

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: P318637

Luminaire Tested: **GAN-SA3B-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318637
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-SA3B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 14677 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

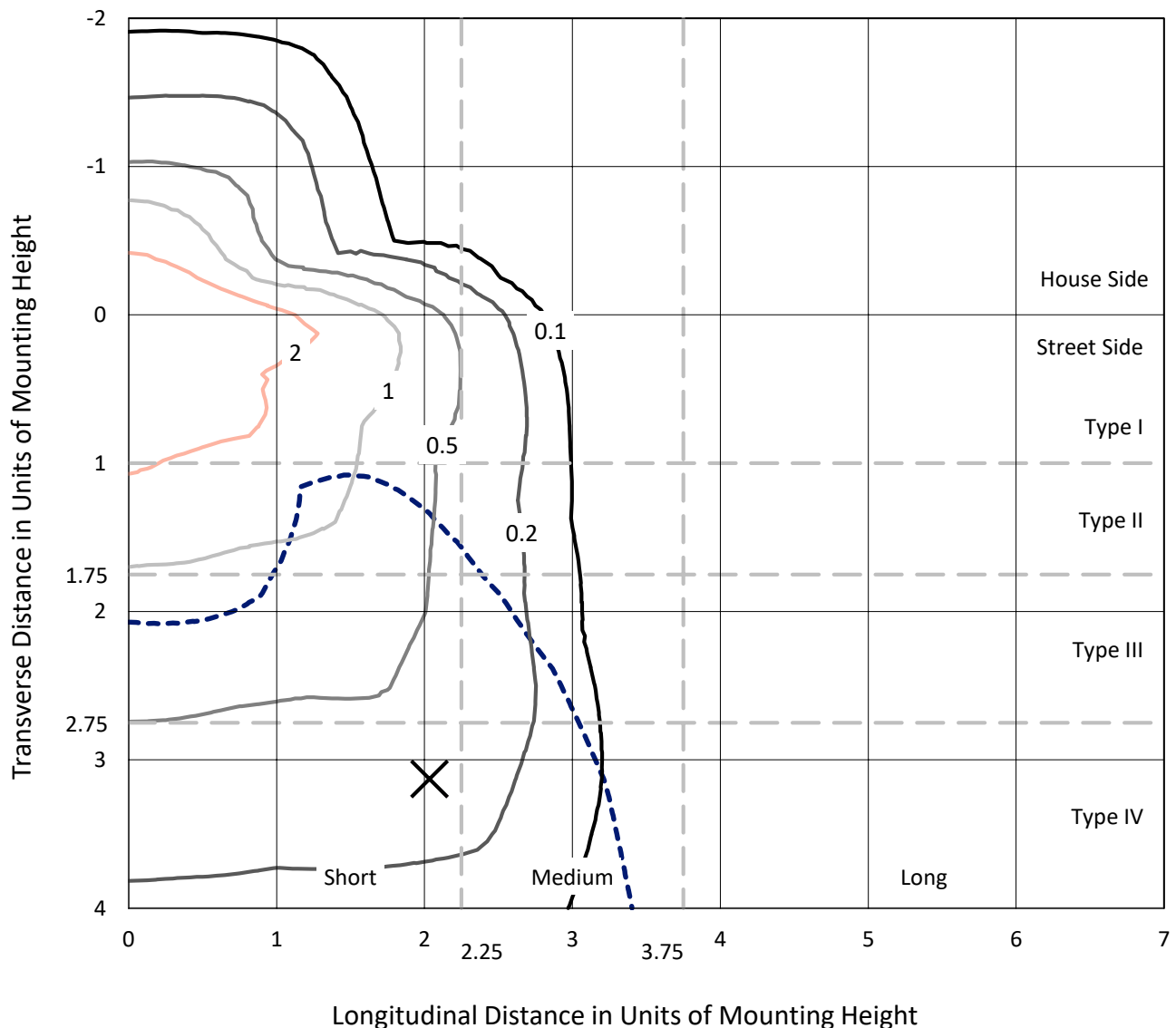
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

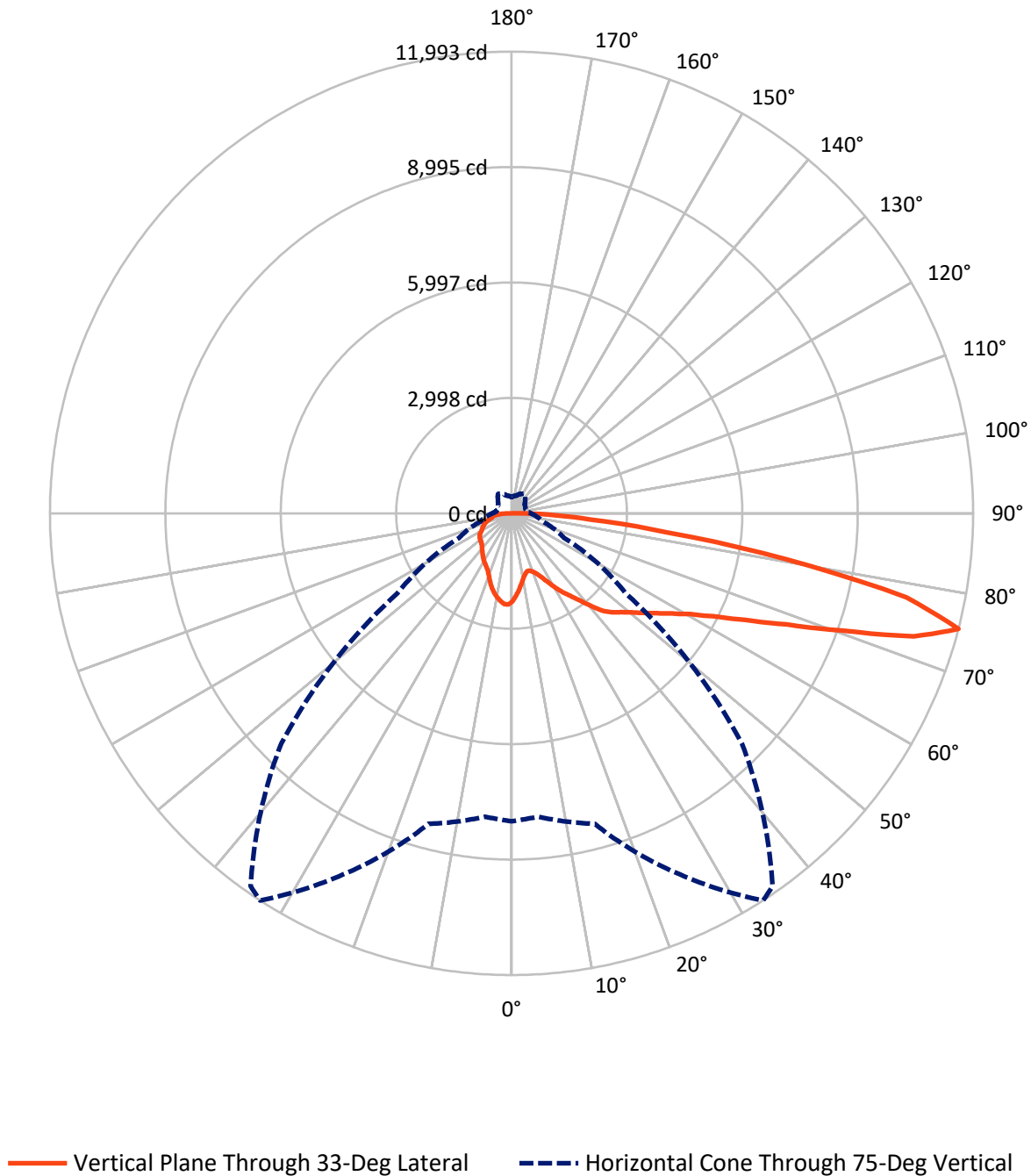
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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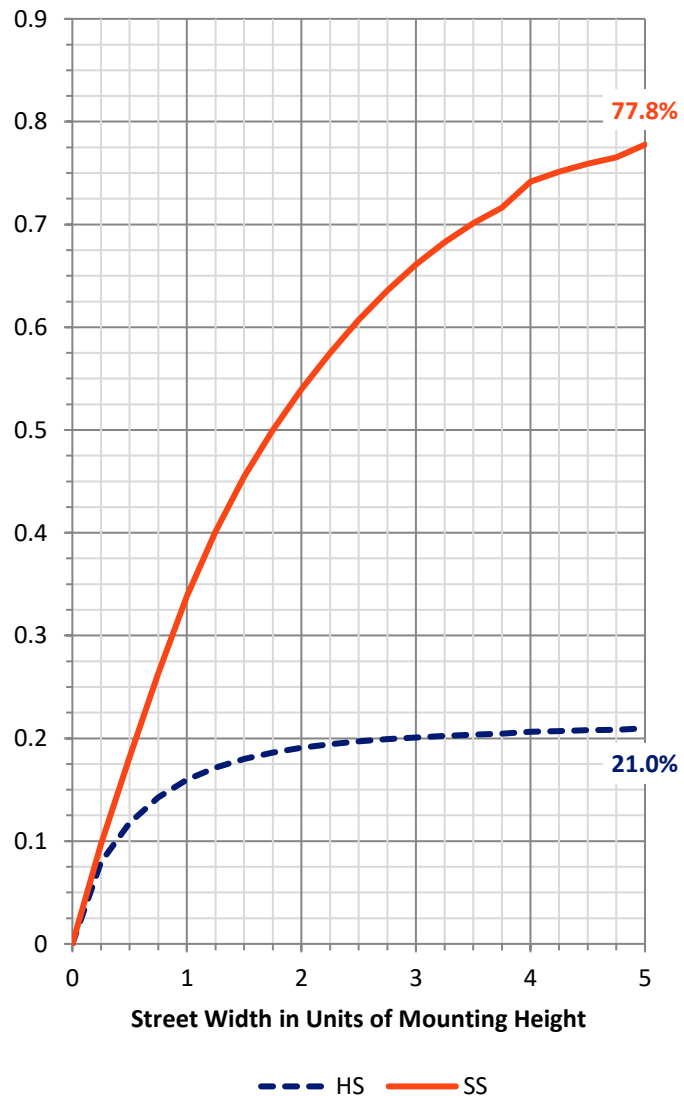
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3151.5	0.0	3151.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	11525.5	0.0	11525.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	14677.0	0.0	14677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	1.4
10°-20°	561.9	3.8
20°-30°	917.7	6.3
30°-40°	1366.7	9.3
40°-50°	1960.2	13.4
50°-60°	2691.0	18.3
60°-70°	3369.0	23.0
70°-80°	3047.8	20.8
80°-90°	555.2	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°	14677.0	100.0
0°-180°	14677.0	100.0

Coefficient of Utilization



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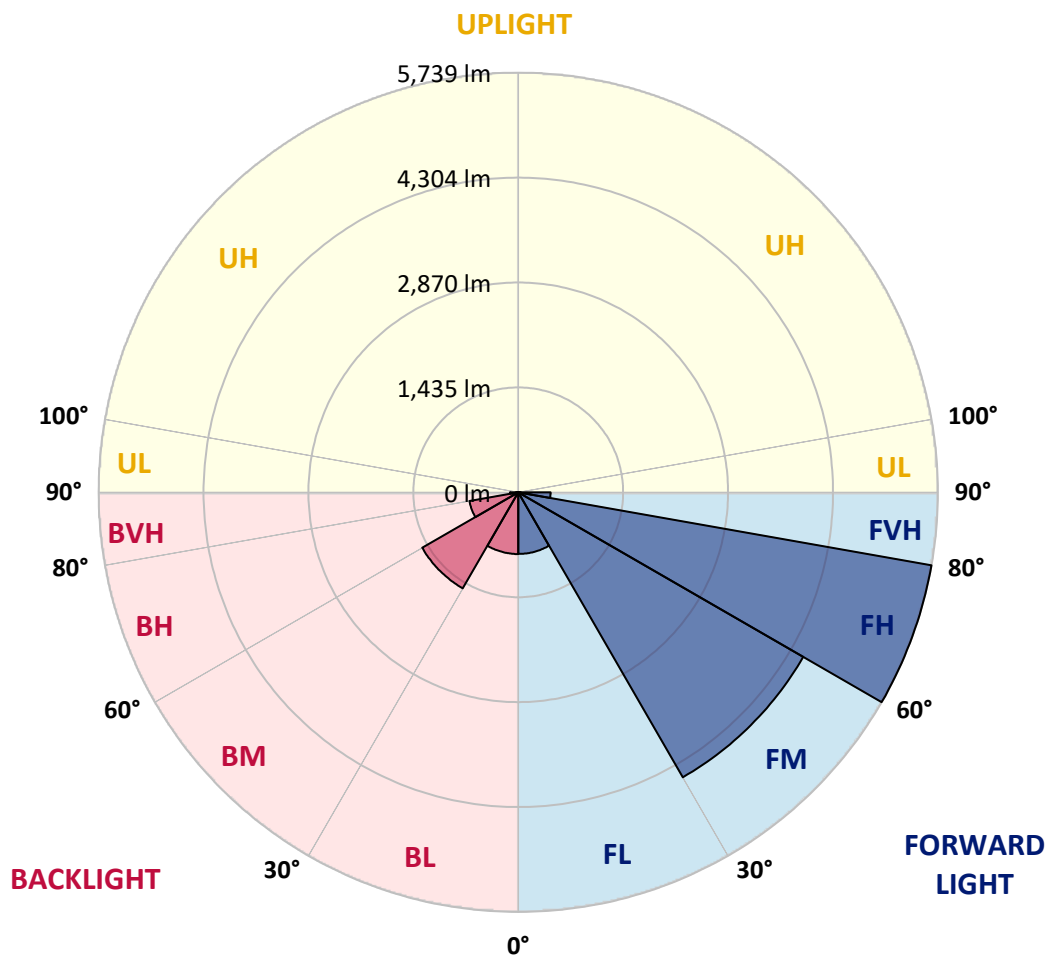
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	843.0	5.7			
FM	(30°-60°)	4501.1	30.7			
FH	(60°-80°)	5739.2	39.1			G3/7500
FVH	(80°-90°)	442.1	3.0			G3/500
BL	(0°-30°)	844.1	5.8	B2/1000		
BM	(30°-60°)	1516.7	10.3	B2/2500		
BH	(60°-80°)	677.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	113.0	0.8			G2/225
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°	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1
2.5°	2130.3	2122.2	2137.4	2139.5	2152.6	2157.7	2176.0	2204.4	2227.7	2254.6	2278.9
5°	1937.2	1931.6	1952.9	1968.1	1997.0	2009.2	2052.3	2112.6	2166.3	2227.2	2282.4
7.5°	1753.7	1750.6	1774.4	1808.9	1842.4	1859.1	1933.6	2021.3	2111.1	2209.4	2294.1
10°	1599.0	1598.0	1620.8	1654.8	1704.0	1722.7	1819.1	1934.6	2060.4	2195.7	2313.9
12.5°	1512.3	1515.9	1526.5	1554.9	1600.5	1619.3	1726.3	1862.1	2017.8	2191.2	2342.8
15°	1533.6	1539.2	1520.9	1519.9	1552.4	1567.1	1667.5	1810.4	1987.4	2198.8	2384.8
17.5°	1624.4	1625.4	1577.2	1546.8	1566.6	1574.2	1649.2	1781.0	1969.6	2216.0	2437.6
20°	1752.1	1749.6	1664.4	1613.7	1624.4	1626.4	1675.1	1781.5	1968.1	2245.9	2506.0
22.5°	1921.5	1902.7	1788.1	1719.2	1716.6	1713.6	1741.5	1819.1	1990.4	2294.6	2587.6
25°	2142.5	2124.8	1967.1	1872.8	1852.5	1844.9	1849.0	1899.2	2034.5	2346.8	2678.9
27.5°	2388.4	2357.5	2205.4	2072.0	2030.0	2019.3	1995.0	2012.2	2082.7	2397.0	2787.4
30°	2594.2	2577.5	2444.7	2286.5	2236.8	2221.6	2157.7	2139.0	2152.1	2465.5	2924.3
32.5°	2709.3	2698.2	2617.6	2489.8	2443.7	2422.4	2332.1	2294.6	2263.7	2573.4	3109.8
35°	2848.7	2841.6	2793.0	2700.2	2631.7	2609.4	2539.5	2500.4	2420.8	2722.0	3349.6
37.5°	3026.2	3018.6	3019.6	2944.6	2862.9	2842.1	2796.0	2754.9	2624.7	2917.2	3610.2
40°	3226.9	3212.2	3206.7	3203.1	3151.4	3139.7	3115.4	3059.6	2880.2	3150.4	3867.3
42.5°	3529.1	3476.9	3365.4	3407.4	3458.6	3452.6	3472.3	3392.2	3164.1	3426.2	4118.2
45°	3820.6	3734.9	3542.3	3551.4	3663.5	3697.4	3845.5	3788.7	3471.8	3728.4	4377.8
47.5°	3953.5	3888.6	3724.8	3725.3	3836.3	3906.8	4231.3	4190.7	3795.3	4071.6	4694.7
50°	4102.0	4037.1	3890.1	3945.3	4042.2	4117.2	4603.9	4583.1	4103.0	4447.3	5074.4
52.5°	4264.2	4154.2	4060.9	4159.8	4295.7	4382.9	4977.1	4920.3	4385.4	4825.5	5510.9
55°	4266.3	4236.3	4307.3	4379.8	4583.1	4690.1	5367.9	5217.9	4615.6	5197.1	5866.3
57.5°	4509.1	4460.4	4611.0	4644.5	4910.1	5030.8	5756.8	5476.9	4849.8	5482.0	6057.9
60°	4830.5	4789.0	4912.2	5000.4	5314.7	5475.9	6172.0	5743.1	5033.8	5697.0	6048.8
62.5°	5385.7	5338.5	5337.0	5460.7	5884.0	6071.6	6637.9	6004.2	5106.8	5739.6	5790.8
65°	6198.4	6123.3	5981.9	6040.7	6670.4	6857.4	7158.6	6193.3	5010.5	5511.4	5126.1
67.5°	6989.3	6986.7	6812.8	6933.5	7708.7	7858.7	7751.8	6212.1	4709.9	4717.0	3946.9
70°	7777.6	7787.8	7758.4	8178.1	9111.5	9267.6	8383.5	5960.1	4034.1	3406.4	2364.6
72.5°	8402.2	8399.7	8547.7	9630.1	10932.1	10897.1	8915.8	5196.6	2896.4	1838.8	1130.1
75°	7997.7	7909.4	8350.5	10349.0	11993.2	11822.3	8463.1	3624.9	1503.2	837.0	608.4
77.5°	5216.3	5300.0	5947.4	8549.3	10490.5	10282.6	6209.0	1691.3	708.3	549.1	441.1
80°	1889.0	1977.2	2784.9	4842.7	7227.5	7193.6	3057.6	695.1	479.1	414.7	321.4
82.5°	650.0	682.4	1098.6	2150.6	4080.7	4232.8	1150.3	394.9	348.3	294.1	220.0
85°	255.0	292.0	502.4	1034.8	2058.4	2073.6	465.9	236.3	242.3	192.7	120.7
87.5°	96.8	117.6	240.3	480.6	939.9	863.4	166.8	112.6	137.9	114.6	57.3
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°	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1
2.5°	2297.6	2308.3	2330.6	2345.8	2362.0	2366.6	2368.6	2372.7	2376.7	2375.2	2375.7
5°	2311.8	2332.6	2368.6	2383.8	2390.9	2382.8	2367.1	2354.4	2345.3	2340.2	2338.7
7.5°	2335.2	2364.6	2403.1	2400.6	2384.3	2348.3	2307.8	2277.4	2252.0	2242.9	2237.8
10°	2366.1	2400.6	2427.4	2398.5	2351.4	2289.0	2228.2	2181.0	2143.0	2128.3	2125.8
12.5°	2405.6	2440.6	2445.7	2384.3	2306.3	2221.1	2138.5	2076.1	2019.3	2001.1	1997.0
15°	2456.8	2489.8	2458.4	2359.5	2250.5	2135.9	2028.9	1944.3	1884.5	1862.1	1854.0
17.5°	2510.6	2542.0	2460.9	2318.4	2177.5	2035.0	1900.7	1814.0	1745.5	1719.7	1716.6
20°	2575.0	2589.2	2450.2	2259.6	2077.1	1904.2	1762.8	1681.2	1644.7	1626.4	1624.4
22.5°	2654.6	2639.4	2425.9	2180.0	1949.9	1753.1	1638.1	1600.0	1590.9	1586.9	1588.4
25°	2738.7	2692.1	2389.9	2076.1	1789.1	1602.1	1546.8	1557.5	1569.6	1568.1	1568.1
27.5°	2831.5	2745.8	2334.7	1938.2	1611.2	1478.4	1485.0	1524.0	1542.2	1541.7	1541.2
30°	2950.6	2806.7	2264.2	1772.4	1444.9	1391.2	1431.2	1478.9	1503.7	1502.7	1503.2
32.5°	3097.2	2873.6	2168.4	1587.4	1324.7	1326.8	1372.9	1420.1	1449.0	1446.4	1446.9
35°	3268.5	2948.6	2038.6	1404.8	1245.1	1275.6	1312.1	1345.0	1372.4	1368.9	1365.3
37.5°	3455.1	3022.1	1866.2	1241.6	1180.3	1227.9	1258.3	1263.9	1276.6	1267.5	1260.9
40°	3632.5	3078.4	1644.1	1107.8	1114.9	1187.4	1207.1	1184.8	1162.0	1159.0	1149.8
42.5°	3787.2	3097.2	1419.6	1000.8	1045.9	1144.8	1156.9	1110.3	1069.2	1050.0	1041.8
45°	3950.4	3103.7	1210.2	911.0	979.5	1106.7	1119.9	1057.6	999.8	958.2	944.5
47.5°	4163.9	3151.4	1047.4	844.6	928.8	1081.4	1100.2	1015.5	940.5	881.1	868.5
50°	4443.2	3245.7	915.1	793.9	895.8	1064.7	1086.0	974.4	891.8	820.3	807.6
52.5°	4753.5	3332.4	808.1	752.9	863.9	1035.3	1067.7	945.0	846.2	764.0	750.3
55°	4970.5	3266.0	721.9	710.3	822.3	993.2	1042.4	920.2	780.8	709.3	697.1
57.5°	5012.0	3038.9	656.5	666.2	772.1	940.5	1003.3	864.9	745.3	685.4	672.8
60°	4898.5	2722.5	607.9	625.6	718.4	874.0	930.3	825.9	711.3	660.1	649.4
62.5°	4613.0	2398.5	571.9	589.1	668.2	806.6	884.7	784.8	676.8	631.2	620.5
65°	4036.6	2013.7	537.4	556.7	621.6	748.3	843.6	746.8	642.9	607.9	597.7
67.5°	3047.0	1508.3	505.0	522.2	580.0	697.6	799.0	709.3	609.9	587.6	575.4
70°	1794.2	944.5	467.9	486.2	536.4	644.9	751.3	668.2	568.8	558.7	543.0
72.5°	835.0	568.3	425.9	443.6	481.6	574.4	690.0	614.5	520.2	497.9	476.6
75°	498.4	415.7	376.2	391.9	418.8	499.4	612.9	559.7	474.0	444.6	422.3
77.5°	372.6	317.9	321.4	338.2	360.0	437.0	543.0	516.6	438.5	415.7	400.5
80°	268.2	241.3	262.1	280.4	303.2	397.5	520.2	477.6	396.5	366.0	351.8
82.5°	179.0	173.4	197.2	216.0	238.3	347.8	488.7	418.3	338.7	300.1	268.7
85°	98.9	104.4	132.8	140.9	160.2	244.9	400.5	336.1	255.0	205.3	196.2
87.5°	41.1	48.2	71.5	68.9	85.2	146.0	263.6	202.8	162.2	121.2	94.3
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)