

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: P318627

Luminaire Tested: **GAN-SA3A-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318627
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-SA3A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 11969 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

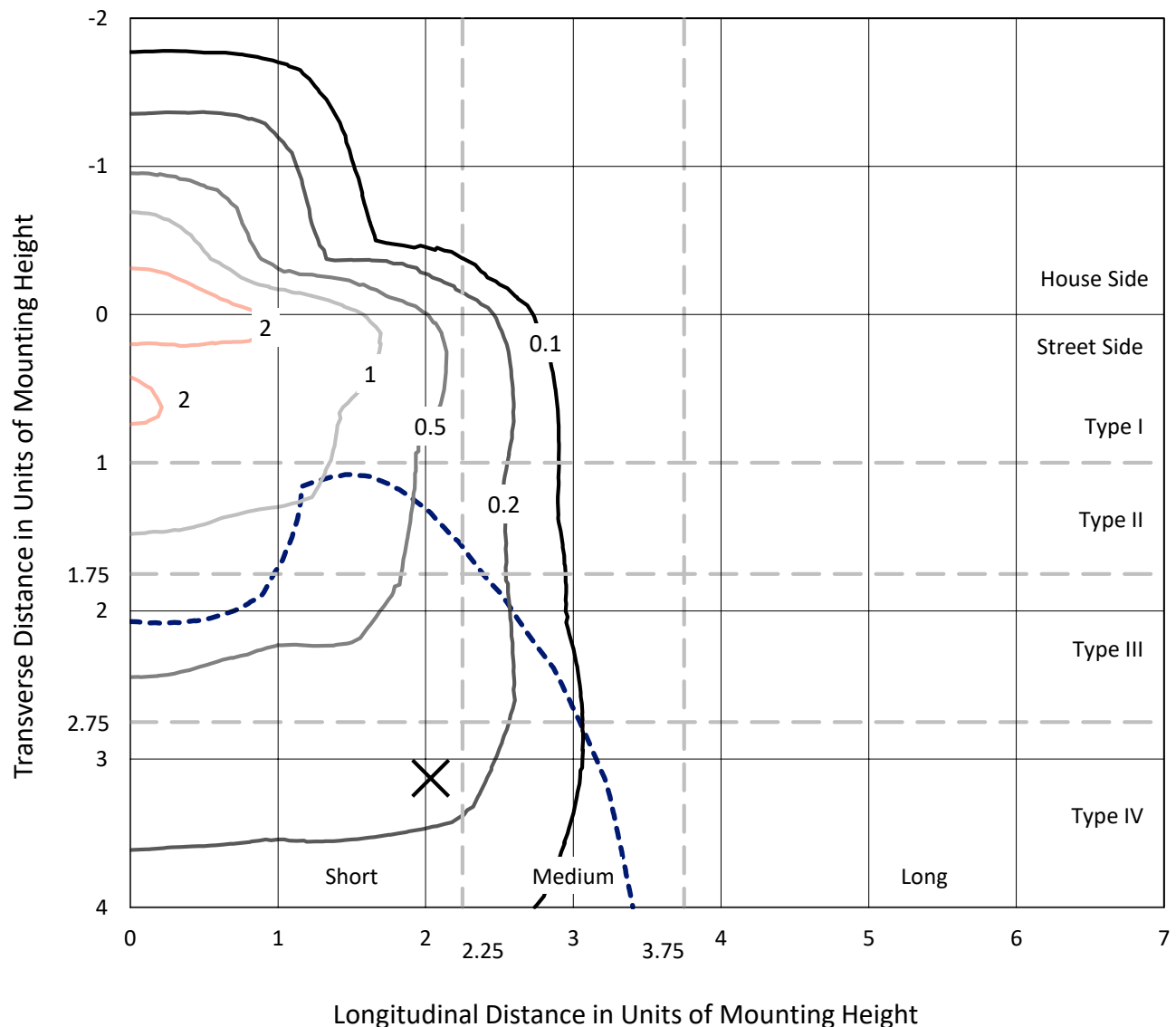
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

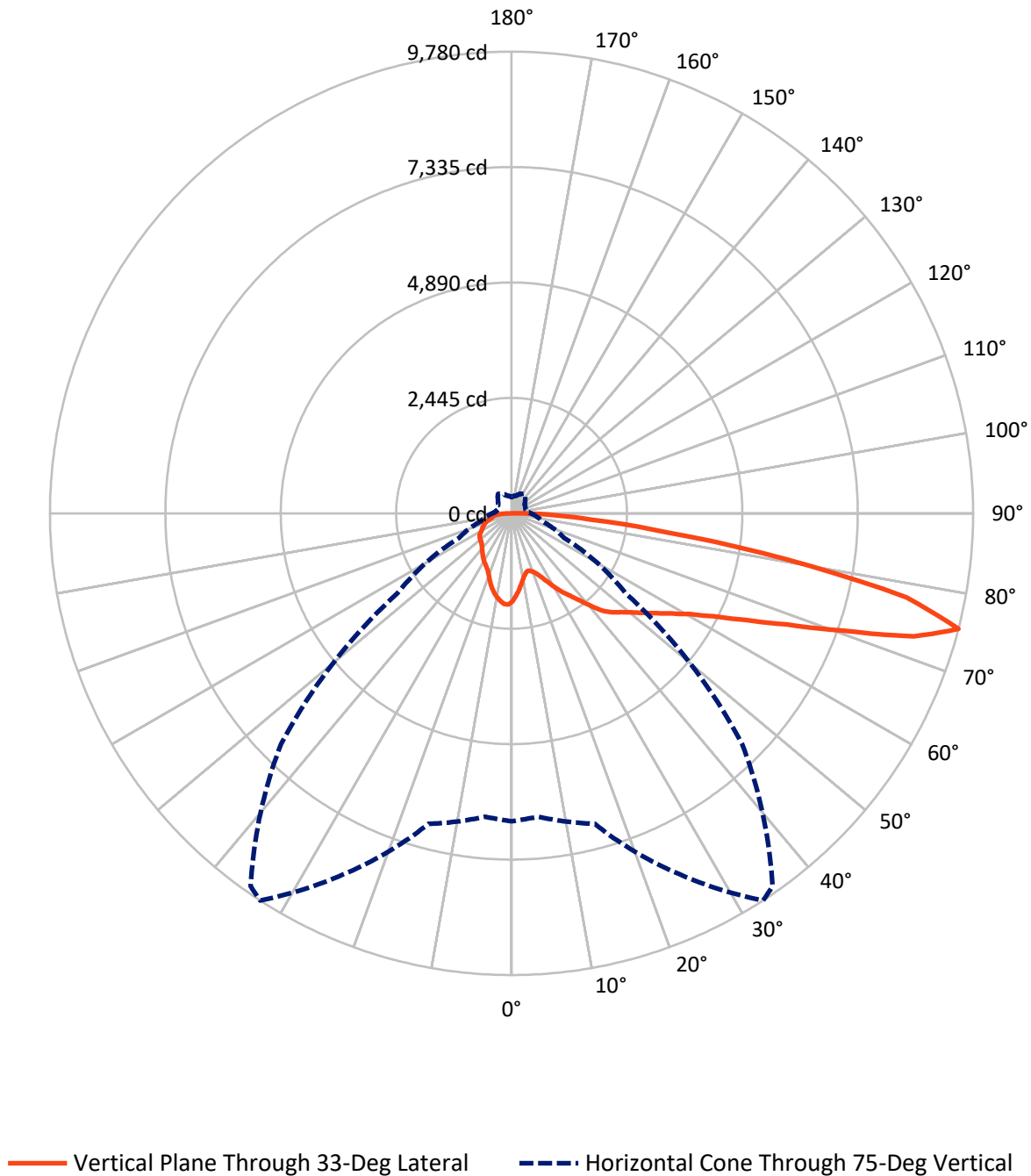
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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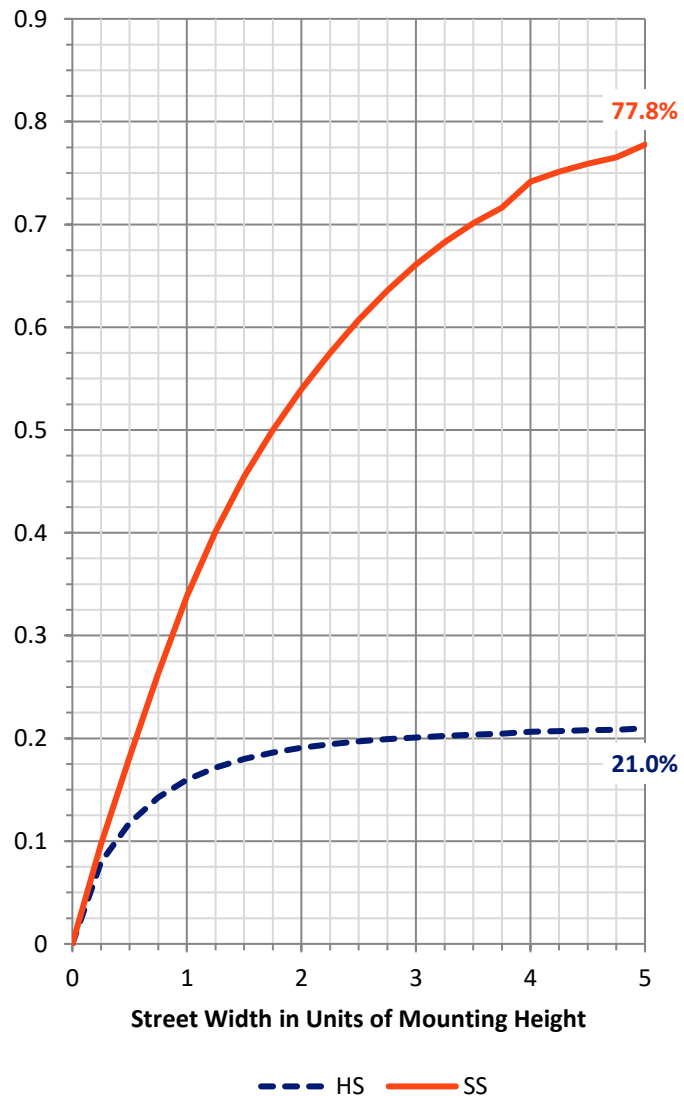
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2570.1	0.0	2570.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9398.9	0.0	9398.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	11969.0	0.0	11969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	1.4
10°-20°	458.2	3.8
20°-30°	748.4	6.3
30°-40°	1114.5	9.3
40°-50°	1598.5	13.4
50°-60°	2194.5	18.3
60°-70°	2747.4	23.0
70°-80°	2485.5	20.8
80°-90°	452.7	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°	11969.0	100.0
0°-180°	11969.0	100.0

Coefficient of Utilization



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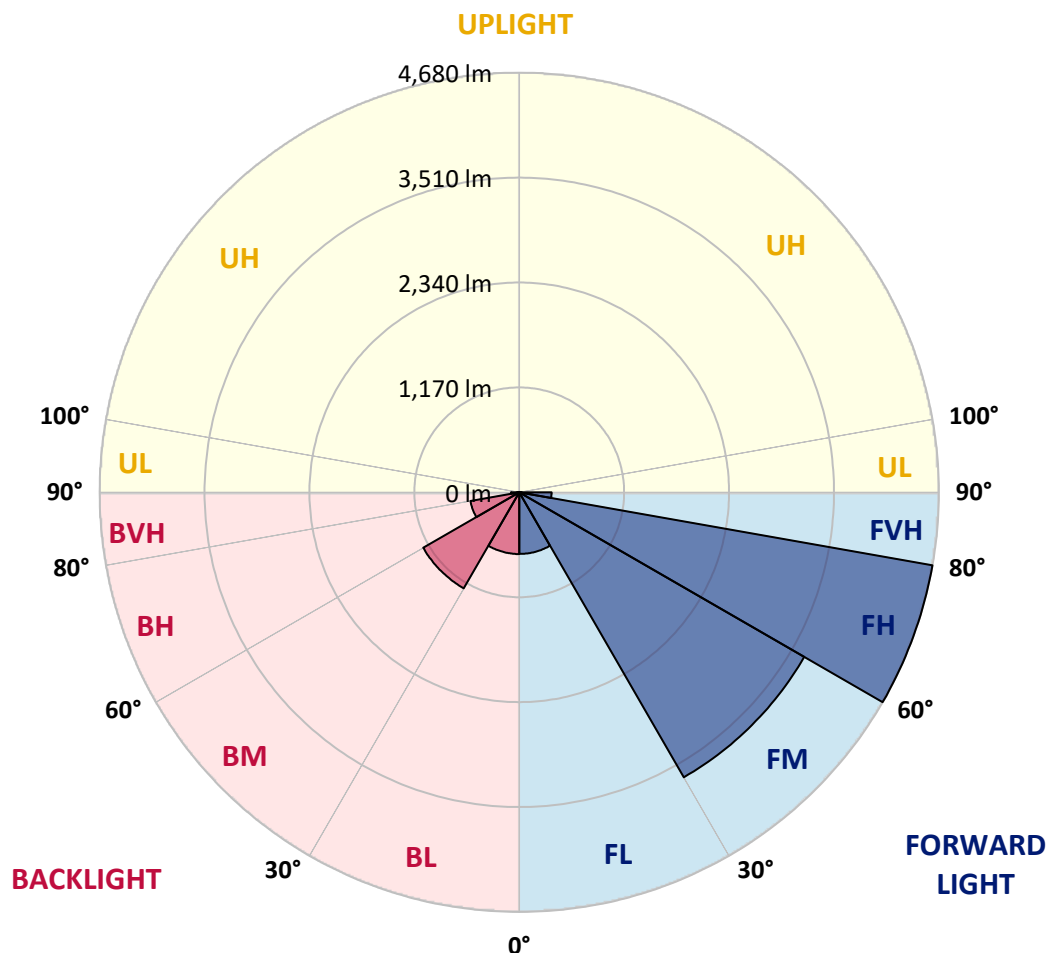
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	687.4	5.7			
FM	(30°-60°)	3670.6	30.7			
FH	(60°-80°)	4680.3	39.1			G2/5000
FVH	(80°-90°)	360.6	3.0			G3/500
BL	(0°-30°)	688.4	5.8	B2/1000		
BM	(30°-60°)	1236.9	10.3	B2/2500		
BH	(60°-80°)	552.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	92.2	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°	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8
2.5°	1737.3	1730.7	1743.1	1744.7	1755.5	1759.6	1774.5	1797.6	1816.7	1838.6	1858.4
5°	1579.8	1575.2	1592.6	1605.0	1628.5	1638.5	1673.6	1722.8	1766.6	1816.2	1861.3
7.5°	1430.1	1427.6	1447.0	1475.2	1502.4	1516.1	1576.9	1648.4	1721.6	1801.8	1870.8
10°	1304.0	1303.2	1321.8	1349.5	1389.6	1404.9	1483.4	1577.7	1680.2	1790.6	1886.9
12.5°	1233.3	1236.2	1244.9	1268.0	1305.2	1320.5	1407.8	1518.6	1645.5	1786.9	1910.5
15°	1250.7	1255.2	1240.3	1239.5	1266.0	1277.9	1359.8	1476.4	1620.7	1793.1	1944.8
17.5°	1324.7	1325.5	1286.2	1261.4	1277.5	1283.7	1344.9	1452.4	1606.2	1807.2	1987.8
20°	1428.9	1426.8	1357.3	1316.0	1324.7	1326.3	1366.0	1452.8	1605.0	1831.5	2043.6
22.5°	1566.9	1551.6	1458.2	1402.0	1399.9	1397.4	1420.2	1483.4	1623.2	1871.2	2110.2
25°	1747.2	1732.7	1604.2	1527.3	1510.7	1504.5	1507.8	1548.8	1659.1	1913.8	2184.6
27.5°	1947.7	1922.5	1798.5	1689.7	1655.4	1646.7	1626.9	1640.9	1698.4	1954.8	2273.1
30°	2115.6	2101.9	1993.6	1864.6	1824.1	1811.7	1759.6	1744.3	1755.1	2010.6	2384.7
32.5°	2209.4	2200.3	2134.6	2030.4	1992.8	1975.4	1901.8	1871.2	1846.0	2098.6	2536.0
35°	2323.1	2317.3	2277.6	2202.0	2146.2	2128.0	2070.9	2039.1	1974.2	2219.8	2731.6
37.5°	2467.8	2461.6	2462.5	2401.3	2334.7	2317.8	2280.1	2246.6	2140.4	2378.9	2944.1
40°	2631.6	2619.6	2615.0	2612.1	2570.0	2560.4	2540.6	2495.1	2348.8	2569.1	3153.7
42.5°	2878.0	2835.4	2744.4	2778.7	2820.5	2815.5	2831.7	2766.3	2580.3	2794.0	3358.4
45°	3115.7	3045.8	2888.7	2896.2	2987.5	3015.2	3136.0	3089.6	2831.2	3040.4	3570.1
47.5°	3224.0	3171.1	3037.6	3038.0	3128.5	3186.0	3450.6	3417.5	3095.0	3320.3	3828.5
50°	3345.2	3292.2	3172.3	3217.4	3296.4	3357.6	3754.5	3737.5	3346.0	3626.7	4138.1
52.5°	3477.5	3387.7	3311.7	3392.3	3503.1	3574.2	4058.8	4012.4	3576.3	3935.1	4494.1
55°	3479.1	3454.7	3512.6	3571.7	3737.5	3824.7	4377.5	4255.1	3764.0	4238.2	4783.9
57.5°	3677.1	3637.5	3760.2	3787.5	4004.2	4102.6	4694.6	4466.4	3955.0	4470.5	4940.2
60°	3939.3	3905.4	4005.8	4077.8	4334.1	4465.6	5033.2	4683.5	4105.1	4645.8	4932.8
62.5°	4392.0	4353.5	4352.3	4453.2	4798.4	4951.4	5413.2	4896.4	4164.6	4680.6	4722.3
65°	5054.7	4993.5	4878.2	4926.2	5439.6	5592.2	5837.8	5050.6	4086.0	4494.5	4180.3
67.5°	5699.7	5697.6	5555.8	5654.2	6286.4	6408.8	6321.5	5065.9	3840.9	3846.7	3218.6
70°	6342.6	6350.9	6326.9	6669.2	7430.4	7557.7	6836.7	4860.4	3289.8	2777.9	1928.3
72.5°	6852.0	6849.9	6970.6	7853.3	8915.0	8886.5	7270.8	4237.8	2362.0	1499.6	921.6
75°	6522.0	6450.1	6809.8	8439.6	9780.4	9641.0	6901.6	2956.1	1225.9	682.6	496.1
77.5°	4253.9	4322.1	4850.1	6971.9	8554.9	8385.4	5063.4	1379.2	577.6	447.8	359.7
80°	1540.5	1612.4	2271.0	3949.2	5894.0	5866.3	2493.5	566.8	390.7	338.2	262.1
82.5°	530.0	556.5	895.9	1753.8	3327.8	3451.8	938.1	322.1	284.0	239.8	179.4
85°	208.0	238.1	409.7	843.8	1678.6	1691.0	380.0	192.7	197.6	157.1	98.4
87.5°	79.0	95.9	196.0	391.9	766.5	704.1	136.0	91.8	112.5	93.4	46.7
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°	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8	1870.8
2.5°	1873.7	1882.4	1900.6	1913.0	1926.2	1929.9	1931.6	1934.9	1938.2	1937.0	1937.4
5°	1885.3	1902.2	1931.6	1944.0	1949.8	1943.2	1930.4	1920.0	1912.6	1908.4	1907.2
7.5°	1904.3	1928.3	1959.7	1957.6	1944.4	1915.1	1882.0	1857.2	1836.5	1829.1	1824.9
10°	1929.5	1957.6	1979.6	1956.0	1917.5	1866.7	1817.1	1778.6	1747.6	1735.6	1733.6
12.5°	1961.8	1990.3	1994.4	1944.4	1880.7	1811.3	1743.9	1693.0	1646.7	1631.9	1628.5
15°	2003.5	2030.4	2004.8	1924.2	1835.3	1741.8	1654.6	1585.5	1536.8	1518.6	1512.0
17.5°	2047.4	2073.0	2006.8	1890.7	1775.7	1659.6	1550.0	1479.3	1423.5	1402.4	1399.9
20°	2099.9	2111.4	1998.2	1842.7	1693.9	1552.9	1437.5	1371.0	1341.2	1326.3	1324.7
22.5°	2164.8	2152.4	1978.3	1777.8	1590.1	1429.7	1335.8	1304.8	1297.4	1294.1	1295.3
25°	2233.4	2195.4	1949.0	1693.0	1459.0	1306.5	1261.4	1270.1	1280.0	1278.8	1278.8
27.5°	2309.1	2239.2	1903.9	1580.6	1313.9	1205.6	1211.0	1242.8	1257.7	1257.3	1256.9
30°	2406.2	2288.8	1846.4	1445.4	1178.3	1134.5	1167.1	1206.0	1226.3	1225.4	1225.9
32.5°	2525.7	2343.4	1768.3	1294.5	1080.3	1082.0	1119.6	1158.0	1181.6	1179.5	1180.0
35°	2665.5	2404.6	1662.4	1145.6	1015.4	1040.2	1070.0	1096.9	1119.2	1116.3	1113.4
37.5°	2817.6	2464.5	1521.9	1012.5	962.5	1001.4	1026.2	1030.7	1041.0	1033.6	1028.2
40°	2962.3	2510.4	1340.8	903.4	909.2	968.3	984.4	966.2	947.6	945.1	937.7
42.5°	3088.4	2525.7	1157.6	816.1	852.9	933.6	943.5	905.4	871.9	856.2	849.6
45°	3221.5	2531.1	986.9	743.0	798.8	902.5	913.3	862.4	815.3	781.4	770.2
47.5°	3395.6	2570.0	854.2	688.8	757.4	881.9	897.2	828.1	766.9	718.6	708.2
50°	3623.4	2646.9	746.3	647.4	730.6	868.2	885.6	794.6	727.2	668.9	658.6
52.5°	3876.4	2717.5	659.0	614.0	704.5	844.2	870.7	770.7	690.0	623.1	611.9
55°	4053.4	2663.4	588.7	579.2	670.6	809.9	850.0	750.4	636.7	578.4	568.5
57.5°	4087.3	2478.2	535.4	543.3	629.7	766.9	818.2	705.3	607.8	559.0	548.6
60°	3994.7	2220.2	495.7	510.2	585.8	712.8	758.7	673.5	580.1	538.3	529.6
62.5°	3761.9	1956.0	466.4	480.4	544.9	657.8	721.5	640.0	551.9	514.7	506.1
65°	3291.8	1642.2	438.2	454.0	506.9	610.2	688.0	609.0	524.2	495.7	487.4
67.5°	2484.8	1230.0	411.8	425.8	473.0	568.9	651.6	578.4	497.4	479.2	469.3
70°	1463.2	770.2	381.6	396.5	437.4	525.9	612.7	544.9	463.9	455.6	442.8
72.5°	680.9	463.5	347.3	361.8	392.8	468.4	562.7	501.1	424.2	406.0	388.6
75°	406.4	339.0	306.8	319.6	341.5	407.2	499.9	456.4	386.6	362.6	344.4
77.5°	303.9	259.2	262.1	275.8	293.5	356.4	442.8	421.3	357.6	339.0	326.6
80°	218.7	196.8	213.7	228.6	247.2	324.1	424.2	389.5	323.3	298.5	286.9
82.5°	145.9	141.4	160.8	176.1	194.3	283.6	398.6	341.1	276.2	244.8	219.1
85°	80.6	85.2	108.3	114.9	130.6	199.7	326.6	274.1	208.0	167.4	160.0
87.5°	33.5	39.3	58.3	56.2	69.5	119.1	215.0	165.4	132.3	98.8	76.9
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)