876.0	1871.9	1870.7
7.5°	1867.9	1891.4	1922.2	1920.2	1907.2	1878.4	1846.0	1821.6	1801.4	1794.1	1790.0
10°	1892.6	1920.2	1941.7	1918.6	1880.9	1831.0	1782.3	1744.6	1714.2	1702.4	1700.4
12.5°	1924.2	1952.2	1956.3	1907.2	1844.8	1776.6	1710.5	1660.6	1615.2	1600.6	1597.4
15°	1965.2	1991.6	1966.4	1887.3	1800.2	1708.5	1622.9	1555.2	1507.4	1489.5	1483.0
17.5°	2008.2	2033.3	1968.4	1854.5	1741.8	1627.8	1520.3	1451.0	1396.2	1375.6	1373.1
20°	2059.7	2071.0	1959.9	1807.5	1661.5	1523.2	1410.0	1344.7	1315.5	1300.9	1299.3
22.5°	2123.4	2111.2	1940.5	1743.8	1559.7	1402.3	1310.3	1279.9	1272.6	1269.3	1270.5
25°	2190.7	2153.4	1911.7	1660.6	1431.1	1281.5	1237.3	1245.8	1255.5	1254.3	1254.3
27.5°	2264.9	2196.4	1867.5	1550.3	1288.8	1182.5	1187.8	1219.0	1233.6	1233.2	1232.8
30°	2360.2	2245.0	1811.1	1417.7	1155.8	1112.8	1144.8	1182.9	1202.8	1202.0	1202.4
32.5°	2477.4	2298.5	1734.5	1269.7	1059.7	1061.3	1098.2	1135.9	1159.0	1157.0	1157.4
35°	2614.5	2358.6	1630.6	1123.7	996.0	1020.3	1049.5	1075.9	1097.8	1094.9	1092.1
37.5°	2763.7	2417.4	1492.8	993.1	944.1	982.2	1006.5	1011.0	1021.1	1013.8	1008.6
40°	2905.6	2462.4	1315.1	886.1	891.8	949.8	965.6	947.7	929.5	927.0	919.7
42.5°	3029.3	2477.4	1135.5	800.5	836.6	915.7	925.4	888.1	855.3	839.9	833.4
45°	3159.9	2482.7	968.0	728.7	783.5	885.3	895.8	845.9	799.7	766.5	755.5
47.5°	3330.6	2520.8	837.8	675.6	742.9	865.0	880.0	812.3	752.3	704.8	694.7
50°	3554.1	2596.2	732.0	635.1	716.6	851.6	868.6	779.4	713.3	656.1	646.0
52.5°	3802.3	2665.6	646.4	602.2	691.0	828.1	854.0	755.9	676.8	611.1	600.2
55°	3975.8	2612.4	577.5	568.1	657.8	794.4	833.8	736.0	624.5	567.3	557.6
57.5°	4009.1	2430.8	525.2	532.9	617.6	752.3	802.5	691.8	596.1	548.3	538.1
60°	3918.2	2177.7	486.2	500.4	574.6	699.1	744.1	660.6	569.0	528.0	519.5
62.5°	3689.9	1918.6	457.4	471.2	534.5	645.2	707.7	627.8	541.4	504.9	496.4
65°	3228.8	1610.8	429.9	445.3	497.2	598.6	674.8	597.3	514.2	486.2	478.1
67.5°	2437.2	1206.5	403.9	417.7	463.9	558.0	639.1	567.3	487.9	470.0	460.3
70°	1435.2	755.5	374.3	388.9	429.1	515.8	601.0	534.5	455.0	446.9	434.3
72.5°	667.9	454.6	340.6	354.8	385.3	459.5	551.9	491.5	416.1	398.2	381.2
75°	398.6	332.5	300.9	313.5	335.0	399.4	490.3	447.7	379.2	355.7	337.8
77.5°	298.1	254.3	257.1	270.5	287.9	349.6	434.3	413.2	350.8	332.5	320.4
80°	214.5	193.0	209.7	224.3	242.5	317.9	416.1	382.0	317.1	292.8	281.4
82.5°	143.2	138.7	157.8	172.8	190.6	278.2	390.9	334.6	270.9	240.1	214.9
85°	79.1	83.5	106.2	112.7	128.1	195.9	320.4	268.9	204.0	164.2	156.9
87.5°	32.8	38.5	57.2	55.2	68.1	116.8	210.9	162.2	129.8	96.9	75.4
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)