

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: P318877

Luminaire Tested: **GAN-SA3B-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318877
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-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 13947 lumens
Efficiency: N/A
Efficacy: 112.5 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

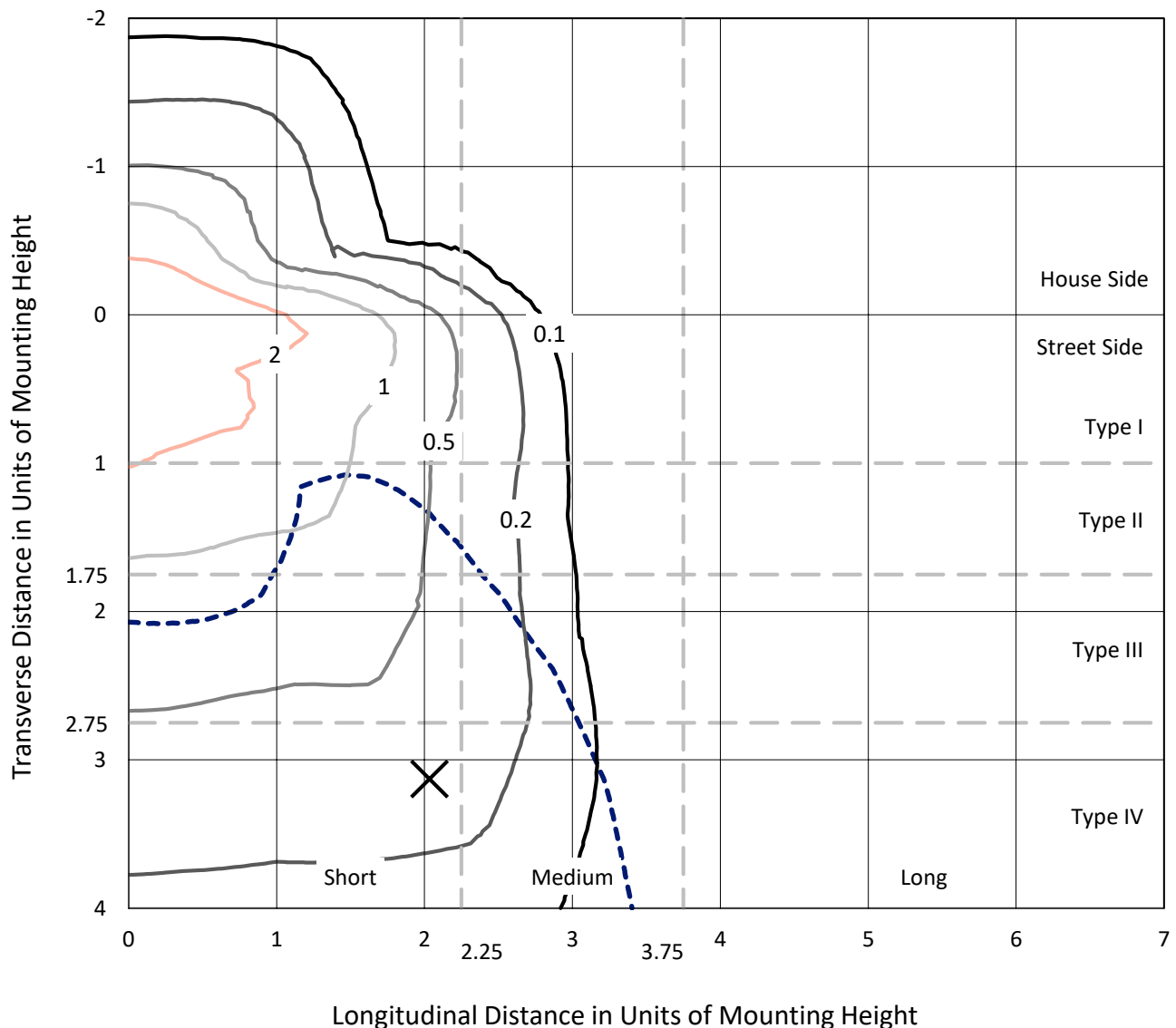


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Iso-Footcandle Lines of Horizontal Illumination

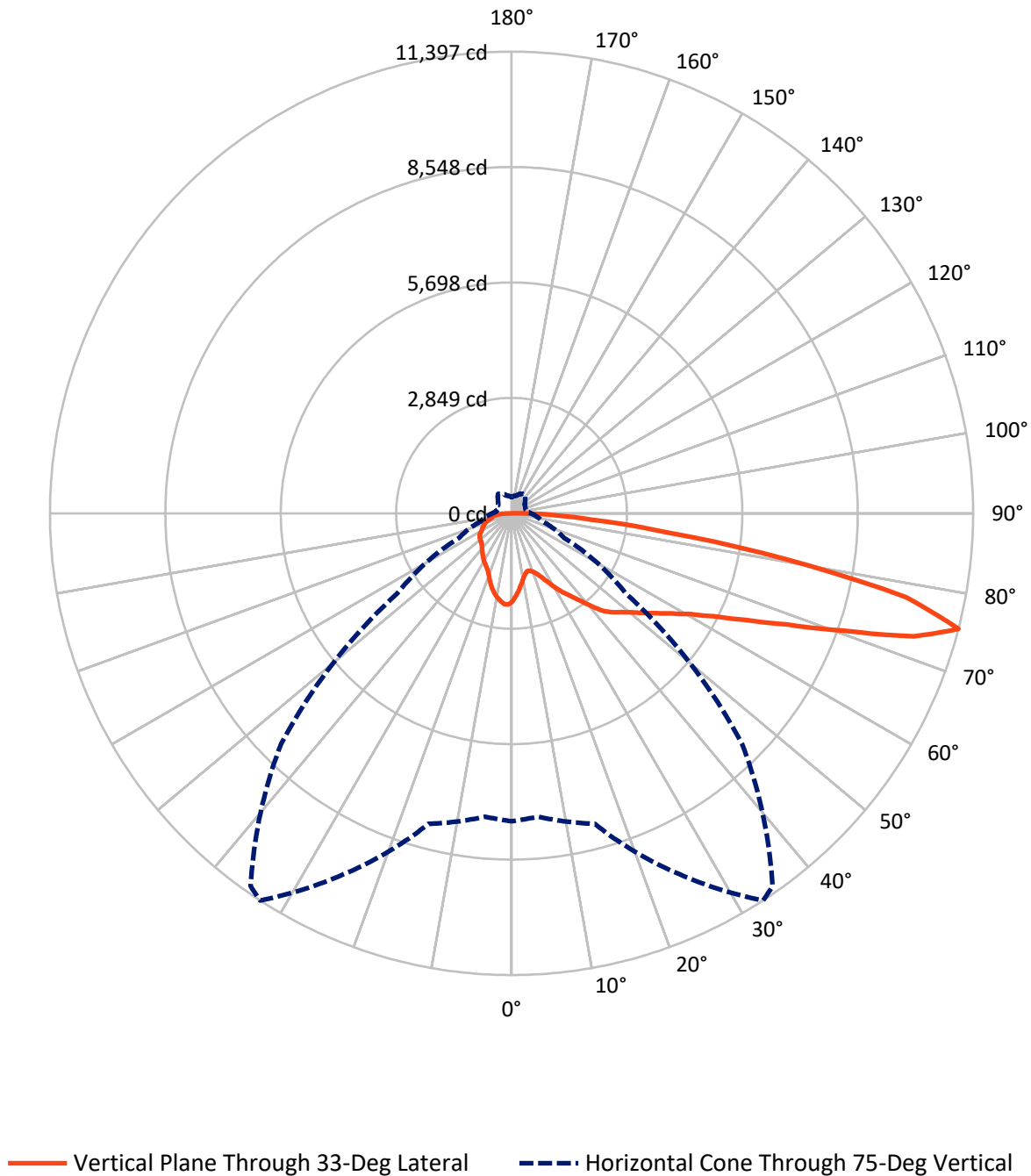
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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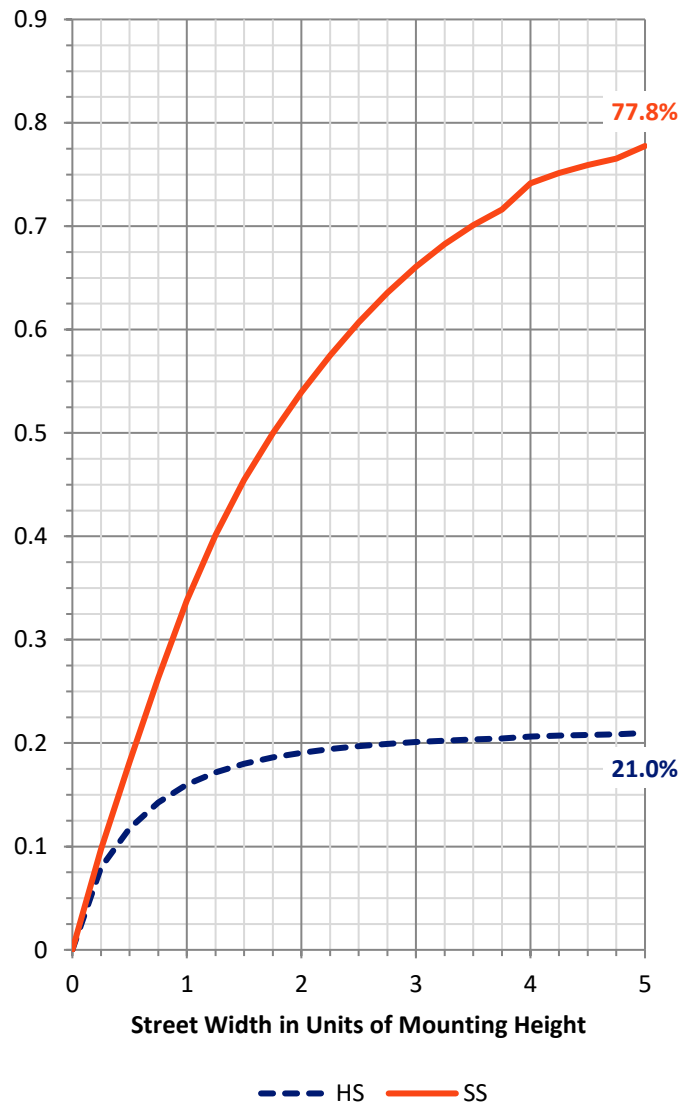
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2994.8	0.0	2994.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10952.2	0.0	10952.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	13947.0	0.0	13947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	1.4
10°-20°	534.0	3.8
20°-30°	872.1	6.3
30°-40°	1298.7	9.3
40°-50°	1862.7	13.4
50°-60°	2557.2	18.3
60°-70°	3201.5	23.0
70°-80°	2896.2	20.8
80°-90°	527.6	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°	13947.0	100.0
0°-180°	13947.0	100.0

Coefficient of Utilization



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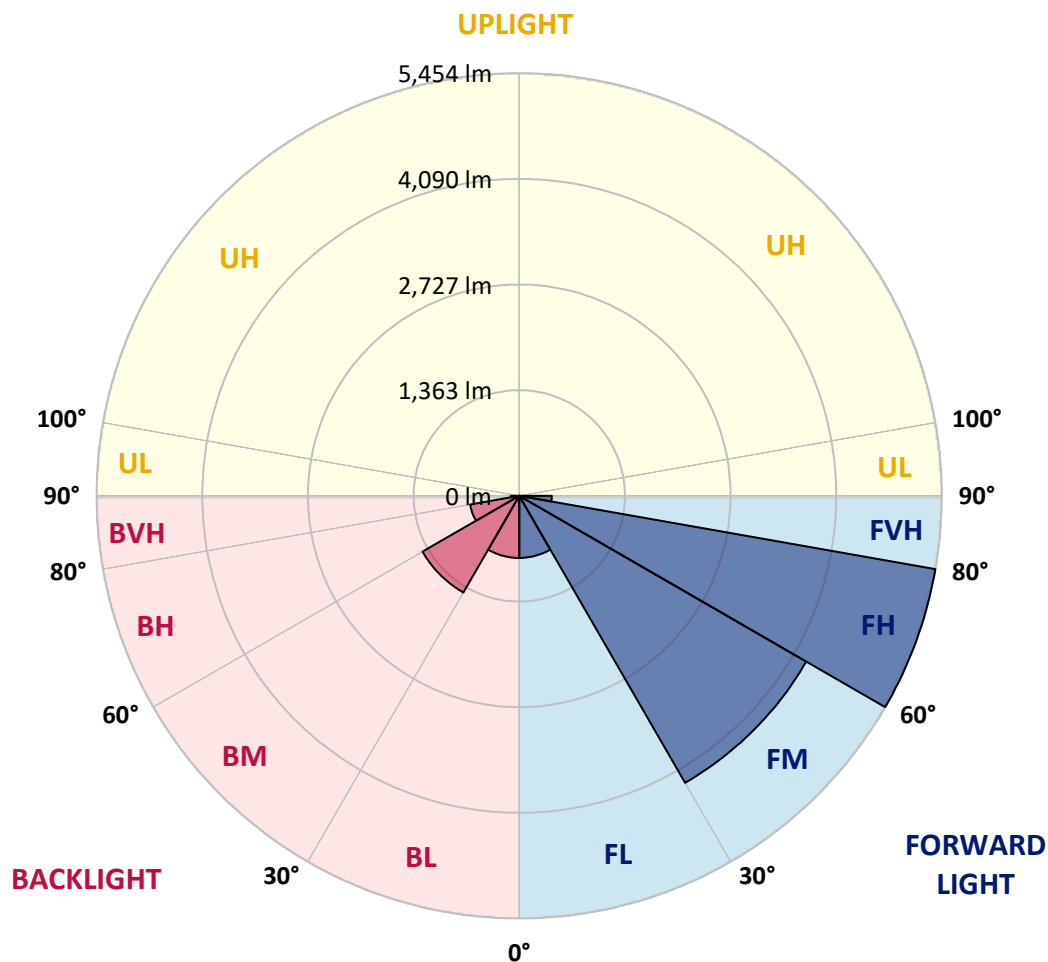
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.0	5.7			
FM	(30°-60°)	4277.3	30.7			
FH	(60°-80°)	5453.8	39.1			G3/7500
FVH	(80°-90°)	420.2	3.0			G3/500
BL	(0°-30°)	802.1	5.8	B2/1000		
BM	(30°-60°)	1441.3	10.3	B2/2500		
BH	(60°-80°)	643.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	107.4	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°	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0
2.5°	2024.4	2016.7	2031.1	2033.1	2045.6	2050.4	2067.7	2094.7	2116.9	2142.4	2165.5
5°	1840.8	1835.5	1855.8	1870.2	1897.7	1909.2	1950.2	2007.5	2058.6	2116.4	2168.9
7.5°	1666.4	1663.5	1686.2	1718.9	1750.7	1766.6	1837.5	1920.8	2006.1	2099.5	2180.0
10°	1519.5	1518.5	1540.2	1572.5	1619.2	1637.0	1728.6	1838.4	1957.9	2086.5	2198.8
12.5°	1437.1	1440.5	1450.6	1477.6	1520.9	1538.8	1640.4	1769.5	1917.4	2082.2	2226.2
15°	1457.3	1462.6	1445.3	1444.3	1475.2	1489.1	1584.5	1720.4	1888.5	2089.4	2266.2
17.5°	1543.6	1544.5	1498.8	1469.9	1488.7	1495.9	1567.2	1692.4	1871.7	2105.8	2316.3
20°	1665.0	1662.6	1581.6	1533.5	1543.6	1545.5	1591.8	1692.9	1870.2	2134.2	2381.4
22.5°	1825.9	1808.1	1699.2	1633.7	1631.3	1628.4	1654.9	1728.6	1891.4	2180.5	2458.9
25°	2035.9	2019.1	1869.3	1779.6	1760.4	1753.1	1757.0	1804.7	1933.3	2230.1	2545.7
27.5°	2269.6	2240.2	2095.7	1969.0	1929.0	1918.9	1895.8	1912.1	1979.1	2277.8	2648.8
30°	2465.2	2449.3	2323.1	2172.8	2125.6	2111.1	2050.4	2032.6	2045.1	2342.8	2778.8
32.5°	2574.6	2564.0	2487.4	2366.0	2322.1	2301.9	2216.1	2180.5	2151.1	2445.4	2955.2
35°	2707.0	2700.3	2654.1	2565.9	2500.9	2479.7	2413.2	2376.1	2300.4	2586.6	3183.0
37.5°	2875.7	2868.4	2869.4	2798.1	2720.5	2700.8	2656.9	2617.9	2494.1	2772.1	3430.7
40°	3066.4	3052.5	3047.2	3043.8	2994.7	2983.6	2960.5	2907.5	2736.9	2993.7	3674.9
42.5°	3353.6	3304.0	3198.0	3238.0	3286.6	3280.8	3299.6	3223.5	3006.7	3255.8	3913.4
45°	3630.6	3549.2	3366.1	3374.8	3481.2	3513.5	3654.2	3600.2	3299.1	3542.9	4160.1
47.5°	3756.8	3695.2	3539.5	3540.0	3645.5	3712.5	4020.8	3982.3	3606.5	3869.1	4461.2
50°	3898.0	3836.3	3696.6	3749.1	3841.1	3912.4	4374.9	4355.2	3898.9	4226.1	4822.0
52.5°	4052.1	3947.6	3859.0	3952.9	4082.0	4164.9	4729.5	4675.5	4167.3	4585.5	5236.8
55°	4054.1	4025.6	4093.1	4162.0	4355.2	4456.8	5100.9	4958.3	4386.0	4938.6	5574.5
57.5°	4284.8	4238.6	4381.7	4413.5	4665.9	4780.6	5470.5	5204.5	4608.6	5209.3	5756.6
60°	4590.3	4550.8	4667.8	4751.7	5050.4	5203.6	5865.0	5457.5	4783.5	5413.6	5748.0
62.5°	5117.8	5073.0	5071.6	5189.1	5591.4	5769.6	6307.8	5705.6	4852.8	5454.1	5502.7
65°	5890.1	5818.8	5684.4	5740.3	6338.6	6516.4	6802.5	5885.3	4761.3	5237.3	4871.1
67.5°	6641.6	6639.2	6474.0	6588.6	7325.3	7467.9	7366.2	5903.1	4475.6	4482.4	3750.6
70°	7390.8	7400.4	7372.5	7771.4	8658.3	8806.7	7966.5	5663.6	3833.4	3237.0	2247.0
72.5°	7984.3	7981.9	8122.6	9151.2	10388.3	10355.1	8472.3	4938.1	2752.3	1747.4	1073.9
75°	7599.9	7516.0	7935.2	9834.3	11396.7	11234.3	8042.1	3444.6	1428.4	795.4	578.1
77.5°	4956.9	5036.4	5651.6	8124.0	9968.7	9771.2	5900.2	1607.2	673.0	521.8	419.1
80°	1795.1	1878.9	2646.3	4601.8	6868.1	6835.8	2905.5	660.5	455.3	394.1	305.4
82.5°	617.6	648.5	1044.0	2043.7	3877.7	4022.3	1093.1	375.3	331.0	279.4	209.1
85°	242.3	277.5	477.4	983.3	1956.0	1970.4	442.7	224.5	230.3	183.1	114.7
87.5°	92.0	111.8	228.4	456.7	893.2	820.4	158.5	107.0	131.0	108.9	54.4
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°	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0	2180.0
2.5°	2183.4	2193.5	2214.7	2229.1	2244.6	2248.9	2250.8	2254.7	2258.5	2257.1	2257.6
5°	2196.9	2216.6	2250.8	2265.3	2272.0	2264.3	2249.4	2237.3	2228.7	2223.8	2222.4
7.5°	2219.0	2247.0	2283.6	2281.2	2265.7	2231.5	2193.0	2164.1	2140.0	2131.3	2126.5
10°	2248.4	2281.2	2306.7	2279.2	2234.4	2175.2	2117.4	2072.6	2036.4	2022.5	2020.0
12.5°	2286.0	2319.2	2324.0	2265.7	2191.6	2110.6	2032.1	1972.8	1918.9	1901.5	1897.7
15°	2334.6	2366.0	2336.1	2242.1	2138.6	2029.7	1928.0	1847.6	1790.7	1769.5	1761.8
17.5°	2385.7	2415.6	2338.5	2203.1	2069.2	1933.8	1806.1	1723.8	1658.7	1634.2	1631.3
20°	2446.9	2460.4	2328.4	2147.2	1973.8	1809.5	1675.1	1597.5	1562.9	1545.5	1543.6
22.5°	2522.5	2508.1	2305.3	2071.6	1852.9	1665.9	1556.6	1520.5	1511.8	1507.9	1509.4
25°	2602.5	2558.2	2271.0	1972.8	1700.2	1522.4	1469.9	1480.0	1491.5	1490.1	1490.1
27.5°	2690.7	2609.2	2218.5	1841.8	1531.1	1404.8	1411.1	1448.2	1465.5	1465.1	1464.6
30°	2803.9	2667.1	2151.6	1684.3	1373.0	1322.0	1360.0	1405.3	1428.9	1428.0	1428.4
32.5°	2943.1	2730.7	2060.5	1508.4	1258.9	1260.8	1304.6	1349.4	1376.9	1374.5	1375.0
35°	3105.9	2802.0	1937.2	1335.0	1183.2	1212.1	1246.8	1278.1	1304.1	1300.8	1297.4
37.5°	3283.2	2871.8	1773.4	1179.8	1121.6	1166.8	1195.7	1201.0	1213.1	1204.4	1198.2
40°	3451.9	2925.3	1562.4	1052.7	1059.4	1128.3	1147.1	1125.9	1104.2	1101.3	1092.6
42.5°	3598.8	2943.1	1348.9	951.0	993.9	1087.8	1099.4	1055.1	1016.0	997.7	990.0
45°	3753.9	2949.4	1150.0	865.7	930.8	1051.7	1064.2	1005.0	950.0	910.5	897.5
47.5°	3956.7	2994.7	995.3	802.6	882.6	1027.6	1045.4	965.0	893.7	837.3	825.3
50°	4222.2	3084.3	869.6	754.4	851.3	1011.7	1031.9	926.0	847.4	779.5	767.5
52.5°	4517.0	3166.7	767.9	715.4	820.9	983.8	1014.6	898.0	804.1	726.0	713.0
55°	4723.2	3103.5	686.0	675.0	781.4	943.8	990.5	874.4	741.9	674.0	662.4
57.5°	4762.7	2887.7	623.9	633.0	733.7	893.7	953.4	821.9	708.2	651.3	639.3
60°	4654.8	2587.1	577.6	594.5	682.7	830.6	884.0	784.8	675.9	627.3	617.1
62.5°	4383.6	2279.2	543.4	559.8	635.0	766.5	840.7	745.8	643.2	599.8	589.7
65°	3835.8	1913.6	510.7	529.0	590.6	711.1	801.7	709.6	610.9	577.6	568.0
67.5°	2895.4	1433.3	479.8	496.2	551.1	662.9	759.3	674.0	579.6	558.4	546.8
70°	1705.0	897.5	444.7	462.0	509.7	612.8	714.0	635.0	540.5	530.9	516.0
72.5°	793.5	540.1	404.7	421.5	457.7	545.8	655.7	583.9	494.3	473.1	452.9
75°	473.6	395.0	357.5	372.4	397.9	474.5	582.5	531.9	450.5	422.5	401.3
77.5°	354.1	302.1	305.4	321.3	342.1	415.3	516.0	490.9	416.7	395.0	380.6
80°	254.9	229.3	249.1	266.4	288.1	377.7	494.3	453.8	376.7	347.8	334.3
82.5°	170.1	164.8	187.4	205.2	226.4	330.5	464.4	397.5	321.8	285.2	255.3
85°	93.9	99.2	126.2	133.9	152.2	232.7	380.6	319.4	242.3	195.1	186.4
87.5°	39.0	45.8	67.9	65.5	80.9	138.7	250.5	192.7	154.2	115.1	89.6
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)