

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: P840862

Luminaire Tested: **ARCH4-100-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15402 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 103.1
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



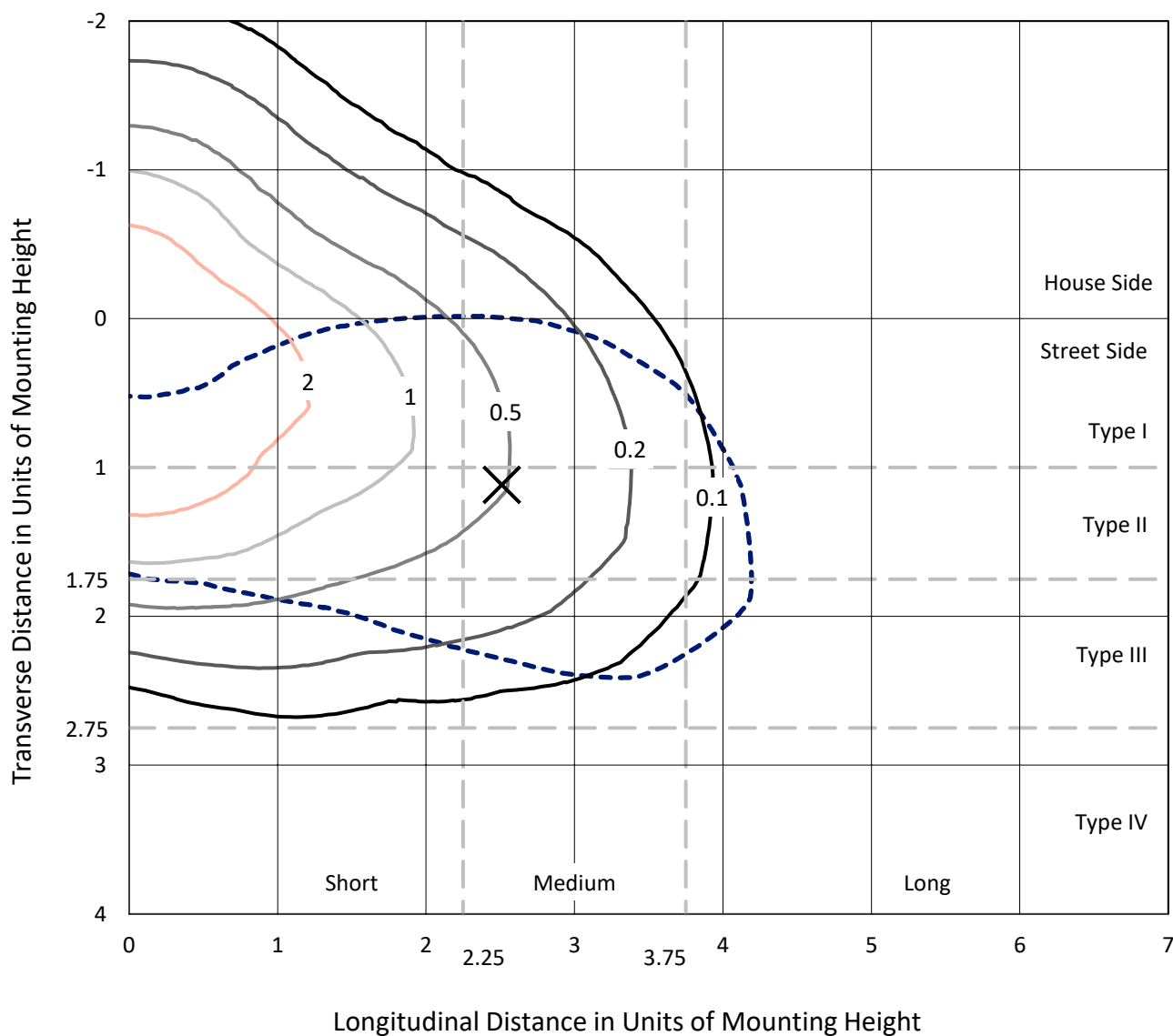
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

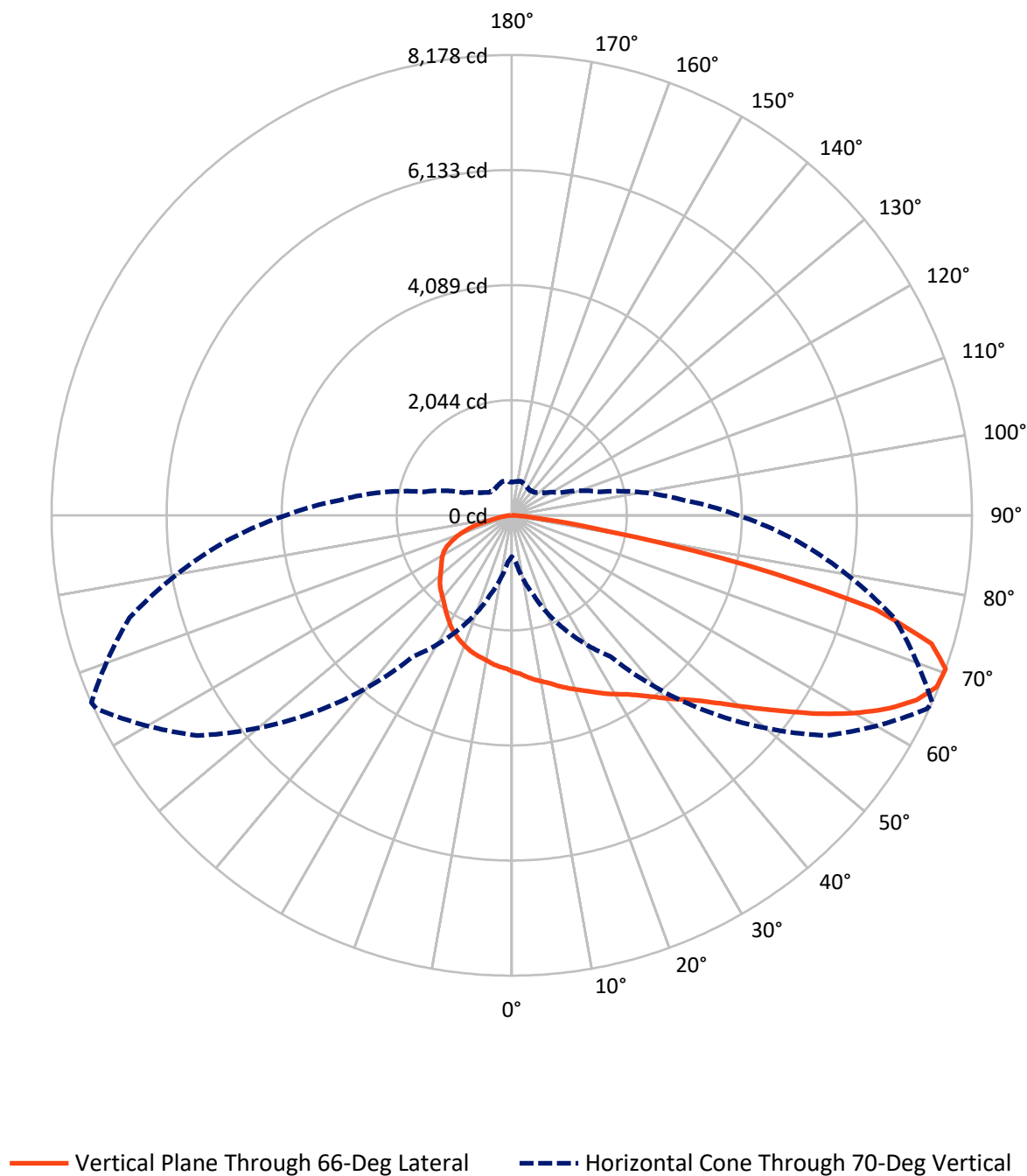


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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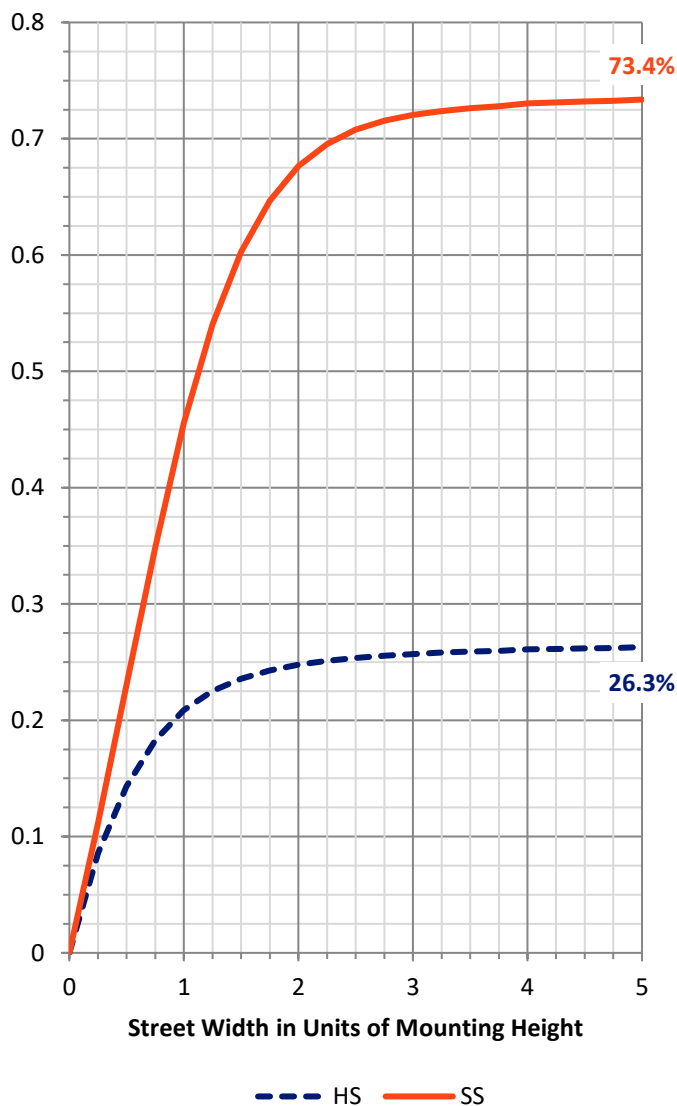
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4081.2	0.0	4081.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	11320.8	0.0	11320.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	15402.0	0.0	15402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	1.7
10°-20°	801.2	5.2
20°-30°	1343.1	8.7
30°-40°	2011.0	13.1
40°-50°	2688.8	17.5
50°-60°	3139.2	20.4
60°-70°	3121.5	20.3
70°-80°	1848.0	12.0
80°-90°	182.1	1.2
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°	15402.0	100.0
0°-180°	15402.0	100.0

Coefficient of Utilization



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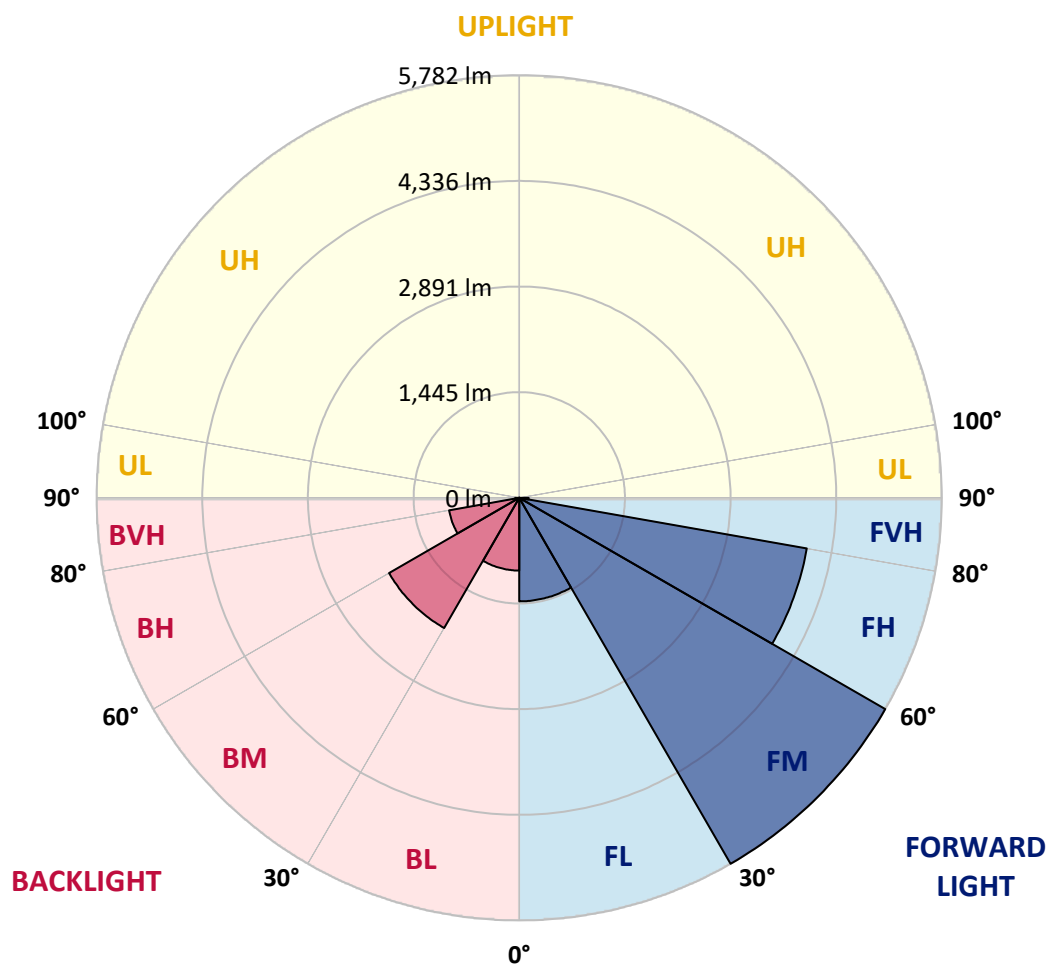
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1416.6	9.2			
FM	(30°-60°)	5781.7	37.5			
FH	(60°-80°)	3994.5	25.9			G2/5000
FVH	(80°-90°)	128.0	0.8			G2/225
BL	(0°-30°)	994.8	6.5	B2/1000		
BM	(30°-60°)	2057.3	13.4	B2/2500		
BH	(60°-80°)	974.9	6.3	B2/1000		G2/1000
BVH	(80°-90°)	54.1	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7
2.5°	2881.9	2877.4	2875.1	2866.0	2845.6	2854.7	2834.2	2820.6	2818.3	2786.5	2768.4
5°	3000.0	2997.7	2993.2	2979.6	2947.8	2952.3	2918.2	2893.3	2886.4	2836.5	2797.9
7.5°	3099.9	3095.4	3093.1	3074.9	3040.9	3038.6	2997.7	2961.4	2950.0	2881.9	2822.9
10°	3177.1	3170.3	3174.9	3156.7	3120.4	3113.5	3061.3	3013.6	3002.3	2916.0	2834.2
12.5°	3243.0	3238.5	3245.3	3229.4	3199.8	3193.0	3140.8	3079.5	3065.9	2965.9	2859.2
15°	3315.7	3299.8	3313.4	3306.6	3286.1	3283.9	3236.2	3168.1	3149.9	3029.5	2897.8
17.5°	3354.3	3345.2	3361.1	3363.4	3354.3	3370.2	3324.8	3243.0	3227.1	3088.6	2931.9
20°	3381.5	3367.9	3386.1	3399.7	3406.5	3438.3	3402.0	3322.5	3304.3	3145.3	2963.7
22.5°	3474.6	3445.1	3447.4	3456.5	3461.0	3506.4	3483.7	3406.5	3388.3	3215.7	3002.3
25°	3708.6	3649.5	3610.9	3583.6	3551.9	3590.5	3576.8	3501.9	3486.0	3299.8	3050.0
27.5°	4071.9	3997.0	3919.8	3840.3	3715.4	3699.5	3676.8	3608.6	3590.5	3383.8	3097.7
30°	4485.2	4410.3	4319.5	4192.3	3958.4	3835.7	3783.5	3708.6	3688.1	3458.7	3143.1
32.5°	4896.3	4830.4	4739.6	4585.2	4251.3	4001.5	3890.2	3813.0	3792.6	3540.5	3197.6
35°	5216.5	5175.6	5116.6	4923.5	4542.0	4196.8	4044.7	3951.5	3928.8	3669.9	3297.5
37.5°	5475.4	5445.9	5395.9	5193.8	4753.2	4392.1	4221.8	4115.1	4090.1	3810.7	3404.2
40°	5856.9	5779.7	5738.8	5445.9	4937.2	4569.3	4421.6	4310.4	4283.1	3960.6	3490.5
42.5°	6181.7	6124.9	6074.9	5670.7	5112.0	4721.4	4610.1	4507.9	4471.6	4108.2	3583.6
45°	6236.2	6258.9	6233.9	5782.0	5389.1	4871.3	4800.9	4735.0	4701.0	4308.1	3724.4
47.5°	6238.5	6238.5	6090.8	5845.6	5732.0	5039.4	5005.3	5028.0	4991.7	4562.4	3892.5
50°	6074.9	6104.5	6027.2	5861.5	5822.9	5207.4	5255.1	5377.7	5341.4	4832.7	4074.2
52.5°	5736.6	5834.2	5831.9	5836.5	5691.1	5350.5	5518.5	5797.9	5736.6	5137.0	4267.2
55°	5139.3	5334.6	5509.5	5659.3	5577.6	5436.8	5841.0	6245.3	6181.7	5477.7	4462.5
57.5°	4628.3	4753.2	4971.2	5395.9	5443.6	5511.7	6143.1	6713.1	6656.3	5854.7	4666.9
60°	4044.7	4217.3	4435.3	5039.4	5280.1	5609.4	6474.6	7169.6	7115.1	6236.2	4864.5
62.5°	3147.6	3370.2	3806.2	4492.0	5041.6	5670.7	6735.8	7571.5	7546.5	6597.3	5041.6
65°	2193.8	2391.4	3002.3	3819.8	4662.4	5643.4	6944.7	7930.3	7907.6	6892.5	5166.5
67.5°	1280.8	1510.2	2200.6	3074.9	3992.4	5455.0	7012.9	8141.6	8141.6	7071.9	5200.6
70°	731.3	838.0	1451.2	2241.5	3061.3	4934.9	6822.1	8139.3	8177.9	7031.0	5059.8
72.5°	511.0	558.7	976.5	1507.9	2075.7	3992.4	6322.5	7746.4	7798.6	6645.0	4578.3
75°	397.4	431.5	688.1	1028.8	1308.1	2711.6	5230.1	6531.4	6669.9	5663.9	3701.7
77.5°	302.0	327.0	402.0	642.7	838.0	1557.9	3451.9	4283.1	4292.2	3467.8	1984.9
80°	220.3	245.3	268.0	392.9	445.1	729.0	1303.6	1789.6	1739.6	1678.3	1074.2
82.5°	131.7	156.7	163.5	213.5	218.0	311.1	456.5	576.8	554.1	738.1	504.2
85°	56.8	79.5	84.0	97.7	93.1	127.2	181.7	152.2	136.3	156.7	109.0
87.5°	13.6	22.7	22.7	25.0	20.4	31.8	34.1	25.0	22.7	27.3	27.3
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°	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7
2.5°	2763.8	2757.0	2759.3	2720.7	2709.3	2698.0	2691.1	2686.6	2682.1	2688.9	2695.7
5°	2784.3	2768.4	2750.2	2693.4	2670.7	2645.7	2627.6	2611.7	2604.8	2604.8	2611.7
7.5°	2800.1	2772.9	2734.3	2659.3	2618.5	2584.4	2554.9	2534.4	2523.1	2523.1	2529.9
10°	2802.4	2763.8	2702.5	2611.7	2557.2	2507.2	2473.1	2450.4	2434.5	2434.5	2439.1
12.5°	2816.0	2763.8	2684.3	2575.3	2507.2	2445.9	2405.0	2370.9	2364.1	2364.1	2368.7
15°	2838.8	2775.2	2673.0	2543.5	2461.8	2391.4	2345.9	2309.6	2296.0	2305.1	2307.3
17.5°	2859.2	2782.0	2652.5	2502.6	2405.0	2327.8	2277.8	2246.0	2227.9	2248.3	2248.3
20°	2872.8	2782.0	2623.0	2450.4	2343.7	2257.4	2209.7	2171.1	2157.5	2182.4	2184.7
22.5°	2893.3	2779.7	2591.2	2398.2	2277.8	2187.0	2139.3	2109.8	2103.0	2130.2	2139.3
25°	2916.0	2784.3	2557.2	2339.1	2205.1	2116.6	2080.2	2066.6	2071.2	2105.2	2116.6
27.5°	2941.0	2793.3	2523.1	2273.3	2125.7	2046.2	2025.7	2032.5	2050.7	2093.9	2107.5
30°	2963.7	2795.6	2475.4	2196.1	2034.8	1959.9	1969.0	1998.5	2025.7	2068.9	2084.8
32.5°	2993.2	2797.9	2425.4	2112.0	1937.2	1882.7	1923.5	1971.2	1998.5	2039.4	2057.5
35°	3065.9	2836.5	2386.8	2030.3	1846.3	1816.8	1884.9	1946.3	1962.1	1998.5	2014.4
37.5°	3149.9	2900.1	2366.4	1946.3	1757.8	1750.9	1837.2	1898.6	1903.1	1925.8	1941.7
40°	3202.1	2927.3	2343.7	1875.9	1678.3	1682.8	1771.4	1819.1	1810.0	1825.9	1837.2
42.5°	3254.4	2936.4	2296.0	1816.8	1603.3	1607.9	1676.0	1710.1	1714.6	1748.7	1764.6
45°	3342.9	2961.4	2243.8	1762.3	1535.2	1519.3	1560.2	1605.6	1664.6	1730.5	1748.7
47.5°	3461.0	3013.6	2189.2	1696.4	1469.3	1417.1	1433.0	1512.5	1573.8	1635.1	1646.5
50°	3581.4	3065.9	2139.3	1617.0	1403.5	1308.1	1314.9	1387.6	1437.5	1485.2	1492.1
52.5°	3699.5	3111.3	2096.1	1542.0	1328.5	1178.7	1205.9	1280.8	1314.9	1337.6	1344.4
55°	3817.6	3149.9	2057.5	1478.4	1242.2	1076.5	1101.4	1171.8	1205.9	1217.3	1221.8
57.5°	3940.2	3195.3	2028.0	1423.9	1144.6	985.6	1001.5	1051.5	1083.3	1096.9	1092.4
60°	4042.4	3233.9	2012.1	1367.1	1046.9	901.6	897.0	942.5	987.9	1001.5	997.0
62.5°	4121.9	3258.9	1987.1	1294.5	960.6	817.6	794.9	853.9	901.6	910.7	917.5
65°	4165.0	3261.2	1925.8	1201.4	872.1	726.7	710.8	769.9	799.4	808.5	808.5
67.5°	4158.2	3224.8	1805.4	1076.5	790.3	645.0	631.3	667.7	710.8	717.6	710.8
70°	4017.4	3074.9	1612.4	944.7	692.7	572.3	547.3	583.6	624.5	599.5	588.2
72.5°	3617.7	2686.6	1328.5	799.4	583.6	481.5	470.1	506.4	508.7	513.2	501.9
75°	2854.7	2000.8	994.7	622.3	472.4	404.2	402.0	395.2	404.2	422.4	408.8
77.5°	1498.9	999.2	538.2	381.5	342.9	324.8	308.9	306.6	333.8	345.2	331.6
80°	813.0	560.9	308.9	229.4	208.9	211.2	231.6	227.1	256.6	263.4	252.1
82.5°	354.3	265.7	152.2	138.5	138.5	136.3	143.1	159.0	190.8	190.8	152.2
85°	77.2	65.9	59.0	68.1	77.2	77.2	77.2	77.2	54.5	29.5	20.4
87.5°	25.0	25.0	25.0	27.3	29.5	29.5	25.0	18.2	11.4	2.3	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)