

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: P1211270

Luminaire Tested: **ARCH4-220-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211270
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: ARCH4-220-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 870mA 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: 24208 lumens
Efficiency: N/A
Efficacy: 109.1 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): 221.8
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

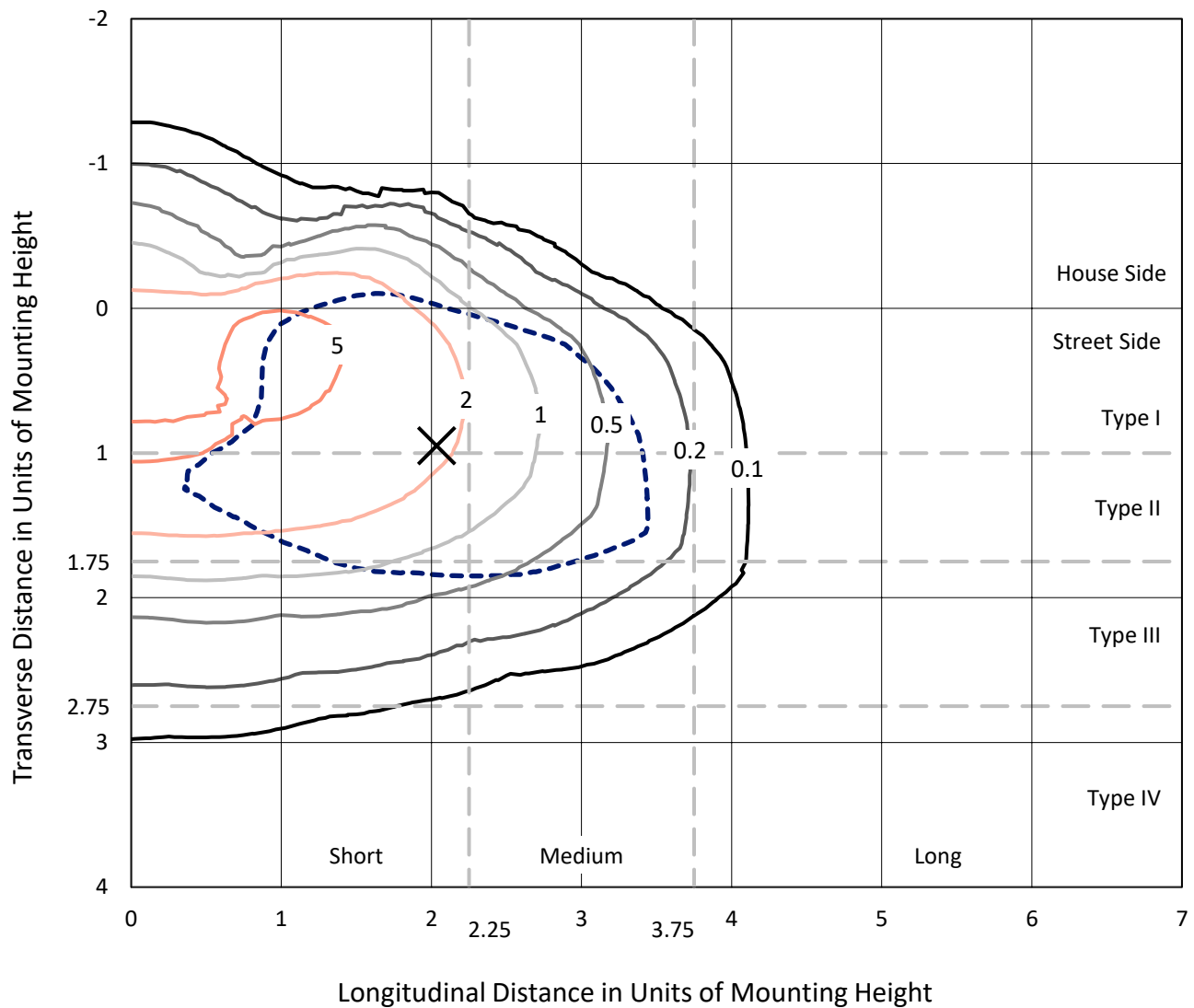


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Iso-Footcandle Lines of Horizontal Illumination

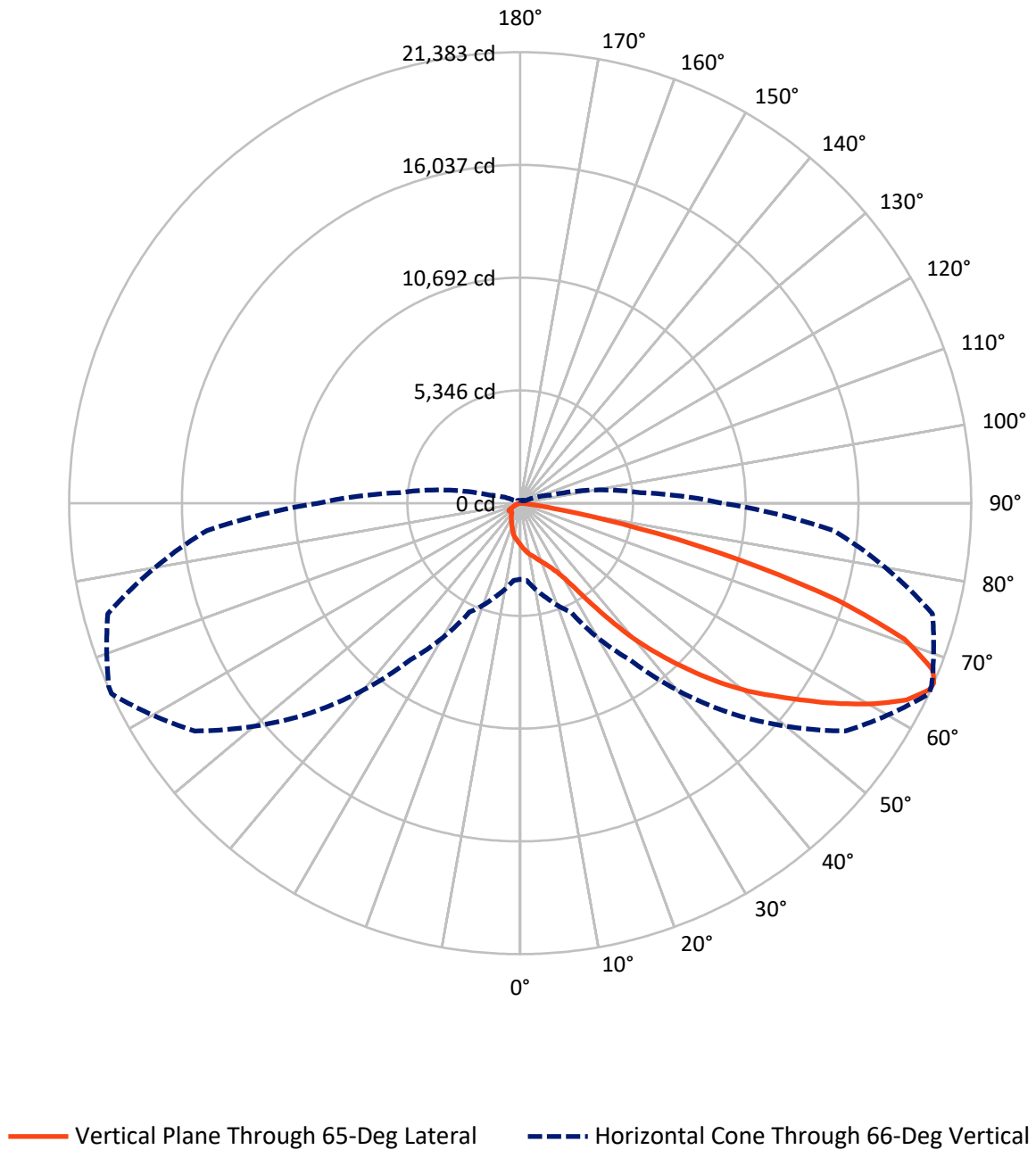
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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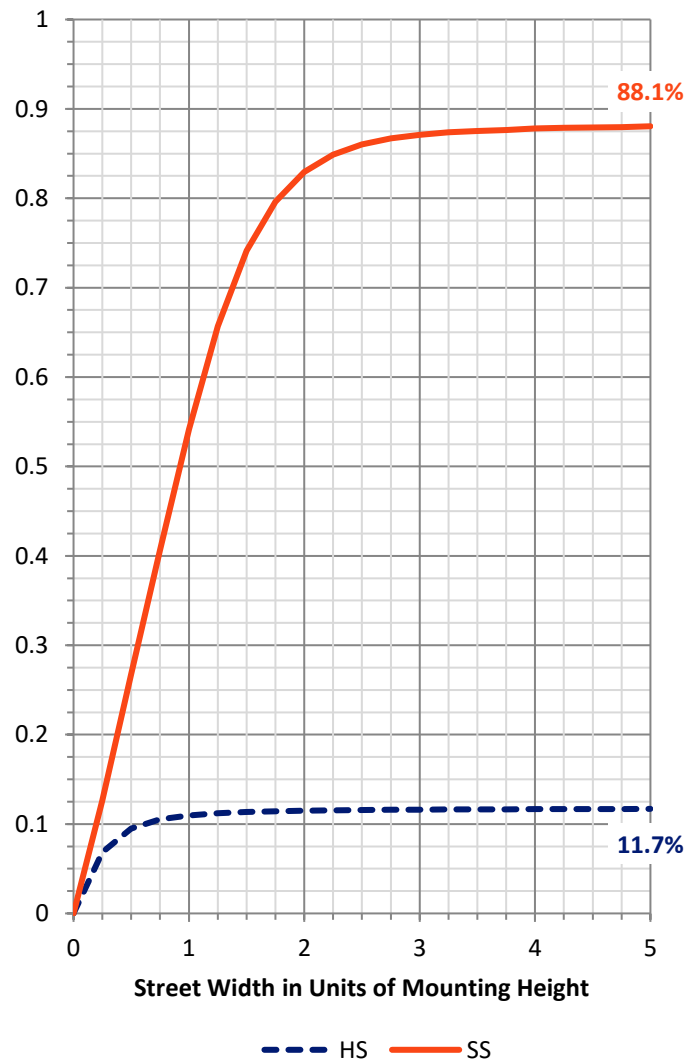
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2857.0	0.0	2857.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	21351.0	0.0	21351.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	24208.0	0.0	24208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	0.8
10°-20°	553.5	2.3
20°-30°	1013.1	4.2
30°-40°	2058.6	8.5
40°-50°	4347.1	18.0
50°-60°	6682.9	27.6
60°-70°	6726.8	27.8
70°-80°	2513.5	10.4
80°-90°	125.6	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°	24208.0	100.0
0°-180°	24208.0	100.0

Coefficient of Utilization



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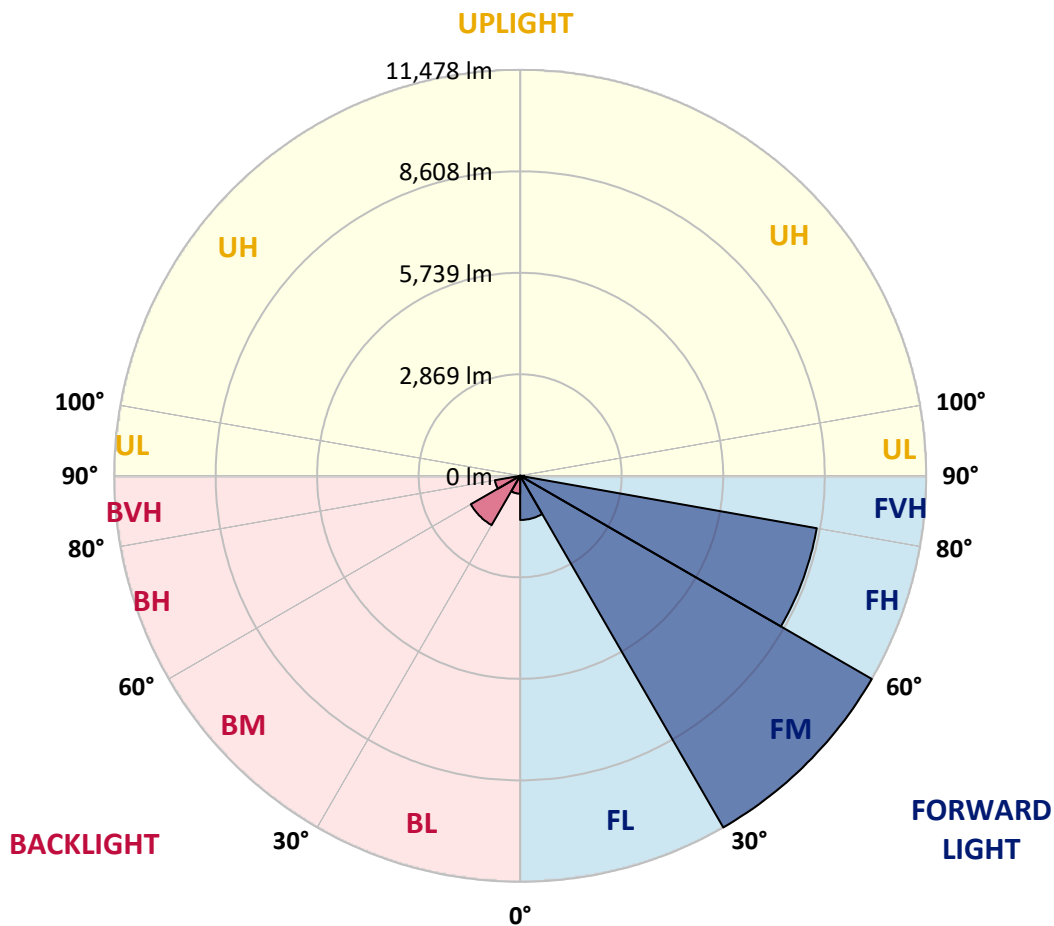
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1247.9	5.2			
FM	(30°-60°)	11477.7	47.4			
FH	(60°-80°)	8514.5	35.2			G4/12000
FVH	(80°-90°)	110.8	0.5			G2/225
BL	(0°-30°)	505.7	2.1	B2/1000		
BM	(30°-60°)	1610.8	6.7	B2/2500		
BH	(60°-80°)	725.8	3.0	B2/1000		G2/1000
BVH	(80°-90°)	14.8	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°	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3
2.5°	2249.0	2253.4	2244.6	2227.0	2209.5	2187.5	2152.4	2095.3	2086.5	2046.9	2003.0
5°	2402.7	2411.5	2398.4	2394.0	2385.2	2354.4	2306.1	2222.6	2213.9	2134.8	2033.8
7.5°	2455.5	2468.6	2459.8	2459.8	2459.8	2446.7	2424.7	2350.0	2336.9	2235.8	2082.1
10°	2495.0	2503.8	2499.4	2517.0	2530.1	2521.3	2508.2	2464.2	2451.1	2350.0	2148.0
12.5°	2556.5	2560.9	2565.3	2574.1	2596.0	2604.8	2600.4	2560.9	2552.1	2481.8	2231.4
15°	2613.6	2613.6	2618.0	2657.5	2688.3	2705.8	2710.2	2679.5	2670.7	2613.6	2336.9
17.5°	2666.3	2670.7	2683.9	2727.8	2780.5	2815.6	2837.6	2824.4	2811.3	2767.3	2459.8
20°	2745.4	2754.2	2767.3	2828.8	2881.5	2938.6	2982.6	2978.2	2973.8	2943.0	2604.8
22.5°	2881.5	2890.3	2912.3	2969.4	3022.1	3092.4	3167.1	3162.7	3149.5	3127.5	2776.1
25°	3088.0	3088.0	3101.2	3149.5	3215.4	3298.8	3369.1	3382.3	3369.1	3355.9	2991.4
27.5°	3347.2	3351.5	3351.5	3404.3	3465.7	3571.2	3659.0	3672.2	3672.2	3659.0	3281.3
30°	3707.3	3694.2	3685.4	3729.3	3795.2	3948.9	4102.7	4129.0	4115.9	4137.8	3689.8
32.5°	4326.7	4304.7	4230.1	4238.8	4278.4	4489.2	4748.4	4840.6	4836.2	4875.8	4348.7
35°	5183.3	5139.3	5029.5	4937.3	4932.9	5161.3	5556.6	5903.6	5899.2	6035.4	5350.2
37.5°	6149.6	6206.7	6000.3	5842.1	5793.8	5973.9	6483.5	7234.6	7274.1	7511.3	6663.6
40°	7441.0	7476.2	7212.6	6988.6	6760.2	6826.1	7498.1	8666.6	8736.9	9000.4	7976.9
42.5°	8565.5	8600.7	8446.9	8174.6	7884.7	7761.7	8521.6	9966.8	10023.9	10388.5	9329.9
45°	9329.9	9356.2	9408.9	9435.3	9105.8	8851.1	9773.5	11302.1	11372.4	11794.1	10652.0
47.5°	9927.2	9949.2	10054.6	10318.2	10252.3	10050.2	11047.4	12690.2	12707.7	13177.8	11939.0
50°	10204.0	10256.7	10515.8	10920.0	11209.9	11267.0	12431.0	14003.6	14051.9	14499.9	13155.8
52.5°	9896.5	9914.1	10568.6	11328.5	11912.7	12492.5	13819.1	15220.3	15360.9	15694.7	14249.5
55°	8859.8	8987.2	9980.0	11315.3	12466.2	13656.5	15303.8	16533.7	16661.1	16871.9	15211.5
57.5°	7656.3	7796.8	9004.8	10748.7	12703.4	14732.7	16678.6	17930.5	18018.4	18075.5	16094.4
60°	6615.2	6747.0	7990.1	9663.7	12466.2	15492.6	17956.9	19318.6	19393.3	19239.5	16538.1
62.5°	5337.0	5468.8	6720.7	8227.3	11534.9	15646.4	18905.7	20552.9	20583.7	20166.4	16265.7
65°	4023.6	4111.5	5156.9	6448.3	9905.3	14829.4	19120.9	21321.6	21290.9	20434.3	15448.7
66°	3606.3	3681.0	4603.4	5701.6	9057.5	14082.6	18831.0	21383.1	21352.4	20236.6	14912.8
67.5°	3110.0	3131.9	3891.8	4664.9	7577.2	12496.9	17948.1	21102.0	21128.3	19692.0	13933.3
70°	2429.1	2424.7	2864.0	3246.1	5174.5	8890.6	14969.9	19331.8	19459.2	17636.2	11881.9
72.5°	1555.0	1502.3	1757.0	1985.4	3013.3	5161.3	10915.6	15756.2	15971.4	13854.2	8851.1
75°	926.8	874.1	935.6	992.7	1445.2	2481.8	6417.6	10722.3	10928.8	8881.8	5266.7
77.5°	694.0	672.1	676.5	628.1	641.3	931.2	2929.9	5666.4	5815.8	3637.1	1998.6
80°	531.5	474.4	443.7	465.6	421.7	369.0	1089.4	1950.3	2042.6	860.9	417.3
82.5°	355.8	307.5	285.5	311.9	267.9	206.5	263.6	377.8	369.0	232.8	162.5
85°	184.5	158.1	158.1	158.1	136.2	101.0	114.2	153.7	153.7	123.0	96.6
87.5°	52.7	48.3	57.1	52.7	39.5	39.5	43.9	52.7	52.7	48.3	43.9
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°	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3	1972.3
2.5°	1967.9	1950.3	1902.0	1866.8	1831.7	1801.0	1765.8	1757.0	1739.5	1743.9	1735.1
5°	1981.1	1932.7	1849.3	1770.2	1708.7	1656.0	1590.1	1563.8	1528.6	1515.4	1506.7
7.5°	1998.6	1928.3	1805.4	1695.5	1590.1	1484.7	1379.3	1317.8	1278.2	1260.7	1247.5
10°	2038.2	1945.9	1783.4	1612.1	1432.0	1282.6	1177.2	1133.3	1106.9	1102.5	1098.1
12.5°	2090.9	1972.3	1761.4	1506.7	1269.5	1128.9	1063.0	1049.8	1045.4	1045.4	1041.0
15°	2169.9	2016.2	1726.3	1383.7	1142.1	1045.4	1014.7	992.7	983.9	983.9	983.9
17.5°	2249.0	2068.9	1673.6	1256.3	1054.2	992.7	962.0	948.8	940.0	944.4	940.0
20°	2350.0	2130.4	1603.3	1146.5	997.1	948.8	918.1	904.9	900.5	900.5	900.5
22.5°	2464.2	2200.7	1515.4	1063.0	948.8	904.9	874.1	860.9	852.2	856.6	856.6
25°	2618.0	2288.5	1423.2	979.5	900.5	860.9	825.8	808.2	808.2	812.6	817.0
27.5°	2815.6	2394.0	1331.0	926.8	856.6	817.0	777.5	759.9	764.3	773.1	773.1
30°	3105.6	2538.9	1238.7	869.7	808.2	764.3	729.2	711.6	720.4	738.0	738.0
32.5°	3518.5	2776.1	1159.6	803.8	738.0	689.6	654.5	641.3	663.3	698.4	698.4
35°	4256.4	3211.0	1111.3	738.0	663.3	606.2	562.3	549.1	579.8	623.7	623.7
37.5°	5244.7	3909.4	1128.9	680.9	601.8	535.9	487.6	470.0	492.0	531.5	544.7
40°	6347.3	4752.8	1282.6	632.5	544.7	478.8	430.5	412.9	426.1	443.7	448.0
42.5°	7449.8	5648.9	1572.5	597.4	500.8	430.5	386.5	373.4	382.2	386.5	390.9
45°	8548.0	6536.2	1937.1	575.4	461.2	390.9	347.0	347.0	351.4	351.4	351.4
47.5°	9589.0	7401.5	2319.3	571.0	426.1	351.4	316.3	320.7	320.7	325.1	325.1
50°	10573.0	8174.6	2705.8	584.2	395.3	316.3	289.9	289.9	289.9	294.3	289.9
52.5°	11394.4	8851.1	3110.0	606.2	364.6	289.9	263.6	263.6	263.6	267.9	263.6
55°	12171.9	9466.0	3522.9	636.9	338.2	267.9	241.6	232.8	232.8	237.2	232.8
57.5°	12804.4	9874.5	3913.8	641.3	316.3	246.0	224.0	210.8	210.8	210.8	210.8
60°	12830.7	9637.3	4028.0	562.3	289.9	224.0	202.1	184.5	188.9	188.9	188.9
62.5°	11991.8	8389.8	3237.3	421.7	259.2	202.1	184.5	166.9	166.9	166.9	166.9
65°	10344.5	6527.4	1897.6	333.8	224.0	180.1	162.5	149.3	149.3	149.3	145.0
66°	9571.4	5723.5	1453.9	303.1	210.8	175.7	158.1	145.0	140.6	136.2	136.2
67.5°	8310.8	4524.4	909.3	267.9	193.3	162.5	145.0	131.8	127.4	123.0	123.0
70°	6259.4	2872.8	443.7	206.5	166.9	140.6	127.4	114.2	109.8	105.4	101.0
72.5°	4392.6	1682.4	232.8	158.1	136.2	123.0	109.8	96.6	92.2	87.9	87.9
75°	2481.8	812.6	153.7	114.2	109.8	101.0	92.2	79.1	74.7	74.7	74.7
77.5°	940.0	281.1	105.4	83.5	87.9	79.1	65.9	65.9	61.5	65.9	61.5
80°	246.0	123.0	65.9	61.5	65.9	57.1	48.3	52.7	52.7	52.7	52.7
82.5°	131.8	70.3	39.5	43.9	39.5	39.5	30.7	35.1	39.5	35.1	39.5
85°	92.2	35.1	22.0	22.0	17.6	17.6	13.2	17.6	22.0	17.6	17.6
87.5°	48.3	13.2	13.2	13.2	13.2	8.8	4.4	0.0	4.4	4.4	4.4
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)