

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: P1210907

Luminaire Tested: **ARCH4-110-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210907
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: ARCH4-110-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17811 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

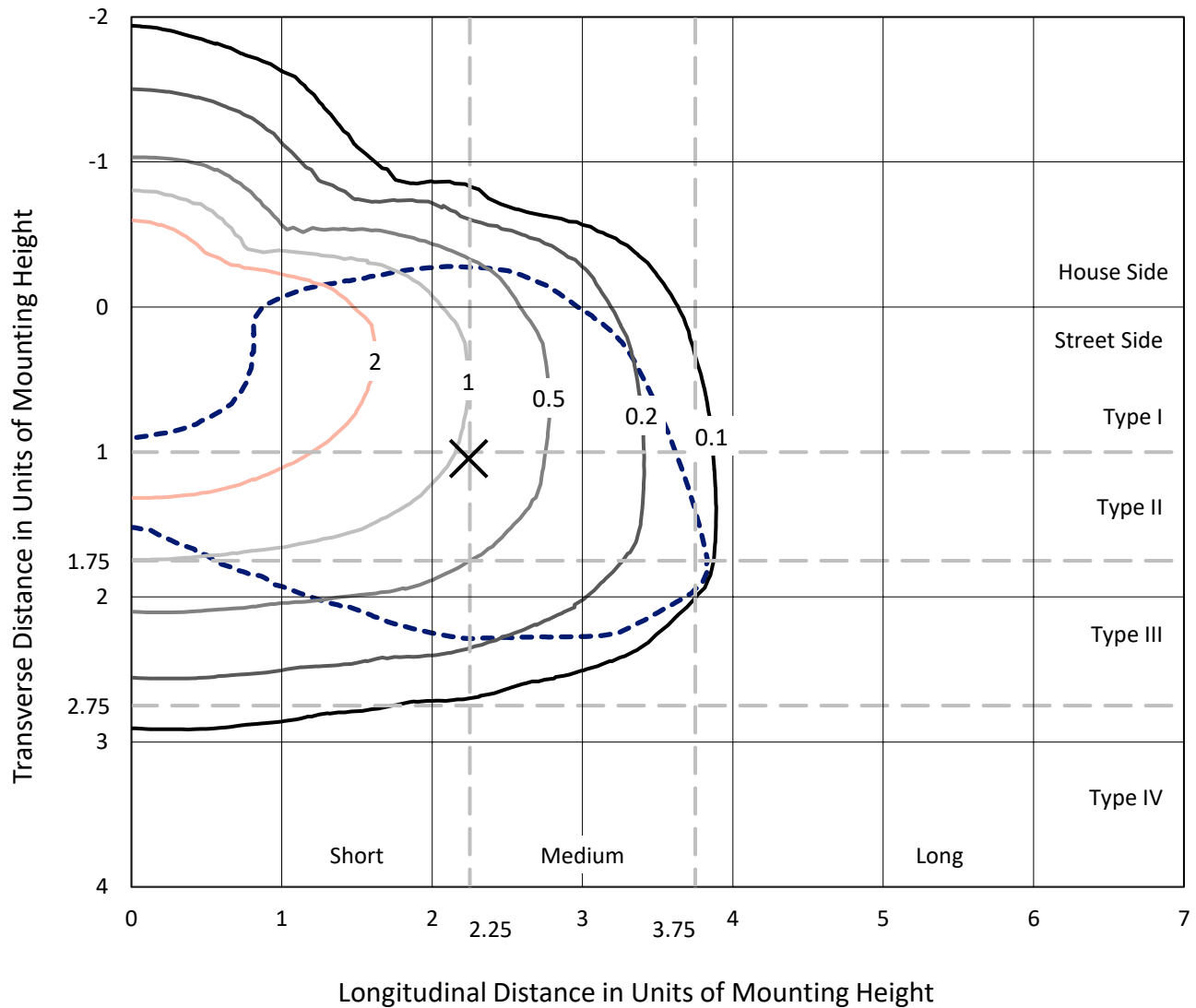
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

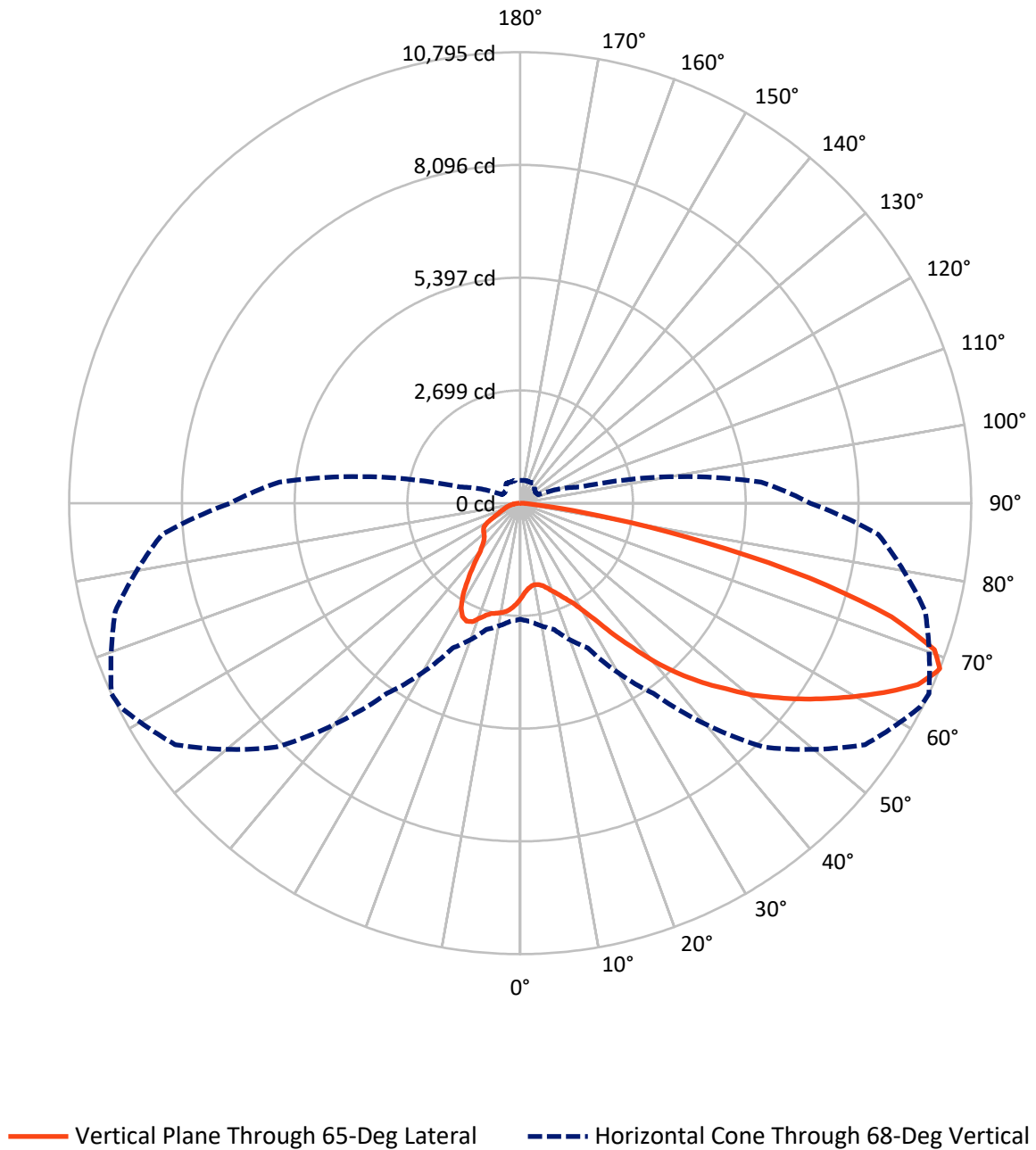


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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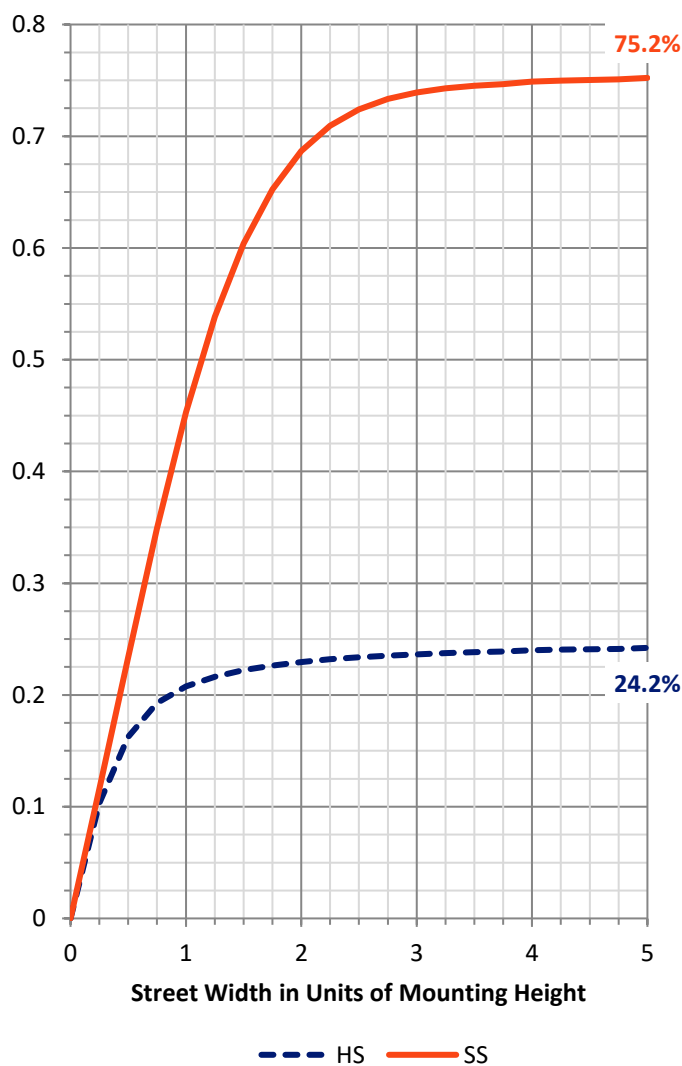
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4366.7	0.0	4366.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	13444.3	0.0	13444.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	17811.0	0.0	17811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	1.2
10°-20°	708.2	4.0
20°-30°	1281.9	7.2
30°-40°	2016.5	11.3
40°-50°	3003.4	16.9
50°-60°	3939.8	22.1
60°-70°	4308.4	24.2
70°-80°	2131.9	12.0
80°-90°	203.4	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°	17811.0	100.0
0°-180°	17811.0	100.0

Coefficient of Utilization



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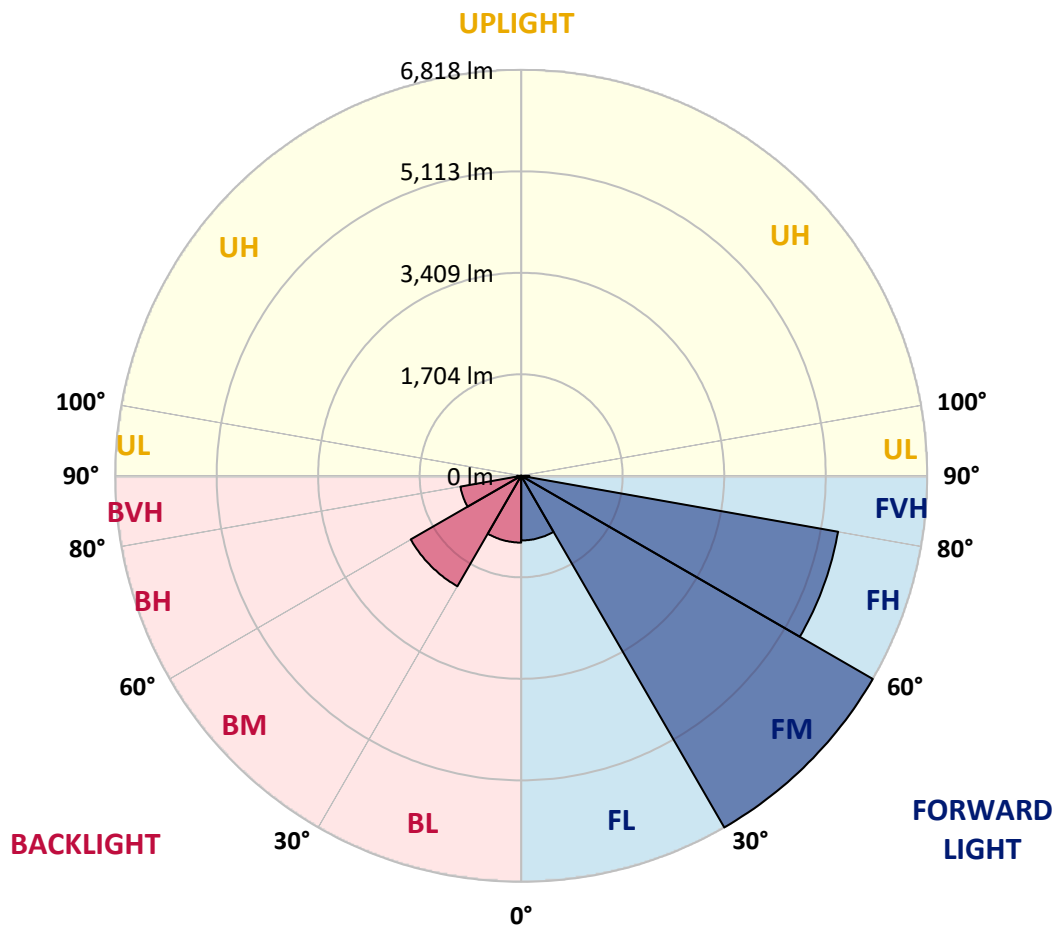
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1085.8	6.1			
FM	(30°-60°)	6817.8	38.3			
FH	(60°-80°)	5403.9	30.3			G3/7500
FVH	(80°-90°)	136.8	0.8			G2/225
BL	(0°-30°)	1121.8	6.3	B3/2500		
BM	(30°-60°)	2141.9	12.0	B2/2500		
BH	(60°-80°)	1036.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	66.6	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°	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0
2.5°	1986.6	1982.1	1993.5	2005.0	2030.3	2060.1	2101.5	2135.9	2140.5	2204.8	2255.4
5°	1869.5	1862.6	1874.1	1887.9	1899.4	1936.1	1979.8	2030.3	2051.0	2145.1	2253.1
7.5°	1881.0	1878.7	1883.3	1878.7	1878.7	1894.8	1924.6	1975.2	1998.1	2110.7	2264.5
10°	1947.6	1952.2	1954.5	1940.7	1926.9	1920.0	1929.2	1963.7	1979.8	2113.0	2315.1
12.5°	2057.8	2064.7	2067.0	2041.8	2023.4	1993.5	1977.5	1991.2	2002.7	2135.9	2386.3
15°	2207.1	2211.7	2195.6	2179.6	2133.6	2096.9	2057.8	2046.4	2051.0	2184.2	2466.7
17.5°	2381.7	2374.8	2374.8	2335.7	2276.0	2218.6	2154.3	2145.1	2145.1	2262.2	2581.5
20°	2572.3	2579.2	2558.5	2505.7	2446.0	2356.4	2292.1	2250.8	2255.4	2351.8	2721.6
22.5°	2847.9	2859.4	2804.3	2728.5	2636.6	2533.3	2441.4	2374.8	2377.1	2469.0	2866.3
25°	3144.2	3148.8	3114.3	3013.3	2889.2	2742.3	2620.5	2535.6	2533.3	2599.9	3052.3
27.5°	3447.3	3468.0	3399.1	3302.7	3187.8	3004.1	2843.3	2728.5	2710.1	2799.7	3284.3
30°	3759.7	3785.0	3718.4	3624.2	3481.8	3325.6	3135.0	3001.8	2990.3	3109.7	3594.3
32.5°	4074.3	4081.2	4028.4	3950.3	3821.7	3674.7	3520.8	3373.9	3362.4	3557.6	3996.3
35°	4331.6	4352.2	4315.5	4297.1	4203.0	4067.5	3918.2	3833.2	3863.0	4113.4	4517.6
37.5°	4641.6	4662.3	4621.0	4616.4	4586.5	4469.4	4366.0	4372.9	4402.8	4742.7	5066.5
40°	5089.5	5112.5	5006.8	4960.9	4960.9	4846.0	4811.6	4974.7	5013.7	5362.8	5638.4
42.5°	5468.4	5505.2	5443.2	5413.3	5323.7	5243.4	5284.7	5514.4	5581.0	5955.3	6136.8
45°	5652.2	5679.7	5753.2	5840.5	5753.2	5613.1	5769.3	6028.8	6123.0	6502.0	6635.2
47.5°	5750.9	5776.2	5861.2	6095.4	6155.2	6038.0	6258.5	6582.3	6646.6	7044.0	7110.6
50°	5764.7	5845.1	5955.3	6189.6	6462.9	6479.0	6750.0	7145.0	7220.8	7576.8	7528.6
52.5°	5652.2	5684.3	5911.7	6306.7	6609.9	6885.5	7285.1	7684.8	7739.9	8077.5	7898.3
55°	5468.4	5514.4	5741.7	6279.2	6752.3	7271.4	7829.4	8215.3	8277.3	8564.4	8240.6
57.5°	5303.1	5326.0	5569.5	6198.8	6894.7	7657.2	8314.1	8768.8	8810.1	8991.6	8493.2
60°	5119.3	5144.6	5388.1	6026.5	7000.3	7948.9	8819.3	9326.9	9363.6	9441.7	8787.2
62.5°	4643.9	4710.5	5016.0	5741.7	6972.8	8281.9	9359.1	9878.1	9924.0	9839.1	9019.1
65°	3771.2	3865.3	4239.7	5096.4	6715.5	8497.8	9800.0	10385.7	10463.8	10137.6	9081.1
67.5°	2928.3	2994.9	3295.8	4044.5	5812.9	8389.8	10084.8	10734.8	10757.7	10089.4	8736.6
68°	2776.7	2843.3	3130.4	3824.0	5562.6	8261.2	10077.9	10744.0	10794.5	10036.6	8603.4
70°	2124.4	2200.2	2473.5	3029.3	4483.2	7443.6	9657.6	10523.5	10516.6	9398.1	7776.6
72.5°	1327.5	1371.1	1559.5	1910.9	2965.0	5663.7	8196.9	9281.0	9299.3	7661.8	5964.5
75°	842.9	842.9	833.7	925.6	1520.4	3226.9	6093.1	7145.0	7158.8	5365.1	3759.7
77.5°	732.6	712.0	613.2	519.1	606.3	1254.0	3605.8	4614.1	4538.3	2889.2	1784.5
80°	617.8	583.4	503.0	418.0	390.4	392.7	1384.9	2342.6	2241.6	1040.4	592.5
82.5°	445.6	415.7	379.0	328.4	300.9	234.3	289.4	677.5	661.4	300.9	192.9
85°	241.2	218.2	213.6	215.9	181.4	144.7	121.7	149.3	149.3	130.9	110.2
87.5°	85.0	62.0	73.5	82.7	71.2	59.7	48.2	57.4	59.7	57.4	52.8
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°	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0	2276.0
2.5°	2285.2	2308.2	2363.3	2411.5	2446.0	2475.8	2491.9	2498.8	2514.9	2517.2	2512.6
5°	2303.6	2363.3	2446.0	2517.2	2556.2	2572.3	2576.9	2579.2	2572.3	2576.9	2572.3
7.5°	2351.8	2427.6	2544.7	2606.8	2613.6	2588.4	2590.7	2581.5	2590.7	2599.9	2599.9
10°	2425.3	2521.8	2632.0	2655.0	2625.1	2611.3	2638.9	2694.0	2712.4	2737.7	2737.7
12.5°	2521.8	2636.6	2714.7	2694.0	2666.5	2712.4	2792.8	2847.9	2866.3	2875.5	2868.6
15°	2632.0	2756.0	2795.1	2726.2	2776.7	2875.5	2903.0	2870.9	2824.9	2804.3	2815.8
17.5°	2772.1	2875.5	2852.5	2806.6	2921.4	2935.2	2845.6	2742.3	2668.8	2641.2	2659.6
20°	2919.1	3008.7	2903.0	2923.7	2994.9	2847.9	2678.0	2544.7	2480.4	2469.0	2487.3
22.5°	3075.3	3132.7	2953.6	3059.2	2953.6	2655.0	2450.6	2381.7	2365.6	2384.0	2400.1
25°	3252.1	3245.2	3040.8	3100.5	2799.7	2418.4	2296.7	2292.1	2292.1	2303.6	2326.6
27.5°	3451.9	3344.0	3128.1	3045.4	2533.3	2223.2	2200.2	2202.5	2195.6	2197.9	2209.4
30°	3683.9	3477.2	3224.6	2864.0	2234.7	2076.2	2067.0	2060.1	2044.1	2039.5	2044.1
32.5°	3975.6	3617.3	3323.3	2565.4	1972.9	1924.6	1920.0	1883.3	1844.2	1839.7	1855.7
35°	4345.4	3872.2	3373.9	2191.1	1757.0	1754.7	1738.6	1681.2	1630.7	1630.7	1619.2
37.5°	4767.9	4200.7	3394.5	1825.9	1577.8	1589.3	1543.4	1469.9	1430.8	1407.9	1414.8
40°	5199.7	4575.0	3392.2	1506.6	1421.7	1424.0	1389.5	1299.9	1203.5	1146.1	1159.8
42.5°	5615.4	4914.9	3332.5	1336.7	1295.3	1288.4	1260.9	1139.2	1058.8	1012.8	1015.1
45°	5948.5	5266.3	3240.6	1235.6	1180.5	1192.0	1130.0	1056.5	983.0	941.6	939.4
47.5°	6281.5	5532.7	3093.7	1173.6	1095.5	1074.9	1049.6	999.1	943.9	898.0	900.3
50°	6584.6	5760.1	2955.9	1132.3	1017.4	964.6	969.2	939.4	891.1	849.8	847.5
52.5°	6798.2	5909.4	2880.1	1109.3	923.3	865.9	881.9	865.9	819.9	790.1	787.8
55°	7011.8	6024.2	2905.3	1079.4	819.9	774.0	801.5	797.0	771.7	762.5	764.8
57.5°	7184.1	6111.5	2994.9	1024.3	721.2	693.6	739.5	725.8	707.4	709.7	709.7
60°	7351.7	6224.1	3100.5	898.0	636.2	638.5	682.1	656.9	645.4	666.0	668.3
62.5°	7526.3	6345.8	3013.3	714.3	562.7	578.8	629.3	608.6	613.2	643.1	652.3
65°	7505.6	6334.3	2455.2	585.7	498.4	530.5	606.3	599.4	601.7	613.2	617.8
67.5°	7083.0	5930.1	1688.1	498.4	452.4	491.5	588.0	560.4	562.7	555.8	558.1
68°	6940.6	5787.7	1488.3	484.6	443.3	482.3	578.8	553.5	555.8	548.9	546.6
70°	6164.3	4956.3	941.6	427.2	411.1	457.0	532.8	523.6	521.4	516.8	516.8
72.5°	4699.0	3658.6	496.1	369.8	374.4	418.0	475.4	493.8	482.3	484.6	498.4
75°	3112.0	2200.2	344.5	316.9	328.4	358.3	422.6	459.3	447.9	454.7	447.9
77.5°	1646.7	1185.1	275.6	268.7	268.7	289.4	349.1	406.5	406.5	401.9	395.0
80°	539.7	418.0	220.5	211.3	215.9	227.4	280.2	333.0	339.9	330.7	326.1
82.5°	181.4	192.9	165.4	153.9	158.5	167.7	211.3	254.9	257.2	238.9	234.3
85°	112.5	128.6	103.4	101.1	101.1	103.4	128.6	140.1	128.6	114.8	119.4
87.5°	52.8	64.3	48.2	41.3	34.5	29.9	23.0	9.2	9.2	4.6	4.6
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)