

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: P842658

Luminaire Tested: **ARCH4-80-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

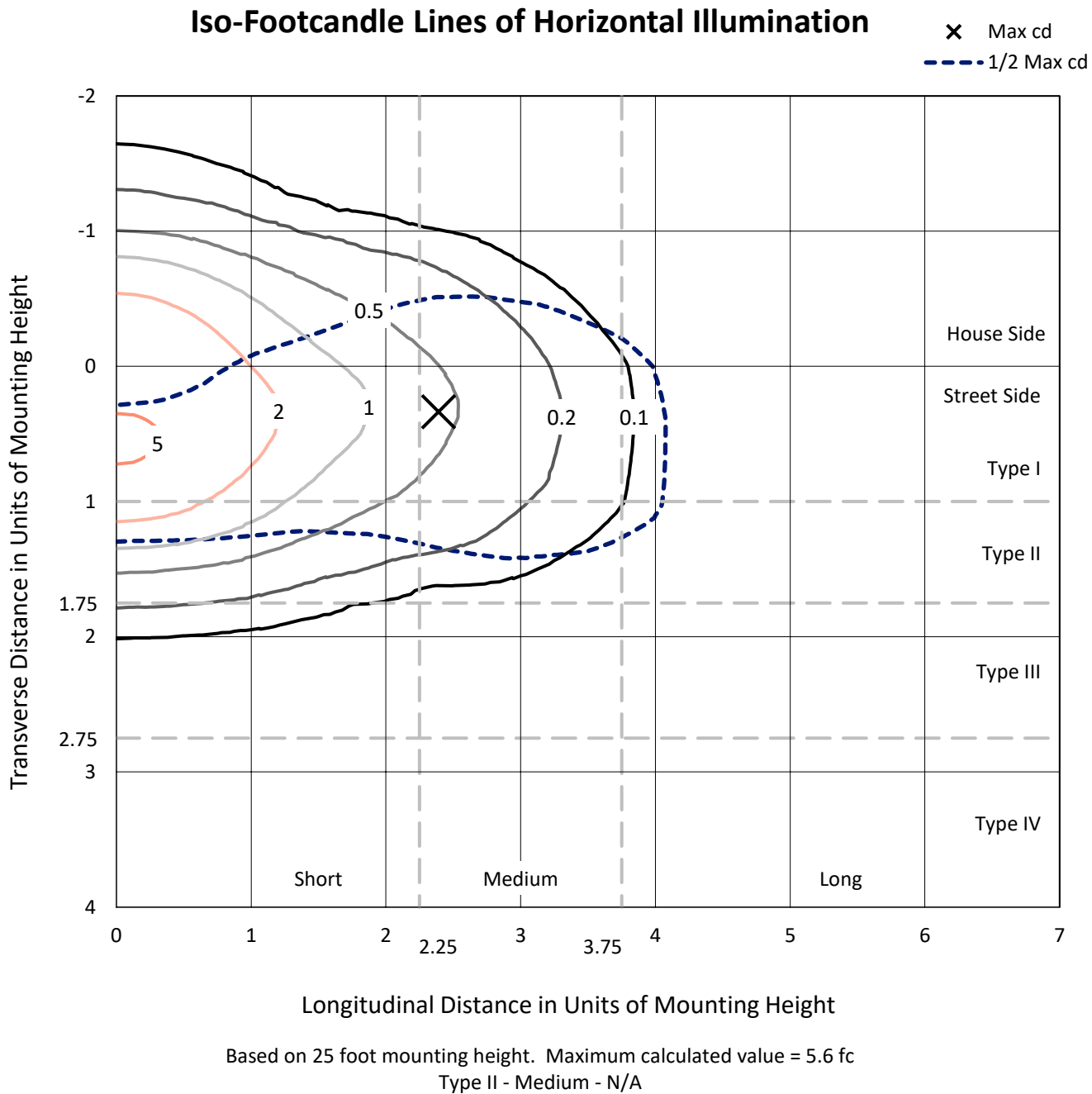
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12671 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
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

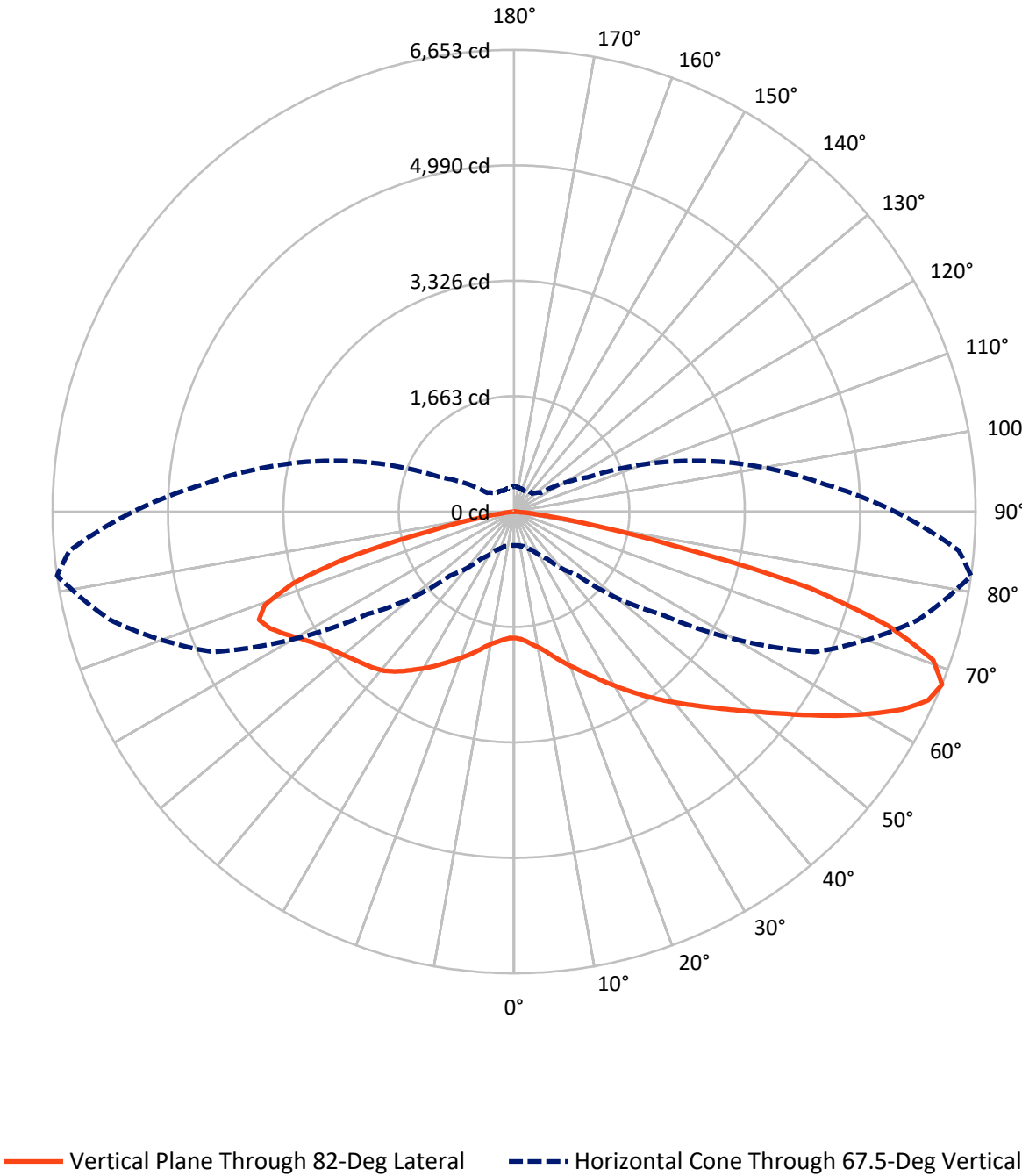


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Luminous Intensity Polar Plot



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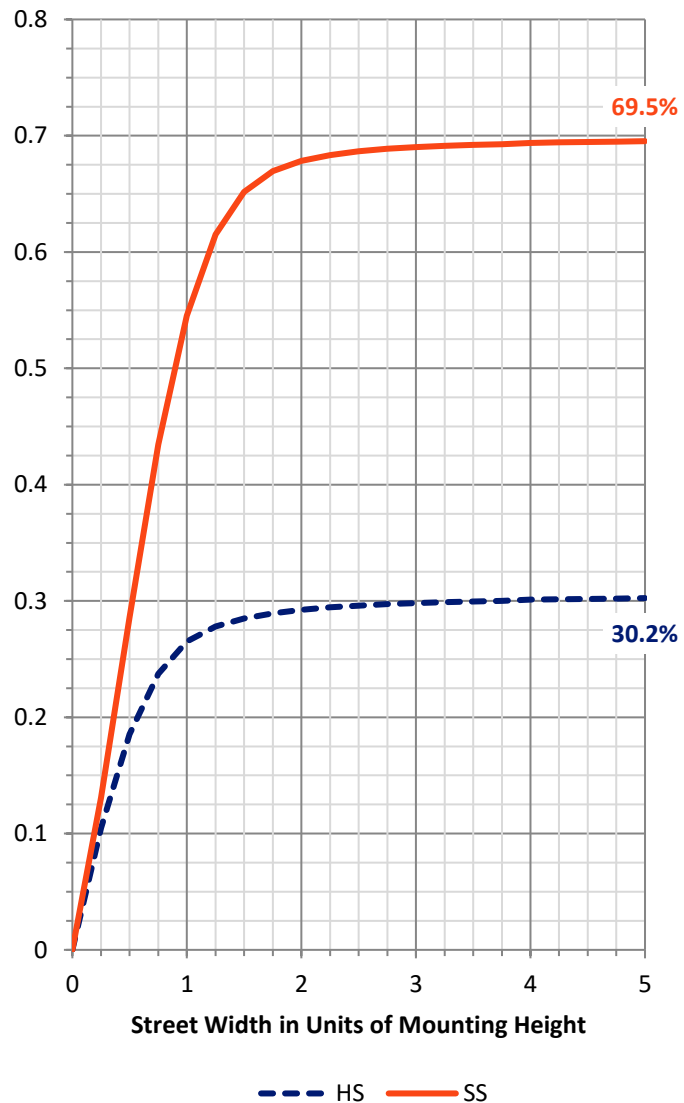
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3858.8	0.0	3858.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8812.2	0.0	8812.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	12671.0	0.0	12671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	1.5
10°-20°	678.0	5.4
20°-30°	1362.7	10.8
30°-40°	2140.6	16.9
40°-50°	2607.7	20.6
50°-60°	2464.0	19.4
60°-70°	2034.7	16.1
70°-80°	1108.0	8.7
80°-90°	87.1	0.7
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°	12671.0	100.0
0°-180°	12671.0	100.0

Coefficient of Utilization



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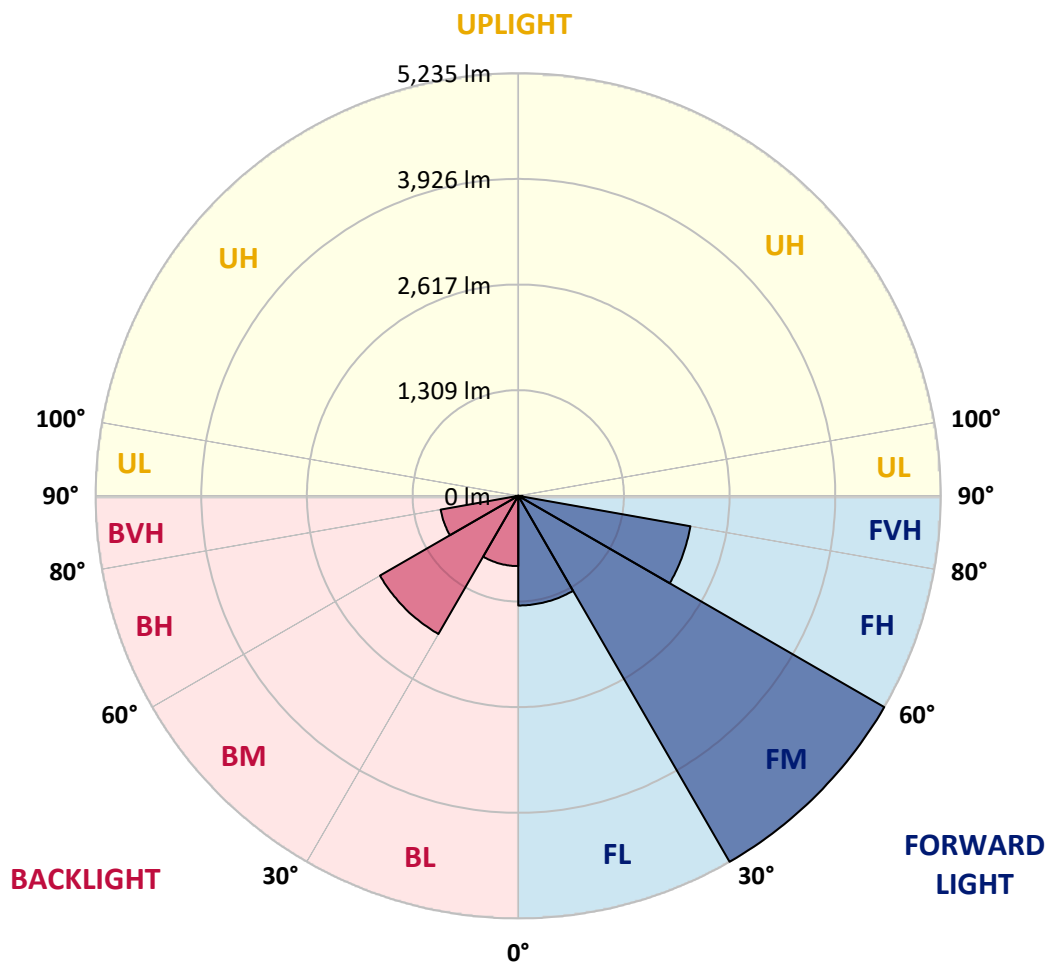
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1358.8	10.7			
FM	(30°-60°)	5234.9	41.3			
FH	(60°-80°)	2165.9	17.1			G2/5000
FVH	(80°-90°)	52.5	0.4			G1/100
BL	(0°-30°)	870.2	6.9	B2/1000		
BM	(30°-60°)	1977.3	15.6	B2/2500		
BH	(60°-80°)	976.7	7.7	B2/1000		G2/1000
BVH	(80°-90°)	34.6	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4
2.5°	1904.2	1904.2	1919.0	1919.0	1906.1	1885.8	1880.3	1858.2	1838.0	1838.0	1839.8
5°	2086.4	2084.5	2095.6	2080.9	2049.6	2009.1	1981.5	1933.7	1893.2	1880.3	1878.5
7.5°	2309.0	2307.2	2312.7	2288.8	2229.9	2163.7	2108.5	2031.2	1965.0	1937.4	1930.0
10°	2557.4	2555.5	2550.0	2509.6	2430.4	2327.4	2244.6	2137.9	2038.6	1994.4	1985.2
12.5°	2842.6	2838.9	2826.0	2767.1	2658.6	2526.1	2406.5	2268.5	2136.1	2075.3	2055.1
15°	3160.9	3155.3	3131.4	3059.7	2914.3	2746.9	2592.3	2415.7	2253.8	2174.7	2147.1
17.5°	3495.7	3495.7	3458.9	3352.2	3190.3	2982.4	2791.0	2566.6	2377.1	2279.6	2246.5
20°	3836.1	3834.2	3788.2	3659.5	3468.1	3228.9	2986.1	2739.5	2504.0	2386.3	2345.8
22.5°	4194.9	4191.2	4134.1	3987.0	3758.8	3488.4	3205.0	2910.6	2643.9	2502.2	2450.7
25°	4607.0	4601.5	4531.5	4351.2	4080.8	3775.4	3451.6	3111.2	2803.9	2631.0	2570.3
27.5°	5044.9	5037.5	4954.7	4745.0	4448.8	4080.8	3723.9	3343.0	2980.6	2774.5	2706.4
30°	5434.9	5429.4	5339.2	5124.0	4783.6	4384.4	3983.3	3574.8	3166.4	2927.2	2842.6
32.5°	5729.3	5729.3	5648.3	5436.8	5083.5	4675.1	4244.5	3793.8	3359.6	3090.9	2991.6
35°	5907.8	5913.3	5843.4	5674.1	5341.1	4949.2	4515.0	4051.3	3565.6	3265.7	3159.0
37.5°	5933.5	5951.9	5911.4	5797.4	5519.5	5177.3	4779.9	4299.7	3779.0	3442.4	3322.8
40°	5813.9	5826.8	5828.6	5784.5	5593.1	5341.1	5013.6	4562.8	4005.3	3628.2	3490.2
42.5°	5574.7	5583.9	5600.5	5613.4	5539.8	5412.8	5192.1	4807.5	4246.4	3817.7	3655.8
45°	5265.6	5263.8	5291.4	5346.6	5342.9	5372.4	5291.4	5030.1	4496.6	4032.9	3839.8
47.5°	4803.8	4794.6	4892.2	5017.3	5079.8	5217.8	5293.2	5204.9	4768.9	4270.3	4049.5
50°	4080.8	4071.6	4285.0	4579.4	4763.4	4973.1	5192.1	5309.8	5054.1	4537.1	4277.6
52.5°	3201.3	3192.1	3462.6	3977.8	4378.8	4684.3	4987.8	5333.7	5324.5	4835.1	4535.2
55°	2380.8	2373.4	2636.5	3194.0	3843.4	4349.4	4737.6	5271.2	5578.4	5177.3	4848.0
57.5°	1677.9	1674.3	1902.4	2364.2	3155.3	3941.0	4496.6	5149.7	5812.1	5549.0	5201.3
60°	1177.5	1172.0	1337.6	1694.5	2386.3	3324.6	4257.4	4987.8	5986.9	5915.1	5576.6
62.5°	793.0	789.3	907.0	1205.1	1694.5	2559.2	3895.0	4879.3	6086.2	6283.1	5955.6
65°	601.6	599.8	653.1	816.9	1199.6	1838.0	3319.1	4866.4	6099.1	6559.1	6277.6
67.5°	485.7	487.6	517.0	610.8	829.8	1306.3	2573.9	4785.4	6031.0	6652.9	6433.9
70°	397.4	397.4	410.3	472.8	612.7	881.3	1797.5	4417.5	5841.5	6408.2	6248.1
72.5°	303.6	305.4	345.9	382.7	461.8	618.2	1151.7	3655.8	5394.4	5650.2	5528.7
75°	241.0	239.2	263.1	314.6	358.8	441.6	706.5	2621.8	4590.4	4415.6	4338.4
77.5°	172.9	171.1	189.5	233.7	272.3	312.8	421.3	1322.9	2496.7	2294.3	2237.3
80°	117.8	114.1	130.6	161.9	180.3	184.0	206.1	507.8	1089.2	1026.6	1013.8
82.5°	60.7	60.7	69.9	92.0	93.8	95.7	92.0	163.7	360.6	336.7	322.0
85°	23.9	23.9	25.8	31.3	31.3	33.1	33.1	42.3	38.6	36.8	35.0
87.5°	1.8	1.8	3.7	3.7	5.5	5.5	5.5	7.4	9.2	9.2	9.2
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°	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4
2.5°	1836.2	1828.8	1804.9	1799.4	1795.7	1790.2	1792.0	1779.1	1773.6	1775.5	1768.1
5°	1869.3	1856.4	1827.0	1814.1	1810.4	1804.9	1810.4	1801.2	1792.0	1795.7	1792.0
7.5°	1915.3	1896.9	1860.1	1847.2	1845.4	1839.8	1847.2	1839.8	1832.5	1836.2	1828.8
10°	1963.1	1939.2	1898.7	1885.8	1885.8	1884.0	1891.4	1880.3	1873.0	1874.8	1871.1
12.5°	2033.0	2001.8	1957.6	1946.6	1941.0	1946.6	1948.4	1933.7	1920.8	1922.6	1917.1
15°	2117.7	2082.7	2034.9	2018.3	2014.6	2012.8	2005.4	1987.0	1970.5	1968.6	1963.1
17.5°	2209.7	2165.5	2108.5	2091.9	2075.3	2069.8	2051.4	2027.5	2001.8	2001.8	1994.4
20°	2298.0	2248.3	2180.2	2156.3	2132.4	2110.3	2079.0	2040.4	2007.3	2001.8	1994.4
22.5°	2393.6	2334.8	2255.7	2220.7	2178.4	2134.2	2080.9	2029.4	1987.0	1977.8	1972.3
25°	2500.4	2426.8	2332.9	2281.4	2213.3	2145.3	2066.1	1999.9	1950.2	1935.5	1931.8
27.5°	2618.1	2529.8	2415.7	2340.3	2240.9	2134.2	2033.0	1953.9	1893.2	1874.8	1869.3
30°	2737.7	2632.8	2491.2	2380.8	2240.9	2099.3	1972.3	1880.3	1810.4	1784.7	1781.0
32.5°	2857.3	2739.5	2559.2	2402.8	2218.9	2040.4	1893.2	1784.7	1705.5	1674.3	1681.6
35°	3000.8	2857.3	2621.8	2412.0	2182.1	1968.6	1803.1	1676.1	1595.1	1567.6	1573.1
37.5°	3149.8	2975.0	2671.5	2404.7	2130.5	1887.7	1701.9	1578.6	1477.4	1429.6	1435.1
40°	3278.6	3081.7	2706.4	2378.9	2064.3	1795.7	1602.5	1440.6	1300.8	1254.8	1249.3
42.5°	3400.0	3160.9	2724.8	2340.3	1988.9	1689.0	1460.8	1252.9	1113.1	1056.1	1057.9
45°	3527.0	3238.1	2717.5	2288.8	1895.0	1563.9	1278.7	1069.0	945.7	894.2	896.0
47.5°	3672.3	3320.9	2710.1	2233.6	1781.0	1402.0	1103.9	907.0	800.3	763.5	759.9
50°	3826.9	3412.9	2700.9	2165.5	1654.0	1221.7	931.0	756.2	666.0	642.1	636.6
52.5°	4001.7	3512.3	2695.4	2084.5	1501.3	1030.3	776.4	623.7	563.0	546.4	544.6
55°	4211.4	3628.2	2702.7	1987.0	1317.3	850.0	645.8	537.2	496.8	487.6	485.7
57.5°	4467.2	3777.2	2724.8	1873.0	1124.1	693.6	550.1	483.9	458.1	450.8	450.8
60°	4745.0	3946.5	2765.3	1744.2	931.0	572.2	487.6	441.6	430.5	439.7	439.7
62.5°	5044.9	4145.2	2837.0	1587.8	750.7	483.9	437.9	406.6	399.2	417.6	419.5
65°	5322.7	4338.4	2883.0	1400.1	596.1	419.5	399.2	371.6	375.3	393.7	391.9
67.5°	5493.8	4498.4	2818.6	1164.6	472.8	371.6	358.8	334.9	344.1	358.8	360.6
70°	5388.9	4408.3	2500.4	879.4	369.8	323.8	314.6	299.9	307.3	325.7	333.0
72.5°	4875.6	3948.3	1944.7	594.3	298.1	272.3	276.0	268.6	277.8	294.4	310.9
75°	3957.5	2984.2	1304.5	380.8	235.5	231.8	237.3	231.8	235.5	252.1	261.3
77.5°	2066.1	1455.3	649.5	237.3	174.8	180.3	189.5	191.3	202.4	206.1	209.7
80°	964.1	655.0	270.5	132.5	115.9	126.9	145.3	147.2	150.9	156.4	158.2
82.5°	314.6	196.9	125.1	71.8	66.2	71.8	93.8	112.2	114.1	125.1	125.1
85°	33.1	20.2	27.6	29.4	25.8	31.3	42.3	40.5	18.4	11.0	11.0
87.5°	9.2	7.4	9.2	9.2	7.4	7.4	5.5	1.8	0.0	0.0	0.0
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)