

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: P1210411

Luminaire Tested: **ARCH3-110-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17304 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 111.9
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

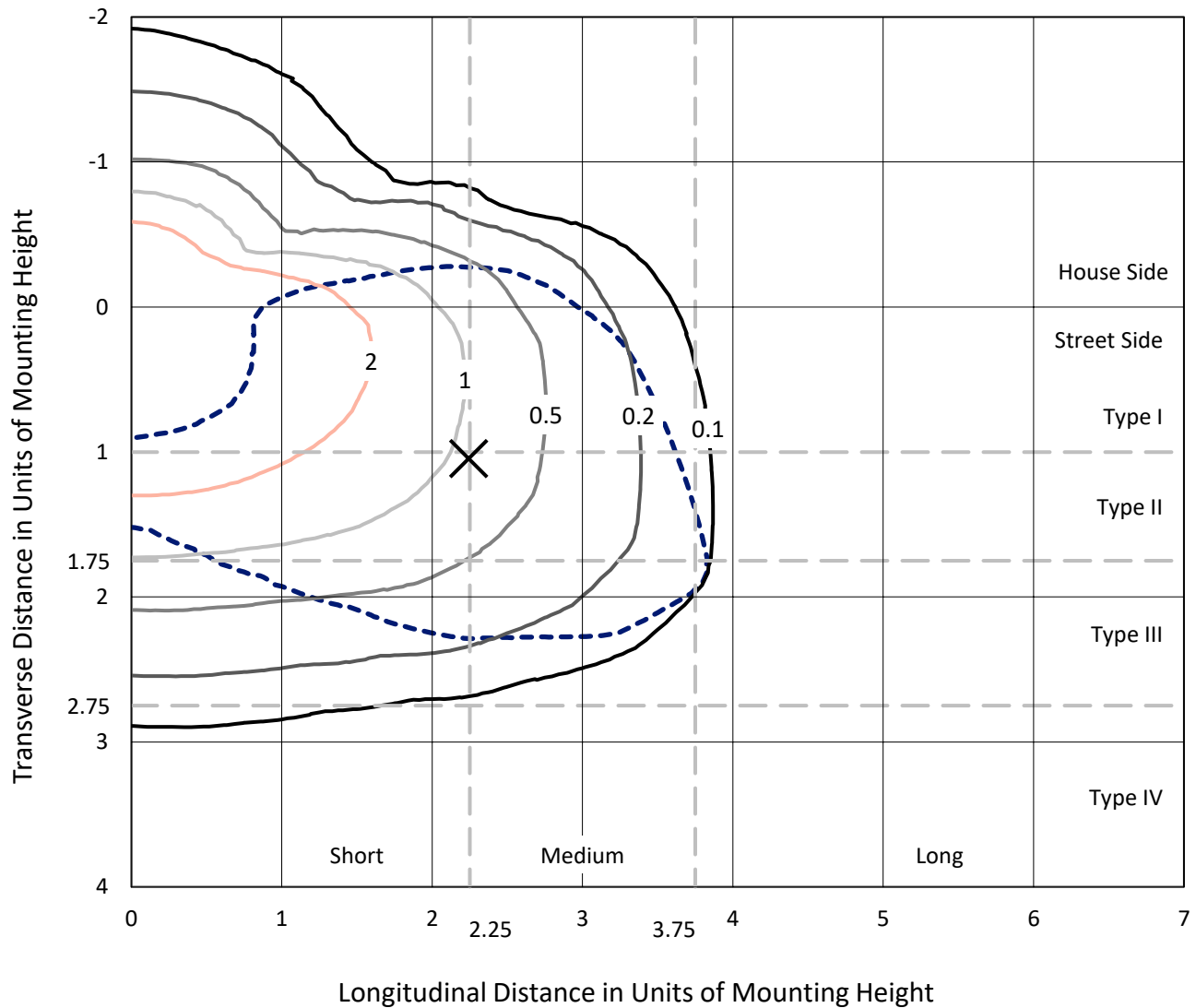


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

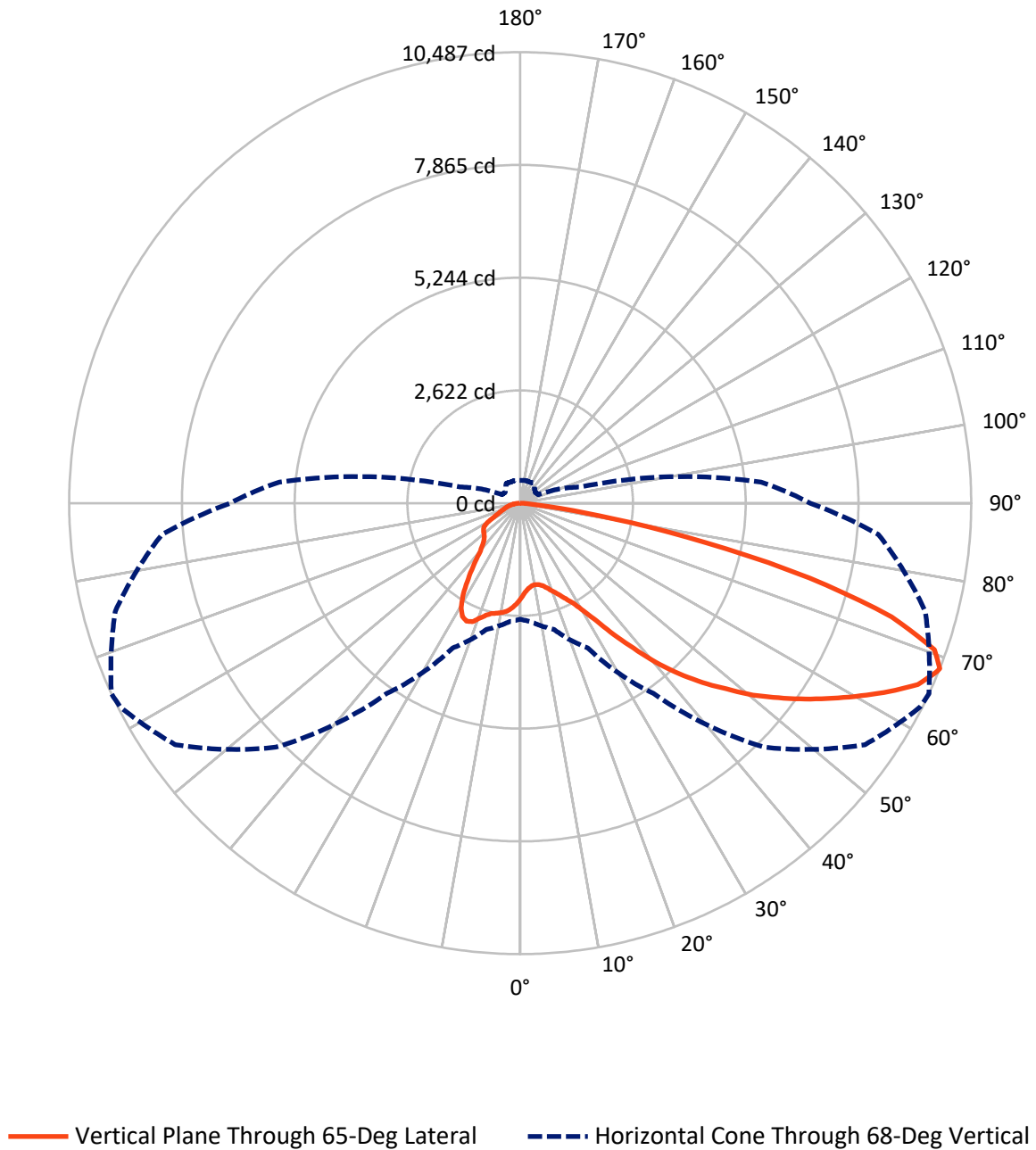


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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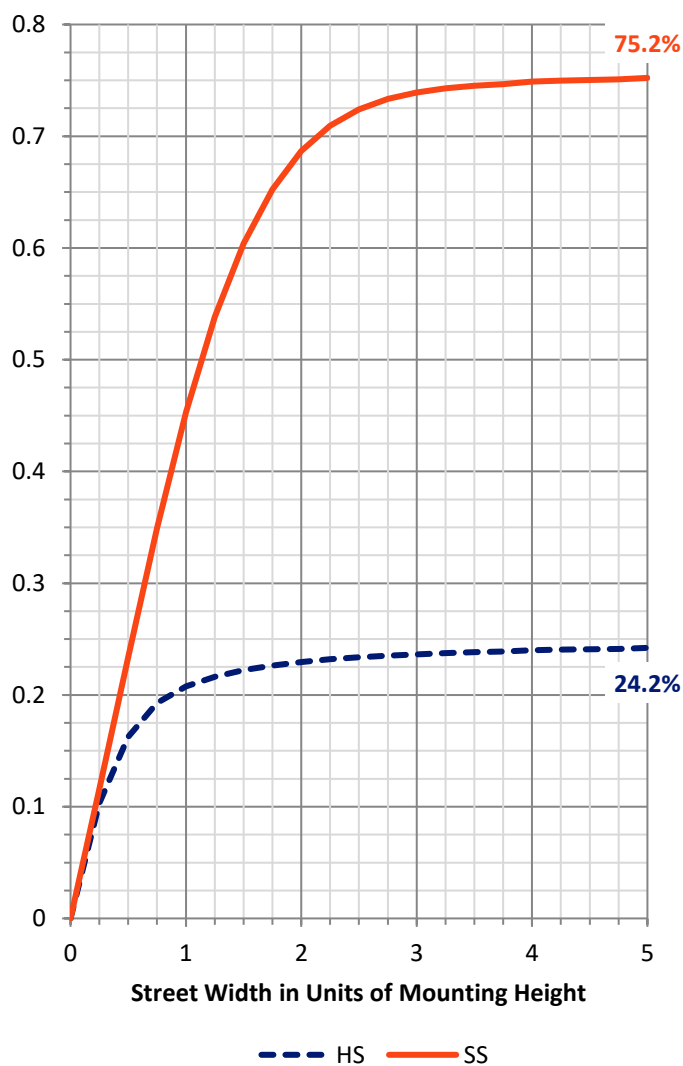
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4242.4	0.0	4242.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	13061.6	0.0	13061.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	17304.0	0.0	17304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	1.2
10°-20°	688.1	4.0
20°-30°	1245.4	7.2
30°-40°	1959.1	11.3
40°-50°	2917.9	16.9
50°-60°	3827.7	22.1
60°-70°	4185.8	24.2
70°-80°	2071.2	12.0
80°-90°	197.6	1.1
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°	17304.0	100.0
0°-180°	17304.0	100.0

Coefficient of Utilization



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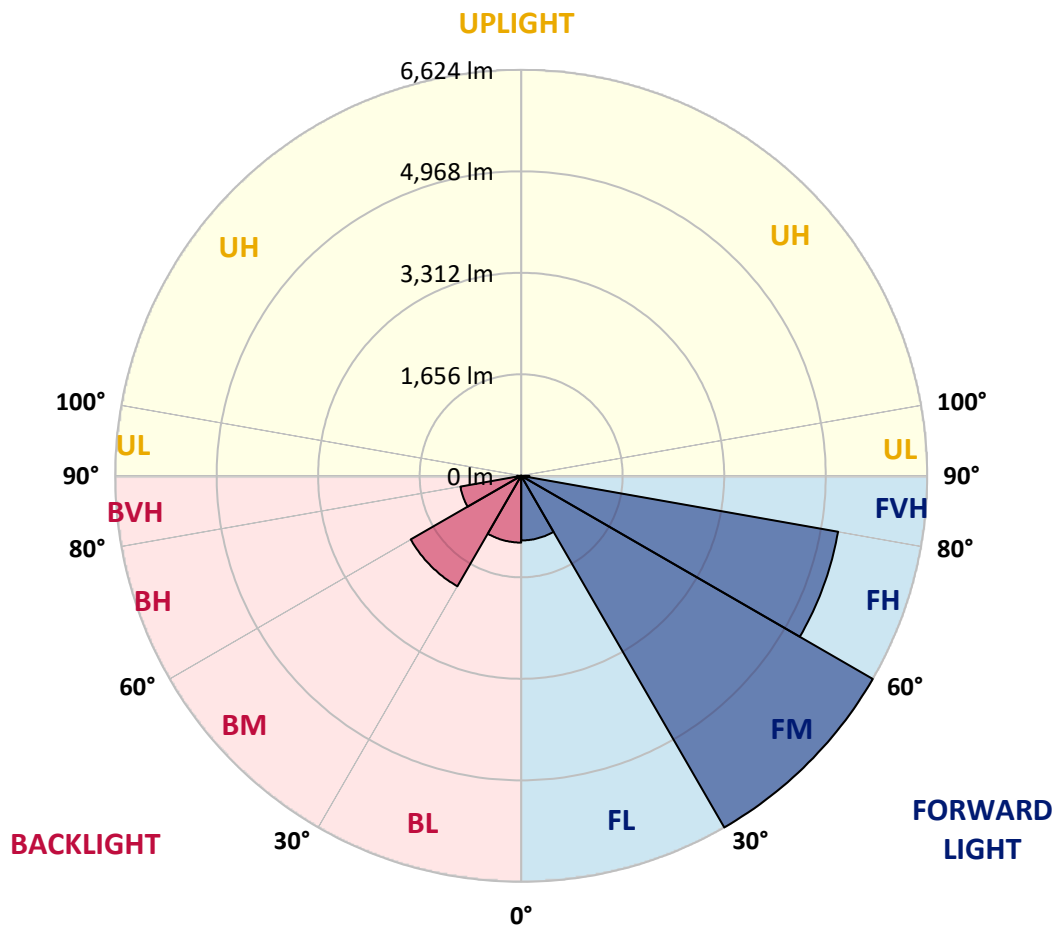
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1054.9	6.1			
FM	(30°-60°)	6623.7	38.3			
FH	(60°-80°)	5250.1	30.3			G3/7500
FVH	(80°-90°)	132.9	0.8			G2/225
BL	(0°-30°)	1089.9	6.3	B3/2500		
BM	(30°-60°)	2080.9	12.0	B2/2500		
BH	(60°-80°)	1006.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	64.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2
2.5°	1930.1	1925.6	1936.8	1947.9	1972.5	2001.5	2041.7	2075.1	2079.6	2142.1	2191.2
5°	1816.3	1809.6	1820.8	1834.1	1845.3	1881.0	1923.4	1972.5	1992.6	2084.1	2188.9
7.5°	1827.5	1825.2	1829.7	1825.2	1825.2	1840.8	1869.8	1918.9	1941.3	2050.6	2200.1
10°	1892.2	1896.6	1898.9	1885.5	1872.1	1865.4	1874.3	1907.8	1923.4	2052.8	2249.2
12.5°	1999.3	2006.0	2008.2	1983.6	1965.8	1936.8	1921.2	1934.6	1945.7	2075.1	2318.3
15°	2144.3	2148.8	2133.1	2117.5	2072.9	2037.2	1999.3	1988.1	1992.6	2122.0	2396.4
17.5°	2313.9	2307.2	2307.2	2269.3	2211.2	2155.5	2093.0	2084.1	2084.1	2197.9	2508.0
20°	2499.1	2505.8	2485.7	2434.4	2376.4	2289.3	2226.9	2186.7	2191.2	2284.9	2644.1
22.5°	2766.8	2778.0	2724.4	2650.8	2561.6	2461.1	2371.9	2307.2	2309.4	2398.7	2784.7
25°	3054.7	3059.1	3025.7	2927.5	2807.0	2664.2	2545.9	2463.4	2461.1	2525.9	2965.4
27.5°	3349.2	3369.3	3302.4	3208.6	3097.1	2918.6	2762.4	2650.8	2633.0	2720.0	3190.8
30°	3652.7	3677.2	3612.5	3521.0	3382.7	3231.0	3045.8	2916.3	2905.2	3021.2	3492.0
32.5°	3958.4	3965.1	3913.7	3837.9	3712.9	3570.1	3420.6	3277.8	3266.7	3456.3	3882.5
35°	4208.3	4228.4	4192.7	4174.8	4083.3	3951.7	3806.6	3724.1	3753.1	3996.3	4389.0
37.5°	4509.5	4529.6	4489.4	4485.0	4456.0	4342.2	4241.7	4248.4	4277.4	4607.7	4922.3
40°	4944.6	4966.9	4864.3	4819.7	4819.7	4708.1	4674.6	4833.0	4871.0	5210.1	5477.9
42.5°	5312.8	5348.5	5288.2	5259.2	5172.2	5094.1	5134.3	5357.4	5422.1	5785.8	5962.1
45°	5491.3	5518.1	5589.5	5674.3	5589.5	5453.4	5605.1	5857.2	5948.7	6316.9	6446.3
47.5°	5587.2	5611.8	5694.3	5921.9	5979.9	5866.1	6080.4	6395.0	6457.4	6843.5	6908.2
50°	5600.6	5678.7	5785.8	6013.4	6278.9	6294.6	6557.9	6941.6	7015.3	7361.1	7314.3
52.5°	5491.3	5522.5	5743.4	6127.2	6421.7	6689.5	7077.8	7466.0	7519.6	7847.6	7673.5
55°	5312.8	5357.4	5578.3	6100.4	6560.1	7064.4	7606.6	7981.4	8041.7	8320.6	8006.0
57.5°	5152.1	5174.4	5411.0	6022.3	6698.4	7439.2	8077.4	8519.2	8559.4	8735.6	8251.4
60°	4973.6	4998.2	5234.7	5855.0	6801.1	7722.6	8568.3	9061.4	9097.1	9173.0	8537.0
62.5°	4511.7	4576.4	4873.2	5578.3	6774.3	8046.1	9092.6	9596.9	9641.5	9559.0	8762.4
65°	3663.8	3755.3	4119.0	4951.3	6524.4	8255.9	9521.1	10090.0	10165.9	9849.1	8822.6
67.5°	2844.9	2909.6	3201.9	3929.4	5647.5	8151.0	9797.7	10429.2	10451.5	9802.2	8488.0
68°	2697.7	2762.4	3041.3	3715.2	5404.3	8026.1	9791.0	10438.1	10487.2	9750.9	8358.5
70°	2064.0	2137.6	2403.1	2943.1	4355.5	7231.7	9382.7	10223.9	10217.2	9130.6	7555.3
72.5°	1289.7	1332.1	1515.1	1856.5	2880.6	5502.4	7963.6	9016.8	9034.6	7443.7	5794.7
75°	818.9	818.9	810.0	899.2	1477.1	3135.0	5919.7	6941.6	6955.0	5212.4	3652.7
77.5°	711.8	691.7	595.8	504.3	589.1	1218.3	3503.2	4482.7	4409.1	2807.0	1733.7
80°	600.2	566.8	488.7	406.1	379.3	381.6	1345.5	2275.9	2177.8	1010.8	575.7
82.5°	432.9	403.9	368.2	319.1	292.3	227.6	281.1	658.2	642.6	292.3	187.4
85°	234.3	212.0	207.5	209.7	176.3	140.6	118.3	145.0	145.0	127.2	107.1
87.5°	82.6	60.2	71.4	80.3	69.2	58.0	46.9	55.8	58.0	55.8	51.3
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°	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2
2.5°	2220.2	2242.5	2296.0	2342.9	2376.4	2405.4	2421.0	2427.7	2443.3	2445.5	2441.1
5°	2238.0	2296.0	2376.4	2445.5	2483.5	2499.1	2503.5	2505.8	2499.1	2503.5	2499.1
7.5°	2284.9	2358.5	2472.3	2532.6	2539.2	2514.7	2516.9	2508.0	2516.9	2525.9	2525.9
10°	2356.3	2450.0	2557.1	2579.4	2550.4	2537.0	2563.8	2617.3	2635.2	2659.7	2659.7
12.5°	2450.0	2561.6	2637.4	2617.3	2590.6	2635.2	2713.3	2766.8	2784.7	2793.6	2786.9
15°	2557.1	2677.6	2715.5	2648.6	2697.7	2793.6	2820.4	2789.2	2744.5	2724.4	2735.6
17.5°	2693.2	2793.6	2771.3	2726.7	2838.2	2851.6	2764.6	2664.2	2592.8	2566.0	2583.9
20°	2836.0	2923.0	2820.4	2840.5	2909.6	2766.8	2601.7	2472.3	2409.8	2398.7	2416.5
22.5°	2987.7	3043.5	2869.5	2972.1	2869.5	2579.4	2380.8	2313.9	2298.3	2316.1	2331.7
25°	3159.6	3152.9	2954.3	3012.3	2720.0	2349.6	2231.3	2226.9	2226.9	2238.0	2260.3
27.5°	3353.7	3248.8	3039.1	2958.7	2461.1	2159.9	2137.6	2139.8	2133.1	2135.4	2146.5
30°	3579.0	3378.2	3132.8	2782.5	2171.1	2017.1	2008.2	2001.5	1985.9	1981.4	1985.9
32.5°	3862.4	3514.3	3228.7	2492.4	1916.7	1869.8	1865.4	1829.7	1791.8	1787.3	1802.9
35°	4221.7	3762.0	3277.8	2128.7	1707.0	1704.7	1689.1	1633.3	1584.2	1584.2	1573.1
37.5°	4632.2	4081.1	3297.9	1773.9	1532.9	1544.1	1499.4	1428.0	1390.1	1367.8	1374.5
40°	5051.7	4444.8	3295.7	1463.7	1381.2	1383.4	1350.0	1262.9	1169.2	1113.4	1126.8
42.5°	5455.6	4775.0	3237.6	1298.6	1258.5	1251.8	1225.0	1106.7	1028.6	984.0	986.2
45°	5779.1	5116.4	3148.4	1200.5	1146.9	1158.1	1097.8	1026.4	955.0	914.8	912.6
47.5°	6102.7	5375.3	3005.6	1140.2	1064.3	1044.3	1019.7	970.6	917.1	872.4	874.7
50°	6397.2	5596.2	2871.7	1100.0	988.5	937.2	941.6	912.6	865.8	825.6	823.4
52.5°	6604.7	5741.2	2798.1	1077.7	897.0	841.2	856.8	841.2	796.6	767.6	765.3
55°	6812.2	5852.8	2822.6	1048.7	796.6	752.0	778.7	774.3	749.7	740.8	743.0
57.5°	6979.6	5937.5	2909.6	995.2	700.6	673.9	718.5	705.1	687.2	689.5	689.5
60°	7142.5	6046.9	3012.3	872.4	618.1	620.3	662.7	638.2	627.0	647.1	649.3
62.5°	7312.0	6165.1	2927.5	693.9	546.7	562.3	611.4	591.3	595.8	624.8	633.7
65°	7292.0	6154.0	2385.3	569.0	484.2	515.4	589.1	582.4	584.6	595.8	600.2
67.5°	6881.4	5761.3	1640.0	484.2	439.6	477.5	571.2	544.4	546.7	540.0	542.2
68°	6743.1	5622.9	1445.9	470.8	430.6	468.6	562.3	537.7	540.0	533.3	531.1
70°	5988.9	4815.2	914.8	415.0	399.4	444.0	517.7	508.7	506.5	502.0	502.0
72.5°	4565.3	3554.5	482.0	359.2	363.7	406.1	461.9	479.7	468.6	470.8	484.2
75°	3023.4	2137.6	334.7	307.9	319.1	348.1	410.6	446.3	435.1	441.8	435.1
77.5°	1599.9	1151.4	267.8	261.1	261.1	281.1	339.2	394.9	394.9	390.5	383.8
80°	524.4	406.1	214.2	205.3	209.7	220.9	272.2	323.5	330.2	321.3	316.8
82.5°	176.3	187.4	160.7	149.5	154.0	162.9	205.3	247.7	249.9	232.1	227.6
85°	109.3	125.0	100.4	98.2	98.2	100.4	125.0	136.1	125.0	111.6	116.0
87.5°	51.3	62.5	46.9	40.2	33.5	29.0	22.3	8.9	8.9	4.5	4.5
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)