

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: P842561

Luminaire Tested: **ARCH4-60-750-U-T2U**

Issue Date: 5/27/2024

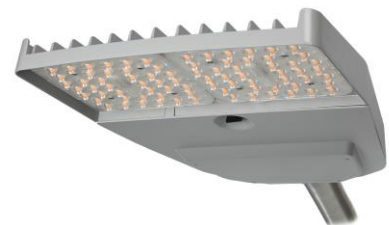
Test Information

Test Method: LM-79-08
Report Number: P842561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11675 lumens
Efficiency: N/A
Efficacy: 185.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 63
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



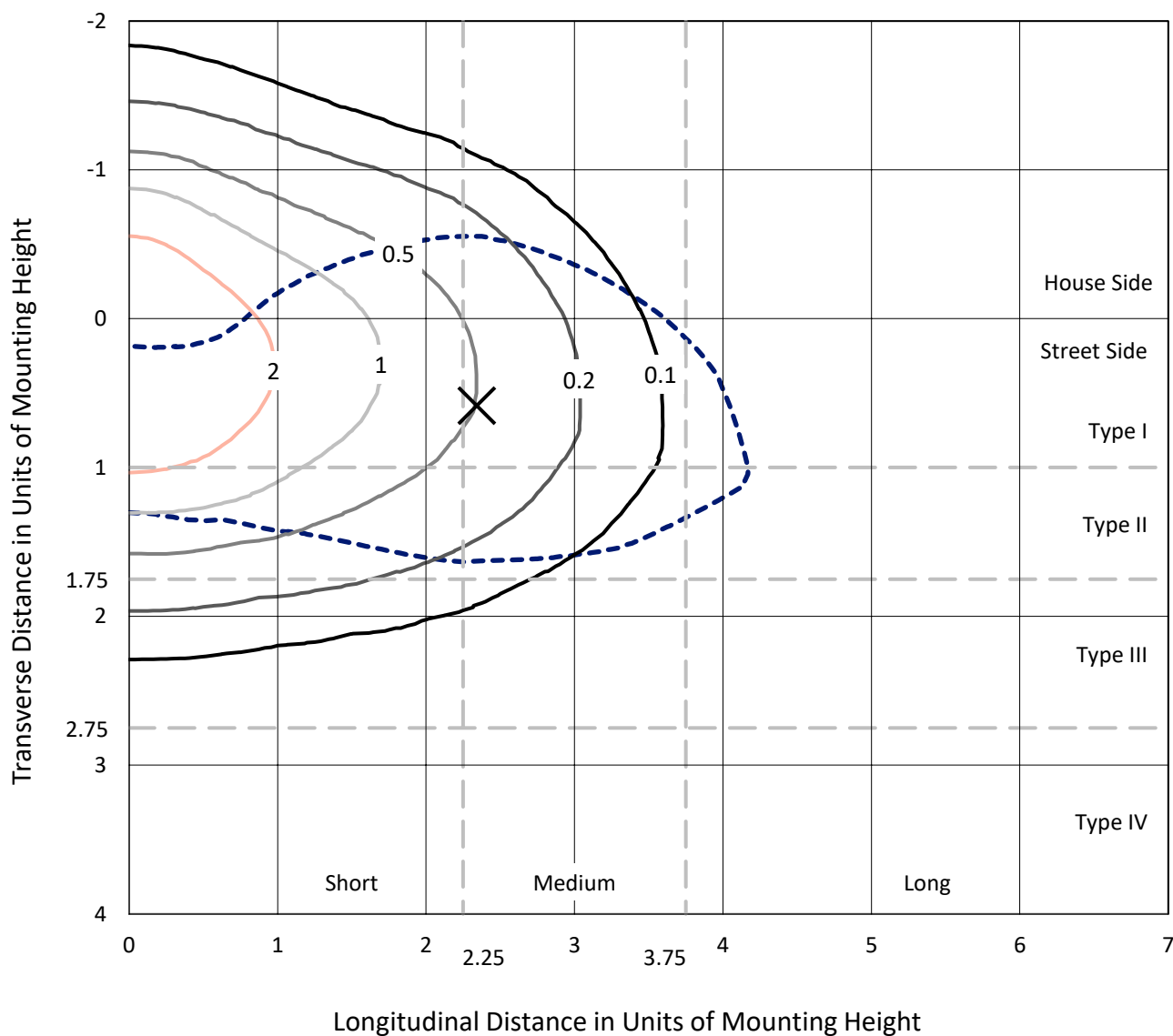
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

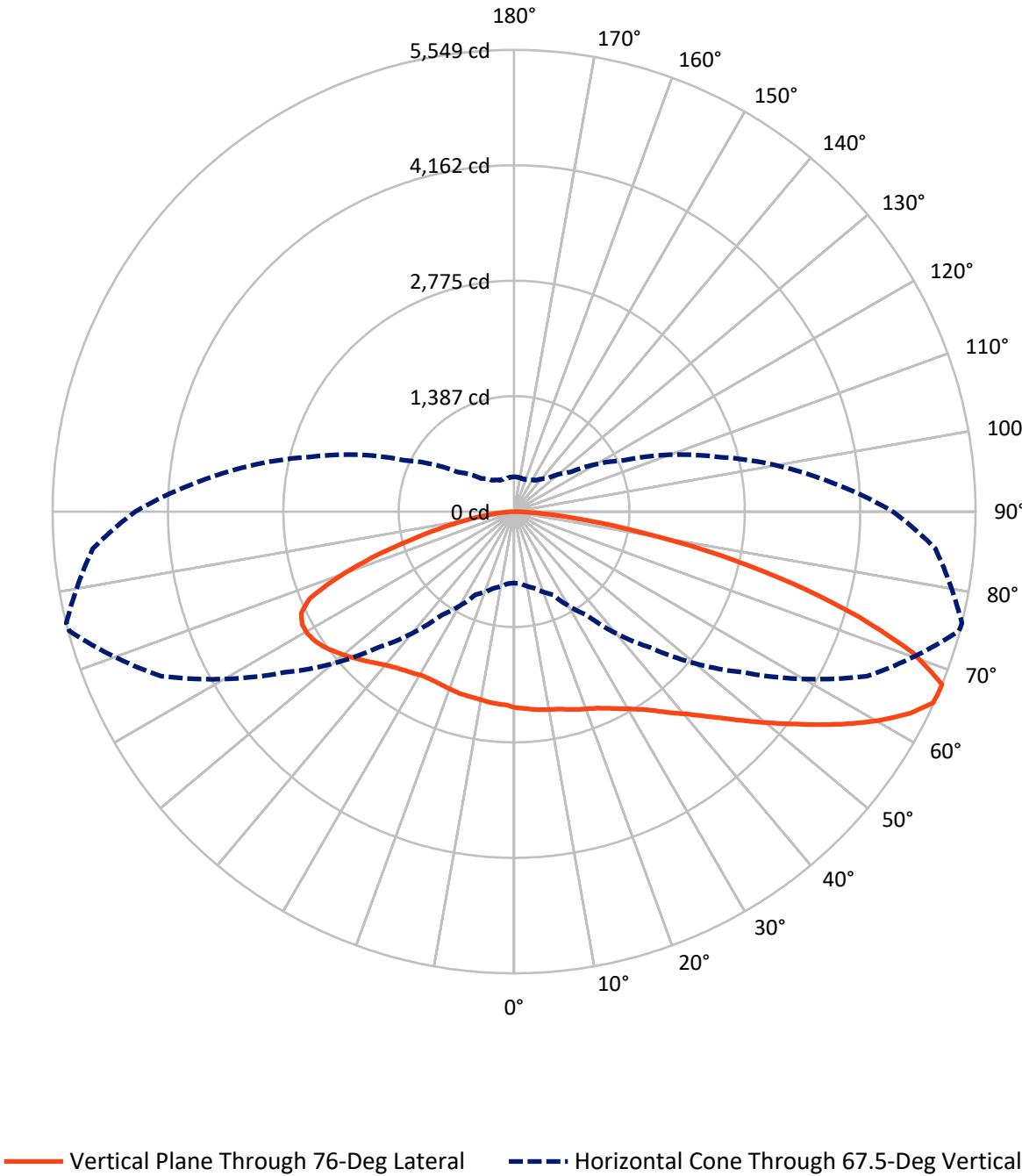
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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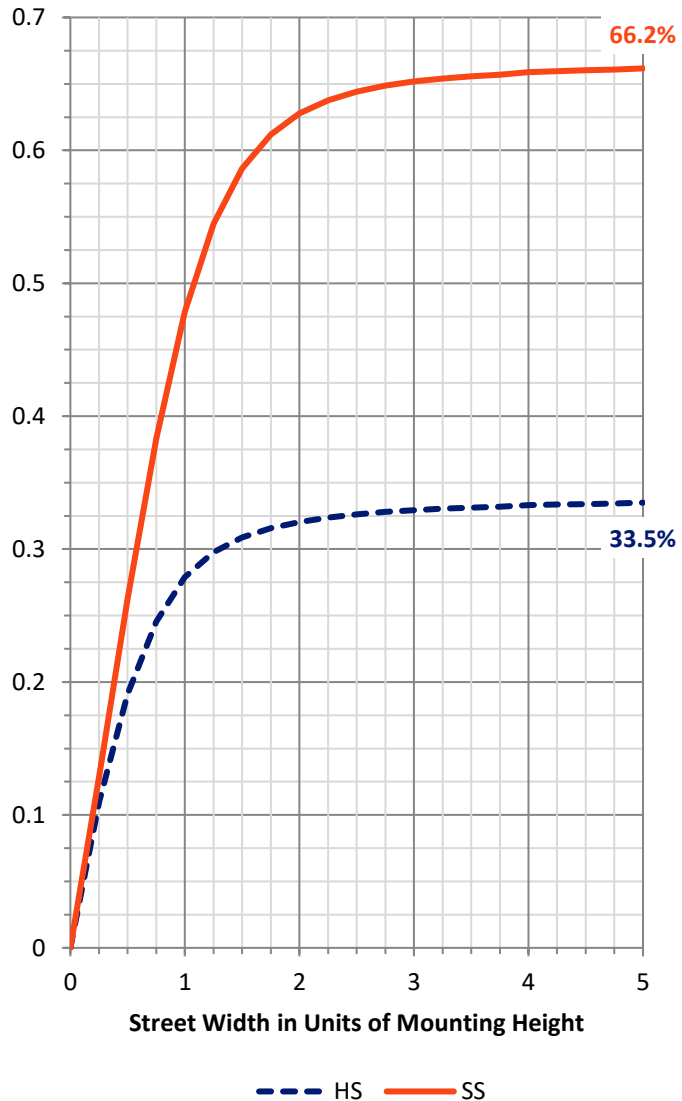
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3945.0	0.0	3945.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7730.0	0.0	7730.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	11675.0	0.0	11675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.9
10°-20°	695.2	6.0
20°-30°	1181.2	10.1
30°-40°	1680.7	14.4
40°-50°	2122.7	18.2
50°-60°	2298.2	19.7
60°-70°	2137.6	18.3
70°-80°	1148.1	9.8
80°-90°	184.0	1.6
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°	11675.0	100.0
0°-180°	11675.0	100.0

Coefficient of Utilization



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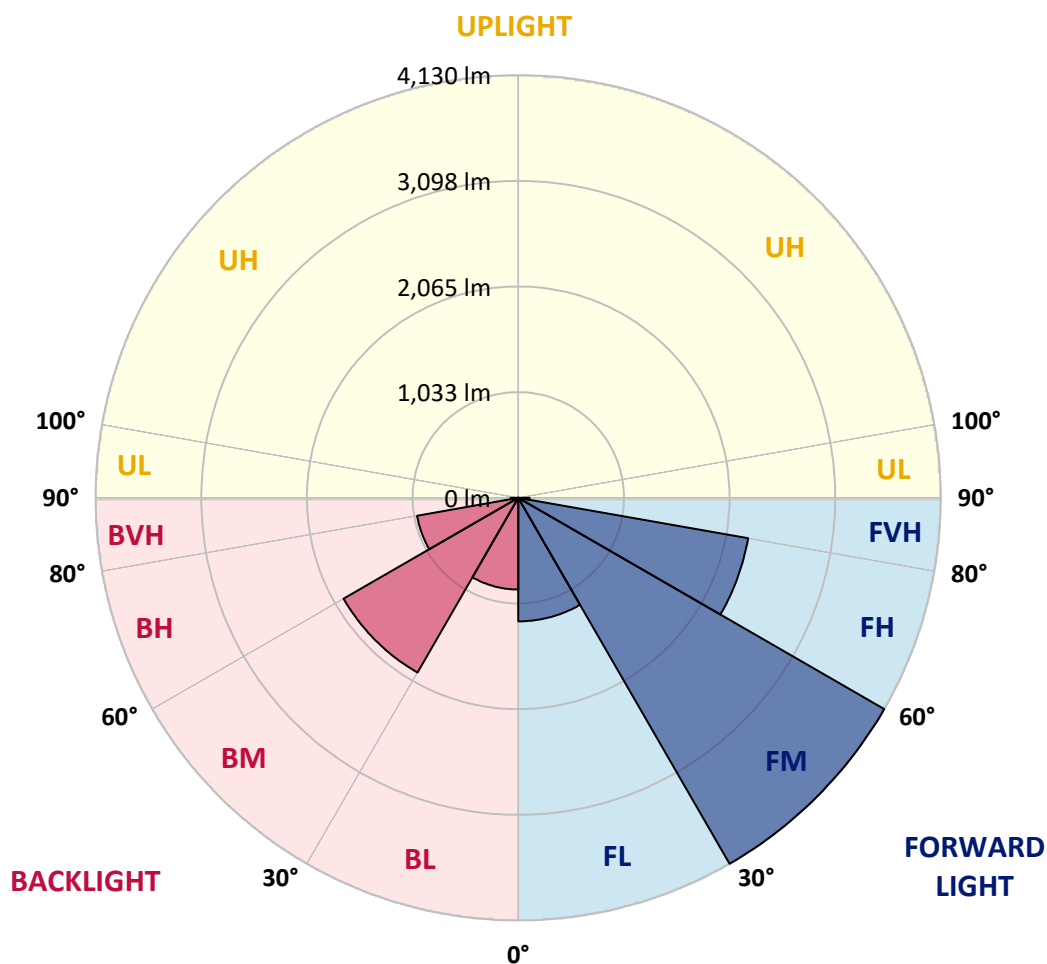
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1207.3	10.3			
FM	(30°-60°)	4130.2	35.4			
FH	(60°-80°)	2281.2	19.5			G2/5000
FVH	(80°-90°)	111.3	1.0			G2/225
BL	(0°-30°)	896.5	7.7	B2/1000		
BM	(30°-60°)	1971.4	16.9	B2/2500		
BH	(60°-80°)	1004.4	8.6	B3/2500		G3/2500
BVH	(80°-90°)	72.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3
2.5°	2429.9	2425.5	2408.2	2410.3	2410.3	2408.2	2382.2	2371.3	2371.3	2369.2	2345.3
5°	2516.6	2510.1	2490.5	2486.2	2477.5	2466.7	2425.5	2401.7	2390.8	2388.7	2356.2
7.5°	2618.4	2609.8	2585.9	2572.9	2551.2	2523.1	2471.0	2434.2	2408.2	2406.0	2360.5
10°	2720.3	2711.6	2683.5	2659.6	2629.3	2583.8	2516.6	2462.4	2421.2	2416.8	2362.7
12.5°	2841.7	2833.0	2798.3	2768.0	2722.5	2661.8	2572.9	2499.2	2442.9	2436.4	2369.2
15°	2969.6	2956.6	2921.9	2887.2	2830.9	2752.8	2646.6	2549.1	2477.5	2466.7	2388.7
17.5°	3075.8	3058.5	3030.3	2995.6	2932.7	2841.7	2720.3	2598.9	2510.1	2501.4	2408.2
20°	3166.8	3153.8	3123.5	3091.0	3023.8	2924.1	2789.7	2648.8	2540.4	2529.6	2423.4
22.5°	3253.5	3236.2	3218.9	3195.0	3121.3	3010.8	2869.9	2709.5	2579.4	2566.4	2442.9
25°	3353.2	3333.7	3327.2	3314.2	3227.5	3114.8	2967.4	2785.3	2633.6	2618.4	2477.5
27.5°	3476.8	3455.1	3442.1	3442.1	3338.1	3221.0	3071.5	2874.2	2696.5	2683.5	2520.9
30°	3606.8	3580.8	3561.3	3561.3	3444.3	3327.2	3173.3	2963.1	2768.0	2752.8	2577.2
32.5°	3721.7	3695.7	3674.0	3671.9	3550.5	3433.4	3279.5	3060.6	2854.7	2835.2	2646.6
35°	3810.6	3786.8	3767.2	3771.6	3656.7	3541.8	3398.8	3190.7	2963.1	2941.4	2737.7
37.5°	3864.8	3856.1	3845.3	3860.5	3754.2	3645.9	3522.3	3316.4	3086.6	3067.1	2850.4
40°	3893.0	3886.5	3929.8	3949.3	3836.6	3739.1	3645.9	3446.4	3221.0	3199.3	2980.4
42.5°	3934.2	3988.3	4005.7	4001.3	3897.3	3810.6	3758.6	3587.3	3379.3	3359.7	3136.5
45°	3786.8	3773.8	3869.1	3921.1	3901.6	3856.1	3864.8	3756.4	3563.5	3544.0	3316.4
47.5°	3589.5	3572.2	3626.4	3754.2	3830.1	3873.5	3960.2	3932.0	3775.9	3758.6	3526.6
50°	3173.3	3197.2	3398.8	3570.0	3719.6	3869.1	4040.4	4120.6	4010.0	3992.7	3752.1
52.5°	2711.6	2735.5	2945.7	3340.2	3585.2	3836.6	4098.9	4309.1	4263.6	4244.1	3992.7
55°	2375.7	2427.7	2666.1	2952.2	3394.4	3734.7	4133.6	4502.1	4536.7	4519.4	4255.0
57.5°	2041.9	2080.9	2260.8	2514.4	3134.3	3557.0	4131.4	4682.0	4822.9	4805.5	4521.6
60°	1649.5	1699.4	1842.4	2115.6	2787.5	3344.6	4070.7	4822.9	5098.1	5085.1	4779.5
62.5°	1380.7	1395.9	1497.8	1734.1	2341.0	3075.8	3934.2	4898.7	5347.4	5338.7	5011.4
65°	1112.0	1114.1	1207.3	1404.6	1909.6	2742.0	3702.2	4870.5	5536.0	5540.3	5178.3
67.5°	858.4	869.2	953.7	1103.3	1517.3	2308.5	3370.6	4679.8	5538.2	5549.0	5083.0
70°	593.9	602.6	730.5	875.7	1172.7	1840.3	2921.9	4174.8	5083.0	5091.6	4556.2
72.5°	418.3	422.7	559.2	700.1	916.9	1387.2	2204.4	3453.0	4333.0	4339.5	3832.3
75°	312.1	316.5	394.5	531.1	702.3	960.2	1506.5	2644.4	3461.6	3461.6	3025.9
77.5°	221.1	223.3	255.8	366.3	468.2	648.1	906.0	1731.9	2540.4	2544.7	2204.4
80°	149.6	151.7	166.9	247.1	292.6	351.1	492.0	908.2	1601.8	1608.3	1400.3
82.5°	78.0	82.4	93.2	125.7	147.4	195.1	253.6	461.7	886.5	903.9	841.0
85°	30.3	30.3	34.7	41.2	54.2	75.9	117.0	175.6	401.0	414.0	370.7
87.5°	10.8	10.8	13.0	13.0	15.2	17.3	19.5	26.0	45.5	45.5	43.4
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°	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3	2358.3
2.5°	2336.6	2336.6	2325.8	2330.1	2328.0	2323.6	2319.3	2325.8	2319.3	2304.1	2302.0
5°	2341.0	2336.6	2319.3	2317.1	2310.6	2302.0	2291.1	2295.5	2284.6	2271.6	2269.5
7.5°	2343.2	2334.5	2310.6	2302.0	2289.0	2271.6	2254.3	2254.3	2239.1	2226.1	2223.9
10°	2338.8	2328.0	2295.5	2278.1	2254.3	2228.3	2204.4	2197.9	2180.6	2165.4	2165.4
12.5°	2341.0	2325.8	2284.6	2256.4	2223.9	2191.4	2161.1	2152.4	2137.2	2122.1	2119.9
15°	2354.0	2332.3	2280.3	2243.4	2195.8	2158.9	2126.4	2119.9	2106.9	2096.0	2096.0
17.5°	2367.0	2338.8	2273.8	2221.8	2163.2	2122.1	2091.7	2091.7	2083.0	2076.5	2076.5
20°	2373.5	2341.0	2260.8	2191.4	2124.2	2080.9	2052.7	2057.0	2054.9	2052.7	2052.7
22.5°	2388.7	2345.3	2249.9	2163.2	2083.0	2037.5	2011.5	2018.0	2015.8	2015.8	2018.0
25°	2412.5	2356.2	2241.3	2137.2	2044.0	1994.2	1966.0	1970.3	1970.3	1970.3	1970.3
27.5°	2445.0	2377.8	2239.1	2113.4	2005.0	1948.7	1914.0	1914.0	1905.3	1907.5	1909.6
30°	2494.9	2419.0	2243.4	2091.7	1963.8	1892.3	1851.1	1844.6	1842.4	1846.8	1848.9
32.5°	2555.6	2475.4	2269.5	2076.5	1920.5	1829.4	1777.4	1775.2	1768.7	1768.7	1768.7
35°	2631.4	2529.6	2293.3	2074.4	1877.1	1762.2	1705.9	1699.4	1684.2	1677.7	1677.7
37.5°	2729.0	2614.1	2321.5	2059.2	1840.3	1697.2	1630.0	1608.3	1591.0	1588.8	1588.8
40°	2848.2	2709.5	2362.7	2041.9	1801.3	1630.0	1541.1	1504.3	1506.5	1515.1	1515.1
42.5°	2989.1	2826.5	2414.7	2033.2	1744.9	1560.7	1437.1	1393.8	1408.9	1417.6	1419.8
45°	3153.8	2965.2	2473.2	2022.3	1692.9	1482.6	1326.6	1272.4	1278.9	1281.0	1283.2
47.5°	3344.6	3119.1	2533.9	2013.7	1634.4	1385.1	1205.2	1133.6	1131.5	1118.5	1122.8
50°	3544.0	3281.7	2596.8	1998.5	1562.8	1270.2	1077.3	992.8	975.4	955.9	958.1
52.5°	3756.4	3448.6	2655.3	1974.7	1474.0	1153.2	955.9	864.9	830.2	808.5	812.8
55°	3990.5	3619.9	2711.6	1937.8	1380.7	1036.1	847.5	754.3	711.0	693.6	695.8
57.5°	4205.1	3784.6	2752.8	1892.3	1278.9	929.9	752.1	661.1	632.9	630.8	632.9
60°	4413.2	3923.3	2770.2	1829.4	1174.8	832.3	663.3	593.9	574.4	585.2	587.4
62.5°	4588.8	4012.2	2761.5	1744.9	1068.6	739.1	591.7	541.9	528.9	550.6	552.7
65°	4690.6	4040.4	2700.8	1623.5	953.7	648.1	524.6	470.4	463.9	476.9	483.4
67.5°	4556.2	3864.8	2536.1	1456.6	825.8	563.6	459.5	416.2	405.3	416.2	416.2
70°	4038.2	3348.9	2145.9	1192.2	685.0	481.2	398.8	368.5	359.8	368.5	366.3
72.5°	3364.1	2785.3	1690.7	929.9	539.7	405.3	346.8	318.6	310.0	301.3	297.0
75°	2609.8	2115.6	1226.8	682.8	407.5	325.1	290.5	264.4	242.8	251.4	247.1
77.5°	1911.8	1484.8	869.2	472.5	292.6	251.4	227.6	208.1	192.9	210.3	208.1
80°	1231.2	960.2	580.9	316.5	201.6	175.6	166.9	156.1	171.2	223.3	227.6
82.5°	752.1	609.1	346.8	205.9	132.2	117.0	108.4	108.4	175.6	192.9	195.1
85°	336.0	323.0	188.6	106.2	73.7	67.2	60.7	78.0	71.5	52.0	54.2
87.5°	54.2	56.4	41.2	36.8	28.2	28.2	21.7	15.2	10.8	6.5	6.5
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)