

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: P1211703

Luminaire Tested: **ARCH4-90-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211703
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: ARCH4-90-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13553 lumens
Efficiency: N/A
Efficacy: 145.6 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

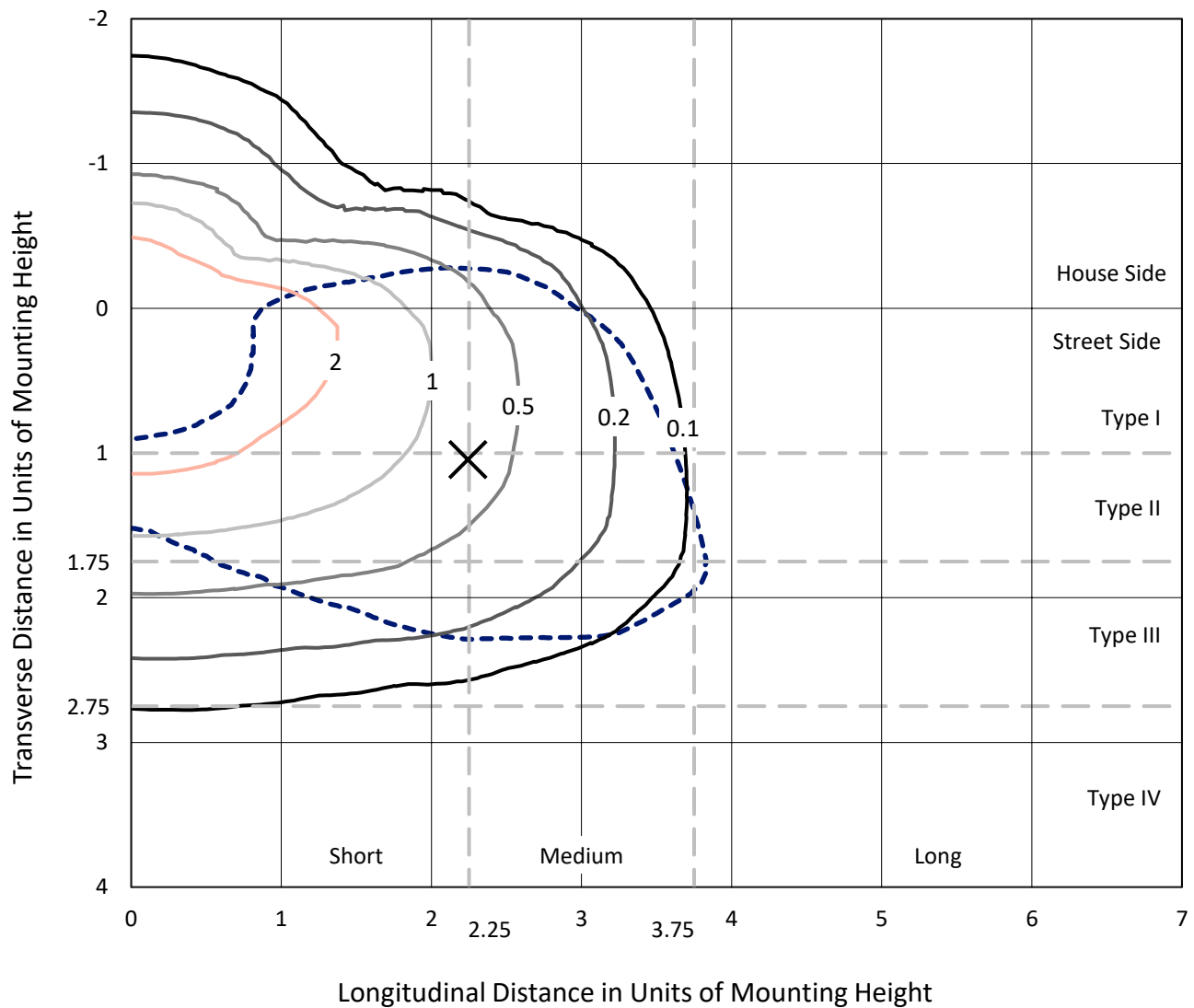
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

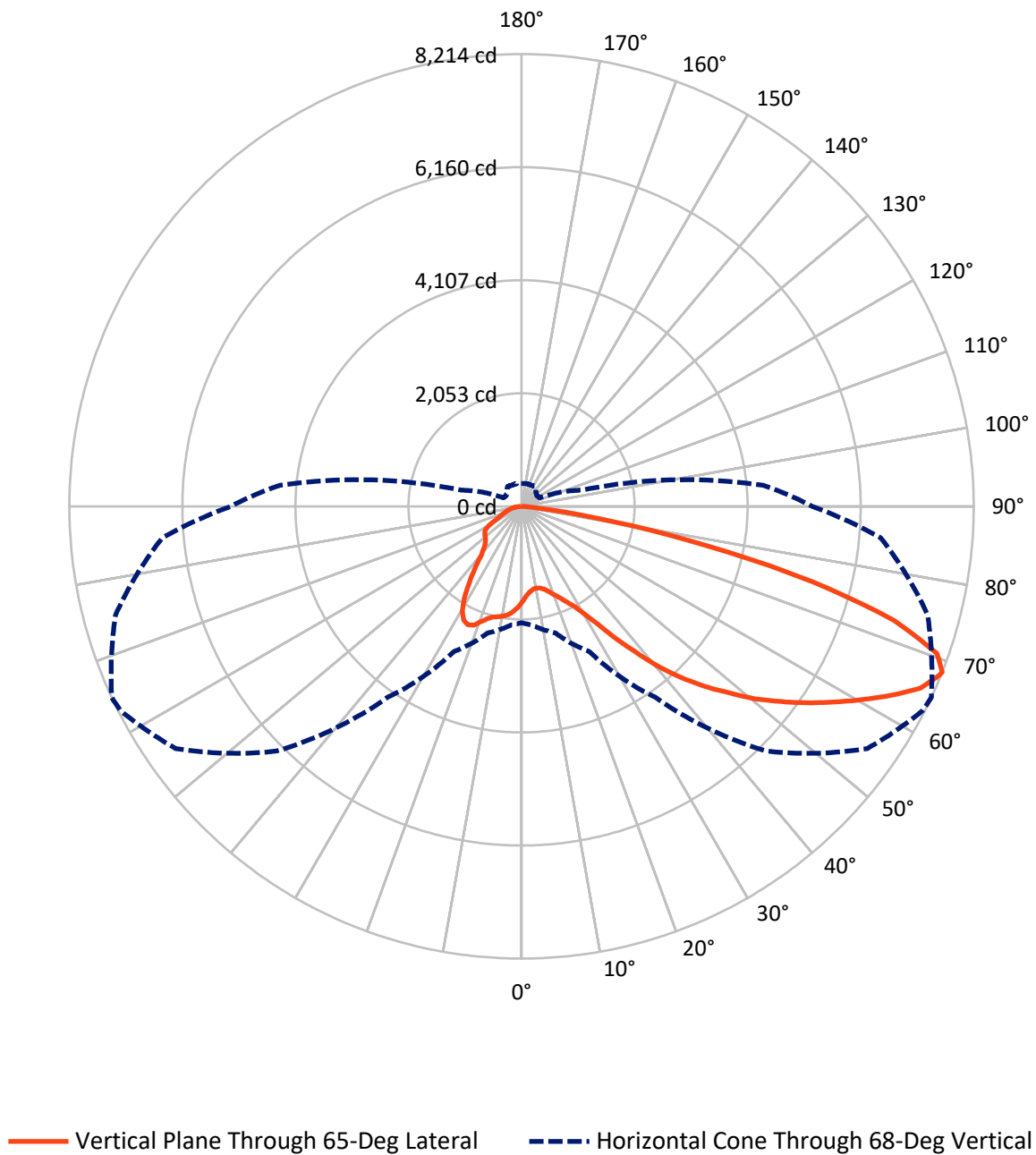
✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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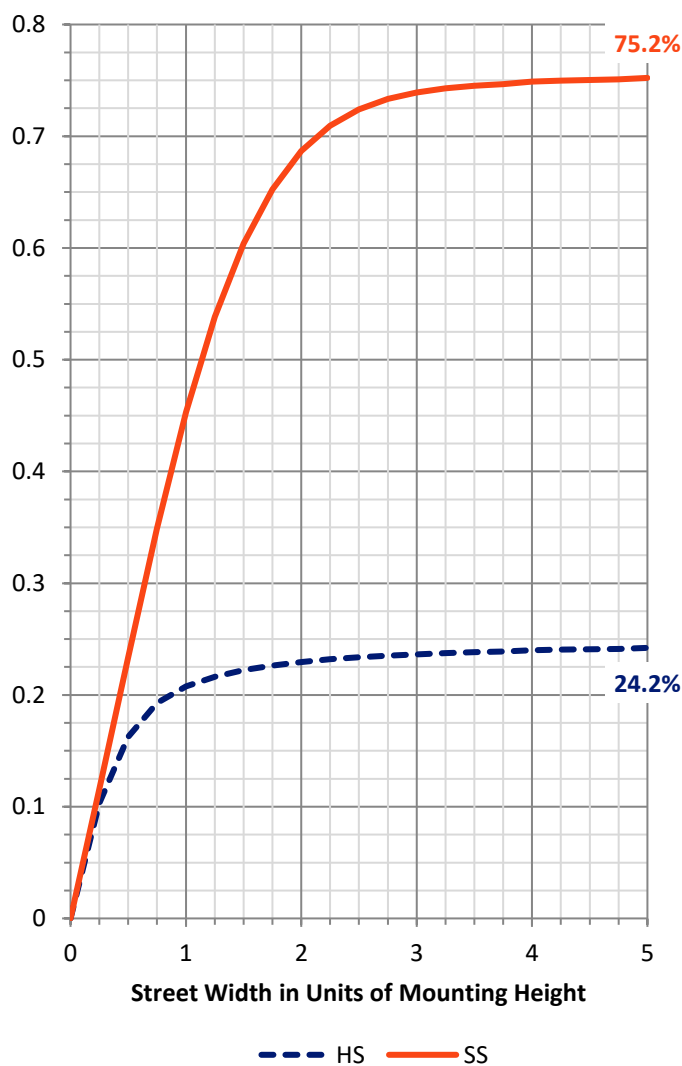
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3322.8	0.0	3322.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	10230.2	0.0	10230.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	13553.0	0.0	13553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	1.2
10°-20°	538.9	4.0
20°-30°	975.4	7.2
30°-40°	1534.4	11.3
40°-50°	2285.4	16.9
50°-60°	2997.9	22.1
60°-70°	3278.4	24.2
70°-80°	1622.3	12.0
80°-90°	154.7	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°	13553.0	100.0
0°-180°	13553.0	100.0

Coefficient of Utilization



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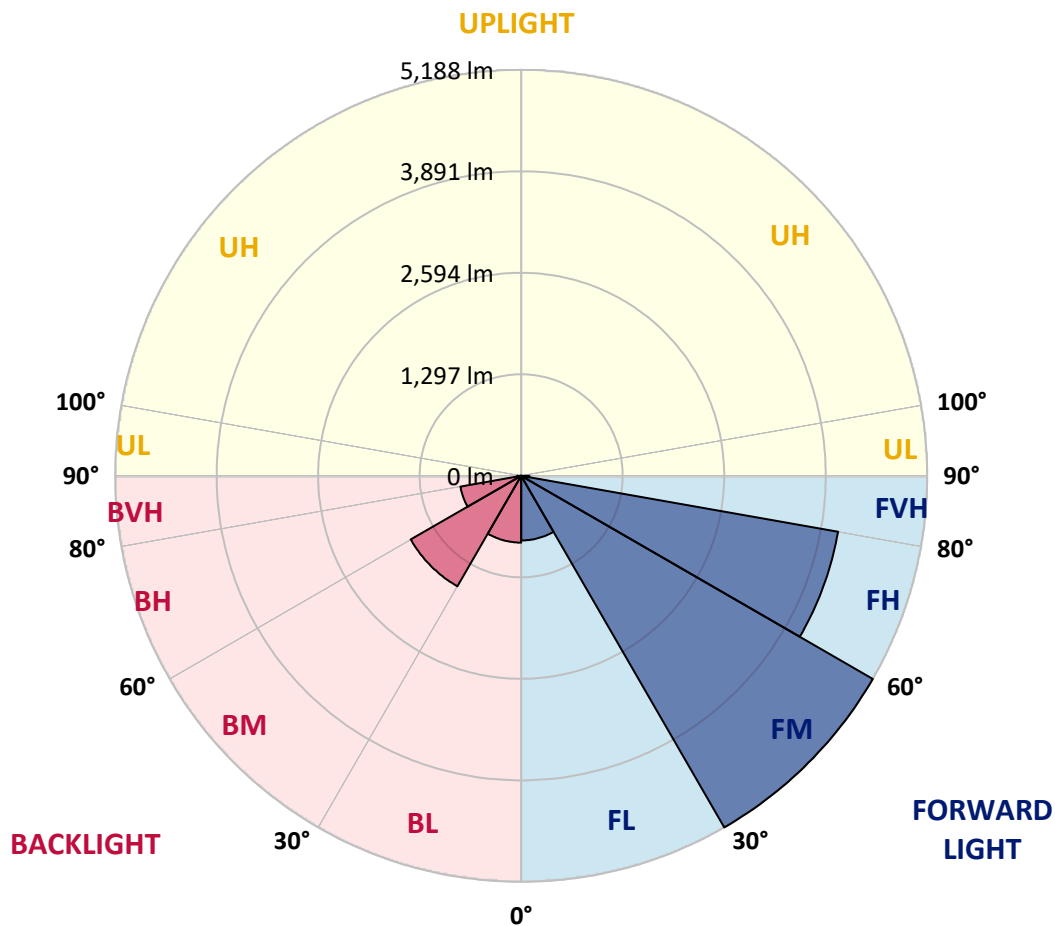
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	826.2	6.1			
FM	(30°-60°)	5187.9	38.3			
FH	(60°-80°)	4112.0	30.3			G2/5000
FVH	(80°-90°)	104.1	0.8			G2/225
BL	(0°-30°)	853.7	6.3	B2/1000		
BM	(30°-60°)	1629.8	12.0	B2/2500		
BH	(60°-80°)	788.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	50.7	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°	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9
2.5°	1511.7	1508.2	1516.9	1525.7	1544.9	1567.6	1599.1	1625.3	1628.8	1677.7	1716.2
5°	1422.6	1417.3	1426.1	1436.6	1445.3	1473.3	1506.5	1544.9	1560.6	1632.3	1714.4
7.5°	1431.3	1429.6	1433.1	1429.6	1429.6	1441.8	1464.5	1503.0	1520.4	1606.1	1723.2
10°	1482.0	1485.5	1487.2	1476.8	1466.3	1461.0	1468.0	1494.2	1506.5	1607.8	1761.6
12.5°	1565.9	1571.1	1572.9	1553.6	1539.7	1516.9	1504.7	1515.2	1523.9	1625.3	1815.8
15°	1679.5	1683.0	1670.7	1658.5	1623.6	1595.6	1565.9	1557.1	1560.6	1662.0	1877.0
17.5°	1812.3	1807.1	1807.1	1777.3	1731.9	1688.2	1639.3	1632.3	1632.3	1721.4	1964.3
20°	1957.4	1962.6	1946.9	1906.7	1861.2	1793.1	1744.1	1712.7	1716.2	1789.6	2071.0
22.5°	2167.1	2175.8	2133.9	2076.2	2006.3	1927.6	1857.7	1807.1	1808.8	1878.7	2181.1
25°	2392.5	2396.0	2369.8	2292.9	2198.5	2086.7	1994.1	1929.4	1927.6	1978.3	2322.6
27.5°	2623.2	2638.9	2586.5	2513.1	2425.7	2285.9	2163.6	2076.2	2062.2	2130.4	2499.1
30°	2860.9	2880.1	2829.4	2757.8	2649.4	2530.6	2385.5	2284.2	2275.4	2366.3	2735.1
32.5°	3100.3	3105.6	3065.4	3005.9	2908.1	2796.2	2679.1	2567.3	2558.5	2707.1	3040.9
35°	3296.0	3311.8	3283.8	3269.8	3198.2	3095.1	2981.5	2916.8	2939.5	3130.0	3437.6
37.5°	3532.0	3547.7	3516.2	3512.8	3490.0	3400.9	3322.3	3327.5	3350.2	3608.9	3855.3
40°	3872.8	3890.2	3809.8	3774.9	3774.9	3687.5	3661.3	3785.4	3815.1	4080.7	4290.4
42.5°	4161.1	4189.1	4141.9	4119.2	4051.0	3989.9	4021.3	4196.1	4246.8	4531.6	4669.7
45°	4300.9	4321.9	4377.8	4444.2	4377.8	4271.2	4390.1	4587.5	4659.2	4947.6	5048.9
47.5°	4376.1	4395.3	4460.0	4638.2	4683.7	4594.5	4762.3	5008.7	5057.7	5360.0	5410.7
50°	4386.6	4447.7	4531.6	4709.9	4917.9	4930.1	5136.3	5436.9	5494.6	5765.5	5728.8
52.5°	4300.9	4325.4	4498.4	4799.0	5029.7	5239.4	5543.5	5847.6	5889.5	6146.4	6010.1
55°	4161.1	4196.1	4369.1	4778.0	5138.1	5533.0	5957.7	6251.3	6298.5	6516.9	6270.5
57.5°	4035.3	4052.8	4238.0	4716.9	5246.4	5826.6	6326.4	6672.5	6703.9	6842.0	6462.8
60°	3895.5	3914.7	4100.0	4585.8	5326.8	6048.6	6710.9	7097.2	7125.1	7184.5	6686.5
62.5°	3533.7	3584.4	3816.8	4369.1	5305.8	6302.0	7121.6	7516.6	7551.5	7486.9	6863.0
65°	2869.6	2941.3	3226.1	3878.0	5110.1	6466.3	7457.2	7902.8	7962.2	7714.1	6910.2
67.5°	2228.2	2278.9	2507.9	3077.6	4423.3	6384.1	7673.9	8168.5	8185.9	7677.4	6648.0
68°	2112.9	2163.6	2382.0	2909.8	4232.8	6286.3	7668.6	8175.4	8213.9	7637.2	6546.6
70°	1616.6	1674.2	1882.2	2305.1	3411.4	5664.1	7348.8	8007.7	8002.4	7151.3	5917.5
72.5°	1010.1	1043.3	1186.6	1454.0	2256.2	4309.7	6237.3	7062.2	7076.2	5830.1	4538.6
75°	641.4	641.4	634.4	704.3	1156.9	2455.4	4636.5	5436.9	5447.4	4082.5	2860.9
77.5°	557.5	541.8	466.6	395.0	461.4	954.2	2743.8	3511.0	3453.3	2198.5	1357.9
80°	470.1	443.9	382.7	318.1	297.1	298.8	1053.8	1782.6	1705.7	791.7	450.9
82.5°	339.0	316.3	288.4	249.9	228.9	178.3	220.2	515.6	503.3	228.9	146.8
85°	183.5	166.0	162.5	164.3	138.1	110.1	92.6	113.6	113.6	99.6	83.9
87.5°	64.7	47.2	55.9	62.9	54.2	45.4	36.7	43.7	45.4	43.7	40.2
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°	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9	1731.9
2.5°	1738.9	1756.4	1798.3	1835.0	1861.2	1884.0	1896.2	1901.4	1913.7	1915.4	1911.9
5°	1752.9	1798.3	1861.2	1915.4	1945.1	1957.4	1960.8	1962.6	1957.4	1960.8	1957.4
7.5°	1789.6	1847.3	1936.4	1983.6	1988.8	1969.6	1971.3	1964.3	1971.3	1978.3	1978.3
10°	1845.5	1918.9	2002.8	2020.3	1997.5	1987.1	2008.0	2050.0	2064.0	2083.2	2083.2
12.5°	1918.9	2006.3	2065.7	2050.0	2029.0	2064.0	2125.1	2167.1	2181.1	2188.0	2182.8
15°	2002.8	2097.2	2126.9	2074.4	2112.9	2188.0	2209.0	2184.5	2149.6	2133.9	2142.6
17.5°	2109.4	2188.0	2170.6	2135.6	2223.0	2233.5	2165.3	2086.7	2030.8	2009.8	2023.8
20°	2221.2	2289.4	2209.0	2224.7	2278.9	2167.1	2037.7	1936.4	1887.4	1878.7	1892.7
22.5°	2340.1	2383.8	2247.5	2327.9	2247.5	2020.3	1864.7	1812.3	1800.1	1814.0	1826.3
25°	2474.7	2469.4	2313.9	2359.3	2130.4	1840.3	1747.6	1744.1	1744.1	1752.9	1770.4
27.5°	2626.7	2544.6	2380.3	2317.4	1927.6	1691.7	1674.2	1676.0	1670.7	1672.5	1681.2
30°	2803.2	2645.9	2453.7	2179.3	1700.5	1579.9	1572.9	1567.6	1555.4	1551.9	1555.4
32.5°	3025.2	2752.5	2528.8	1952.1	1501.2	1464.5	1461.0	1433.1	1403.4	1399.9	1412.1
35°	3306.5	2946.5	2567.3	1667.2	1336.9	1335.2	1323.0	1279.3	1240.8	1240.8	1232.1
37.5°	3628.1	3196.4	2583.0	1389.4	1200.6	1209.4	1174.4	1118.5	1088.8	1071.3	1076.5
40°	3956.7	3481.3	2581.3	1146.5	1081.8	1083.5	1057.3	989.2	915.8	872.1	882.6
42.5°	4273.0	3739.9	2535.8	1017.1	985.7	980.4	959.5	866.8	805.7	770.7	772.5
45°	4526.4	4007.3	2465.9	940.2	898.3	907.0	859.8	803.9	748.0	716.5	714.8
47.5°	4779.8	4210.1	2354.1	893.0	833.6	817.9	798.7	760.2	718.3	683.3	685.1
50°	5010.5	4383.1	2249.2	861.6	774.2	734.0	737.5	714.8	678.1	646.6	644.9
52.5°	5173.0	4496.7	2191.5	844.1	702.6	658.9	671.1	658.9	623.9	601.2	599.4
55°	5335.5	4584.1	2210.8	821.4	623.9	589.0	609.9	606.4	587.2	580.2	582.0
57.5°	5466.6	4650.5	2278.9	779.4	548.8	527.8	562.7	552.3	538.3	540.0	540.0
60°	5594.2	4736.1	2359.3	683.3	484.1	485.8	519.0	499.8	491.1	506.8	508.6
62.5°	5727.0	4828.7	2292.9	543.5	428.2	440.4	478.9	463.1	466.6	489.3	496.3
65°	5711.3	4820.0	1868.2	445.6	379.2	403.7	461.4	456.1	457.9	466.6	470.1
67.5°	5389.7	4512.4	1284.5	379.2	344.3	374.0	447.4	426.4	428.2	422.9	424.7
68°	5281.4	4404.0	1132.5	368.8	337.3	367.0	440.4	421.2	422.9	417.7	415.9
70°	4690.7	3771.4	716.5	325.1	312.8	347.8	405.5	398.5	396.7	393.2	393.2
72.5°	3575.7	2784.0	377.5	281.4	284.9	318.1	361.8	375.7	367.0	368.8	379.2
75°	2368.0	1674.2	262.1	241.2	249.9	272.6	321.6	349.5	340.8	346.0	340.8
77.5°	1253.1	901.8	209.7	204.5	204.5	220.2	265.6	309.3	309.3	305.8	300.6
80°	410.7	318.1	167.8	160.8	164.3	173.0	213.2	253.4	258.7	251.7	248.2
82.5°	138.1	146.8	125.8	117.1	120.6	127.6	160.8	194.0	195.7	181.8	178.3
85°	85.6	97.9	78.6	76.9	76.9	78.6	97.9	106.6	97.9	87.4	90.9
87.5°	40.2	48.9	36.7	31.5	26.2	22.7	17.5	7.0	7.0	3.5	3.5
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)