

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: P1211302

Luminaire Tested: **ARCH4-230-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211302
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: ARCH4-230-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 905mA 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: 25013 lumens
Efficiency: N/A
Efficacy: 108.2 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

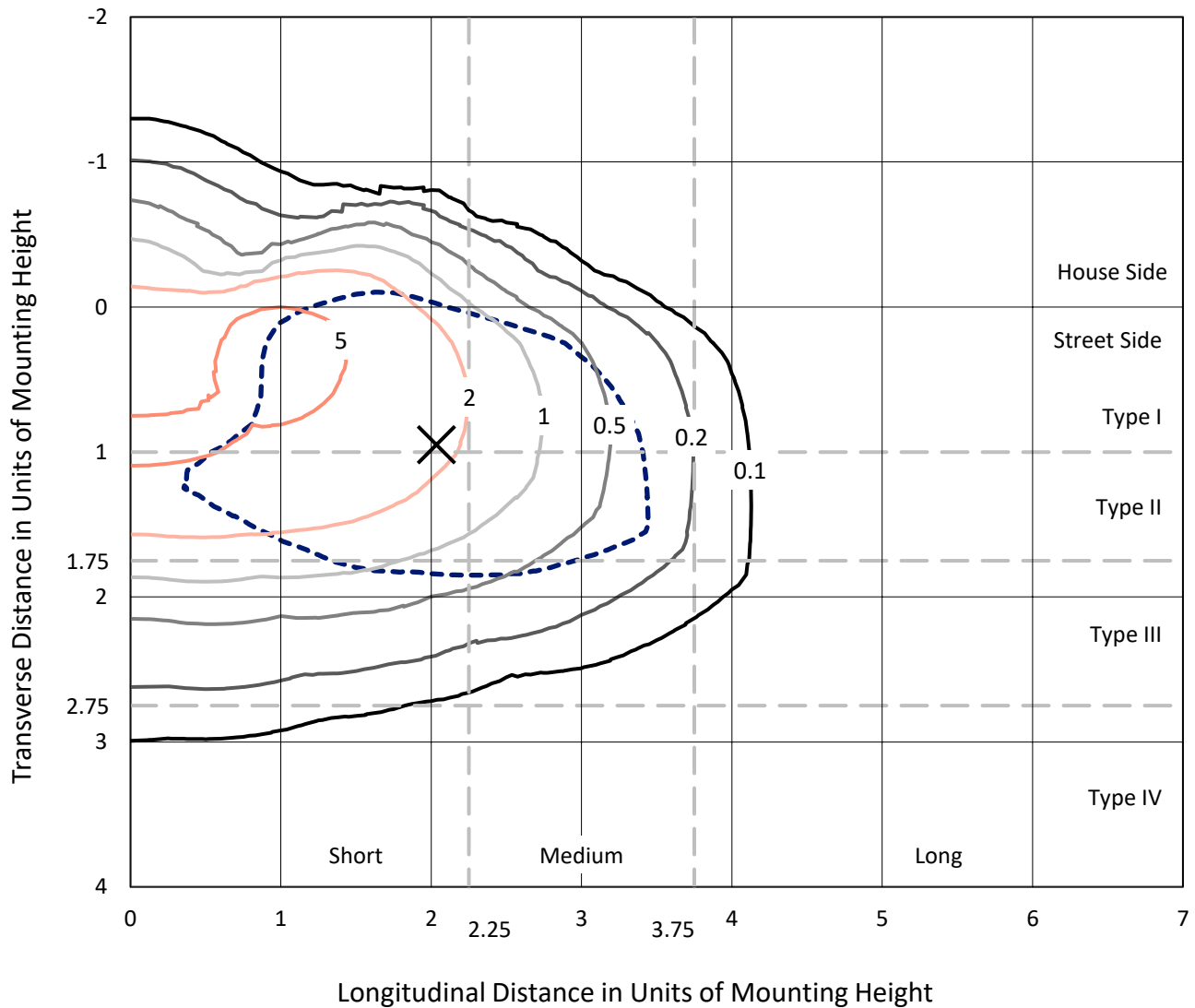
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

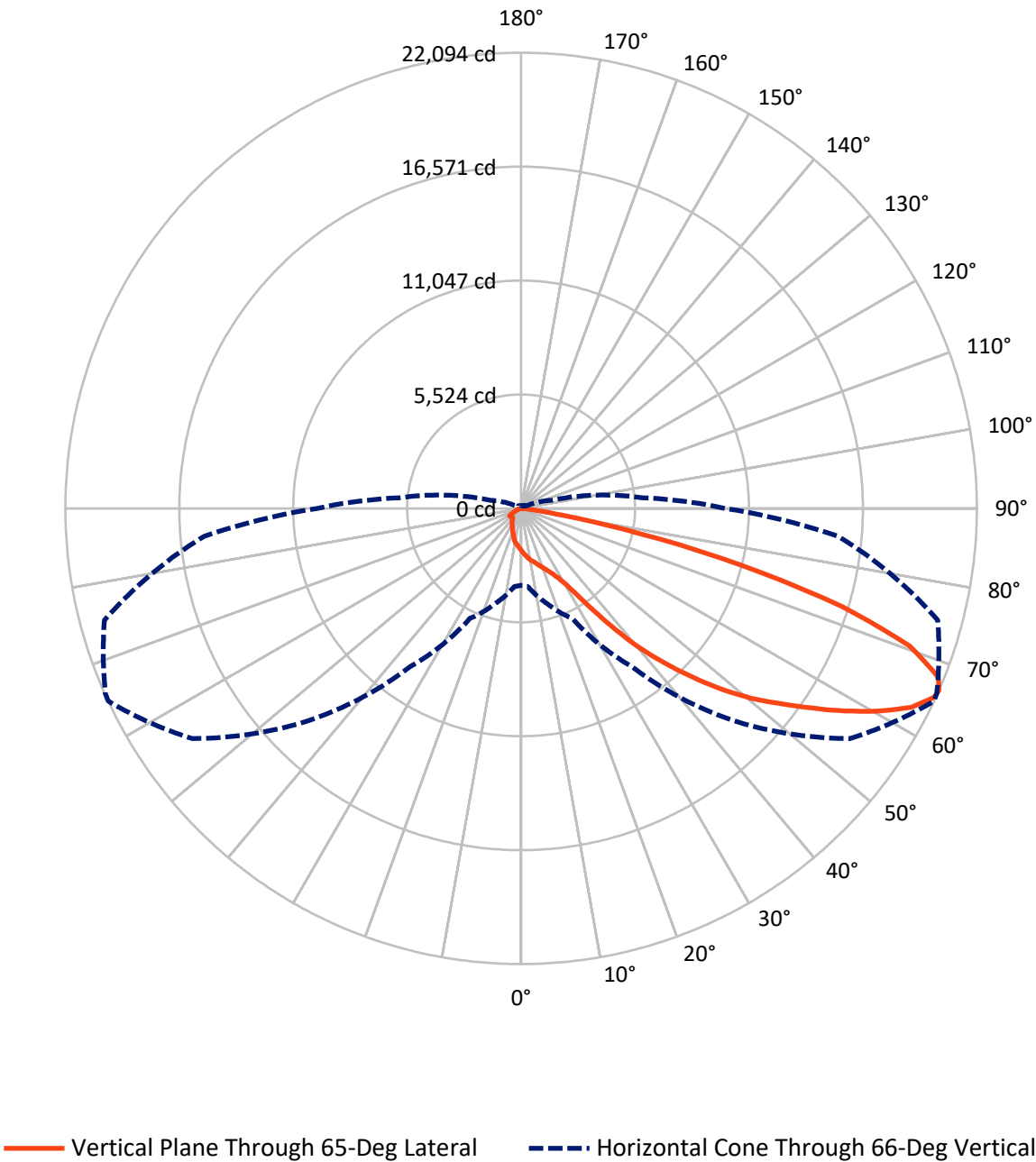
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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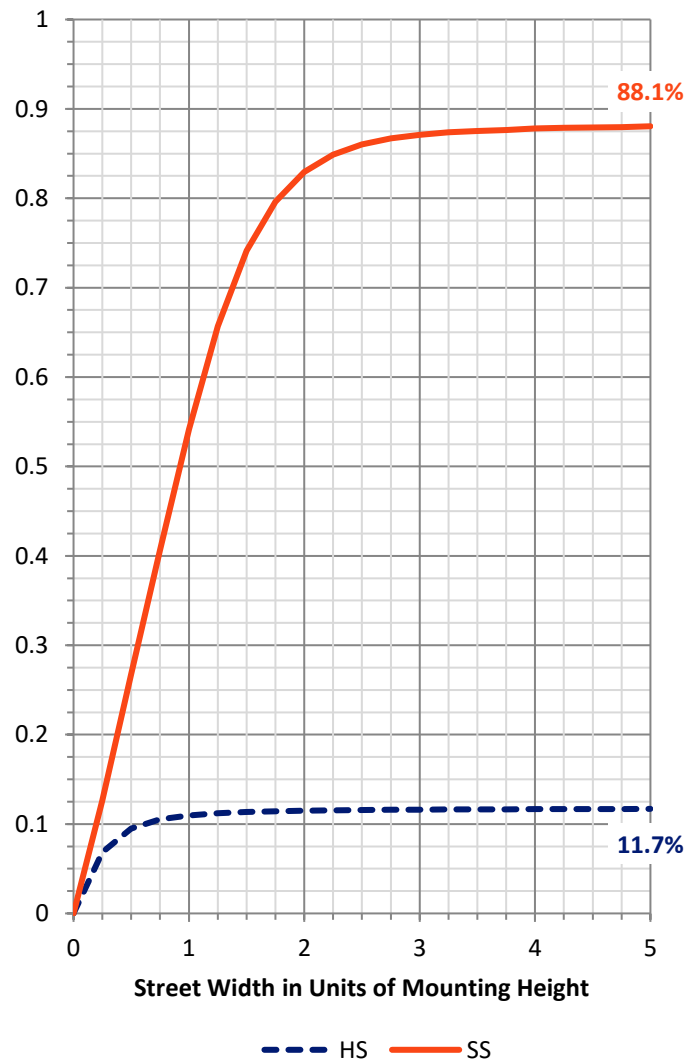
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2952.1	0.0	2952.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22060.9	0.0	22060.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	25013.0	0.0	25013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	0.8
10°-20°	571.9	2.3
20°-30°	1046.8	4.2
30°-40°	2127.0	8.5
40°-50°	4491.7	18.0
50°-60°	6905.1	27.6
60°-70°	6950.5	27.8
70°-80°	2597.1	10.4
80°-90°	129.7	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°	25013.0	100.0
0°-180°	25013.0	100.0

Coefficient of Utilization



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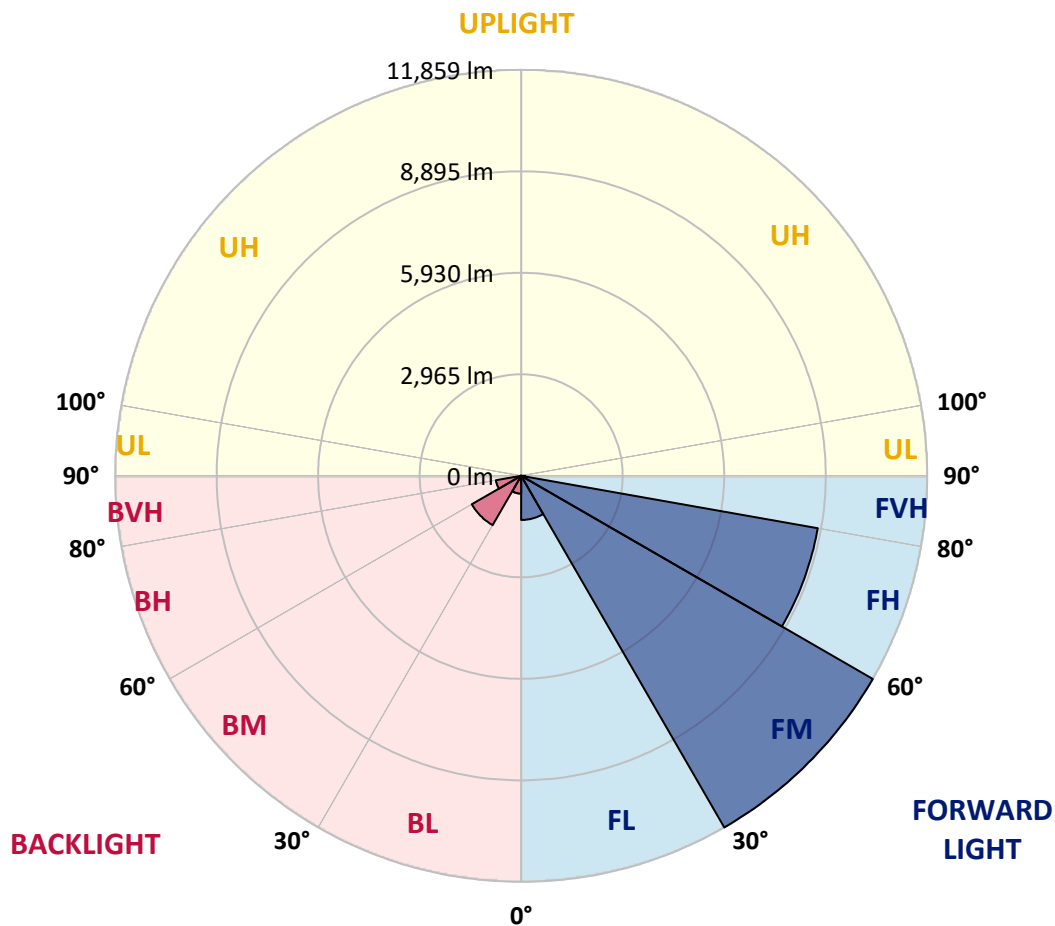
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1289.4	5.2			
FM	(30°-60°)	11859.4	47.4			
FH	(60°-80°)	8797.7	35.2			G4/12000
FVH	(80°-90°)	114.5	0.5			G2/225
BL	(0°-30°)	522.5	2.1	B2/1000		
BM	(30°-60°)	1664.4	6.7	B2/2500		
BH	(60°-80°)	749.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	15.3	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°	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9
2.5°	2323.8	2328.3	2319.3	2301.1	2282.9	2260.2	2223.9	2164.9	2155.9	2115.0	2069.6
5°	2482.6	2491.7	2478.1	2473.6	2464.5	2432.7	2382.8	2296.6	2287.5	2205.8	2101.4
7.5°	2537.1	2550.7	2541.6	2541.6	2541.6	2528.0	2505.3	2428.2	2414.6	2310.2	2151.3
10°	2578.0	2587.0	2582.5	2600.6	2614.3	2605.2	2591.6	2546.2	2532.6	2428.2	2219.4
12.5°	2641.5	2646.0	2650.6	2659.7	2682.3	2691.4	2686.9	2646.0	2637.0	2564.3	2305.6
15°	2700.5	2700.5	2705.0	2745.9	2777.7	2795.8	2800.3	2768.6	2759.5	2700.5	2414.6
17.5°	2755.0	2759.5	2773.1	2818.5	2873.0	2909.3	2932.0	2918.4	2904.7	2859.4	2541.6
20°	2836.7	2845.7	2859.4	2922.9	2977.4	3036.4	3081.7	3077.2	3072.7	3040.9	2691.4
22.5°	2977.4	2986.4	3009.1	3068.1	3122.6	3195.2	3272.4	3267.8	3254.2	3231.5	2868.4
25°	3190.7	3190.7	3204.3	3254.2	3322.3	3408.5	3481.1	3494.8	3481.1	3467.5	3090.8
27.5°	3458.5	3463.0	3463.0	3517.5	3581.0	3689.9	3780.7	3794.3	3794.3	3780.7	3390.4
30°	3830.6	3817.0	3807.9	3853.3	3921.4	4080.3	4239.1	4266.3	4252.7	4275.4	3812.5
32.5°	4470.6	4447.9	4370.7	4379.8	4420.6	4638.5	4906.3	5001.6	4997.1	5037.9	4493.3
35°	5355.6	5310.2	5196.8	5101.4	5096.9	5332.9	5741.4	6100.0	6095.4	6236.1	5528.1
37.5°	6354.1	6413.1	6199.8	6036.4	5986.5	6172.6	6699.1	7475.2	7516.0	7761.1	6885.1
40°	7688.5	7724.8	7452.5	7221.0	6985.0	7053.1	7747.5	8954.8	9027.4	9299.7	8242.2
42.5°	8850.4	8886.7	8727.8	8446.4	8146.9	8019.8	8805.0	10298.2	10357.2	10733.9	9640.1
45°	9640.1	9667.3	9721.8	9749.0	9408.6	9145.4	10098.5	11678.0	11750.6	12186.3	11006.2
47.5°	10257.4	10280.1	10389.0	10661.3	10593.2	10384.4	11414.7	13112.2	13130.3	13616.0	12336.1
50°	10543.3	10597.8	10865.5	11283.1	11582.6	11641.6	12844.4	14469.2	14519.2	14982.1	13593.3
52.5°	10225.6	10243.7	10920.0	11705.2	12308.8	12907.9	14278.6	15726.4	15871.7	16216.6	14723.4
55°	9154.5	9286.1	10311.8	11691.6	12880.7	14110.7	15812.7	17083.5	17215.1	17433.0	15717.4
57.5°	7910.9	8056.1	9304.2	11106.1	13125.8	15222.6	17233.3	18526.8	18617.6	18676.6	16629.6
60°	6835.2	6971.4	8255.8	9985.0	12880.7	16007.8	18554.0	19961.0	20038.2	19879.3	17088.0
62.5°	5514.5	5650.6	6944.1	8500.9	11918.5	16166.7	19534.4	21236.4	21268.1	20837.0	16806.6
65°	4157.4	4248.2	5328.4	6662.7	10234.7	15322.5	19756.8	22030.6	21998.9	21113.8	15962.4
66°	3726.2	3803.4	4756.5	5891.2	9358.7	14550.9	19457.2	22094.2	22062.4	20909.6	15408.7
67.5°	3213.4	3236.1	4021.2	4820.1	7829.2	12912.5	18544.9	21803.7	21830.9	20346.8	14396.6
70°	2509.9	2505.3	2959.2	3354.1	5346.5	9186.2	15467.7	19974.6	20106.2	18222.7	12277.1
72.5°	1606.7	1552.2	1815.5	2051.5	3113.5	5332.9	11278.6	16280.2	16502.5	14314.9	9145.4
75°	957.7	903.2	966.7	1025.7	1493.2	2564.3	6631.0	11078.9	11292.2	9177.2	5441.8
77.5°	717.1	694.4	699.0	649.0	662.6	962.2	3027.3	5854.9	6009.2	3758.0	2065.1
80°	549.2	490.2	458.4	481.1	435.7	381.2	1125.6	2015.2	2110.5	889.6	431.2
82.5°	367.6	317.7	295.0	322.2	276.9	213.3	272.3	390.3	381.2	240.5	167.9
85°	190.6	163.4	163.4	163.4	140.7	104.4	118.0	158.9	158.9	127.1	99.9
87.5°	54.5	49.9	59.0	54.5	40.8	40.8	45.4	54.5	54.5	49.9	45.4
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°	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9
2.5°	2033.3	2015.2	1965.2	1928.9	1892.6	1860.8	1824.5	1815.5	1797.3	1801.8	1792.8
5°	2046.9	1997.0	1910.8	1829.1	1765.5	1711.1	1643.0	1615.8	1579.5	1565.8	1556.8
7.5°	2065.1	1992.5	1865.4	1751.9	1643.0	1534.1	1425.1	1361.6	1320.7	1302.6	1289.0
10°	2105.9	2010.6	1842.7	1665.7	1479.6	1325.3	1216.4	1171.0	1143.7	1139.2	1134.7
12.5°	2160.4	2037.9	1820.0	1556.8	1311.7	1166.4	1098.4	1084.7	1080.2	1080.2	1075.7
15°	2242.1	2083.2	1783.7	1429.7	1180.1	1080.2	1048.4	1025.7	1016.7	1016.7	1016.7
17.5°	2323.8	2137.7	1729.2	1298.1	1089.3	1025.7	994.0	980.3	971.3	975.8	971.3
20°	2428.2	2201.2	1656.6	1184.6	1030.3	980.3	948.6	935.0	930.4	930.4	930.4
22.5°	2546.2	2273.9	1565.8	1098.4	980.3	935.0	903.2	889.6	880.5	885.0	885.0
25°	2705.0	2364.6	1470.5	1012.1	930.4	889.6	853.3	835.1	835.1	839.7	844.2
27.5°	2909.3	2473.6	1375.2	957.7	885.0	844.2	803.3	785.2	789.7	798.8	798.8
30°	3208.8	2623.3	1279.9	898.7	835.1	789.7	753.4	735.3	744.3	762.5	762.5
32.5°	3635.5	2868.4	1198.2	830.6	762.5	712.6	676.3	662.6	685.3	721.6	721.6
35°	4398.0	3317.8	1148.3	762.5	685.3	626.3	580.9	567.3	599.1	644.5	644.5
37.5°	5419.2	4039.4	1166.4	703.5	621.8	553.7	503.8	485.6	508.3	549.2	562.8
40°	6558.4	4910.8	1325.3	653.6	562.8	494.7	444.8	426.6	440.2	458.4	462.9
42.5°	7697.6	5836.7	1624.8	617.3	517.4	444.8	399.4	385.8	394.9	399.4	403.9
45°	8832.2	6753.5	2001.5	594.6	476.6	403.9	358.6	358.6	363.1	363.1	363.1
47.5°	9907.9	7647.6	2396.4	590.0	440.2	363.1	326.8	331.3	331.3	335.9	335.9
50°	10924.5	8446.4	2795.8	603.6	408.5	326.8	299.6	299.6	299.6	304.1	299.6
52.5°	11773.3	9145.4	3213.4	626.3	376.7	299.6	272.3	272.3	272.3	276.9	272.3
55°	12576.6	9780.8	3640.0	658.1	349.5	276.9	249.6	240.5	240.5	245.1	240.5
57.5°	13230.2	10202.9	4043.9	662.6	326.8	254.2	231.5	217.9	217.9	217.9	217.9
60°	13257.4	9957.8	4161.9	580.9	299.6	231.5	208.8	190.6	195.2	195.2	195.2
62.5°	12390.5	8668.8	3345.0	435.7	267.8	208.8	190.6	172.5	172.5	172.5	172.5
65°	10688.5	6744.4	1960.7	344.9	231.5	186.1	167.9	154.3	154.3	154.3	149.8
66°	9889.7	5913.9	1502.3	313.2	217.9	181.5	163.4	149.8	145.2	140.7	140.7
67.5°	8587.1	4674.8	939.5	276.9	199.7	167.9	149.8	136.2	131.6	127.1	127.1
70°	6467.6	2968.3	458.4	213.3	172.5	145.2	131.6	118.0	113.5	108.9	104.4
72.5°	4538.7	1738.3	240.5	163.4	140.7	127.1	113.5	99.9	95.3	90.8	90.8
75°	2564.3	839.7	158.9	118.0	113.5	104.4	95.3	81.7	77.2	77.2	77.2
77.5°	971.3	290.5	108.9	86.2	90.8	81.7	68.1	68.1	63.5	68.1	63.5
80°	254.2	127.1	68.1	63.5	68.1	59.0	49.9	54.5	54.5	54.5	54.5
82.5°	136.2	72.6	40.8	45.4	40.8	40.8	31.8	36.3	40.8	36.3	40.8
85°	95.3	36.3	22.7	22.7	18.2	18.2	13.6	18.2	22.7	18.2	18.2
87.5°	49.9	13.6	13.6	13.6	13.6	9.1	4.5	0.0	4.5	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)