

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: P836777

Luminaire Tested: **ARCH3-70-740-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12531 lumens
Efficiency: N/A
Efficacy: 171.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 73.1
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

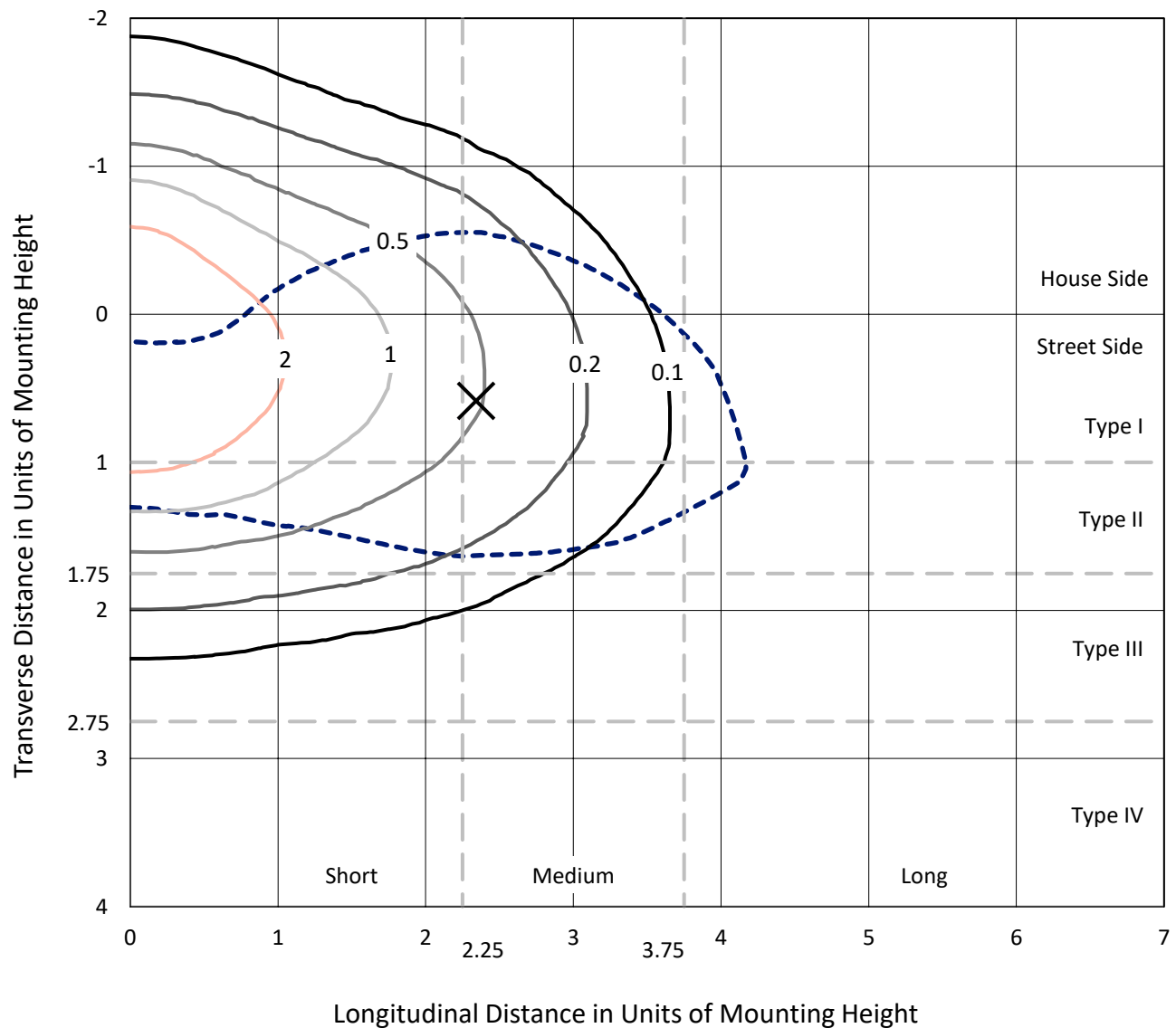


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Iso-Footcandle Lines of Horizontal Illumination

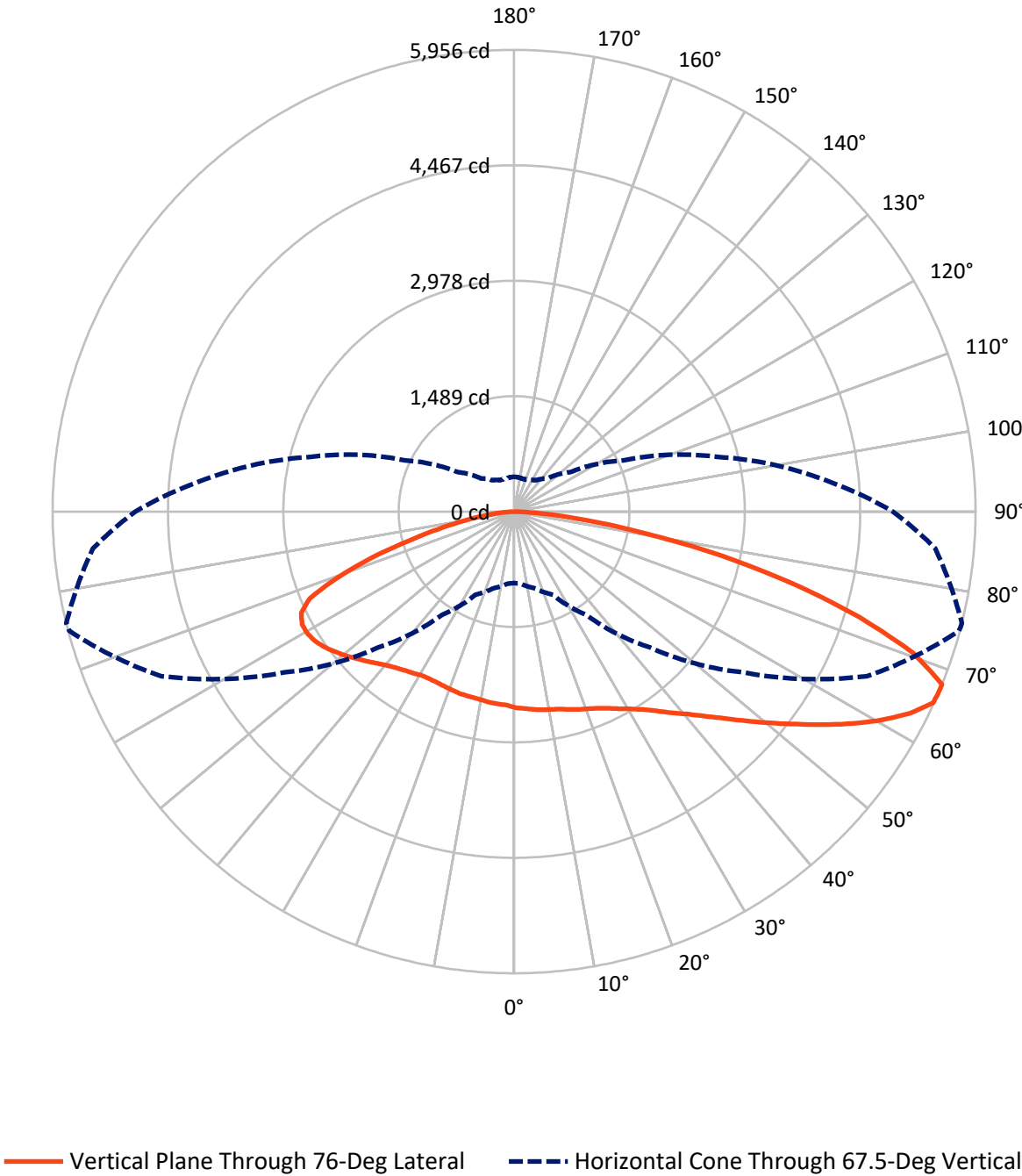
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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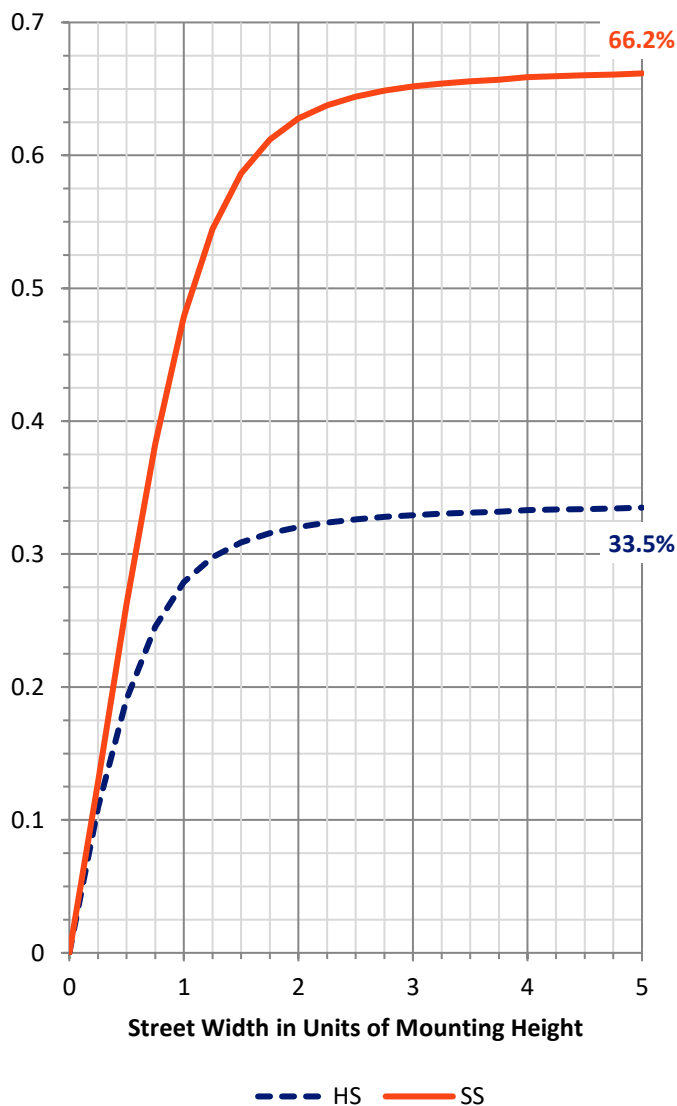
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4234.3	0.0	4234.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	8296.7	0.0	8296.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	12531.0	0.0	12531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	1.9
10°-20°	746.2	6.0
20°-30°	1267.8	10.1
30°-40°	1803.9	14.4
40°-50°	2278.3	18.2
50°-60°	2466.7	19.7
60°-70°	2294.3	18.3
70°-80°	1232.2	9.8
80°-90°	197.4	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°	12531.0	100.0
0°-180°	12531.0	100.0

Coefficient of Utilization



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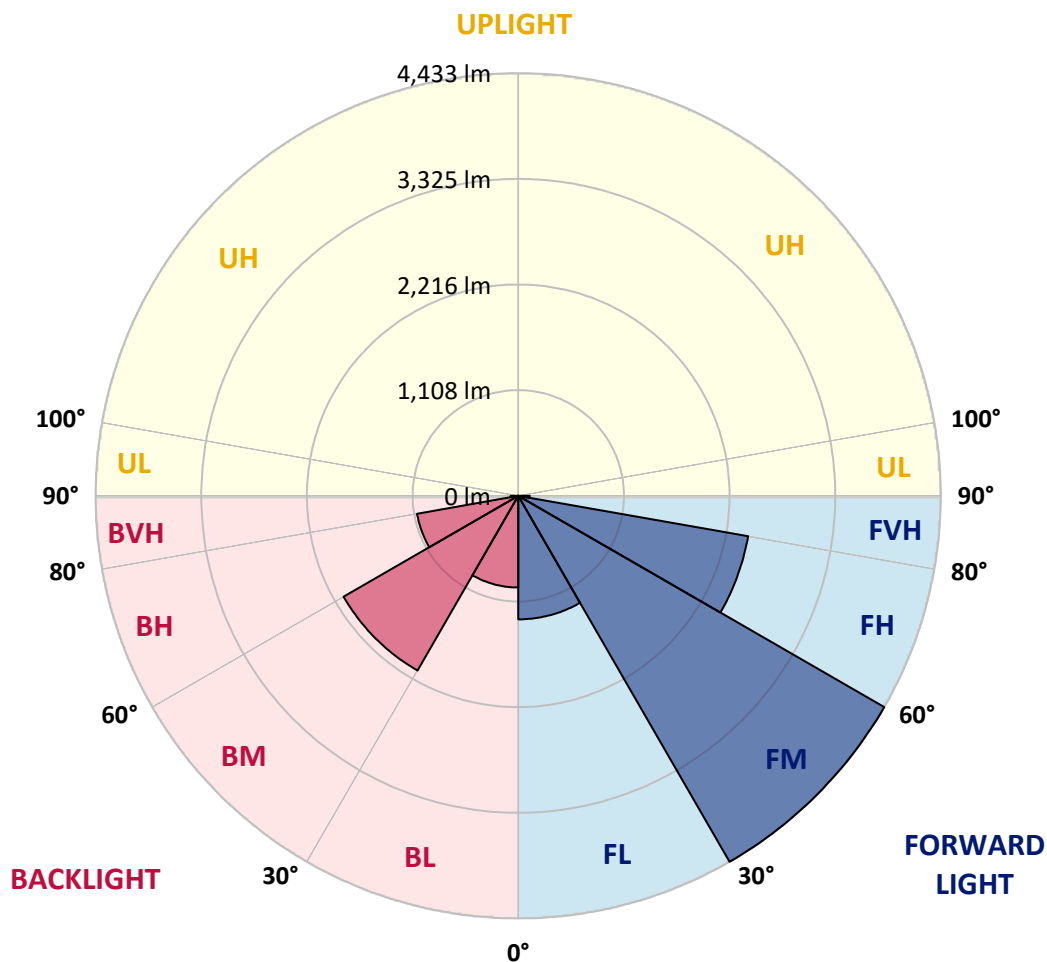
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1295.8	10.3			
FM	(30°-60°)	4433.0	35.4			
FH	(60°-80°)	2448.4	19.5			G2/5000
FVH	(80°-90°)	119.4	1.0			G2/225
BL	(0°-30°)	962.3	7.7	B2/1000		
BM	(30°-60°)	2115.9	16.9	B2/2500		
BH	(60°-80°)	1078.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	78.0	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°	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2
2.5°	2608.0	2603.4	2584.7	2587.1	2587.1	2584.7	2556.8	2545.2	2545.2	2542.9	2517.3
5°	2701.1	2694.1	2673.2	2668.5	2659.2	2647.6	2603.4	2577.8	2566.1	2563.8	2528.9
7.5°	2810.4	2801.1	2775.5	2761.6	2738.3	2708.0	2652.2	2612.7	2584.7	2582.4	2533.6
10°	2919.8	2910.5	2880.2	2854.6	2822.0	2773.2	2701.1	2642.9	2598.7	2594.0	2535.9
12.5°	3050.0	3040.7	3003.5	2970.9	2922.1	2856.9	2761.6	2682.5	2622.0	2615.0	2542.9
15°	3187.3	3173.3	3136.1	3098.9	3038.4	2954.7	2840.7	2736.0	2659.2	2647.6	2563.8
17.5°	3301.3	3282.7	3252.4	3215.2	3147.8	3050.0	2919.8	2789.5	2694.1	2684.8	2584.7
20°	3399.0	3385.1	3352.5	3317.6	3245.5	3138.5	2994.2	2843.0	2726.7	2715.0	2601.0
22.5°	3492.1	3473.5	3454.9	3429.3	3350.2	3231.5	3080.3	2908.1	2768.5	2754.6	2622.0
25°	3599.1	3578.2	3571.2	3557.2	3464.2	3343.2	3185.0	2989.6	2826.7	2810.4	2659.2
27.5°	3731.7	3708.4	3694.5	3694.5	3582.8	3457.2	3296.7	3084.9	2894.2	2880.2	2705.7
30°	3871.3	3843.4	3822.4	3822.4	3696.8	3571.2	3406.0	3180.3	2970.9	2954.7	2766.2
32.5°	3994.6	3966.7	3943.4	3941.1	3810.8	3685.2	3520.0	3285.0	3064.0	3043.1	2840.7
35°	4090.0	4064.4	4043.5	4048.1	3924.8	3801.5	3648.0	3424.6	3180.3	3157.1	2938.4
37.5°	4148.2	4138.8	4127.2	4143.5	4029.5	3913.2	3780.6	3559.5	3312.9	3292.0	3059.4
40°	4178.4	4171.4	4217.9	4238.9	4117.9	4013.2	3913.2	3699.1	3457.2	3433.9	3198.9
42.5°	4222.6	4280.8	4299.4	4294.7	4183.1	4090.0	4034.2	3850.4	3627.0	3606.1	3366.4
45°	4064.4	4050.4	4152.8	4208.6	4187.7	4138.8	4148.2	4031.8	3824.8	3803.8	3559.5
47.5°	3852.7	3834.1	3892.2	4029.5	4110.9	4157.5	4250.5	4220.3	4052.8	4034.2	3785.2
50°	3406.0	3431.6	3648.0	3831.7	3992.3	4152.8	4336.6	4422.7	4304.0	4285.4	4027.2
52.5°	2910.5	2936.0	3161.7	3585.1	3848.0	4117.9	4399.4	4625.1	4576.2	4555.3	4285.4
55°	2549.8	2605.7	2861.6	3168.7	3643.3	4008.6	4436.6	4832.1	4869.4	4850.8	4566.9
57.5°	2191.6	2233.4	2426.5	2698.7	3364.1	3817.8	4434.3	5025.2	5176.5	5157.9	4853.1
60°	1770.5	1824.0	1977.5	2270.7	2991.9	3589.8	4369.2	5176.5	5471.9	5458.0	5129.9
62.5°	1482.0	1498.3	1607.6	1861.2	2512.6	3301.3	4222.6	5257.9	5739.5	5730.2	5378.9
65°	1193.5	1195.8	1295.9	1507.6	2049.6	2943.0	3973.7	5227.7	5941.9	5946.5	5558.0
67.5°	921.3	932.9	1023.7	1184.2	1628.6	2477.7	3617.7	5022.9	5944.2	5955.8	5455.6
70°	637.5	646.8	784.0	939.9	1258.6	1975.2	3136.1	4480.8	5455.6	5465.0	4890.3
72.5°	449.0	453.7	600.2	751.5	984.1	1489.0	2366.1	3706.1	4650.7	4657.7	4113.3
75°	335.0	339.7	423.4	570.0	753.8	1030.6	1616.9	2838.3	3715.4	3715.4	3247.8
77.5°	237.3	239.6	274.5	393.2	502.5	695.6	972.5	1858.9	2726.7	2731.3	2366.1
80°	160.5	162.9	179.1	265.2	314.1	376.9	528.1	974.8	1719.3	1726.3	1502.9
82.5°	83.8	88.4	100.0	134.9	158.2	209.4	272.2	495.5	951.5	970.2	902.7
85°	32.6	32.6	37.2	44.2	58.2	81.4	125.6	188.4	430.4	444.4	397.8
87.5°	11.6	11.6	14.0	14.0	16.3	18.6	20.9	27.9	48.9	48.9	46.5
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°	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2	2531.2
2.5°	2508.0	2508.0	2496.3	2501.0	2498.7	2494.0	2489.4	2496.3	2489.4	2473.1	2470.7
5°	2512.6	2508.0	2489.4	2487.0	2480.1	2470.7	2459.1	2463.8	2452.1	2438.2	2435.8
7.5°	2514.9	2505.6	2480.1	2470.7	2456.8	2438.2	2419.6	2419.6	2403.3	2389.3	2387.0
10°	2510.3	2498.7	2463.8	2445.2	2419.6	2391.6	2366.1	2359.1	2340.5	2324.2	2324.2
12.5°	2512.6	2496.3	2452.1	2421.9	2387.0	2352.1	2319.5	2310.2	2293.9	2277.6	2275.3
15°	2526.6	2503.3	2447.5	2407.9	2356.7	2317.2	2282.3	2275.3	2261.4	2249.7	2249.7
17.5°	2540.5	2510.3	2440.5	2384.7	2321.8	2277.6	2245.1	2245.1	2235.8	2228.8	2228.8
20°	2547.5	2512.6	2426.5	2352.1	2280.0	2233.4	2203.2	2207.9	2205.5	2203.2	2203.2
22.5°	2563.8	2517.3	2414.9	2321.8	2235.8	2186.9	2159.0	2166.0	2163.6	2163.6	2166.0
25°	2589.4	2528.9	2405.6	2293.9	2193.9	2140.4	2110.1	2114.8	2114.8	2114.8	2114.8
27.5°	2624.3	2552.2	2403.3	2268.3	2152.0	2091.5	2054.3	2054.3	2045.0	2047.3	2049.6
30°	2677.8	2596.4	2407.9	2245.1	2107.8	2031.0	1986.8	1979.9	1977.5	1982.2	1984.5
32.5°	2742.9	2656.9	2435.8	2228.8	2061.3	1963.6	1907.7	1905.4	1898.4	1898.4	1898.4
35°	2824.4	2715.0	2461.4	2226.5	2014.8	1891.4	1831.0	1824.0	1807.7	1800.7	1800.7
37.5°	2929.1	2805.8	2491.7	2210.2	1975.2	1821.7	1749.5	1726.3	1707.7	1705.3	1705.3
40°	3057.0	2908.1	2535.9	2191.6	1933.3	1749.5	1654.1	1614.6	1616.9	1626.2	1626.2
42.5°	3208.2	3033.8	2591.7	2182.3	1872.8	1675.1	1542.5	1495.9	1512.2	1521.5	1523.9
45°	3385.1	3182.7	2654.5	2170.6	1817.0	1591.3	1423.8	1365.7	1372.6	1375.0	1377.3
47.5°	3589.8	3347.8	2719.7	2161.3	1754.2	1486.6	1293.5	1216.8	1214.4	1200.5	1205.1
50°	3803.8	3522.3	2787.1	2145.0	1677.4	1363.3	1156.3	1065.5	1046.9	1026.0	1028.3
52.5°	4031.8	3701.5	2850.0	2119.4	1582.0	1237.7	1026.0	928.3	891.1	867.8	872.4
55°	4283.1	3885.3	2910.5	2079.9	1482.0	1112.1	909.7	809.6	763.1	744.5	746.8
57.5°	4513.4	4062.1	2954.7	2031.0	1372.6	998.1	807.3	709.6	679.3	677.0	679.3
60°	4736.8	4211.0	2973.3	1963.6	1261.0	893.4	711.9	637.5	616.5	628.2	630.5
62.5°	4925.2	4306.4	2964.0	1872.8	1147.0	793.3	635.1	581.6	567.7	590.9	593.3
65°	5034.6	4336.6	2898.8	1742.6	1023.7	695.6	563.0	504.9	497.9	511.8	518.8
67.5°	4890.3	4148.2	2722.0	1563.4	886.4	604.9	493.2	446.7	435.1	446.7	446.7
70°	4334.3	3594.4	2303.2	1279.6	735.2	516.5	428.1	395.5	386.2	395.5	393.2
72.5°	3610.7	2989.6	1814.7	998.1	579.3	435.1	372.2	342.0	332.7	323.4	318.7
75°	2801.1	2270.7	1316.8	732.8	437.4	349.0	311.8	283.8	260.6	269.9	265.2
77.5°	2052.0	1593.7	932.9	507.2	314.1	269.9	244.3	223.3	207.1	225.7	223.3
80°	1321.5	1030.6	623.5	339.7	216.4	188.4	179.1	167.5	183.8	239.6	244.3
82.5°	807.3	653.7	372.2	221.0	141.9	125.6	116.3	116.3	188.4	207.1	209.4
85°	360.6	346.6	202.4	114.0	79.1	72.1	65.1	83.8	76.8	55.8	58.2
87.5°	58.2	60.5	44.2	39.6	30.2	30.2	23.3	16.3	11.6	7.0	7.0
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)