

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: P842628

Luminaire Tested: **ARCH4-70-740-U-T4W**

Issue Date: 5/27/2024

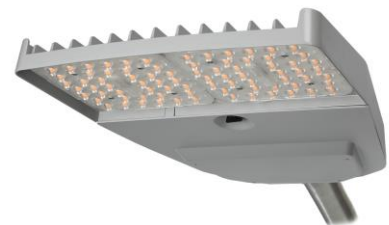
Test Information

Test Method: LM-79-08
Report Number: P842628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13171 lumens
Efficiency: N/A
Efficacy: 178.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.8
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

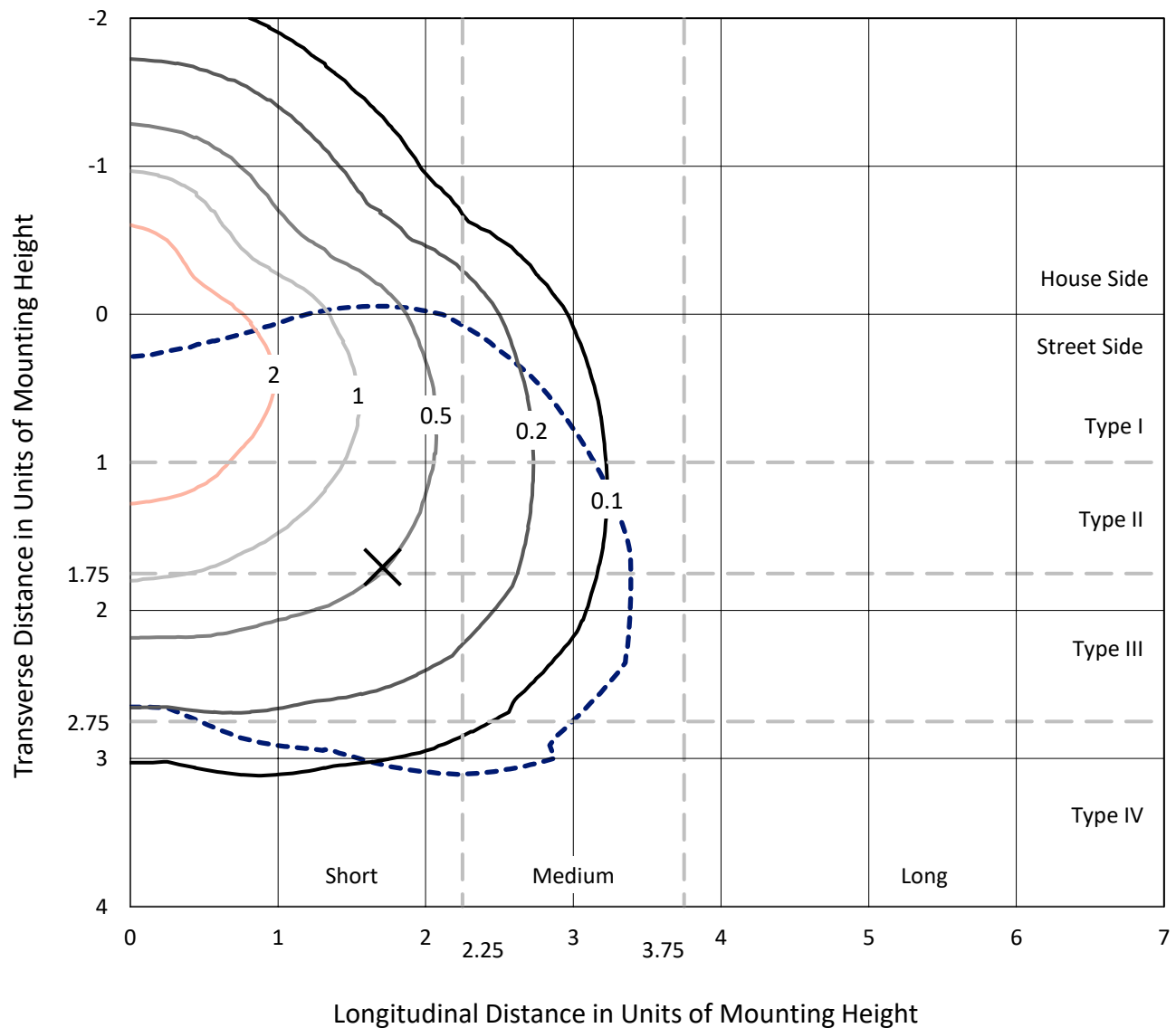


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Iso-Footcandle Lines of Horizontal Illumination

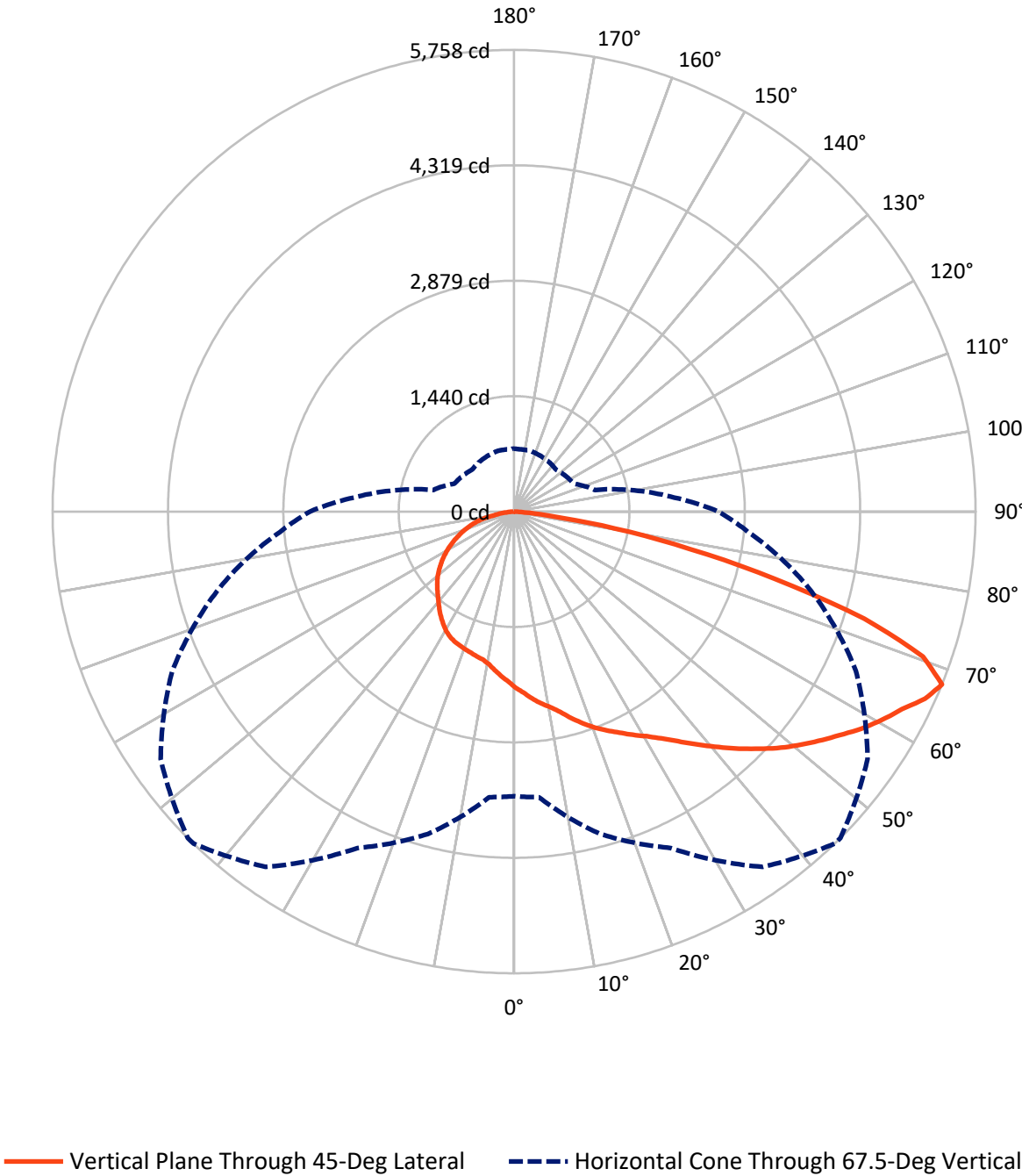
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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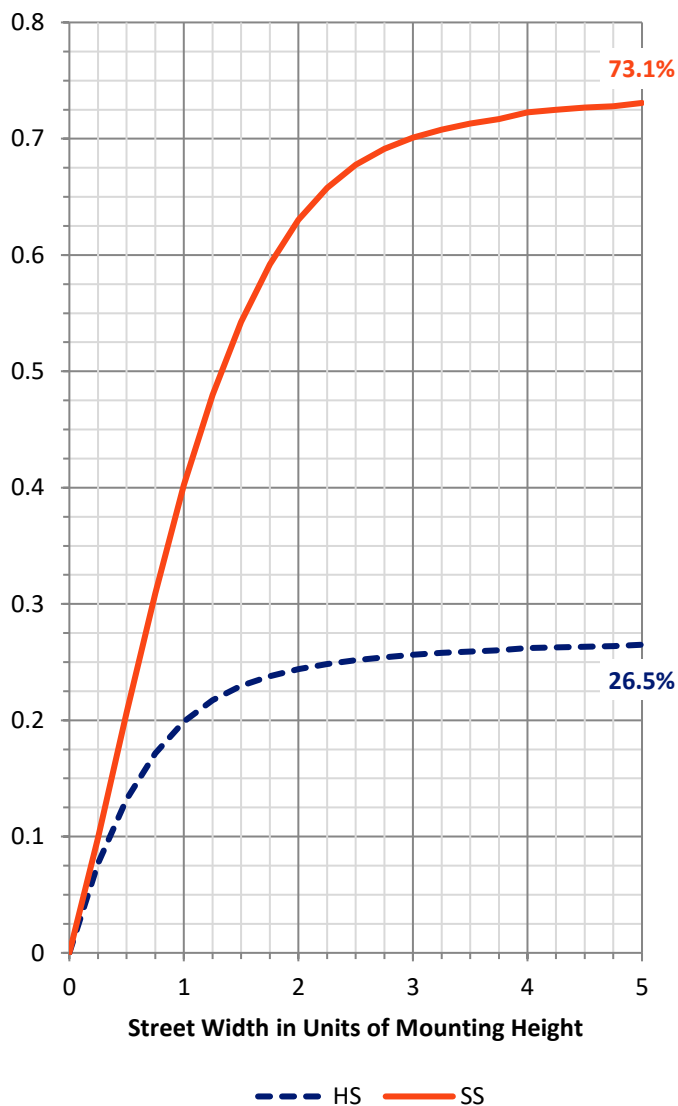
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3518.6	0.0	3518.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	9652.4	0.0	9652.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	13171.0	0.0	13171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	1.6
10°-20°	649.7	4.9
20°-30°	1121.5	8.5
30°-40°	1653.8	12.6
40°-50°	2240.5	17.0
50°-60°	2738.5	20.8
60°-70°	2824.3	21.4
70°-80°	1547.0	11.7
80°-90°	185.4	1.4
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°	13171.0	100.0
0°-180°	13171.0	100.0

Coefficient of Utilization



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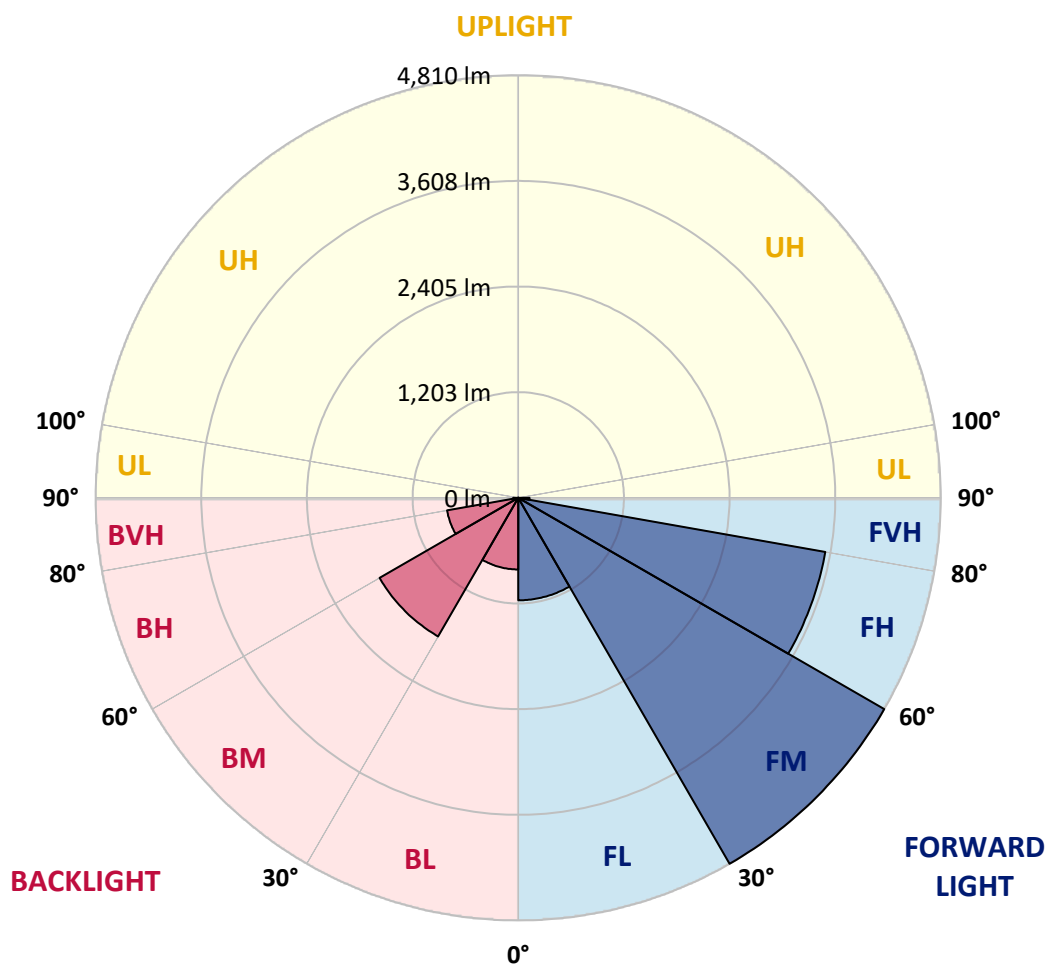
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1166.0	8.9			
FM	(30°-60°)	4810.2	36.5			
FH	(60°-80°)	3548.5	26.9			G2/5000
FVH	(80°-90°)	127.7	1.0			G2/225
BL	(0°-30°)	815.5	6.2	B2/1000		
BM	(30°-60°)	1822.6	13.8	B2/2500		
BH	(60°-80°)	822.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	57.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7
2.5°	2292.9	2290.9	2294.9	2280.9	2262.8	2260.8	2260.8	2248.8	2234.8	2206.7	2184.6
5°	2401.1	2397.1	2399.1	2379.1	2355.0	2343.0	2341.0	2314.9	2282.9	2238.8	2198.7
7.5°	2501.3	2497.3	2495.3	2473.3	2437.2	2417.1	2415.1	2377.1	2339.0	2270.8	2212.7
10°	2595.5	2591.5	2587.5	2557.4	2513.3	2483.3	2479.3	2431.2	2383.1	2298.9	2224.7
12.5°	2715.8	2707.8	2703.8	2667.7	2603.5	2571.5	2565.5	2501.3	2441.2	2339.0	2248.8
15°	2842.0	2836.0	2830.0	2795.9	2723.8	2681.7	2671.7	2591.5	2509.3	2391.1	2284.9
17.5°	2936.2	2930.2	2930.2	2900.2	2834.0	2785.9	2777.9	2681.7	2579.5	2439.2	2312.9
20°	2994.4	2988.4	2994.4	2976.3	2926.2	2886.1	2878.1	2771.9	2649.6	2483.3	2337.0
22.5°	3036.5	3030.4	3040.5	3032.5	2996.4	2972.3	2966.3	2862.1	2721.8	2529.4	2361.0
25°	3110.6	3110.6	3110.6	3096.6	3062.5	3054.5	3054.5	2964.3	2814.0	2589.5	2397.1
27.5°	3258.9	3250.9	3240.9	3200.8	3142.7	3140.7	3152.7	3068.5	2920.2	2667.7	2441.2
30°	3477.4	3473.4	3435.3	3351.1	3252.9	3242.9	3250.9	3180.8	3034.5	2749.8	2491.3
32.5°	3760.0	3746.0	3667.8	3541.5	3401.2	3355.1	3371.2	3297.0	3154.7	2834.0	2539.4
35°	3960.4	3964.4	3908.3	3794.1	3627.7	3505.5	3517.5	3427.3	3285.0	2928.2	2599.5
37.5°	4190.9	4204.9	4120.8	4034.6	3880.3	3671.8	3683.8	3561.6	3415.3	3046.5	2663.7
40°	4509.6	4481.5	4339.2	4237.0	4066.7	3846.2	3856.2	3711.9	3565.6	3158.7	2737.8
42.5°	4776.2	4726.1	4553.7	4423.4	4219.0	4030.6	4040.6	3874.2	3717.9	3283.0	2820.0
45°	5159.0	5020.7	4772.2	4708.0	4375.3	4211.0	4221.0	4046.6	3878.3	3415.3	2908.2
47.5°	5381.4	5161.0	5002.6	4968.6	4547.7	4397.4	4409.4	4229.0	4050.6	3565.6	3000.4
50°	5367.4	5225.1	5179.0	5094.8	4700.0	4571.7	4583.8	4417.4	4225.0	3713.9	3088.6
52.5°	5275.2	5301.3	5277.2	5136.9	4852.3	4740.1	4754.1	4603.8	4403.4	3852.2	3170.7
55°	5417.5	5435.6	5389.5	5205.1	5020.7	4908.4	4924.5	4800.2	4579.7	3974.5	3240.9
57.5°	5587.9	5523.8	5477.7	5325.3	5195.1	5090.8	5108.9	5000.6	4732.1	4072.7	3295.0
60°	5579.9	5445.6	5491.7	5333.3	5313.3	5259.2	5275.2	5165.0	4848.3	4144.8	3317.1
62.5°	5169.0	5096.8	5329.3	5275.2	5409.5	5409.5	5429.6	5265.2	4918.5	4174.9	3305.0
65°	4455.5	4459.5	4868.4	5092.8	5523.8	5615.9	5632.0	5327.3	4878.4	4086.7	3192.8
67.5°	3549.6	3575.6	4162.9	4629.8	5409.5	5756.2	5758.2	5383.5	4706.0	3838.2	2932.2
70°	2597.5	2617.6	3311.0	3878.3	4870.4	5445.6	5413.5	5225.1	4331.2	3405.2	2525.4
72.5°	1755.7	1773.8	2487.3	2978.3	3996.5	4637.9	4567.7	4617.8	3691.9	2798.0	2030.3
75°	1180.5	1202.6	1769.8	2130.5	2940.3	3521.5	3365.2	3497.4	2856.1	2118.5	1481.2
77.5°	743.6	757.6	1124.4	1397.0	2008.3	2397.1	2240.8	2242.8	1645.5	1140.4	795.7
80°	473.0	477.0	681.4	805.7	1162.5	1441.1	1274.7	1036.2	741.6	605.3	475.0
82.5°	274.6	268.6	406.9	455.0	553.2	547.2	453.0	428.9	324.7	302.6	242.5
85°	110.2	102.2	178.4	166.4	168.4	178.4	132.3	132.3	106.2	82.2	60.1
87.5°	22.0	22.0	24.1	22.0	22.0	24.1	18.0	18.0	16.0	16.0	16.0
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°	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7	2196.7
2.5°	2180.6	2176.6	2166.6	2140.6	2126.5	2118.5	2106.5	2102.5	2100.5	2102.5	2108.5
5°	2186.7	2172.6	2144.6	2102.5	2074.4	2056.4	2036.3	2028.3	2022.3	2022.3	2028.3
7.5°	2190.7	2168.6	2120.5	2058.4	2018.3	1990.2	1966.2	1956.2	1954.2	1960.2	1962.2
10°	2192.7	2160.6	2092.5	2014.3	1962.2	1926.1	1902.0	1896.0	1902.0	1914.1	1916.1
12.5°	2206.7	2162.6	2076.4	1984.2	1922.1	1886.0	1868.0	1868.0	1884.0	1906.1	1908.1
15°	2230.7	2176.6	2068.4	1960.2	1896.0	1864.0	1858.0	1868.0	1892.0	1926.1	1930.1
17.5°	2248.8	2184.6	2050.4	1928.1	1862.0	1841.9	1851.9	1876.0	1910.1	1956.2	1960.2
20°	2260.8	2184.6	2024.3	1890.0	1827.9	1823.9	1851.9	1890.0	1926.1	1980.2	1986.2
22.5°	2272.8	2180.6	1994.2	1843.9	1789.8	1801.8	1853.9	1902.0	1938.1	1996.2	2006.3
25°	2294.9	2186.7	1964.2	1797.8	1749.7	1783.8	1851.9	1910.1	1948.1	2008.3	2024.3
27.5°	2324.9	2200.7	1942.1	1755.7	1709.6	1755.7	1837.9	1908.1	1948.1	2006.3	2024.3
30°	2357.0	2216.7	1916.1	1709.6	1663.5	1715.6	1807.8	1886.0	1932.1	1986.2	2008.3
32.5°	2391.1	2234.8	1894.0	1659.5	1607.4	1661.5	1763.8	1851.9	1902.0	1952.2	1976.2
35°	2437.2	2266.8	1882.0	1619.4	1557.3	1605.4	1707.6	1807.8	1862.0	1908.1	1936.1
37.5°	2493.3	2306.9	1876.0	1579.4	1503.2	1543.3	1647.5	1753.7	1811.9	1849.9	1876.0
40°	2557.4	2357.0	1874.0	1541.3	1449.1	1479.1	1585.4	1691.6	1747.7	1777.8	1799.8
42.5°	2629.6	2413.1	1870.0	1503.2	1395.0	1419.0	1525.2	1629.5	1677.6	1703.6	1723.7
45°	2705.8	2469.3	1862.0	1457.1	1336.8	1364.9	1463.1	1555.3	1605.4	1627.5	1649.5
47.5°	2781.9	2525.4	1845.9	1405.0	1284.7	1310.8	1397.0	1477.1	1517.2	1537.3	1559.3
50°	2856.1	2575.5	1807.8	1344.9	1230.6	1254.7	1320.8	1374.9	1405.0	1421.0	1443.1
52.5°	2922.2	2609.6	1753.7	1274.7	1176.5	1188.5	1232.6	1278.7	1302.8	1304.8	1324.8
55°	2978.3	2627.6	1675.6	1202.6	1118.4	1120.4	1144.4	1180.5	1190.5	1182.5	1196.5
57.5°	3010.4	2617.6	1589.4	1128.4	1058.3	1050.2	1068.3	1086.3	1088.3	1068.3	1082.3
60°	3018.4	2571.5	1477.1	1054.2	998.1	976.1	982.1	978.1	974.1	966.1	978.1
62.5°	2978.3	2473.3	1352.9	982.1	934.0	899.9	897.9	895.9	901.9	903.9	905.9
65°	2832.0	2288.9	1204.6	907.9	865.8	819.7	817.7	841.8	849.8	837.8	841.8
67.5°	2549.4	2006.3	1042.2	821.7	779.7	739.6	755.6	769.6	783.7	779.7	783.7
70°	2148.6	1647.5	893.9	725.5	685.5	663.4	681.4	693.5	695.5	691.5	695.5
72.5°	1689.6	1286.7	755.6	627.3	591.3	581.2	603.3	613.3	631.3	639.4	641.4
75°	1220.6	950.0	619.3	521.1	491.0	491.0	511.1	529.1	545.2	535.1	529.1
77.5°	681.4	567.2	444.9	358.8	364.8	392.8	400.9	420.9	436.9	434.9	430.9
80°	412.9	354.8	300.6	232.5	230.5	252.5	304.6	338.7	346.7	328.7	326.7
82.5°	214.5	186.4	160.3	130.3	144.3	168.4	176.4	212.5	234.5	226.5	236.5
85°	54.1	52.1	58.1	60.1	74.2	82.2	90.2	106.2	70.1	34.1	34.1
87.5°	16.0	16.0	20.0	20.0	26.1	32.1	30.1	30.1	16.0	2.0	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)