

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: P840931

Luminaire Tested: **ARCH4-110-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11677 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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



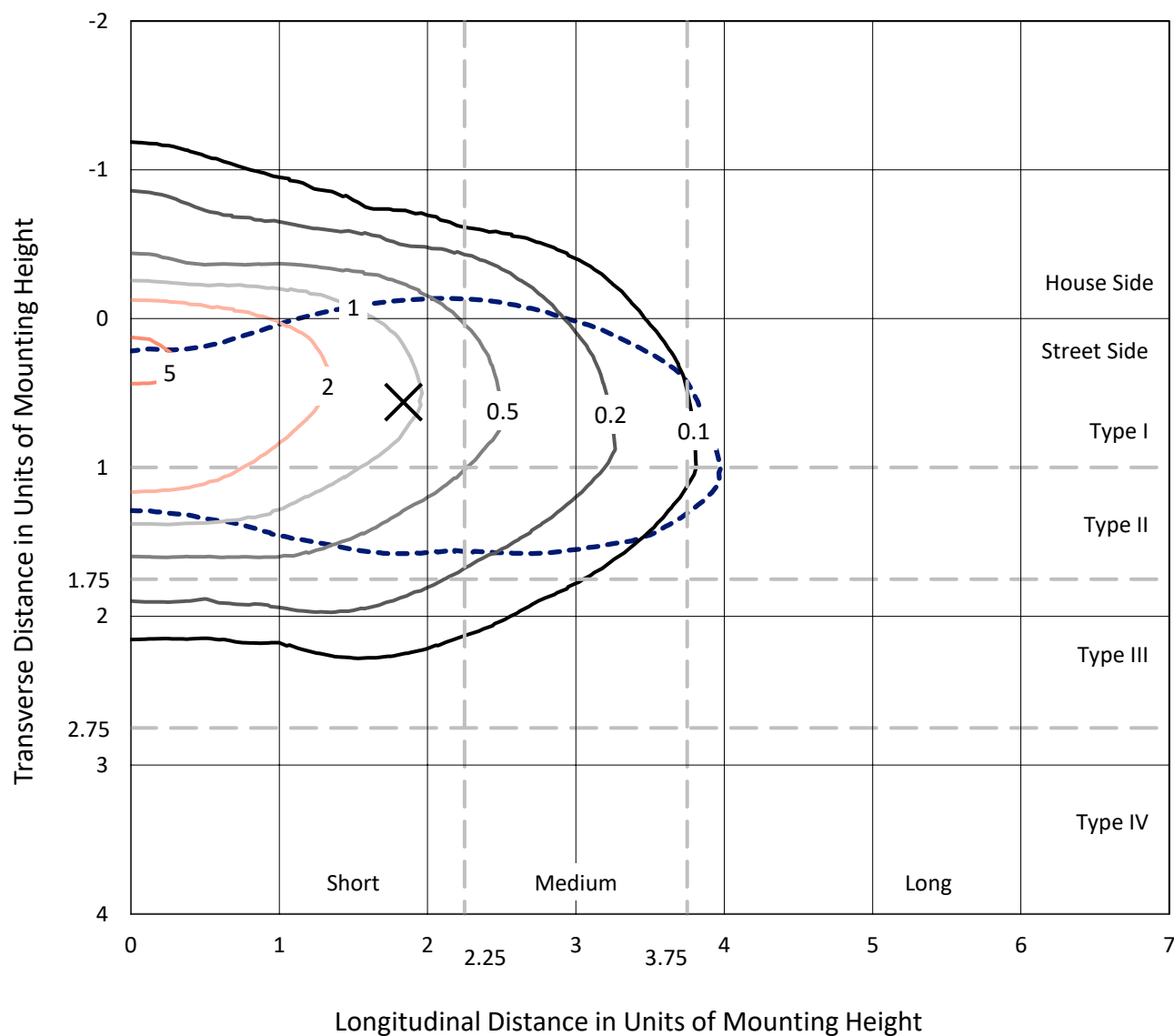
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

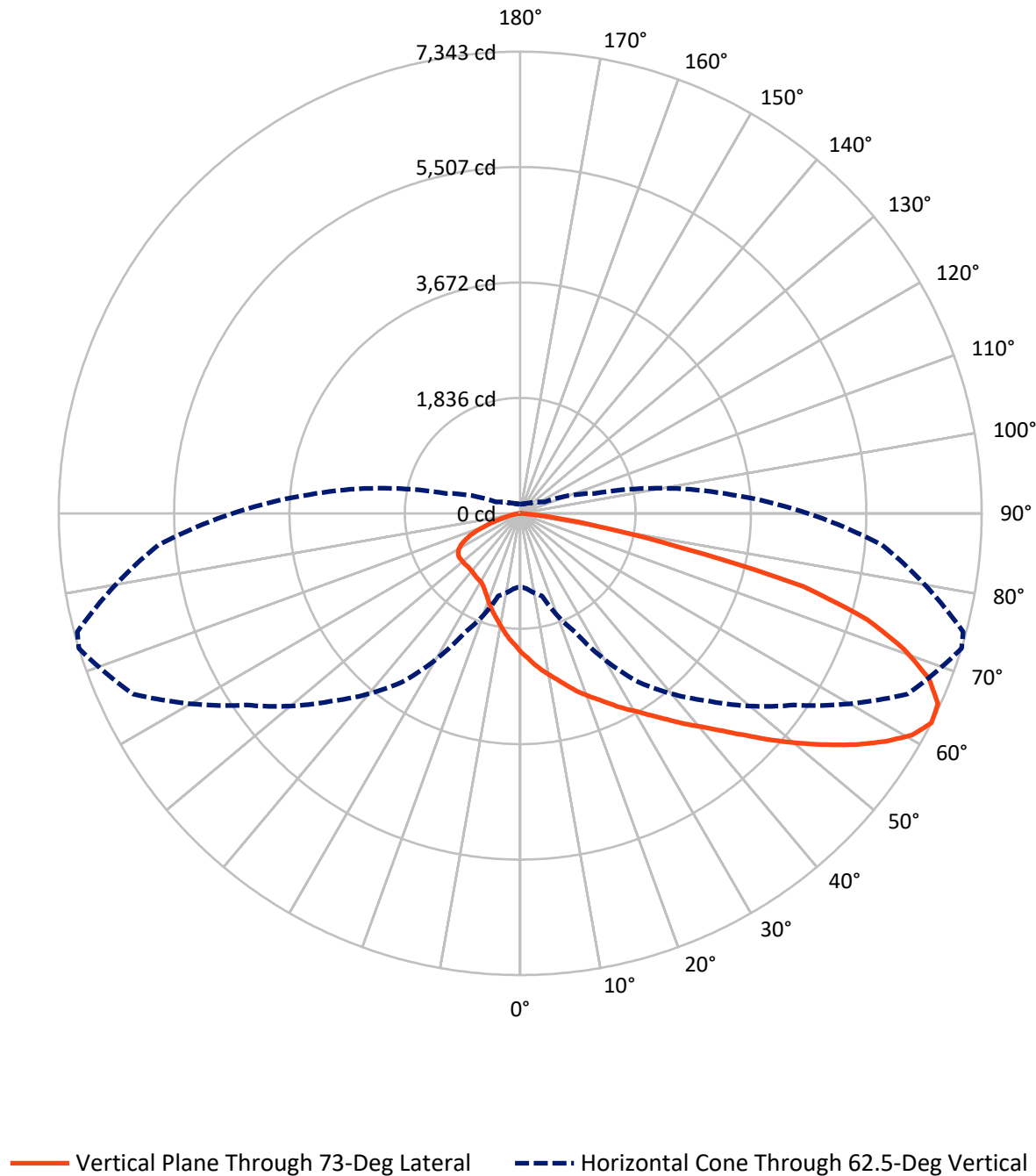


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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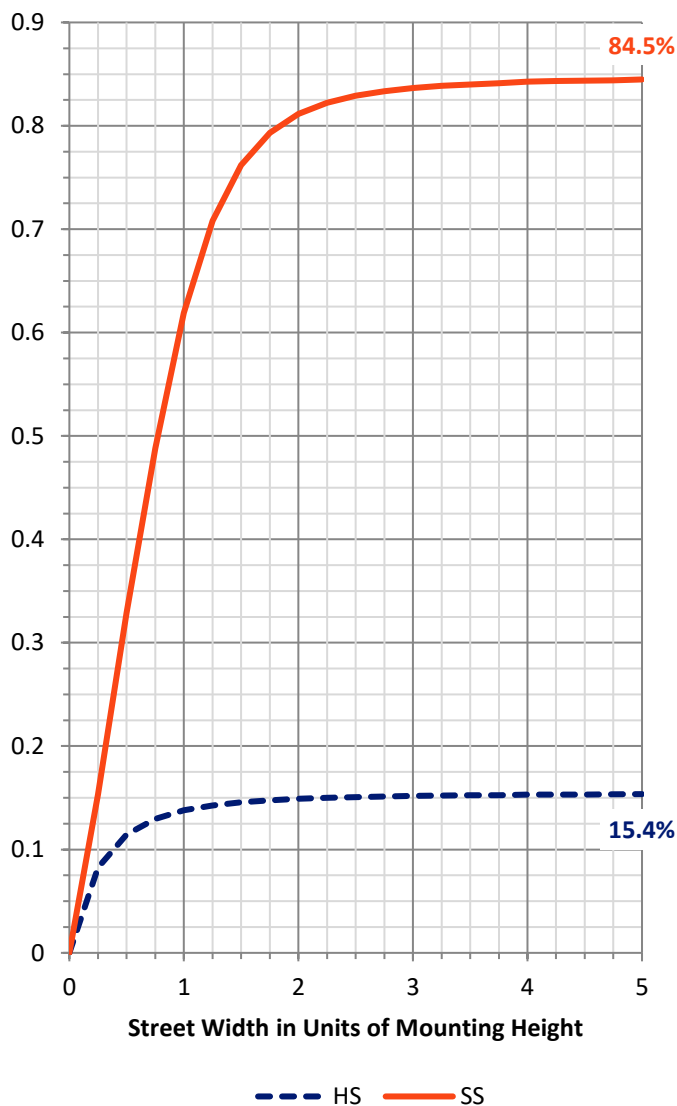
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1810.1	0.0	1810.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9866.9	0.0	9866.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	11677.0	0.0	11677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.8
10°-20°	644.6	5.5
20°-30°	1072.9	9.2
30°-40°	1618.8	13.9
40°-50°	2262.7	19.4
50°-60°	2499.3	21.4
60°-70°	2177.2	18.6
70°-80°	1099.8	9.4
80°-90°	88.3	0.8
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°	11677.0	100.0
0°-180°	11677.0	100.0

Coefficient of Utilization



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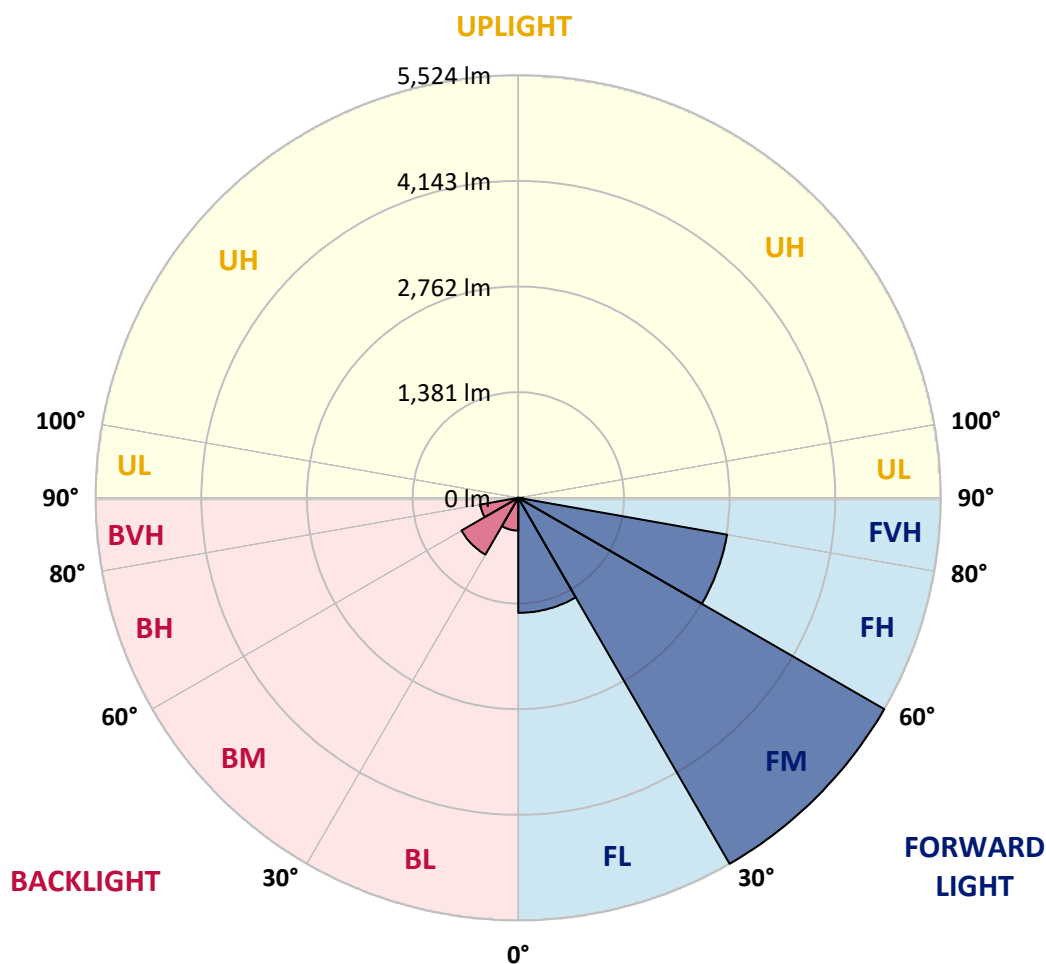
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1503.2	12.9			
FM	(30°-60°)	5523.7	47.3			
FH	(60°-80°)	2771.7	23.7			G2/5000
FVH	(80°-90°)	68.3	0.6			G1/100
BL	(0°-30°)	427.8	3.7	B1/500		
BM	(30°-60°)	857.1	7.3	B1/1000		
BH	(60°-80°)	505.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	20.0	0.2			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1
2.5°	2516.4	2544.4	2529.1	2539.3	2488.4	2455.3	2417.2	2343.4	2302.7	2297.6	2249.2
5°	2885.3	2915.9	2890.4	2882.8	2793.7	2717.4	2630.9	2501.1	2414.6	2399.3	2292.5
7.5°	3254.3	3282.2	3251.7	3228.8	3109.2	2974.4	2847.2	2656.3	2521.5	2496.0	2328.1
10°	3513.8	3539.2	3516.3	3493.4	3368.8	3231.4	3050.7	2801.4	2618.2	2577.5	2351.0
12.5°	3709.7	3725.0	3714.8	3694.4	3577.4	3429.8	3256.8	2964.2	2727.6	2676.7	2386.6
15°	3870.0	3895.4	3882.7	3867.5	3755.5	3607.9	3442.5	3134.7	2854.8	2791.2	2440.1
17.5°	3976.9	3994.7	3997.2	3997.2	3898.0	3753.0	3592.7	3289.9	2982.0	2900.6	2490.9
20°	4025.2	4045.6	4058.3	4078.6	3997.2	3872.5	3709.7	3422.2	3101.6	3010.0	2539.3
22.5°	4048.1	4065.9	4099.0	4144.8	4078.6	3974.3	3824.2	3544.3	3221.2	3124.5	2595.3
25°	4065.9	4088.8	4137.2	4223.7	4177.9	4088.8	3959.1	3684.3	3363.7	3264.4	2676.7
27.5°	4114.3	4142.2	4188.0	4292.4	4236.4	4193.1	4101.5	3834.4	3513.8	3412.0	2775.9
30°	4282.2	4305.1	4302.5	4368.7	4300.0	4287.3	4223.7	3979.4	3658.8	3557.0	2893.0
32.5°	4587.5	4610.4	4554.4	4529.0	4378.9	4381.4	4356.0	4134.6	3831.8	3727.5	3027.8
35°	4915.7	4941.2	4867.4	4824.1	4572.2	4498.5	4511.2	4328.0	4025.2	3920.9	3195.7
37.5°	5208.3	5238.9	5175.3	5111.7	4857.2	4686.7	4684.2	4544.3	4246.6	4139.7	3381.5
40°	5368.6	5404.3	5442.4	5406.8	5139.6	4951.4	4869.9	4765.6	4465.4	4356.0	3582.5
42.5°	5445.0	5544.2	5612.9	5590.0	5371.2	5180.4	5083.7	4997.2	4732.5	4625.7	3821.7
45°	5231.2	5233.8	5378.8	5503.5	5462.8	5335.6	5317.8	5256.7	5037.9	4936.1	4091.4
47.5°	4964.1	4943.7	5045.5	5266.9	5381.4	5414.4	5518.8	5544.2	5386.4	5284.7	4366.2
50°	4322.9	4335.6	4666.4	4984.4	5208.3	5422.1	5661.2	5839.3	5745.2	5648.5	4656.2
52.5°	3516.3	3546.9	3926.0	4625.7	4979.3	5345.7	5745.2	6134.5	6111.6	6020.0	4946.3
55°	2819.2	2867.5	3269.5	4027.8	4686.7	5175.3	5780.8	6404.2	6490.7	6406.7	5231.2
57.5°	2155.1	2206.0	2544.4	3323.0	4312.7	4897.9	5755.4	6640.8	6844.4	6790.9	5493.3
60°	1623.3	1674.2	1890.5	2694.5	3844.6	4587.5	5628.2	6796.0	7162.4	7106.4	5684.1
62.5°	1162.8	1203.5	1363.8	2096.6	3274.6	4218.6	5315.2	6798.6	7343.1	7297.3	5775.7
65°	837.1	837.1	966.9	1496.1	2740.3	3775.9	4842.0	6485.6	7304.9	7292.2	5712.1
67.5°	603.0	608.1	712.4	1045.7	2185.6	3239.0	4228.8	5928.4	7009.8	7073.4	5483.1
70°	427.5	440.2	488.5	730.2	1651.3	2557.1	3572.3	5198.2	6478.0	6589.9	5040.4
72.5°	330.8	338.4	371.5	508.9	1206.0	1900.7	2847.2	4384.0	5768.1	5895.3	4437.4
75°	254.4	262.1	287.5	374.0	865.1	1333.3	2022.8	3401.8	4651.1	4877.6	3564.7
77.5°	185.7	195.9	213.7	272.2	503.8	847.3	1226.4	1913.4	2567.3	2674.1	1867.6
80°	86.5	99.2	124.7	175.6	272.2	399.5	435.1	737.9	1234.0	1290.0	1012.7
82.5°	48.3	61.1	71.2	106.9	137.4	142.5	147.6	185.7	465.6	514.0	424.9
85°	22.9	30.5	33.1	45.8	45.8	40.7	48.3	35.6	76.3	91.6	89.1
87.5°	0.0	2.5	5.1	12.7	10.2	7.6	7.6	7.6	7.6	10.2	7.6
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°	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1	2211.1
2.5°	2226.3	2193.3	2116.9	2050.8	2007.5	1969.3	1918.5	1895.6	1854.9	1862.5	1839.6
5°	2239.1	2178.0	2043.1	1918.5	1826.9	1745.4	1656.4	1605.5	1549.5	1544.4	1526.6
7.5°	2246.7	2152.5	1959.2	1783.6	1643.7	1519.0	1399.4	1333.3	1264.6	1249.3	1234.0
10°	2239.1	2114.4	1872.7	1643.7	1457.9	1302.7	1167.9	1083.9	1012.7	994.9	979.6
12.5°	2246.7	2094.0	1791.2	1513.9	1292.5	1117.0	964.3	877.8	811.7	793.8	783.7
15°	2264.5	2081.3	1722.5	1396.9	1145.0	949.1	798.9	725.1	671.7	653.9	648.8
17.5°	2279.8	2068.6	1648.8	1282.4	997.4	801.5	671.7	610.7	564.9	547.0	542.0
20°	2300.1	2050.8	1575.0	1173.0	867.6	684.4	569.9	516.5	480.9	468.2	465.6
22.5°	2317.9	2038.0	1506.3	1063.6	748.0	590.3	493.6	450.4	424.9	412.2	412.2
25°	2363.7	2043.1	1447.8	961.8	659.0	516.5	435.1	402.0	381.7	374.0	374.0
27.5°	2417.2	2063.5	1402.0	875.3	582.7	460.5	394.4	366.4	356.2	346.0	348.6
30°	2493.5	2104.2	1371.4	804.0	526.7	417.3	361.3	340.9	330.8	328.2	328.2
32.5°	2590.2	2170.4	1368.9	758.2	486.0	384.2	338.4	320.6	315.5	313.0	313.0
35°	2704.7	2228.9	1353.6	737.9	460.5	361.3	320.6	307.9	305.3	305.3	305.3
37.5°	2842.1	2325.6	1343.4	709.9	447.8	348.6	307.9	297.7	297.7	297.7	297.7
40°	2984.6	2404.4	1328.2	684.4	442.7	340.9	300.2	287.5	287.5	287.5	287.5
42.5°	3155.0	2518.9	1323.1	671.7	435.1	335.9	290.1	274.8	277.3	277.3	279.9
45°	3361.1	2648.7	1320.5	659.0	432.5	330.8	279.9	262.1	264.6	262.1	262.1
47.5°	3569.8	2798.8	1328.2	651.4	430.0	325.7	272.2	249.3	249.3	246.8	246.8
50°	3788.6	2936.2	1333.3	643.7	424.9	315.5	259.5	239.2	234.1	229.0	231.5
52.5°	3994.7	3063.4	1335.8	631.0	409.6	300.2	249.3	226.4	218.8	211.2	213.7
55°	4200.8	3185.6	1340.9	615.7	389.3	285.0	236.6	213.7	203.6	193.4	193.4
57.5°	4386.5	3292.4	1328.2	577.6	366.4	269.7	223.9	198.5	183.2	173.0	173.0
60°	4513.7	3368.8	1290.0	521.6	335.9	251.9	211.2	183.2	165.4	157.8	157.8
62.5°	4574.8	3381.5	1221.3	430.0	297.7	234.1	195.9	167.9	152.7	147.6	147.6
65°	4516.3	3325.5	1114.4	323.1	257.0	213.7	180.7	155.2	139.9	127.2	127.2
67.5°	4312.7	3167.8	966.9	244.3	218.8	193.4	165.4	142.5	124.7	114.5	114.5
70°	3903.1	2839.5	748.0	195.9	185.7	167.9	150.1	127.2	112.0	99.2	99.2
72.5°	3366.2	2407.0	526.7	157.8	157.8	142.5	127.2	112.0	96.7	86.5	86.5
75°	2582.5	1781.1	353.7	127.2	129.8	119.6	104.3	91.6	81.4	73.8	73.8
77.5°	1409.6	880.4	216.3	94.1	96.7	91.6	81.4	73.8	68.7	61.1	61.1
80°	684.4	386.7	124.7	66.2	68.7	66.2	61.1	53.4	53.4	48.3	48.3
82.5°	287.5	145.0	66.2	45.8	45.8	40.7	38.2	38.2	38.2	35.6	35.6
85°	71.2	28.0	28.0	25.4	25.4	25.4	22.9	22.9	22.9	17.8	20.4
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	7.6	2.5	0.0	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)