

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: P835898

Luminaire Tested: **ARCH3-110-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11593 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

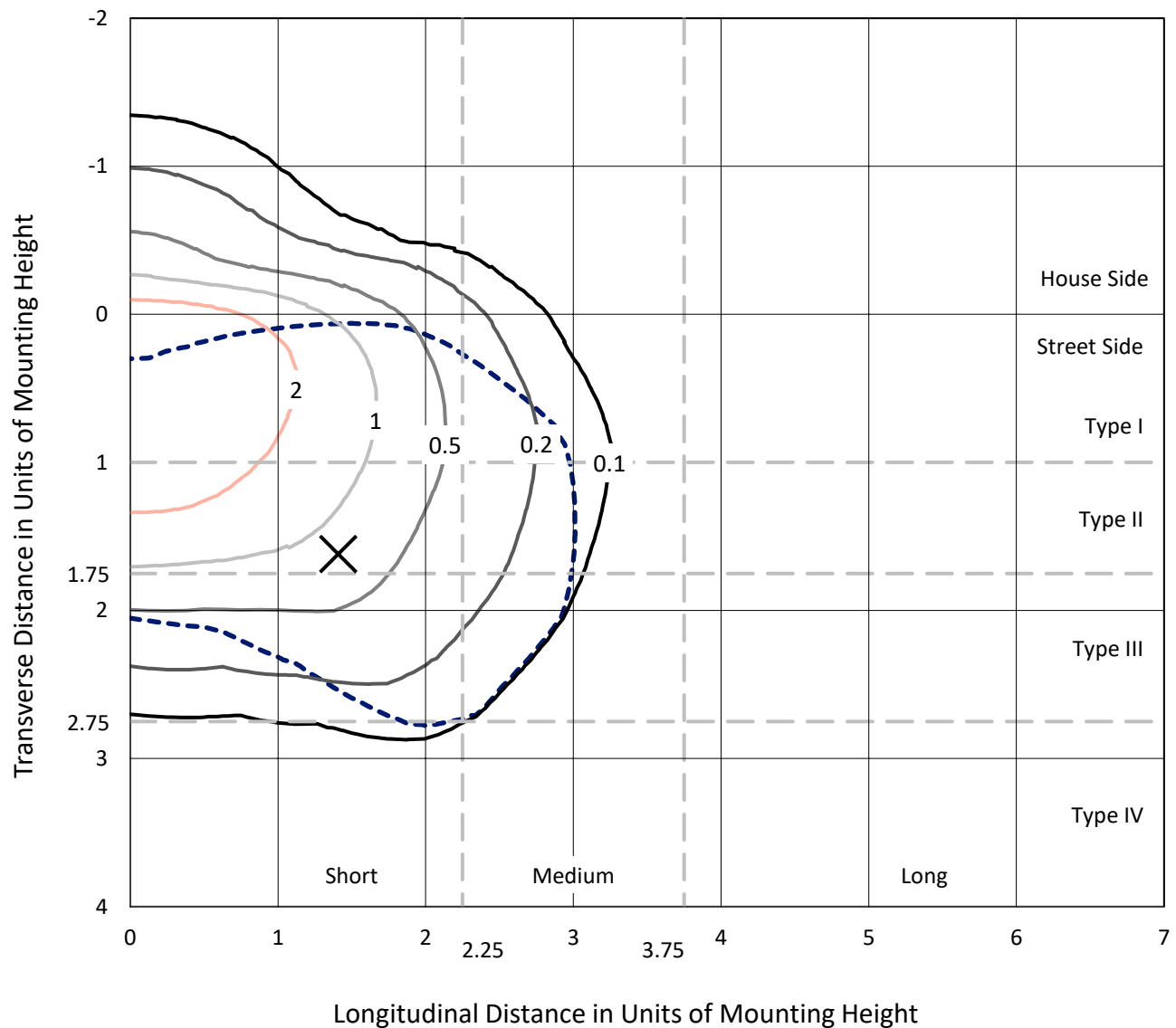
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

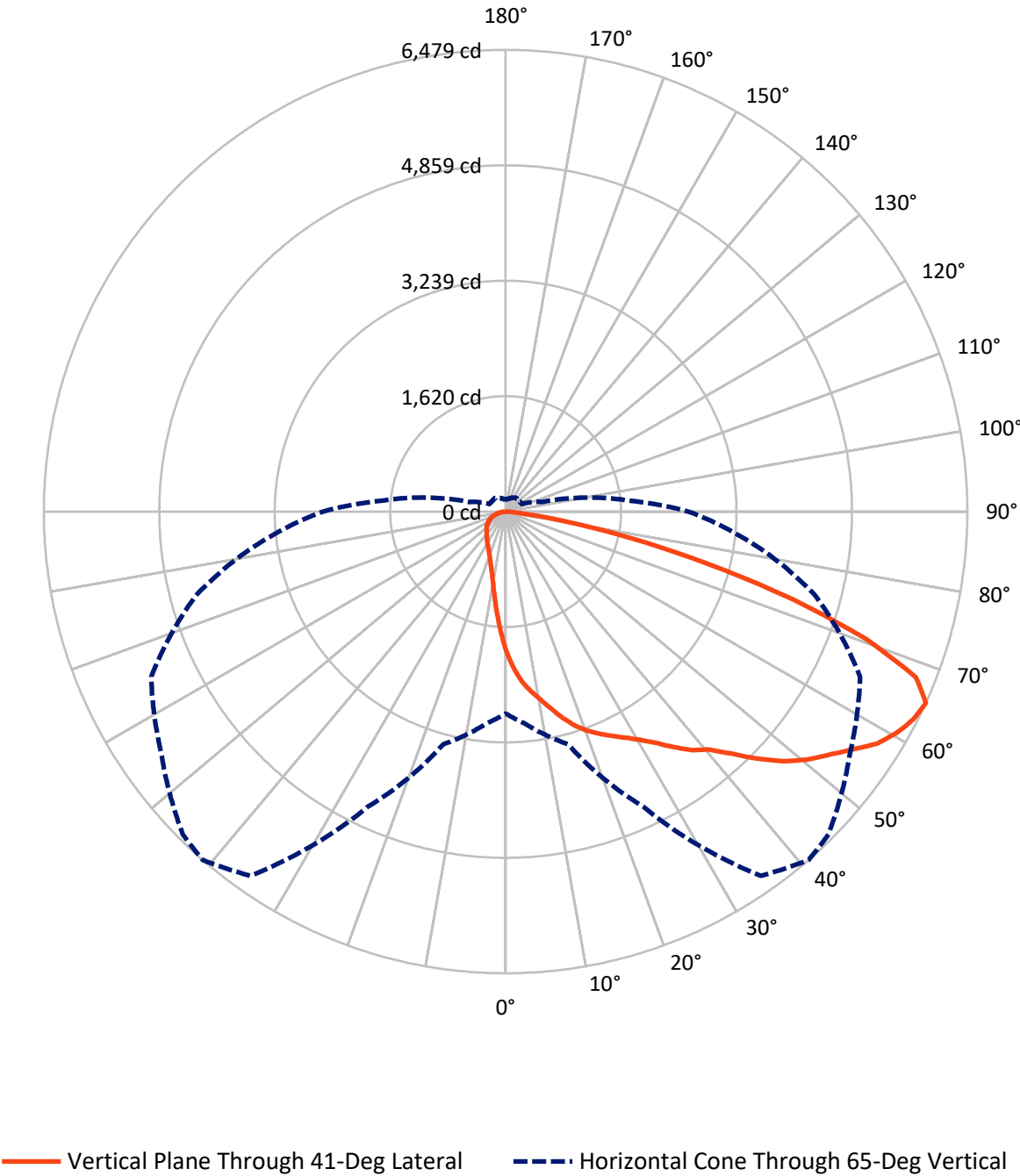
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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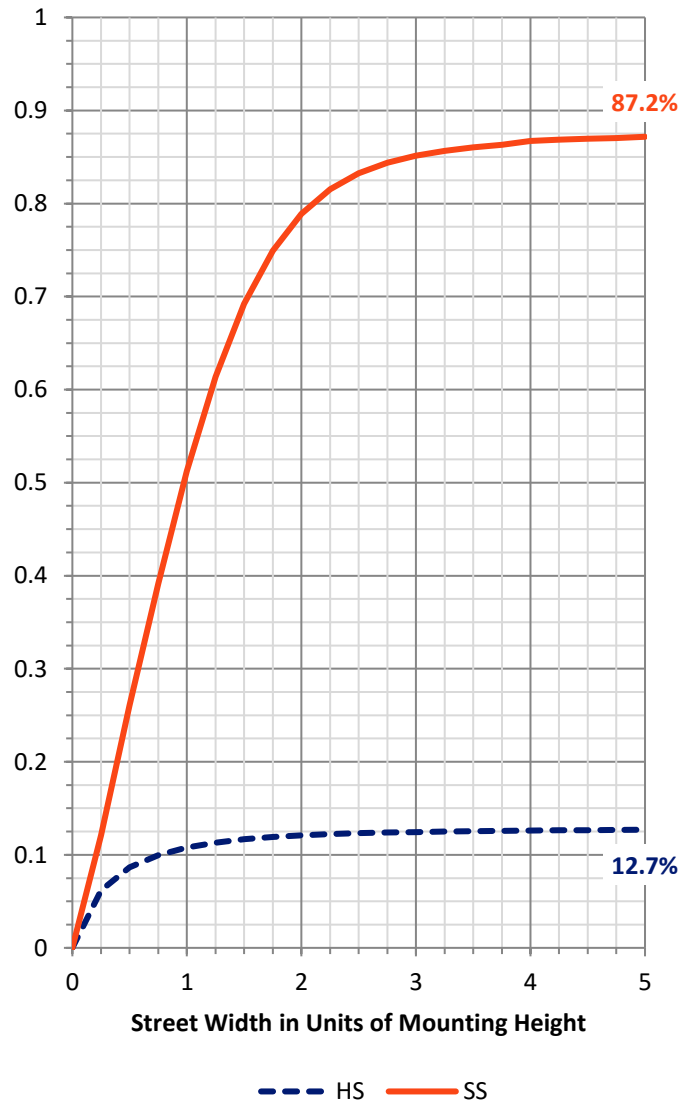
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1488.4	0.0	1488.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10104.6	0.0	10104.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	11593.0	0.0	11593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.6
10°-20°	551.9	4.8
20°-30°	949.5	8.2
30°-40°	1440.0	12.4
40°-50°	2109.7	18.2
50°-60°	2664.0	23.0
60°-70°	2498.0	21.5
70°-80°	1113.4	9.6
80°-90°	82.5	0.7
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°	11593.0	100.0
0°-180°	11593.0	100.0

Coefficient of Utilization



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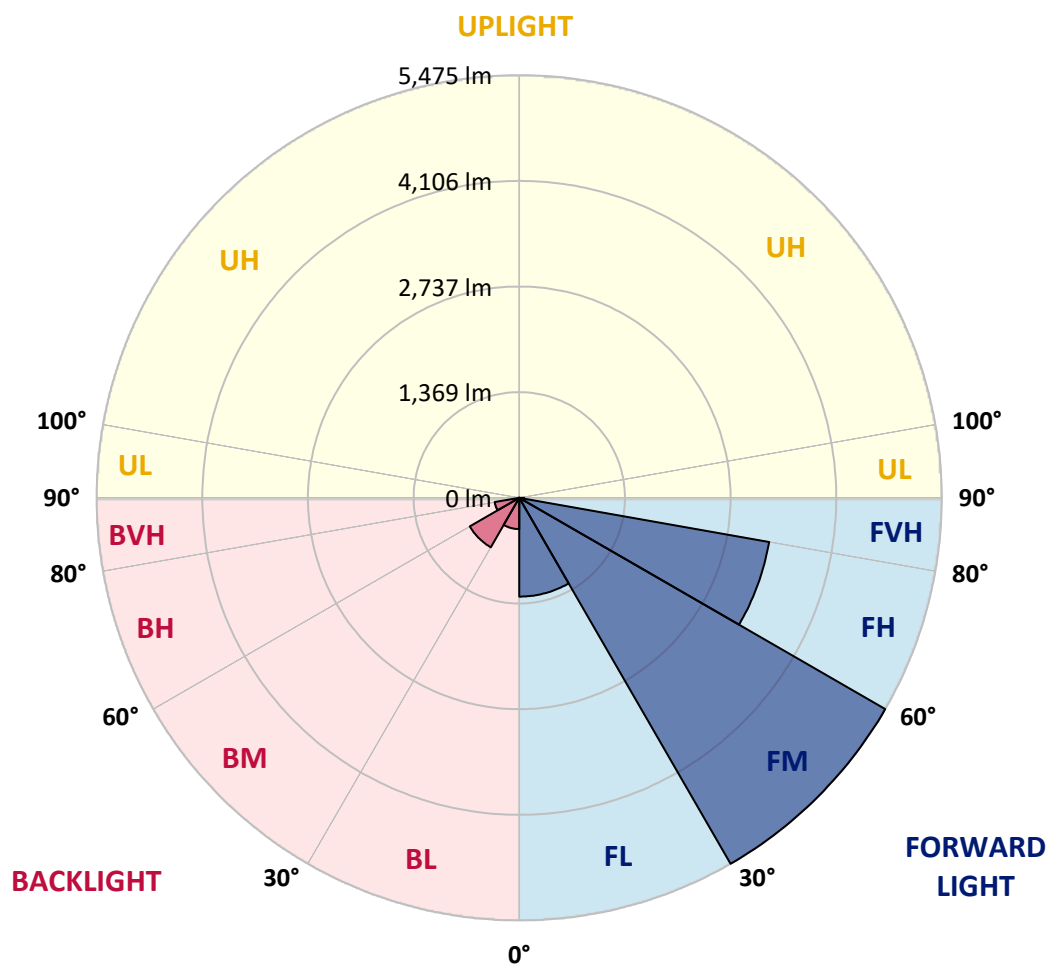
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1280.3	11.0			
FM	(30°-60°)	5474.7	47.2			
FH	(60°-80°)	3288.1	28.4			G2/5000
FVH	(80°-90°)	61.6	0.5			G1/100
BL	(0°-30°)	405.1	3.5	B1/500		
BM	(30°-60°)	739.0	6.4	B1/1000		
BH	(60°-80°)	323.3	2.8	B1/500		G1/500
BVH	(80°-90°)	20.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
2.5°	2278.5	2271.2	2266.3	2239.4	2239.4	2202.8	2205.2	2171.0	2129.4	2063.4	1992.5
5°	2493.7	2483.9	2471.7	2444.8	2435.0	2398.3	2393.4	2344.5	2273.7	2158.7	2031.6
7.5°	2681.9	2672.2	2655.0	2615.9	2589.0	2545.0	2532.8	2469.2	2391.0	2249.2	2070.7
10°	2853.1	2845.7	2823.7	2774.8	2738.2	2684.4	2662.4	2576.8	2479.0	2322.5	2102.5
12.5°	3026.6	3016.9	2987.5	2946.0	2902.0	2838.4	2811.5	2701.5	2576.8	2403.2	2149.0
15°	3188.0	3173.3	3151.3	3107.3	3068.2	3007.1	2977.7	2848.2	2696.6	2493.7	2210.1
17.5°	3293.1	3280.9	3261.3	3236.9	3205.1	3158.7	3129.3	3002.2	2816.4	2581.7	2273.7
20°	3356.7	3351.8	3344.5	3329.8	3315.1	3283.3	3261.3	3141.5	2946.0	2667.3	2334.8
22.5°	3405.6	3400.7	3398.3	3398.3	3400.7	3388.5	3373.8	3271.1	3070.7	2757.7	2391.0
25°	3481.4	3478.9	3474.0	3469.2	3486.3	3488.7	3483.8	3412.9	3227.1	2877.5	2461.9
27.5°	3586.5	3579.2	3569.4	3564.5	3581.6	3593.8	3603.6	3554.7	3393.4	2999.8	2542.6
30°	3747.9	3725.9	3701.4	3684.3	3696.5	3716.1	3738.1	3708.7	3564.5	3151.3	2625.7
32.5°	3938.5	3911.7	3855.4	3823.6	3855.4	3870.1	3887.2	3872.5	3743.0	3315.1	2708.8
35°	4170.8	4139.0	4080.3	4033.9	4090.1	4058.3	4051.0	4036.3	3911.7	3476.5	2801.7
37.5°	4557.1	4510.6	4417.7	4315.0	4315.0	4246.6	4219.7	4175.7	4063.2	3620.7	2892.2
40°	5004.5	4943.4	4823.6	4672.0	4532.6	4390.8	4373.7	4341.9	4241.7	3787.0	2994.9
42.5°	5495.9	5378.5	5212.3	5028.9	4804.0	4642.6	4603.5	4513.1	4415.3	3955.7	3097.5
45°	6041.1	5796.6	5554.6	5461.7	5090.0	4943.4	4870.0	4706.2	4596.2	4131.7	3205.1
47.5°	6129.1	5938.4	5777.0	5762.4	5356.5	5234.3	5151.2	4916.5	4791.8	4319.9	3317.6
50°	6080.2	5965.3	5982.4	5923.7	5552.1	5471.4	5407.9	5141.4	4984.9	4500.8	3420.3
52.5°	5874.8	5938.4	6036.2	5928.6	5737.9	5671.9	5640.1	5383.4	5165.8	4667.1	3513.2
55°	5630.3	5674.3	5884.6	6016.6	5953.1	5894.4	5865.0	5664.6	5344.3	4806.4	3598.7
57.5°	5273.4	5253.8	5486.1	6001.9	6178.0	6143.7	6112.0	5940.8	5510.5	4906.7	3652.5
60°	4738.0	4696.4	4989.8	5708.6	6251.3	6305.1	6290.4	6124.2	5637.7	4904.2	3630.5
62.5°	3811.4	3914.1	4319.9	5229.4	6283.1	6420.0	6393.1	6138.9	5679.2	4762.4	3491.2
65°	2833.5	2980.2	3378.7	4569.3	6239.1	6478.7	6405.3	5899.3	5486.1	4481.3	3185.6
67.5°	2041.4	2171.0	2461.9	3760.1	5816.1	6209.8	6124.2	5508.1	5041.1	4082.8	2762.6
70°	1396.0	1488.9	1686.9	2738.2	4965.4	5368.7	5315.0	4923.8	4339.5	3608.5	2244.3
72.5°	985.2	1024.4	1151.5	1806.7	3772.3	4212.4	4148.8	4051.0	3486.3	2999.8	1745.6
75°	738.3	762.8	831.2	1168.6	2545.0	2919.1	2860.4	2916.6	2603.7	2271.2	1271.3
77.5°	278.7	303.2	471.8	745.7	1506.0	1792.0	1733.4	1767.6	1447.3	1146.6	633.2
80°	75.8	80.7	156.5	354.5	684.5	892.3	811.7	696.8	537.9	528.1	334.9
82.5°	31.8	36.7	70.9	190.7	244.5	244.5	205.4	254.3	205.4	246.9	161.4
85°	12.2	14.7	17.1	48.9	31.8	34.2	36.7	48.9	41.6	51.3	36.7
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	2.4	4.9	7.3	7.3	7.3
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°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
2.5°	1963.2	1936.3	1897.2	1833.6	1767.6	1730.9	1684.5	1677.1	1628.2	1623.3	1603.8
5°	1975.4	1919.2	1818.9	1696.7	1576.9	1484.0	1415.5	1378.9	1308.0	1308.0	1288.4
7.5°	1985.2	1897.2	1735.8	1554.9	1391.1	1266.4	1173.5	1134.4	1070.8	1065.9	1051.3
10°	1987.6	1870.3	1645.3	1410.6	1210.2	1083.0	992.6	948.6	892.3	887.5	877.7
12.5°	2007.2	1855.6	1564.7	1286.0	1080.6	943.7	855.7	819.0	775.0	770.1	760.3
15°	2039.0	1855.6	1496.2	1180.8	965.7	838.6	762.8	728.5	696.8	691.9	687.0
17.5°	2070.7	1850.7	1427.8	1083.0	870.3	755.4	689.4	662.5	638.1	635.6	630.8
20°	2100.1	1848.3	1359.3	999.9	797.0	687.0	635.6	611.2	591.6	591.6	589.2
22.5°	2129.4	1843.4	1293.3	921.7	733.4	635.6	591.6	564.7	550.1	550.1	547.6
25°	2173.4	1843.4	1232.2	855.7	682.1	596.5	552.5	533.0	520.7	518.3	518.3
27.5°	2224.8	1858.0	1178.4	797.0	638.1	557.4	523.2	503.6	489.0	484.1	486.5
30°	2281.0	1870.3	1129.5	745.7	596.5	528.1	491.4	471.8	457.2	452.3	454.7
32.5°	2337.2	1884.9	1085.5	699.2	555.0	501.2	464.5	442.5	427.8	425.4	425.4
35°	2398.3	1899.6	1041.5	660.1	520.7	474.3	440.1	415.6	405.8	400.9	403.4
37.5°	2459.5	1924.0	999.9	623.4	496.3	449.8	418.1	393.6	386.3	383.8	383.8
40°	2532.8	1960.7	982.8	599.0	474.3	427.8	400.9	376.5	369.2	369.2	369.2
42.5°	2593.9	1990.1	968.1	572.1	457.2	408.3	383.8	364.3	359.4	356.9	359.4
45°	2655.0	2016.9	948.6	547.6	435.2	388.7	369.2	349.6	344.7	344.7	344.7
47.5°	2716.2	2031.6	921.7	523.2	415.6	371.6	354.5	337.4	332.5	332.5	332.5
50°	2765.1	2043.8	882.6	496.3	393.6	356.9	339.8	322.7	317.8	317.8	317.8
52.5°	2813.9	2046.3	841.0	464.5	371.6	339.8	325.2	308.0	303.2	300.7	300.7
55°	2858.0	2043.8	792.1	427.8	347.2	320.3	308.0	293.4	283.6	273.8	278.7
57.5°	2889.7	2041.4	735.9	391.2	322.7	300.7	295.8	276.3	256.7	232.3	237.1
60°	2877.5	2014.5	674.8	344.7	295.8	281.2	281.2	254.3	220.0	207.8	210.3
62.5°	2799.3	1938.7	611.2	295.8	268.9	261.6	259.1	229.8	202.9	190.7	193.1
65°	2564.6	1748.0	518.3	251.8	242.0	239.6	239.6	212.7	188.2	173.6	176.0
67.5°	2207.6	1466.9	422.9	212.7	215.1	220.0	220.0	195.6	171.1	156.5	158.9
70°	1770.0	1146.6	337.4	183.4	185.8	193.1	198.0	176.0	154.0	139.4	139.4
72.5°	1332.4	870.3	271.4	154.0	166.2	166.2	173.6	156.5	134.5	119.8	122.2
75°	965.7	623.4	215.1	129.6	144.2	141.8	141.8	132.0	114.9	105.1	105.1
77.5°	457.2	327.6	171.1	92.9	112.5	110.0	112.5	105.1	97.8	88.0	90.5
80°	224.9	161.4	110.0	66.0	78.2	80.7	88.0	83.1	80.7	73.3	73.3
82.5°	107.6	63.6	51.3	46.5	53.8	56.2	61.1	61.1	63.6	58.7	58.7
85°	29.3	17.1	22.0	29.3	34.2	36.7	41.6	44.0	44.0	41.6	44.0
87.5°	7.3	7.3	9.8	14.7	17.1	19.6	22.0	22.0	9.8	0.0	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)