

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: P1211510

Luminaire Tested: **ARCH4-300-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-300-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25166 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

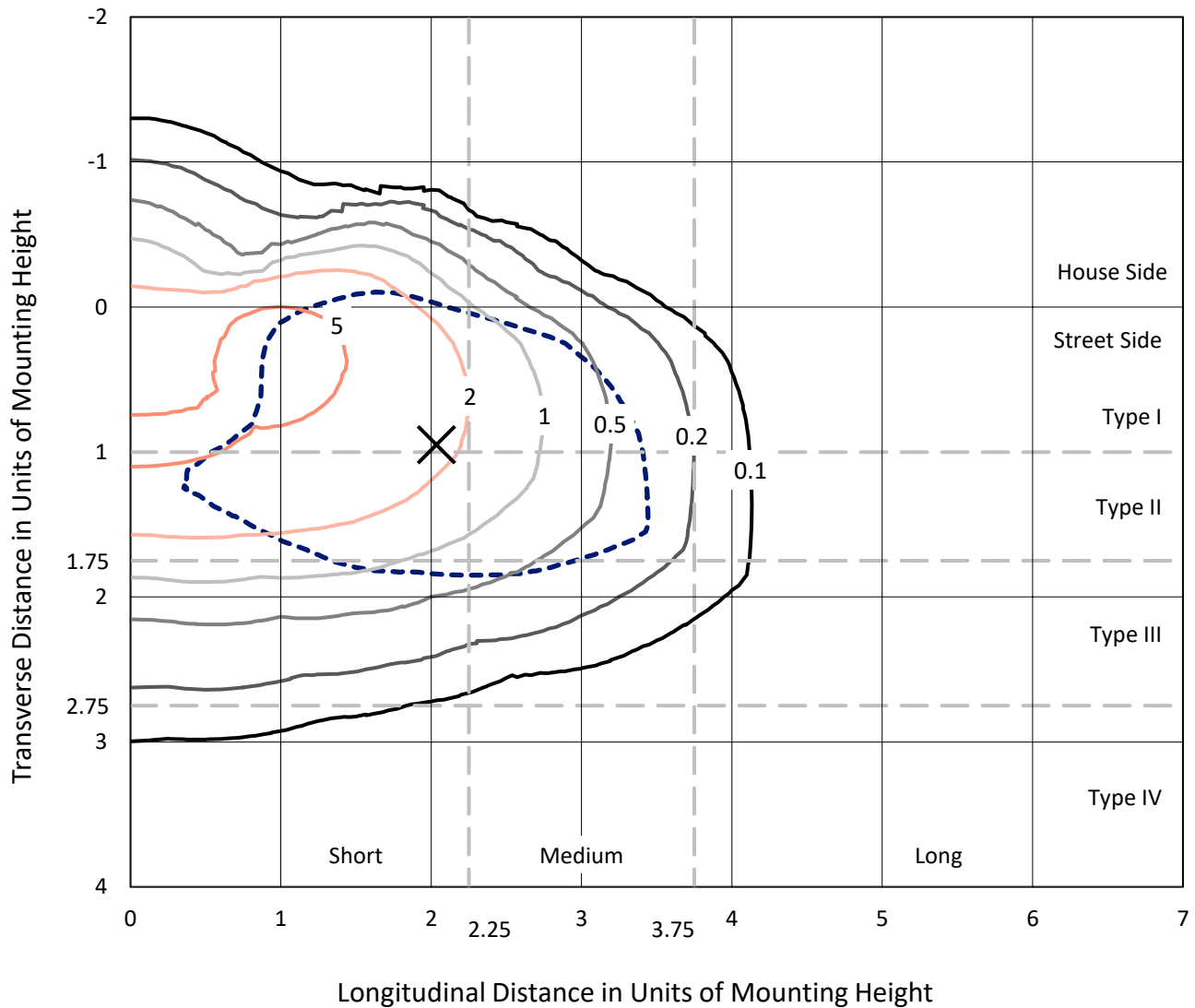
Input Watts (W): 299.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

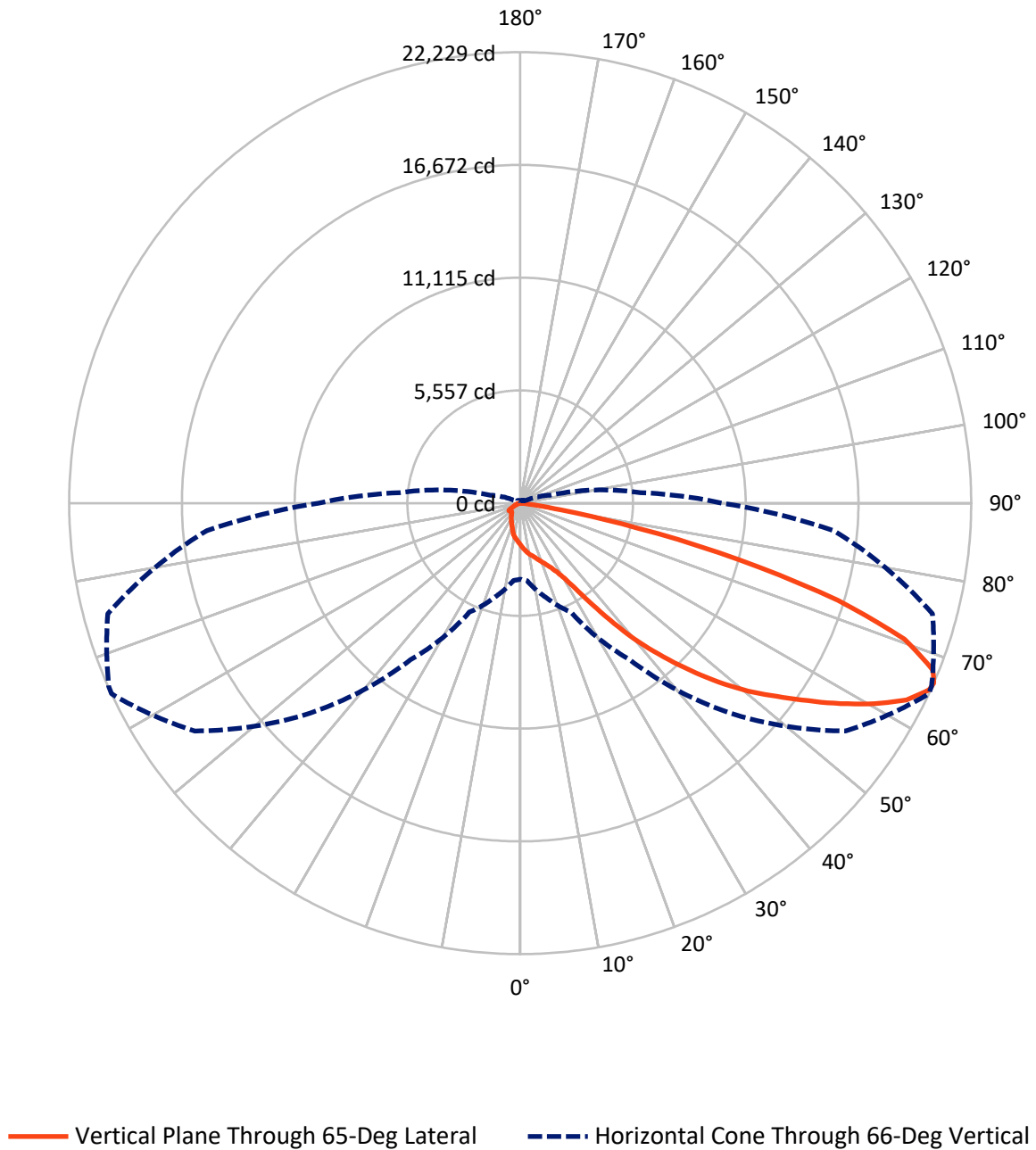
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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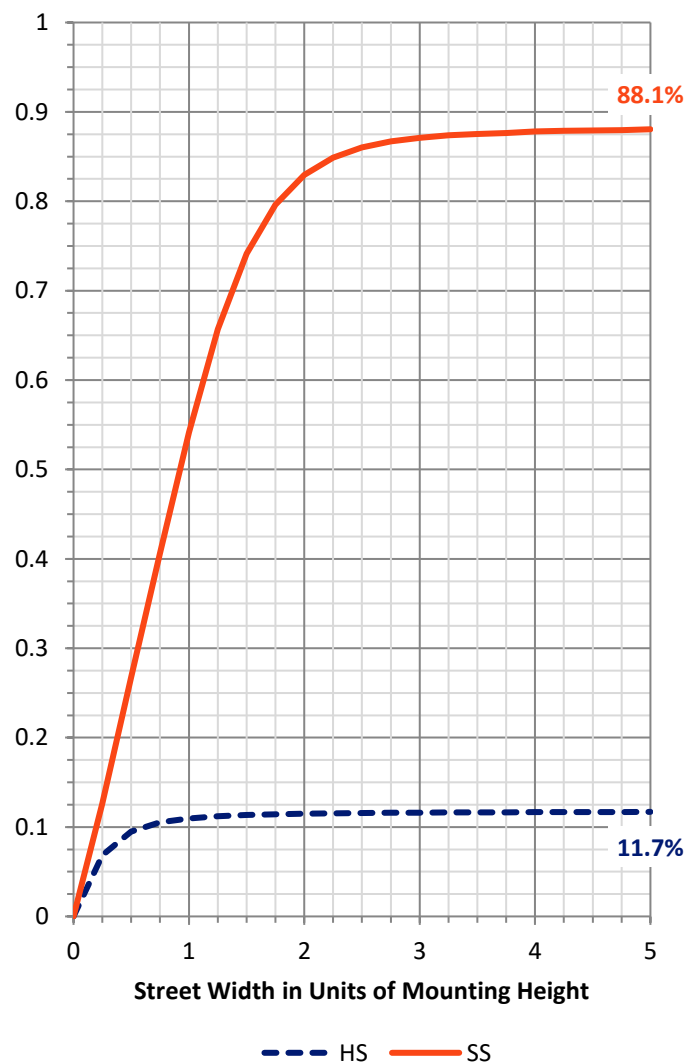
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2970.1	0.0	2970.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22195.9	0.0	22195.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	25166.0	0.0	25166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	0.8
10°-20°	575.4	2.3
20°-30°	1053.2	4.2
30°-40°	2140.0	8.5
40°-50°	4519.1	18.0
50°-60°	6947.4	27.6
60°-70°	6993.0	27.8
70°-80°	2613.0	10.4
80°-90°	130.5	0.5
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°	25166.0	100.0
0°-180°	25166.0	100.0

Coefficient of Utilization



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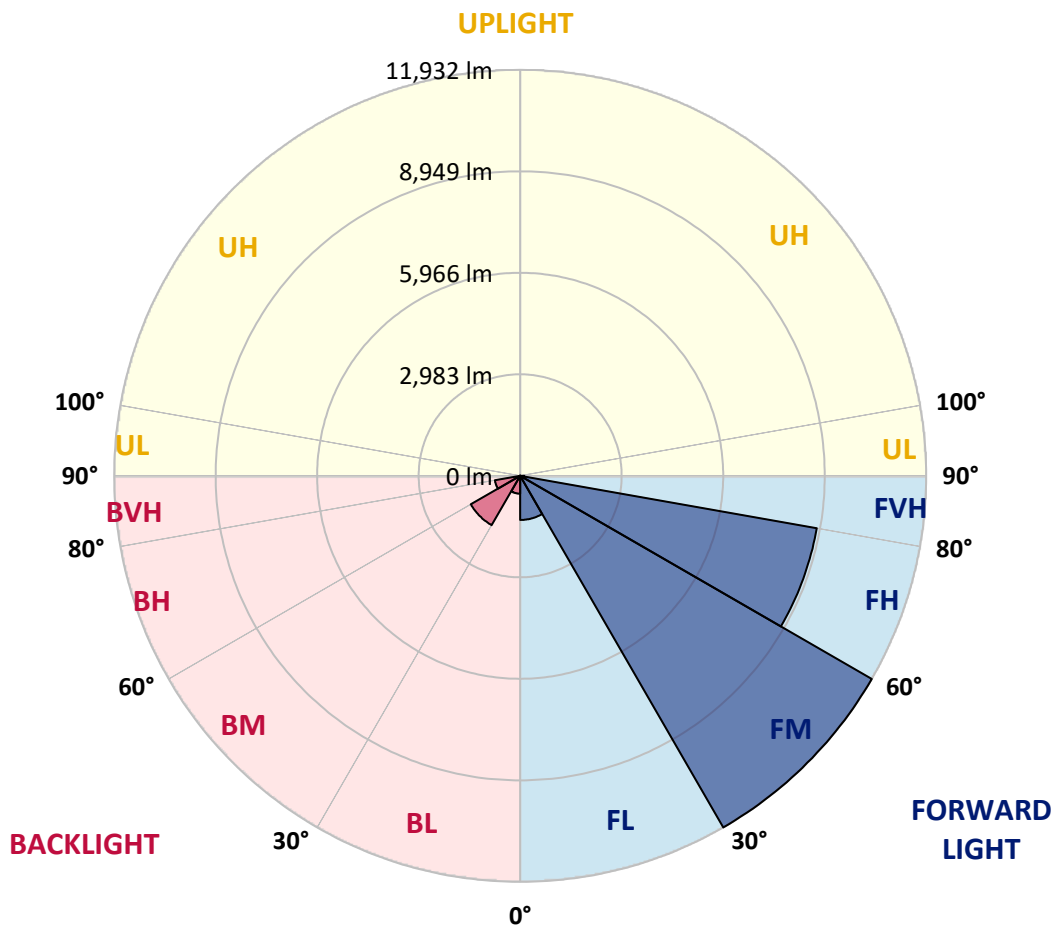
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1297.3	5.2			
FM	(30°-60°)	11932.0	47.4			
FH	(60°-80°)	8851.5	35.2			G4/12000
FVH	(80°-90°)	115.2	0.5			G2/225
BL	(0°-30°)	525.7	2.1	B2/1000		
BM	(30°-60°)	1674.6	6.7	B2/2500		
BH	(60°-80°)	754.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	15.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3
2.5°	2338.0	2342.6	2333.4	2315.2	2296.9	2274.1	2237.5	2178.2	2169.0	2128.0	2082.3
5°	2497.8	2507.0	2493.3	2488.7	2479.6	2447.6	2397.4	2310.6	2301.5	2219.3	2114.3
7.5°	2552.6	2566.3	2557.2	2557.2	2557.2	2543.5	2520.7	2443.0	2429.3	2324.3	2164.5
10°	2593.7	2602.9	2598.3	2616.6	2630.3	2621.1	2607.4	2561.8	2548.1	2443.0	2233.0
12.5°	2657.7	2662.2	2666.8	2675.9	2698.8	2707.9	2703.3	2662.2	2653.1	2580.0	2319.7
15°	2717.0	2717.0	2721.6	2762.7	2794.6	2812.9	2817.5	2785.5	2776.4	2717.0	2429.3
17.5°	2771.8	2776.4	2790.1	2835.7	2890.5	2927.1	2949.9	2936.2	2922.5	2876.8	2557.2
20°	2854.0	2863.1	2876.8	2940.8	2995.6	3054.9	3100.6	3096.0	3091.5	3059.5	2707.9
22.5°	2995.6	3004.7	3027.5	3086.9	3141.7	3214.8	3292.4	3287.8	3274.1	3251.3	2886.0
25°	3210.2	3210.2	3223.9	3274.1	3342.6	3429.4	3502.4	3516.1	3502.4	3488.7	3109.7
27.5°	3479.6	3484.2	3484.2	3539.0	3602.9	3712.5	3803.8	3817.5	3817.5	3803.8	3411.1
30°	3854.1	3840.4	3831.2	3876.9	3945.4	4105.2	4265.0	4292.4	4278.7	4301.6	3835.8
32.5°	4497.9	4475.1	4397.5	4406.6	4447.7	4666.9	4936.3	5032.2	5027.6	5068.7	4520.8
35°	5388.4	5342.7	5228.5	5132.7	5128.1	5365.5	5776.5	6137.3	6132.7	6274.3	5561.9
37.5°	6393.0	6452.3	6237.7	6073.3	6023.1	6210.3	6740.0	7520.9	7562.0	7808.6	6927.3
40°	7735.5	7772.0	7498.1	7265.2	7027.7	7096.2	7794.9	9009.5	9082.6	9356.6	8292.6
42.5°	8904.5	8941.0	8781.2	8498.1	8196.7	8068.9	8858.8	10361.2	10420.6	10799.6	9699.1
45°	9699.1	9726.5	9781.3	9808.7	9466.2	9201.3	10160.3	11749.4	11822.5	12260.8	11073.6
47.5°	10320.1	10342.9	10452.5	10726.5	10658.0	10448.0	11484.5	13192.4	13210.6	13699.2	12411.5
50°	10607.8	10662.6	10932.0	11352.1	11653.5	11712.9	12923.0	14557.7	14608.0	15073.7	13676.4
52.5°	10288.1	10306.4	10986.8	11776.8	12384.1	12986.9	14365.9	15822.6	15968.8	16315.8	14813.5
55°	9210.5	9342.9	10374.9	11763.1	12959.5	14197.0	15909.4	17188.0	17320.4	17539.6	15813.5
57.5°	7959.3	8105.4	9361.2	11174.0	13206.1	15315.8	17338.7	18640.1	18731.4	18790.8	16731.3
60°	6877.0	7014.0	8306.3	10046.1	12959.5	16105.8	18667.5	20083.1	20160.7	20000.9	17192.6
62.5°	5548.2	5685.2	6986.6	8552.9	11991.4	16265.6	19653.9	21366.3	21398.2	20964.4	16909.4
65°	4182.8	4274.2	5361.0	6703.5	10297.3	15416.2	19877.6	22165.4	22133.4	21243.0	16060.1
66°	3749.0	3826.7	4785.6	5927.2	9416.0	14639.9	19576.2	22229.3	22197.3	21037.5	15503.0
67.5°	3233.0	3255.9	4045.8	4849.5	7877.1	12991.5	18658.4	21937.1	21964.5	20471.2	14484.7
70°	2525.2	2520.7	2977.3	3374.6	5379.2	9242.4	15562.3	20096.8	20229.2	18334.2	12352.2
72.5°	1616.5	1561.7	1826.6	2064.0	3132.6	5365.5	11347.5	16379.7	16603.5	14402.5	9201.3
75°	963.5	908.7	972.6	1032.0	1502.4	2580.0	6671.5	11146.6	11361.2	9233.3	5475.1
77.5°	721.5	698.7	703.2	653.0	666.7	968.1	3045.8	5890.7	6045.9	3781.0	2077.7
80°	552.5	493.2	461.2	484.0	438.4	383.6	1132.5	2027.5	2123.4	895.0	433.8
82.5°	369.9	319.6	296.8	324.2	278.6	214.6	274.0	392.7	383.6	242.0	169.0
85°	191.8	164.4	164.4	164.4	141.6	105.0	118.7	159.8	159.8	127.9	100.5
87.5°	54.8	50.2	59.4	54.8	41.1	41.1	45.7	54.8	54.8	50.2	45.7
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°	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3	2050.3
2.5°	2045.8	2027.5	1977.3	1940.7	1904.2	1872.2	1835.7	1826.6	1808.3	1812.9	1803.7
5°	2059.5	2009.2	1922.5	1840.3	1776.3	1721.5	1653.0	1625.6	1589.1	1575.4	1566.3
7.5°	2077.7	2004.7	1876.8	1762.6	1653.0	1543.4	1433.9	1369.9	1328.8	1310.6	1296.9
10°	2118.8	2022.9	1854.0	1675.9	1488.7	1333.4	1223.8	1178.1	1150.7	1146.2	1141.6
12.5°	2173.6	2050.3	1831.1	1566.3	1319.7	1173.6	1105.1	1091.4	1086.8	1086.8	1082.2
15°	2255.8	2096.0	1794.6	1438.4	1187.3	1086.8	1054.8	1032.0	1022.9	1022.9	1022.9
17.5°	2338.0	2150.8	1739.8	1306.0	1095.9	1032.0	1000.0	986.3	977.2	981.8	977.2
20°	2443.0	2214.7	1666.7	1191.8	1036.6	986.3	954.4	940.7	936.1	936.1	936.1
22.5°	2561.8	2287.8	1575.4	1105.1	986.3	940.7	908.7	895.0	885.9	890.5	890.5
25°	2721.6	2379.1	1479.5	1018.3	936.1	895.0	858.5	840.2	840.2	844.8	849.4
27.5°	2927.1	2488.7	1383.6	963.5	890.5	849.4	808.3	790.0	794.6	803.7	803.7
30°	3228.5	2639.4	1287.7	904.2	840.2	794.6	758.0	739.8	748.9	767.2	767.2
32.5°	3657.7	2886.0	1205.5	835.7	767.2	716.9	680.4	666.7	689.5	726.1	726.1
35°	4424.9	3338.1	1155.3	767.2	689.5	630.2	584.5	570.8	602.8	648.4	648.4
37.5°	5452.3	4064.1	1173.6	707.8	625.6	557.1	506.9	488.6	511.4	552.5	566.2
40°	6598.5	4940.9	1333.4	657.6	566.2	497.7	447.5	429.2	442.9	461.2	465.8
42.5°	7744.6	5872.4	1634.8	621.0	520.6	447.5	401.8	388.1	397.3	401.8	406.4
45°	8886.2	6794.8	2013.8	598.2	479.5	406.4	360.7	360.7	365.3	365.3	365.3
47.5°	9968.5	7694.4	2411.1	593.6	442.9	365.3	328.8	333.3	333.3	337.9	337.9
50°	10991.4	8498.1	2812.9	607.3	411.0	328.8	301.4	301.4	301.4	305.9	301.4
52.5°	11845.3	9201.3	3233.0	630.2	379.0	301.4	274.0	274.0	274.0	278.6	274.0
55°	12653.5	9840.6	3662.3	662.1	351.6	278.6	251.2	242.0	242.0	246.6	242.0
57.5°	13311.1	10265.3	4068.7	666.7	328.8	255.7	232.9	219.2	219.2	219.2	219.2
60°	13338.5	10018.7	4187.4	584.5	301.4	232.9	210.1	191.8	196.4	196.4	196.4
62.5°	12466.3	8721.9	3365.4	438.4	269.4	210.1	191.8	173.5	173.5	173.5	173.5
65°	10753.9	6785.7	1972.7	347.0	232.9	187.2	169.0	155.3	155.3	155.3	150.7
66°	9950.2	5950.0	1511.5	315.1	219.2	182.7	164.4	150.7	146.1	141.6	141.6
67.5°	8639.7	4703.4	945.2	278.6	200.9	169.0	150.7	137.0	132.4	127.9	127.9
70°	6507.1	2986.4	461.2	214.6	173.5	146.1	132.4	118.7	114.2	109.6	105.0
72.5°	4566.4	1748.9	242.0	164.4	141.6	127.9	114.2	100.5	95.9	91.3	91.3
75°	2580.0	844.8	159.8	118.7	114.2	105.0	95.9	82.2	77.6	77.6	77.6
77.5°	977.2	292.3	109.6	86.8	91.3	82.2	68.5	68.5	63.9	68.5	63.9
80°	255.7	127.9	68.5	63.9	68.5	59.4	50.2	54.8	54.8	54.8	54.8
82.5°	137.0	73.1	41.1	45.7	41.1	41.1	32.0	36.5	41.1	36.5	41.1
85°	95.9	36.5	22.8	22.8	18.3	18.3	13.7	18.3	22.8	18.3	18.3
87.5°	50.2	13.7	13.7	13.7	13.7	9.1	4.6	0.0	4.6	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)