

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: P1211687

Luminaire Tested: **ARCH4-80-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211687
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: ARCH4-80-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14659 lumens
Efficiency: N/A
Efficacy: 175.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.4
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

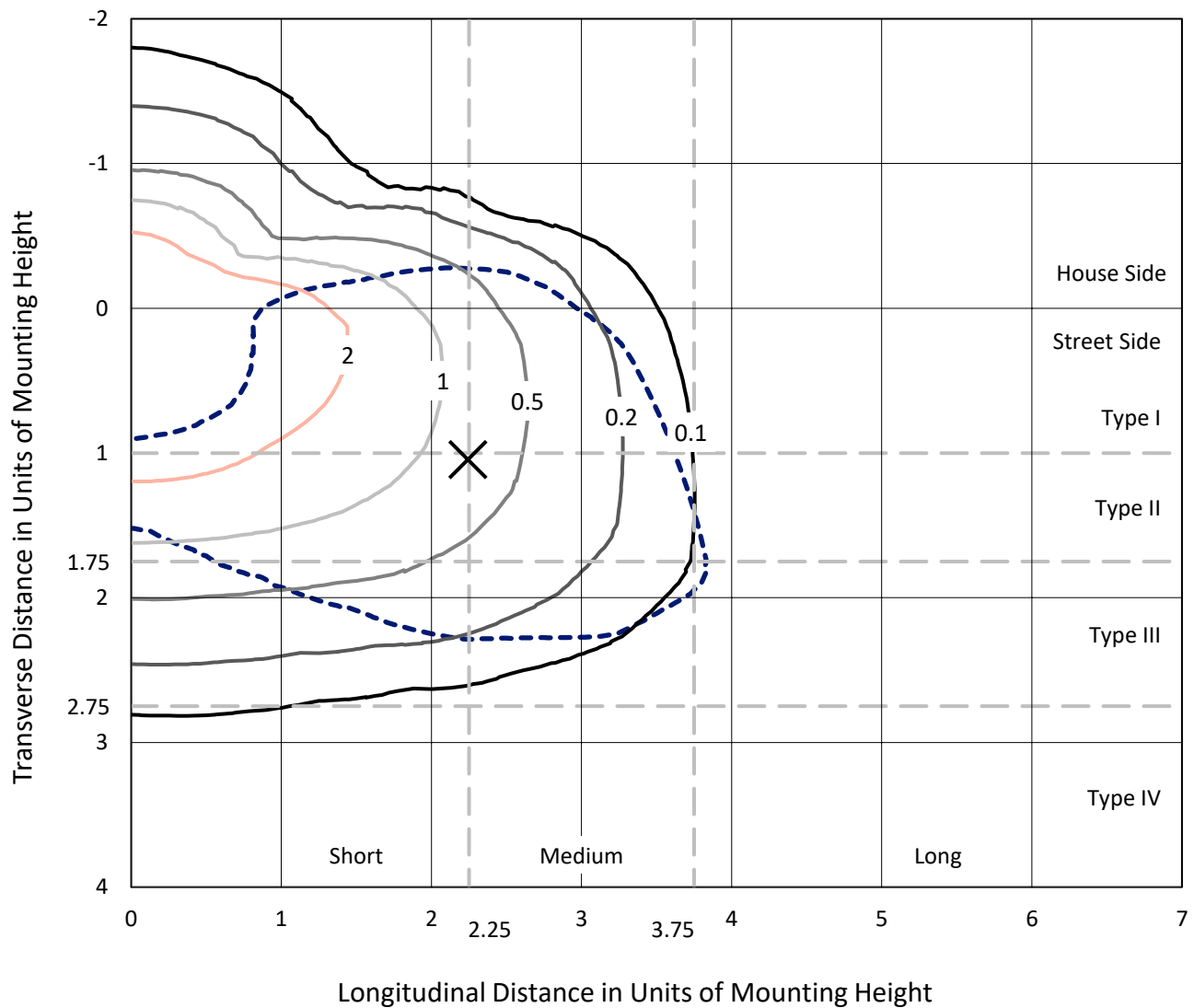


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Iso-Footcandle Lines of Horizontal Illumination

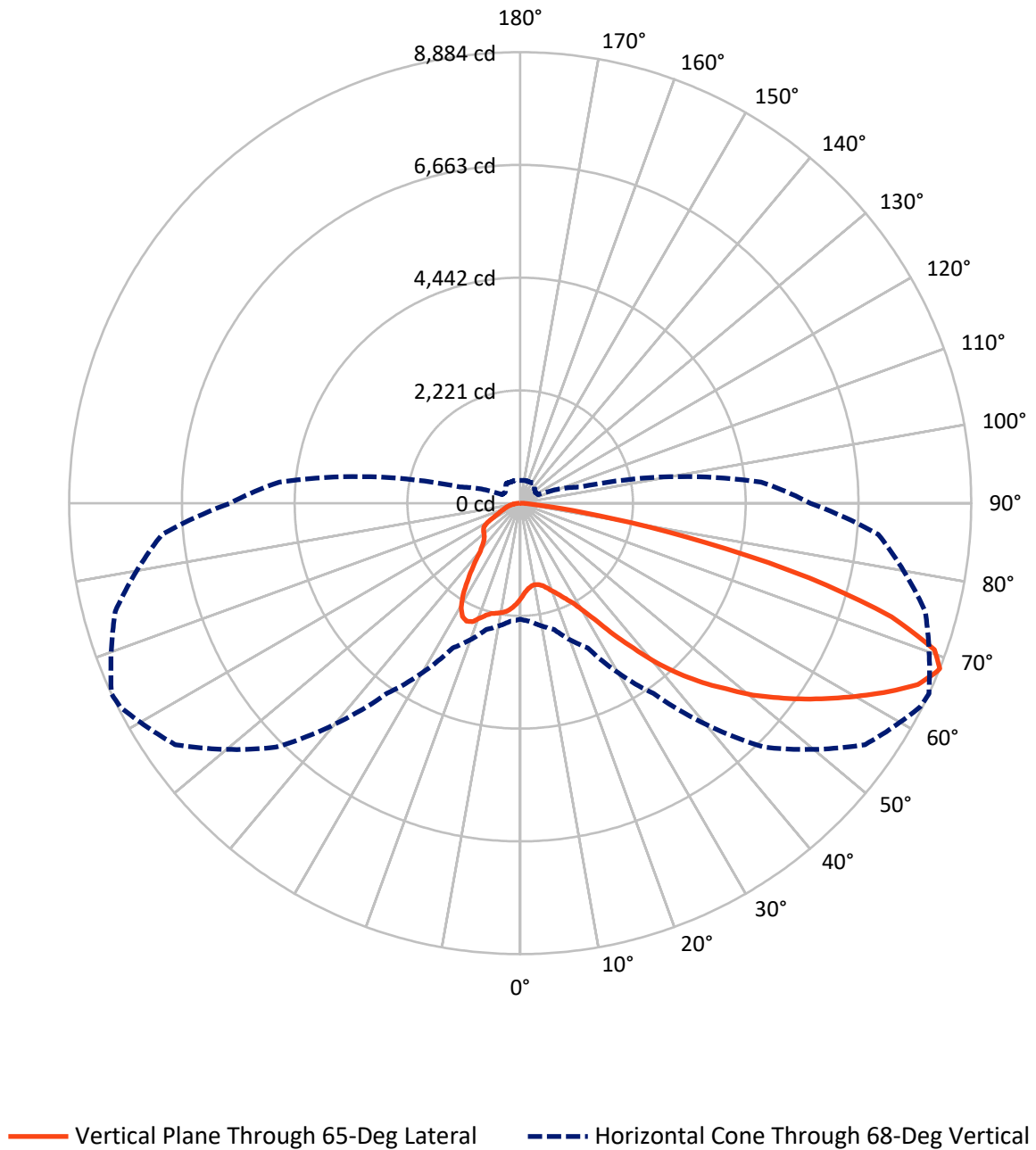
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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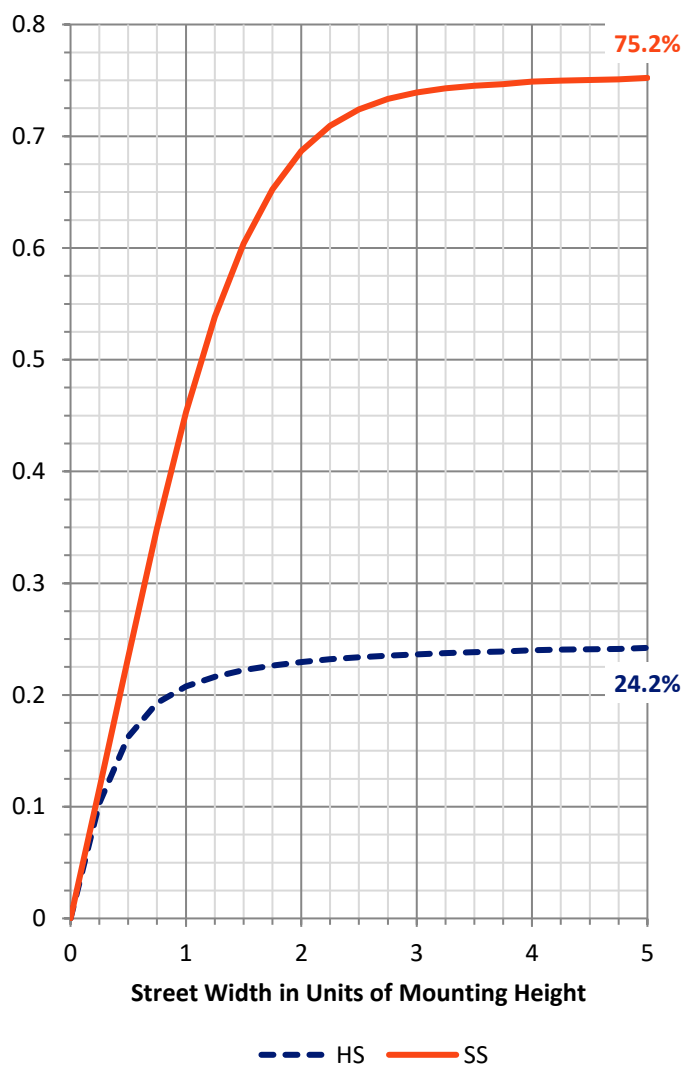
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3594.0	0.0	3594.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	11065.0	0.0	11065.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	14659.0	0.0	14659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	1.2
10°-20°	582.9	4.0
20°-30°	1055.0	7.2
30°-40°	1659.6	11.3
40°-50°	2471.9	16.9
50°-60°	3242.6	22.1
60°-70°	3546.0	24.2
70°-80°	1754.6	12.0
80°-90°	167.4	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°	14659.0	100.0
0°-180°	14659.0	100.0

Coefficient of Utilization



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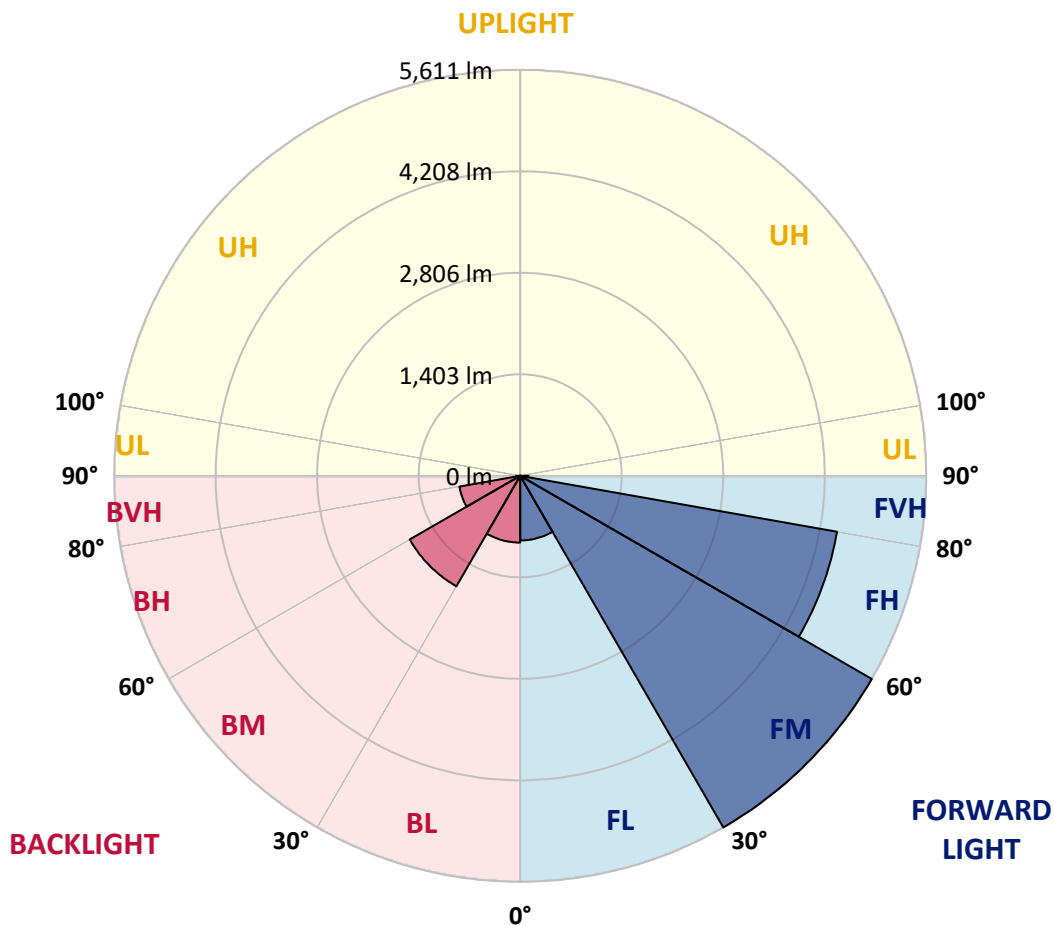
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	893.6	6.1			
FM	(30°-60°)	5611.3	38.3			
FH	(60°-80°)	4447.6	30.3			G2/5000
FVH	(80°-90°)	112.6	0.8			G2/225
BL	(0°-30°)	923.3	6.3	B2/1000		
BM	(30°-60°)	1762.8	12.0	B2/2500		
BH	(60°-80°)	853.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	54.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2
2.5°	1635.1	1631.3	1640.7	1650.2	1671.0	1695.6	1729.6	1757.9	1761.7	1814.6	1856.2
5°	1538.7	1533.0	1542.4	1553.8	1563.2	1593.5	1629.4	1671.0	1688.0	1765.5	1854.3
7.5°	1548.1	1546.2	1550.0	1546.2	1546.2	1559.5	1584.0	1625.6	1644.5	1737.1	1863.8
10°	1602.9	1606.7	1608.6	1597.3	1585.9	1580.3	1587.8	1616.2	1629.4	1739.0	1905.4
12.5°	1693.7	1699.3	1701.2	1680.4	1665.3	1640.7	1627.5	1638.9	1648.3	1757.9	1964.0
15°	1816.5	1820.3	1807.1	1793.9	1756.0	1725.8	1693.7	1684.2	1688.0	1797.6	2030.1
17.5°	1960.2	1954.5	1954.5	1922.4	1873.2	1826.0	1773.1	1765.5	1765.5	1861.9	2124.6
20°	2117.1	2122.8	2105.7	2062.3	2013.1	1939.4	1886.5	1852.4	1856.2	1935.6	2240.0
22.5°	2343.9	2353.4	2308.0	2245.6	2170.0	2085.0	2009.3	1954.5	1956.4	2032.0	2359.0
25°	2587.8	2591.5	2563.2	2480.0	2377.9	2257.0	2156.8	2086.8	2085.0	2139.8	2512.1
27.5°	2837.3	2854.3	2797.6	2718.2	2623.7	2472.5	2340.1	2245.6	2230.5	2304.2	2703.1
30°	3094.3	3115.1	3060.3	2982.8	2865.6	2737.1	2580.2	2470.6	2461.1	2559.4	2958.2
32.5°	3353.3	3359.0	3315.5	3251.2	3145.4	3024.4	2897.8	2776.8	2767.3	2928.0	3289.0
35°	3565.0	3582.0	3551.8	3536.7	3459.2	3347.6	3224.8	3154.8	3179.4	3385.4	3718.1
37.5°	3820.2	3837.2	3803.2	3799.4	3774.8	3678.4	3593.4	3599.0	3623.6	3903.4	4169.9
40°	4188.8	4207.7	4120.8	4082.9	4082.9	3988.4	3960.1	4094.3	4126.4	4413.7	4640.6
42.5°	4500.7	4530.9	4479.9	4455.3	4381.6	4315.5	4349.5	4538.5	4593.3	4901.4	5050.8
45°	4651.9	4674.6	4735.1	4806.9	4735.1	4619.8	4748.3	4961.9	5039.4	5351.3	5460.9
47.5°	4733.2	4754.0	4823.9	5016.7	5065.9	4969.5	5150.9	5417.5	5470.4	5797.4	5852.2
50°	4744.5	4810.7	4901.4	5094.2	5319.2	5332.4	5555.5	5880.6	5943.0	6235.9	6196.3
52.5°	4651.9	4678.4	4865.5	5190.6	5440.2	5667.0	5995.9	6324.8	6370.2	6648.0	6500.6
55°	4500.7	4538.5	4725.6	5168.0	5557.3	5984.5	6443.9	6761.4	6812.5	7048.8	6782.2
57.5°	4364.6	4383.5	4583.9	5101.8	5674.5	6302.1	6842.7	7217.0	7251.0	7400.3	6990.2
60°	4213.4	4234.2	4434.5	4960.0	5761.5	6542.2	7258.6	7676.3	7706.6	7770.8	7232.1
62.5°	3822.1	3876.9	4128.3	4725.6	5738.8	6816.3	7702.8	8130.0	8167.8	8097.8	7423.0
65°	3103.8	3181.3	3489.4	4194.5	5527.1	6993.9	8065.7	8547.7	8612.0	8343.6	7474.1
67.5°	2410.1	2464.9	2712.5	3328.7	4784.2	6905.1	8300.1	8835.0	8854.0	8303.9	7190.5
68°	2285.3	2340.1	2576.4	3147.3	4578.2	6799.2	8294.4	8842.6	8884.2	8260.4	7080.9
70°	1748.5	1810.9	2035.8	2493.2	3689.8	6126.3	7948.5	8661.1	8655.5	7734.9	6400.4
72.5°	1092.6	1128.5	1283.5	1572.7	2440.3	4661.4	6746.3	7638.5	7653.6	6305.9	4909.0
75°	693.7	693.7	686.2	761.8	1251.3	2655.8	5014.8	5880.6	5891.9	4415.6	3094.3
77.5°	603.0	586.0	504.7	427.2	499.0	1032.1	2967.7	3797.5	3735.1	2377.9	1468.7
80°	508.5	480.1	414.0	344.0	321.3	323.2	1139.8	1928.1	1844.9	856.3	487.7
82.5°	366.7	342.1	311.9	270.3	247.6	192.8	238.2	557.6	544.4	247.6	158.8
85°	198.5	179.6	175.8	177.7	149.3	119.1	100.2	122.9	122.9	107.7	90.7
87.5°	69.9	51.0	60.5	68.0	58.6	49.1	39.7	47.3	49.1	47.3	43.5
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°	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2	1873.2
2.5°	1880.8	1899.7	1945.1	1984.8	2013.1	2037.7	2050.9	2056.6	2069.8	2071.7	2067.9
5°	1895.9	1945.1	2013.1	2071.7	2103.9	2117.1	2120.9	2122.8	2117.1	2120.9	2117.1
7.5°	1935.6	1998.0	2094.4	2145.4	2151.1	2130.3	2132.2	2124.6	2132.2	2139.8	2139.8
10°	1996.1	2075.5	2166.2	2185.1	2160.6	2149.2	2171.9	2217.3	2232.4	2253.2	2253.2
12.5°	2075.5	2170.0	2234.3	2217.3	2194.6	2232.4	2298.5	2343.9	2359.0	2366.6	2360.9
15°	2166.2	2268.3	2300.4	2243.7	2285.3	2366.6	2389.3	2362.8	2325.0	2308.0	2317.5
17.5°	2281.5	2366.6	2347.7	2309.9	2404.4	2415.7	2342.0	2257.0	2196.5	2173.8	2188.9
20°	2402.5	2476.2	2389.3	2406.3	2464.9	2343.9	2204.0	2094.4	2041.5	2032.0	2047.1
22.5°	2531.1	2578.3	2430.9	2517.8	2430.9	2185.1	2016.9	1960.2	1947.0	1962.1	1975.3
25°	2676.6	2670.9	2502.7	2551.8	2304.2	1990.4	1890.3	1886.5	1886.5	1895.9	1914.8
27.5°	2841.1	2752.2	2574.5	2506.5	2085.0	1829.8	1810.9	1812.8	1807.1	1809.0	1818.4
30°	3032.0	2861.8	2653.9	2357.1	1839.2	1708.8	1701.2	1695.6	1682.3	1678.5	1682.3
32.5°	3272.0	2977.2	2735.2	2111.4	1623.7	1584.0	1580.3	1550.0	1517.9	1514.1	1527.3
35°	3576.4	3187.0	2776.8	1803.3	1446.0	1444.2	1430.9	1383.7	1342.1	1342.1	1332.6
37.5°	3924.2	3457.3	2793.8	1502.8	1298.6	1308.1	1270.3	1209.8	1177.6	1158.7	1164.4
40°	4279.5	3765.4	2791.9	1240.0	1170.1	1172.0	1143.6	1069.9	990.5	943.2	954.6
42.5°	4621.7	4045.1	2742.8	1100.1	1066.1	1060.4	1037.7	937.6	871.4	833.6	835.5
45°	4895.8	4334.4	2667.1	1017.0	971.6	981.0	930.0	869.5	809.0	775.0	773.1
47.5°	5169.8	4553.6	2546.2	965.9	901.7	884.6	863.8	822.3	776.9	739.1	741.0
50°	5419.4	4740.8	2432.8	931.9	837.4	793.9	797.7	773.1	733.4	699.4	697.5
52.5°	5595.2	4863.6	2370.4	913.0	759.9	712.6	725.9	712.6	674.8	650.2	648.4
55°	5770.9	4958.1	2391.2	888.4	674.8	637.0	659.7	655.9	635.1	627.6	629.5
57.5°	5912.7	5030.0	2464.9	843.1	593.5	570.9	608.7	597.3	582.2	584.1	584.1
60°	6050.7	5122.6	2551.8	739.1	523.6	525.5	561.4	540.6	531.2	548.2	550.1
62.5°	6194.4	5222.8	2480.0	587.9	463.1	476.3	517.9	500.9	504.7	529.3	536.8
65°	6177.4	5213.3	2020.7	482.0	410.2	436.6	499.0	493.4	495.2	504.7	508.5
67.5°	5829.5	4880.6	1389.3	410.2	372.4	404.5	483.9	461.2	463.1	457.4	459.3
68°	5712.3	4763.4	1224.9	398.8	364.8	397.0	476.3	455.6	457.4	451.8	449.9
70°	5073.4	4079.2	775.0	351.6	338.4	376.2	438.5	431.0	429.1	425.3	425.3
72.5°	3867.5	3011.2	408.3	304.3	308.1	344.0	391.3	406.4	397.0	398.8	410.2
75°	2561.3	1810.9	283.5	260.9	270.3	294.9	347.8	378.1	368.6	374.3	368.6
77.5°	1355.3	975.4	226.8	221.2	221.2	238.2	287.3	334.6	334.6	330.8	325.1
80°	444.2	344.0	181.5	173.9	177.7	187.1	230.6	274.1	279.8	272.2	268.4
82.5°	149.3	158.8	136.1	126.6	130.4	138.0	173.9	209.8	211.7	196.6	192.8
85°	92.6	105.9	85.1	83.2	83.2	85.1	105.9	115.3	105.9	94.5	98.3
87.5°	43.5	52.9	39.7	34.0	28.4	24.6	18.9	7.6	7.6	3.8	3.8
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)