

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: P840936

Luminaire Tested: **ARCH4-110-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840936
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: ARCH4-110-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16313 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 112.6
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

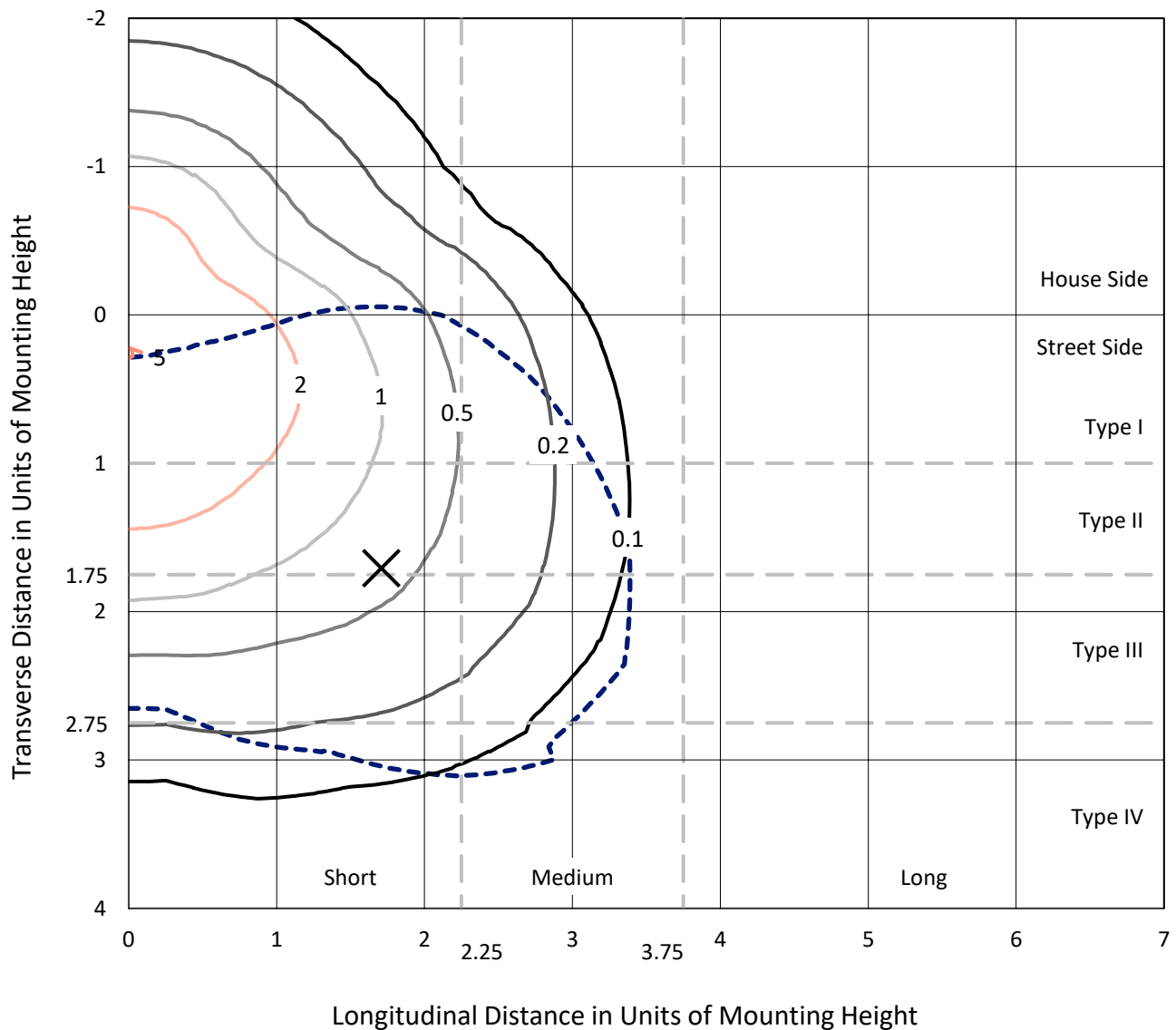


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Iso-Footcandle Lines of Horizontal Illumination

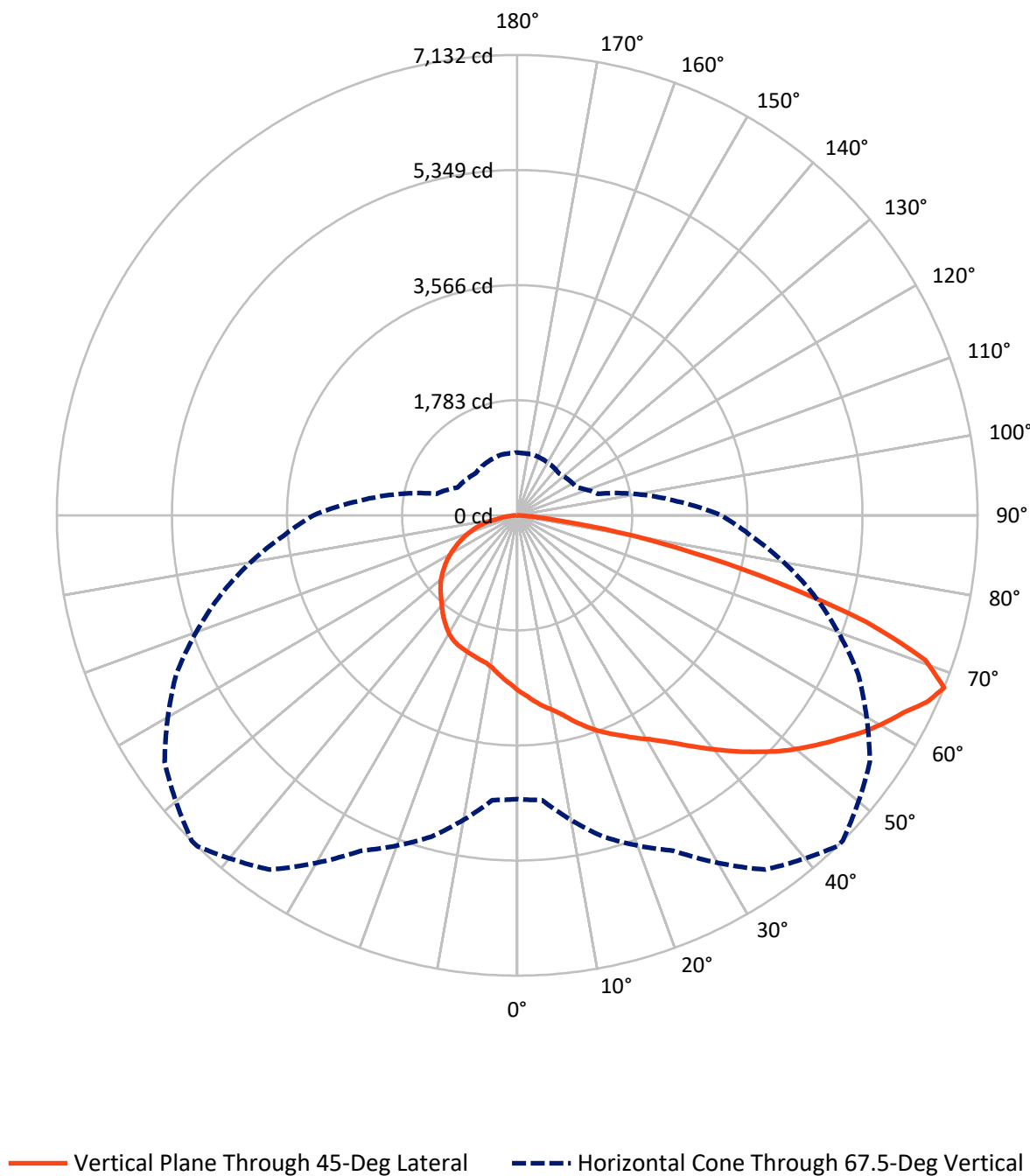
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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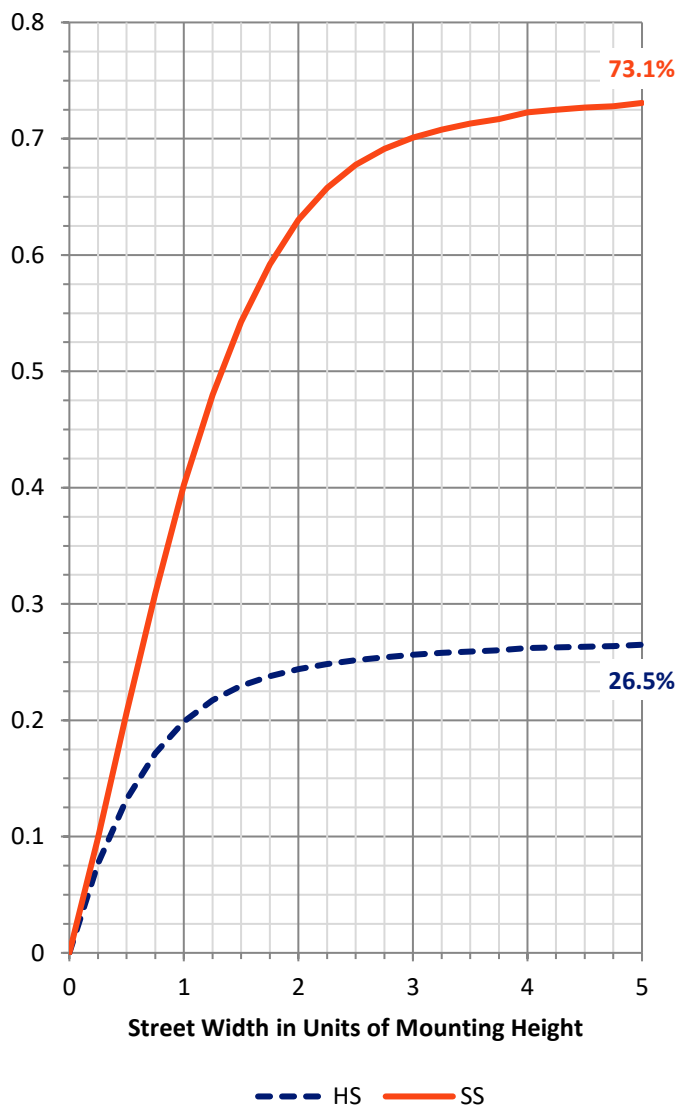
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4358.0	0.0	4358.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	11955.0	0.0	11955.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	16313.0	0.0	16313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	1.6
10°-20°	804.7	4.9
20°-30°	1389.0	8.5
30°-40°	2048.3	12.6
40°-50°	2775.0	17.0
50°-60°	3391.7	20.8
60°-70°	3498.1	21.4
70°-80°	1916.0	11.7
80°-90°	229.6	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°	16313.0	100.0
0°-180°	16313.0	100.0

Coefficient of Utilization



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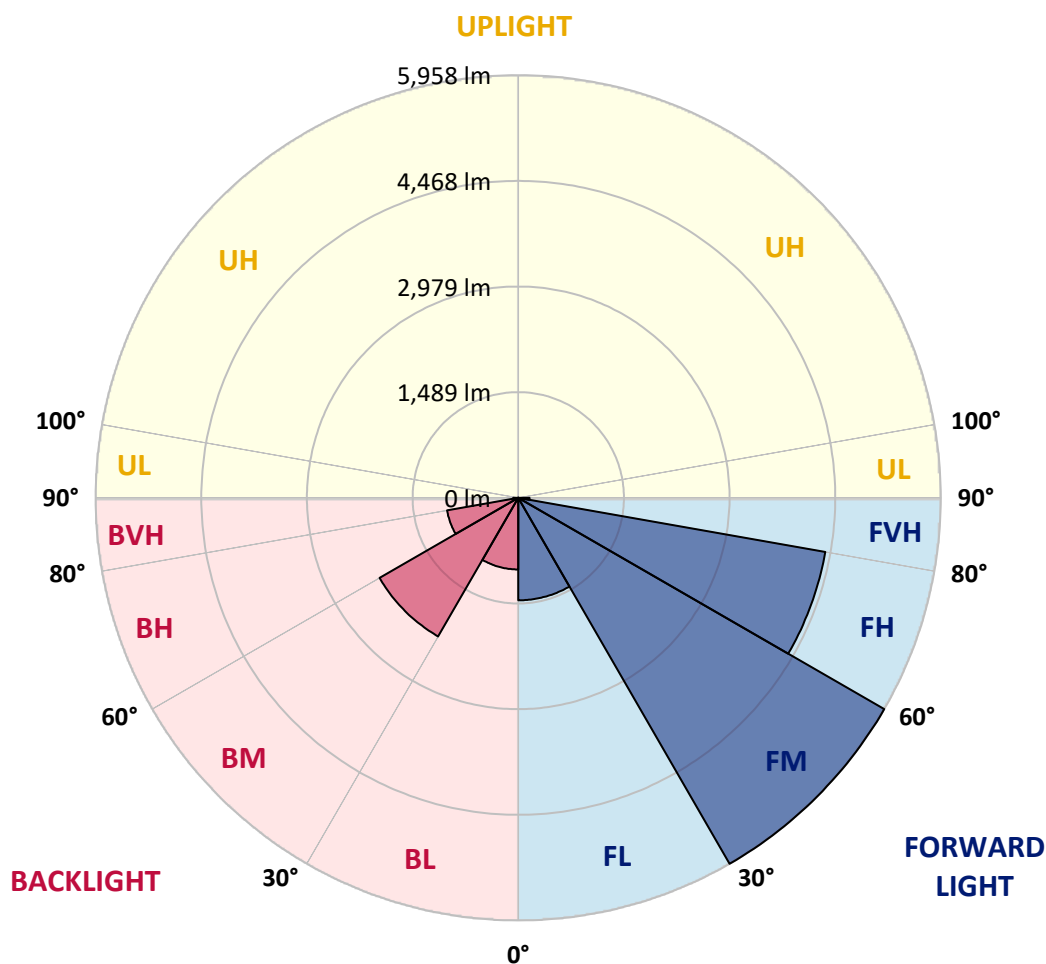
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1444.1	8.9			
FM	(30°-60°)	5957.7	36.5			
FH	(60°-80°)	4395.0	26.9			G2/5000
FVH	(80°-90°)	158.2	1.0			G2/225
BL	(0°-30°)	1010.0	6.2	B3/2500		
BM	(30°-60°)	2257.4	13.8	B2/2500		
BH	(60°-80°)	1019.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	71.4	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7
2.5°	2839.9	2837.4	2842.3	2825.0	2802.6	2800.1	2800.1	2785.2	2767.9	2733.1	2705.8
5°	2973.9	2968.9	2971.4	2946.6	2916.8	2901.9	2899.4	2867.2	2827.4	2772.8	2723.2
7.5°	3098.0	3093.1	3090.6	3063.3	3018.6	2993.8	2991.3	2944.1	2896.9	2812.5	2740.6
10°	3214.7	3209.7	3204.8	3167.5	3112.9	3075.7	3070.7	3011.1	2951.6	2847.3	2755.5
12.5°	3363.6	3353.7	3348.7	3304.1	3224.6	3184.9	3177.5	3098.0	3023.6	2896.9	2785.2
15°	3520.0	3512.6	3505.1	3462.9	3373.6	3321.4	3309.0	3209.7	3108.0	2961.5	2829.9
17.5°	3636.7	3629.3	3629.3	3592.0	3510.1	3450.5	3440.6	3321.4	3194.8	3021.1	2864.7
20°	3708.7	3701.2	3708.7	3686.3	3624.3	3574.6	3564.7	3433.1	3281.7	3075.7	2894.5
22.5°	3760.8	3753.4	3765.8	3755.9	3711.2	3681.4	3673.9	3544.9	3371.1	3132.8	2924.3
25°	3852.7	3852.7	3852.7	3835.3	3793.1	3783.2	3783.2	3671.5	3485.3	3207.2	2968.9
27.5°	4036.4	4026.4	4014.0	3964.4	3892.4	3889.9	3904.8	3800.5	3616.8	3304.1	3023.6
30°	4306.9	4302.0	4254.8	4150.6	4028.9	4016.5	4026.4	3939.6	3758.3	3405.8	3085.6
32.5°	4657.0	4639.6	4542.8	4386.4	4212.6	4155.5	4175.4	4083.5	3907.3	3510.1	3145.2
35°	4905.2	4910.2	4840.7	4699.2	4493.1	4341.7	4356.6	4244.9	4068.6	3626.8	3219.7
37.5°	5190.7	5208.1	5103.8	4997.1	4805.9	4547.7	4562.6	4411.2	4230.0	3773.2	3299.1
40°	5585.4	5550.6	5374.4	5247.8	5036.8	4763.7	4776.1	4597.4	4416.2	3912.2	3390.9
42.5°	5915.5	5853.5	5640.0	5478.6	5225.4	4992.1	5004.5	4798.5	4604.8	4066.2	3492.7
45°	6389.7	6218.4	5910.6	5831.1	5419.1	5215.5	5227.9	5011.9	4803.4	4230.0	3601.9
47.5°	6665.2	6392.2	6196.0	6153.8	5632.5	5446.4	5461.3	5237.8	5016.9	4416.2	3716.1
50°	6647.8	6471.6	6414.5	6310.2	5821.2	5662.3	5677.2	5471.2	5232.9	4599.9	3825.4
52.5°	6533.6	6565.9	6536.1	6362.4	6009.9	5870.9	5888.2	5702.0	5453.8	4771.2	3927.1
55°	6709.9	6732.2	6675.1	6446.8	6218.4	6079.4	6099.2	5945.3	5672.3	4922.6	4014.0
57.5°	6920.9	6841.5	6784.4	6595.7	6434.4	6305.3	6327.6	6193.6	5860.9	5044.2	4081.0
60°	6911.0	6744.7	6801.7	6605.6	6580.8	6513.8	6533.6	6397.1	6004.9	5133.6	4108.4
62.5°	6402.1	6312.7	6600.7	6533.6	6700.0	6700.0	6724.8	6521.2	6091.8	5170.8	4093.5
65°	5518.4	5523.3	6029.7	6307.8	6841.5	6955.7	6975.5	6598.2	6042.1	5061.6	3954.4
67.5°	4396.3	4428.6	5155.9	5734.3	6700.0	7129.4	7131.9	6667.7	5828.7	4753.8	3631.7
70°	3217.2	3242.0	4100.9	4803.4	6032.2	6744.7	6704.9	6471.6	5364.4	4217.6	3127.8
72.5°	2174.6	2196.9	3080.6	3688.8	4949.9	5744.2	5657.4	5719.4	4572.6	3465.4	2514.7
75°	1462.1	1489.4	2192.0	2638.8	3641.7	4361.6	4167.9	4331.8	3537.4	2623.9	1834.5
77.5°	921.0	938.3	1392.6	1730.2	2487.4	2968.9	2775.3	2777.8	2038.0	1412.5	985.5
80°	585.8	590.8	844.0	997.9	1439.8	1784.8	1578.8	1283.4	918.5	749.7	588.3
82.5°	340.1	332.6	503.9	563.5	685.1	677.7	561.0	531.2	402.1	374.8	300.4
85°	136.5	126.6	220.9	206.0	208.5	220.9	163.8	163.8	131.6	101.8	74.5
87.5°	27.3	27.3	29.8	27.3	27.3	29.8	22.3	22.3	19.9	19.9	19.9
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°	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7	2720.7
2.5°	2700.8	2695.9	2683.5	2651.2	2633.8	2623.9	2609.0	2604.0	2601.5	2604.0	2611.5
5°	2708.3	2690.9	2656.2	2604.0	2569.3	2546.9	2522.1	2512.2	2504.7	2504.7	2512.2
7.5°	2713.3	2685.9	2626.4	2549.4	2499.8	2465.0	2435.2	2422.8	2420.3	2427.8	2430.3
10°	2715.7	2676.0	2591.6	2494.8	2430.3	2385.6	2355.8	2348.3	2355.8	2370.7	2373.2
12.5°	2733.1	2678.5	2571.8	2457.6	2380.6	2335.9	2313.6	2313.6	2333.4	2360.8	2363.2
15°	2762.9	2695.9	2561.8	2427.8	2348.3	2308.6	2301.2	2313.6	2343.4	2385.6	2390.5
17.5°	2785.2	2705.8	2539.5	2388.1	2306.1	2281.3	2293.7	2323.5	2365.7	2422.8	2427.8
20°	2800.1	2705.8	2507.2	2340.9	2263.9	2259.0	2293.7	2340.9	2385.6	2452.6	2460.0
22.5°	2815.0	2700.8	2470.0	2283.8	2216.8	2231.7	2296.2	2355.8	2400.5	2472.5	2484.9
25°	2842.3	2708.3	2432.7	2226.7	2167.1	2209.3	2293.7	2365.7	2412.9	2487.4	2507.2
27.5°	2879.6	2725.7	2405.4	2174.6	2117.5	2174.6	2276.4	2363.2	2412.9	2484.9	2507.2
30°	2919.3	2745.5	2373.2	2117.5	2060.4	2124.9	2239.1	2335.9	2393.0	2460.0	2487.4
32.5°	2961.5	2767.9	2345.9	2055.4	1990.9	2057.9	2184.5	2293.7	2355.8	2417.8	2447.6
35°	3018.6	2807.6	2331.0	2005.8	1928.8	1988.4	2115.0	2239.1	2306.1	2363.2	2398.0
37.5°	3088.1	2857.2	2323.5	1956.1	1861.8	1911.4	2040.5	2172.1	2244.1	2291.2	2323.5
40°	3167.5	2919.3	2321.0	1909.0	1794.8	1832.0	1963.6	2095.1	2164.6	2201.9	2229.2
42.5°	3256.9	2988.8	2316.1	1861.8	1727.7	1757.5	1889.1	2018.2	2077.8	2110.0	2134.9
45°	3351.2	3058.3	2306.1	1804.7	1655.8	1690.5	1812.1	1926.3	1988.4	2015.7	2043.0
47.5°	3445.6	3127.8	2286.3	1740.2	1591.2	1623.5	1730.2	1829.5	1879.2	1904.0	1931.3
50°	3537.4	3189.9	2239.1	1665.7	1524.2	1554.0	1635.9	1702.9	1740.2	1760.0	1787.3
52.5°	3619.3	3232.1	2172.1	1578.8	1457.2	1472.1	1526.7	1583.8	1613.6	1616.0	1640.9
55°	3688.8	3254.4	2075.3	1489.4	1385.2	1387.7	1417.4	1462.1	1474.5	1464.6	1482.0
57.5°	3728.5	3242.0	1968.5	1397.6	1310.7	1300.8	1323.1	1345.5	1347.9	1323.1	1340.5
60°	3738.5	3184.9	1829.5	1305.7	1236.2	1208.9	1216.4	1211.4	1206.4	1196.5	1211.4
62.5°	3688.8	3063.3	1675.6	1216.4	1156.8	1114.6	1112.1	1109.6	1117.1	1119.6	1122.0
65°	3507.6	2834.9	1491.9	1124.5	1072.4	1015.3	1012.8	1042.6	1052.5	1037.6	1042.6
67.5°	3157.6	2484.9	1290.8	1017.8	965.6	916.0	935.9	953.2	970.6	965.6	970.6
70°	2661.1	2040.5	1107.1	898.6	849.0	821.7	844.0	858.9	861.4	856.4	861.4
72.5°	2092.7	1593.7	935.9	777.0	732.3	719.9	747.2	759.6	782.0	791.9	794.4
75°	1511.8	1176.7	767.1	645.4	608.2	608.2	633.0	655.4	675.2	662.8	655.4
77.5°	844.0	702.5	551.1	444.3	451.8	486.5	496.5	521.3	541.2	538.7	533.7
80°	511.4	439.4	372.4	288.0	285.5	312.8	377.3	419.5	429.5	407.1	404.6
82.5°	265.6	230.9	198.6	161.4	178.7	208.5	218.5	263.1	290.4	280.5	292.9
85°	67.0	64.5	72.0	74.5	91.8	101.8	111.7	131.6	86.9	42.2	42.2
87.5°	19.9	19.9	24.8	24.8	32.3	39.7	37.2	37.2	19.9	2.5	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)