

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: P836490

Luminaire Tested: **ARCH3-190-740-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17830 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

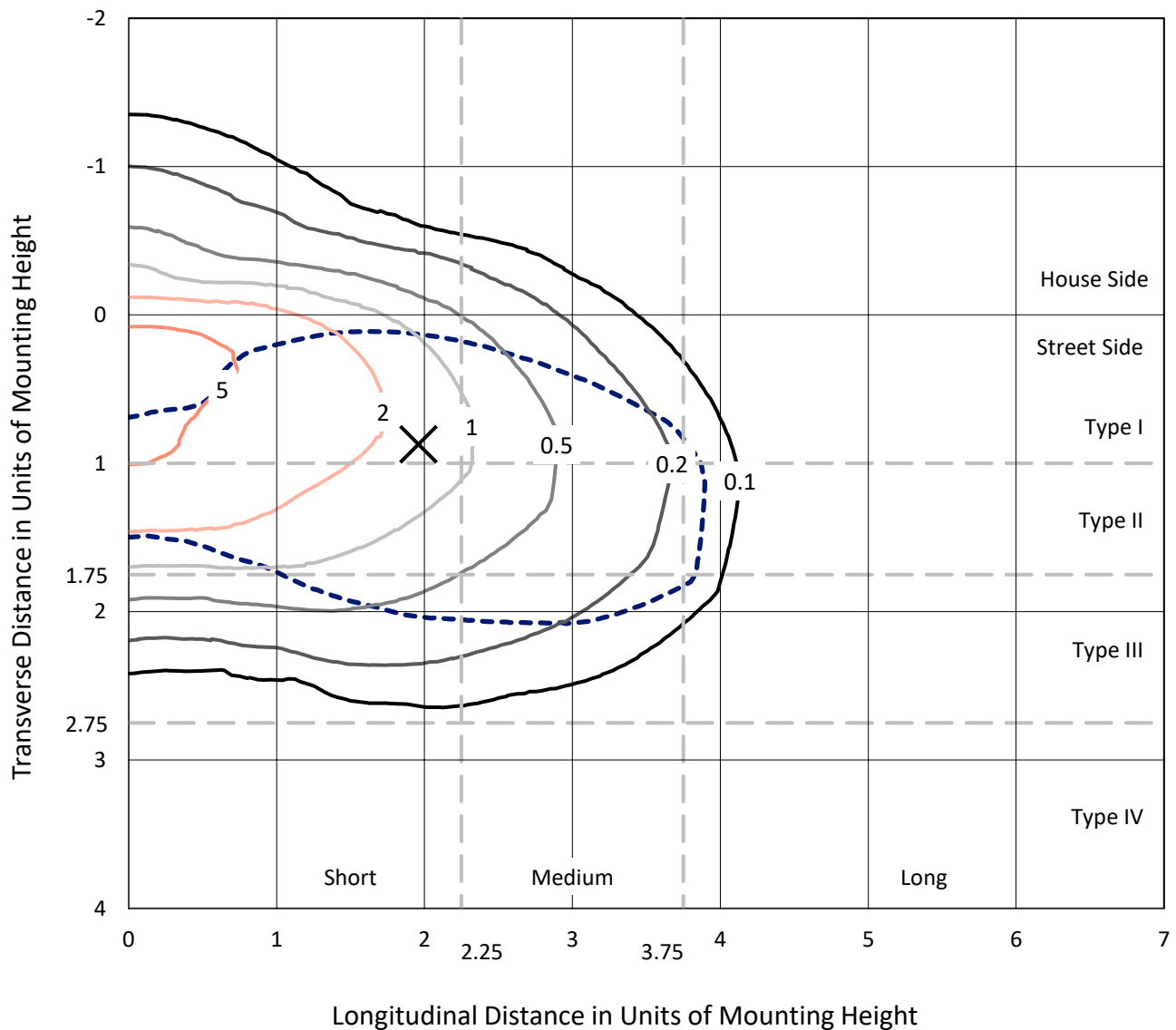
Input Watts (W): 189.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

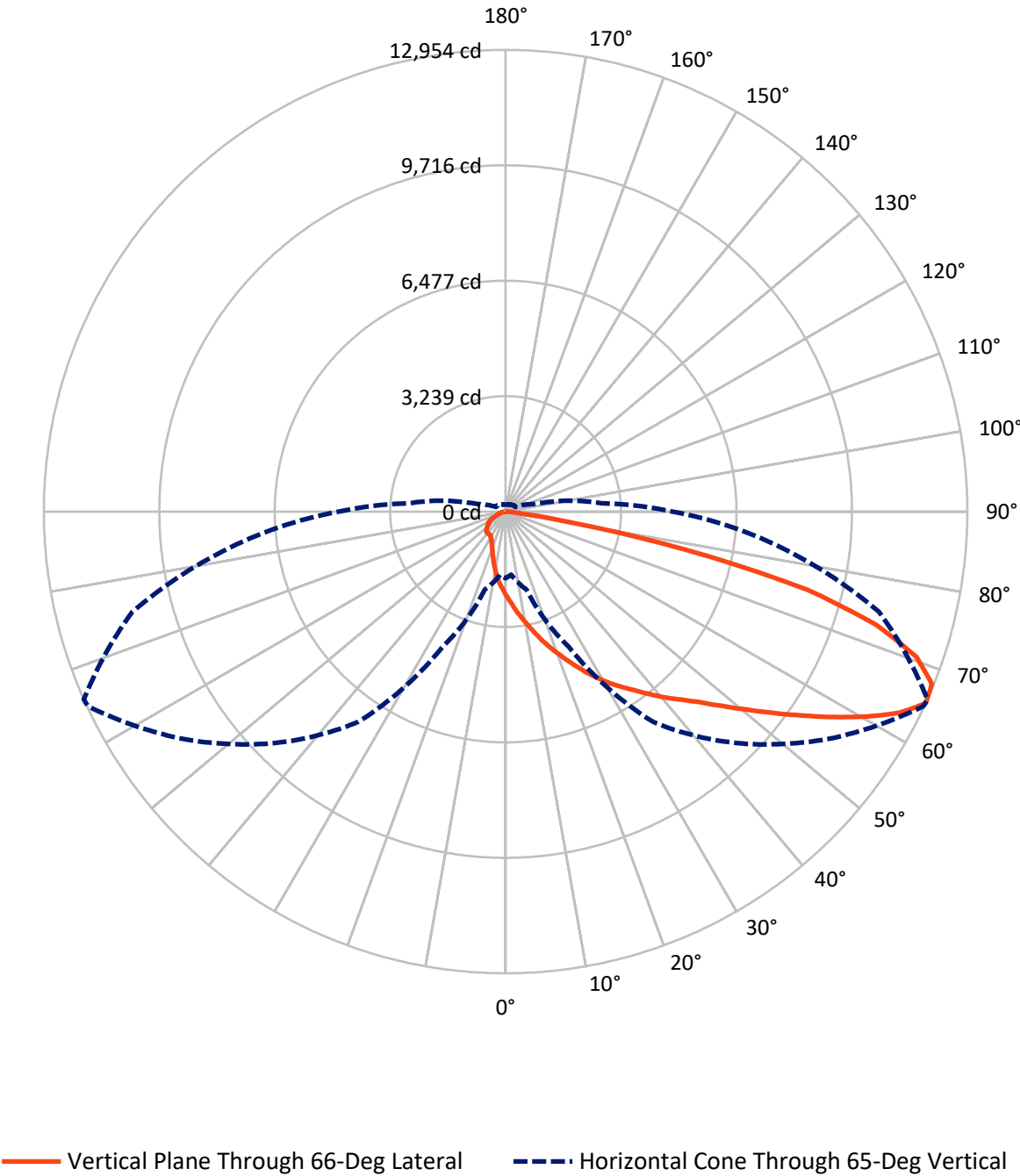
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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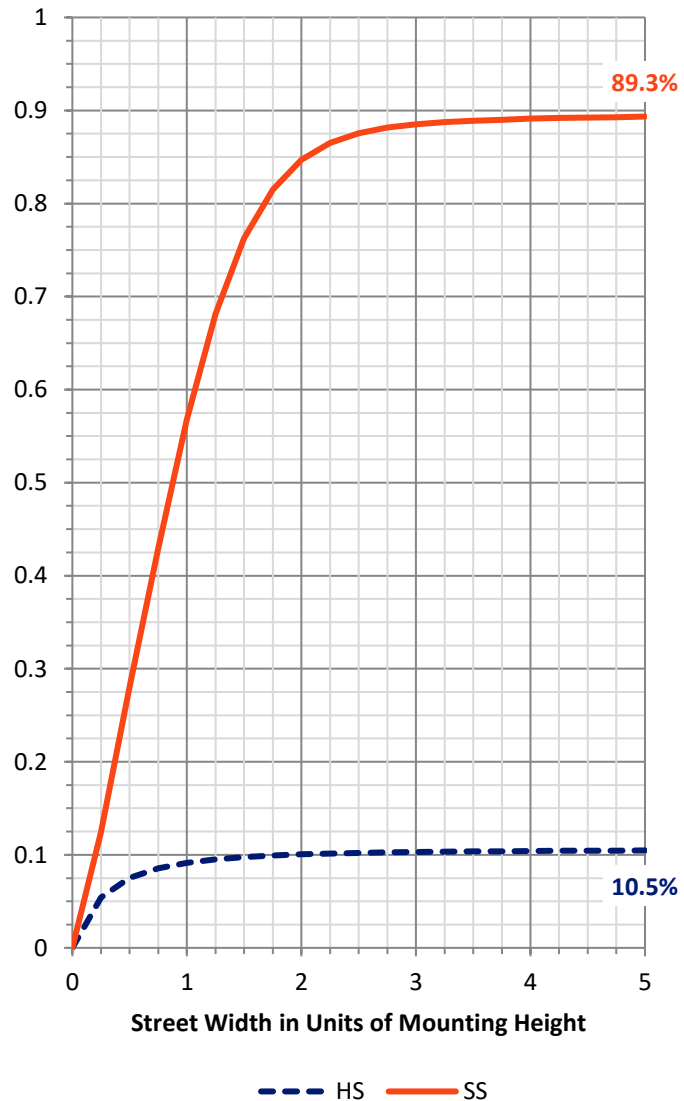
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.9	0.0	1885.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	15944.1	0.0	15944.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	17830.0	0.0	17830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	1.3
10°-20°	759.1	4.3
20°-30°	1373.4	7.7
30°-40°	2147.7	12.0
40°-50°	3258.0	18.3
50°-60°	4139.4	23.2
60°-70°	3867.9	21.7
70°-80°	1922.3	10.8
80°-90°	129.2	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°	17830.0	100.0
0°-180°	17830.0	100.0

Coefficient of Utilization



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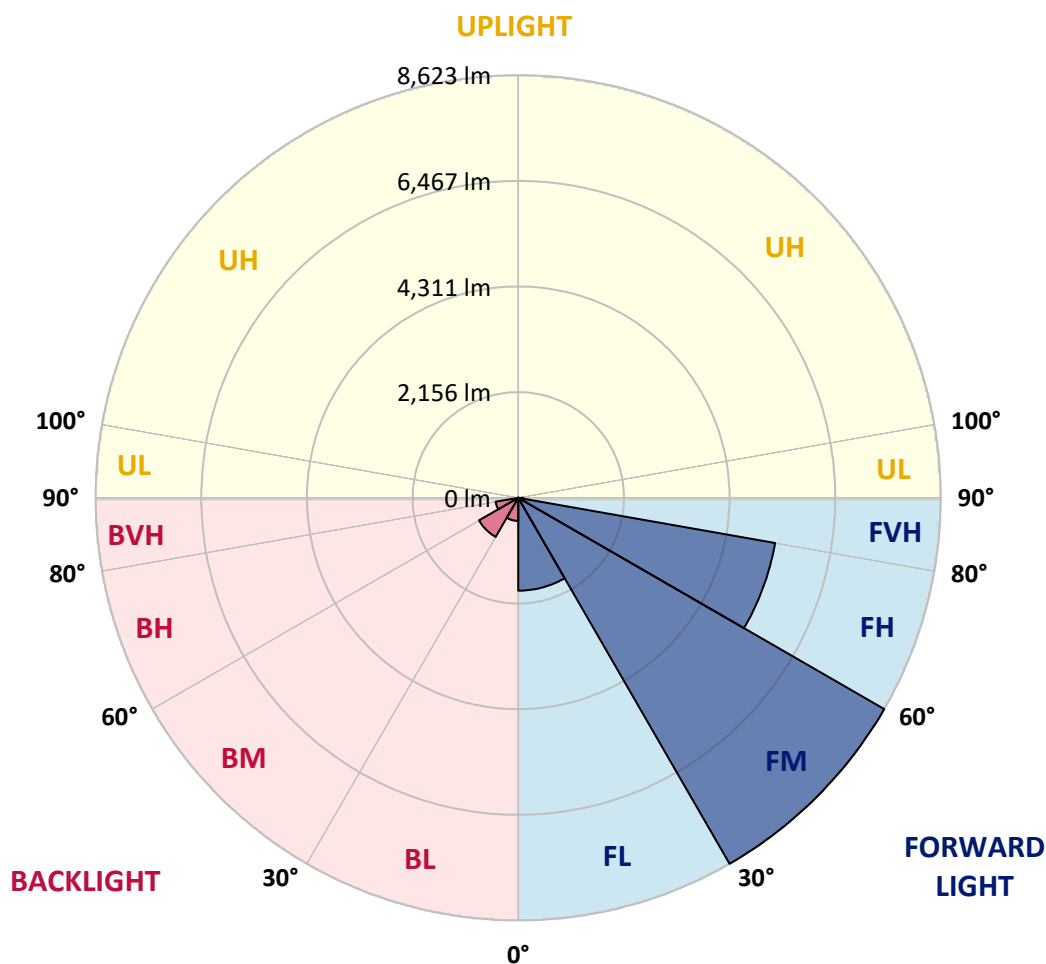
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1894.4	10.6			
FM	(30°-60°)	8622.8	48.4			
FH	(60°-80°)	5320.5	29.8			G3/7500
FVH	(80°-90°)	106.3	0.6			G2/225
BL	(0°-30°)	471.0	2.6	B1/500		
BM	(30°-60°)	922.4	5.2	B1/1000		
BH	(60°-80°)	469.7	2.6	B1/500		G1/500
BVH	(80°-90°)	22.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7
2.5°	2756.1	2778.5	2789.8	2793.5	2707.5	2670.1	2632.7	2546.7	2528.0	2479.4	2415.8
5°	3242.3	3272.2	3264.7	3249.7	3145.0	3025.4	2928.1	2767.3	2741.1	2625.2	2483.1
7.5°	3720.9	3747.1	3739.6	3683.5	3567.6	3399.3	3238.5	3002.9	2965.5	2778.5	2550.4
10°	4121.1	4143.5	4139.8	4083.7	3945.3	3739.6	3545.2	3231.0	3186.2	2920.6	2606.5
12.5°	4450.2	4480.1	4476.3	4438.9	4315.5	4091.1	3870.5	3492.8	3436.7	3092.7	2685.0
15°	4708.2	4745.6	4745.6	4730.6	4644.6	4457.6	4207.1	3780.8	3713.4	3290.9	2782.3
17.5°	4865.3	4895.2	4921.3	4947.5	4887.7	4745.6	4517.5	4068.7	3997.7	3485.3	2883.3
20°	4947.5	4977.4	4996.1	5052.2	5063.5	4992.4	4812.9	4352.9	4278.1	3706.0	2999.2
22.5°	5082.1	5108.3	5112.1	5160.7	5183.1	5201.8	5089.6	4633.4	4573.6	3949.0	3130.1
25°	5306.5	5336.4	5325.2	5347.7	5351.4	5373.8	5362.6	4955.0	4895.2	4225.8	3287.1
27.5°	5594.5	5631.9	5624.4	5602.0	5568.3	5549.6	5598.2	5280.3	5224.3	4502.5	3447.9
30°	5904.9	5949.7	5938.5	5893.6	5803.9	5725.4	5792.7	5587.0	5534.6	4786.7	3627.4
32.5°	6219.0	6271.3	6267.6	6192.8	6039.5	5904.9	6005.8	5874.9	5837.6	5093.4	3821.9
35°	6424.7	6492.0	6484.5	6439.6	6241.4	6125.5	6248.9	6170.4	6144.2	5467.3	4102.4
37.5°	6757.5	6828.6	6765.0	6652.8	6424.7	6364.8	6514.4	6503.2	6484.5	5863.7	4397.8
40°	7565.3	7670.0	7501.7	7041.7	6667.7	6615.4	6828.6	6873.4	6854.7	6256.4	4663.3
42.5°	8410.4	8567.5	8305.7	7670.0	7109.0	6918.3	7172.6	7236.2	7213.7	6593.0	4902.6
45°	8922.7	8990.1	8728.3	8234.7	7890.6	7284.8	7539.1	7643.8	7625.1	6996.8	5209.3
47.5°	9341.6	9315.4	9016.2	8683.4	8747.0	7800.9	7954.2	8159.9	8144.9	7441.9	5545.9
50°	9431.3	9371.5	9251.8	9042.4	9210.7	8324.4	8391.7	8747.0	8732.0	7935.5	5886.2
52.5°	8799.3	8720.8	9046.2	9221.9	9165.8	8705.8	8874.1	9390.2	9382.7	8470.2	6211.5
55°	7221.2	7157.6	8032.7	8941.4	9117.2	8975.1	9408.9	10059.6	10100.7	9038.7	6506.9
57.5°	5680.5	5613.2	6473.3	8238.4	8937.7	9221.9	10033.4	10826.2	10878.6	9655.7	6787.4
60°	4528.7	4427.7	5085.9	7131.5	8601.1	9412.6	10635.5	11667.6	11675.1	10220.4	6959.4
62.5°	3077.7	2965.5	3694.7	5729.1	8036.5	9442.6	11099.2	12393.1	12423.0	10643.0	6989.4
65°	1869.8	1776.3	2270.0	4184.6	7202.5	9188.3	11106.7	12927.9	12954.1	10837.4	6809.9
67.5°	1084.5	1047.1	1297.6	2606.5	5818.9	8503.9	10639.2	12845.6	12894.2	10755.2	6402.2
70°	632.0	628.3	721.7	1290.2	4106.1	7146.4	9595.9	12153.8	12224.8	10325.1	5777.7
72.5°	463.7	471.2	508.6	691.8	2378.4	5145.7	8126.2	10762.6	10871.1	9483.7	4887.7
75°	366.5	370.2	403.9	471.2	1249.0	2909.4	6088.1	8638.5	8724.5	7984.1	3818.2
77.5°	273.0	280.5	306.6	332.8	579.6	1335.0	3425.5	5321.5	5179.4	4382.8	1843.6
80°	198.2	216.9	228.1	239.3	306.6	516.1	1028.4	1854.9	1839.9	1914.7	871.3
82.5°	127.1	142.1	153.3	160.8	183.2	246.8	306.6	415.1	448.8	744.2	347.8
85°	56.1	63.6	71.1	86.0	78.5	86.0	127.1	82.3	71.1	112.2	63.6
87.5°	0.0	0.0	11.2	18.7	15.0	7.5	22.4	15.0	11.2	11.2	11.2
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°	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7
2.5°	2382.1	2341.0	2255.0	2172.7	2124.1	2060.5	2004.4	1952.1	1948.3	1933.4	1907.2
5°	2412.1	2333.5	2172.7	2019.4	1903.5	1780.1	1675.4	1593.1	1563.2	1540.7	1510.8
7.5°	2442.0	2318.6	2079.2	1854.9	1671.6	1499.6	1376.2	1264.0	1230.3	1200.4	1181.7
10°	2453.2	2292.4	1970.8	1671.6	1432.3	1249.0	1118.1	1035.9	1006.0	991.0	979.8
12.5°	2486.8	2277.4	1869.8	1499.6	1222.9	1054.6	961.1	912.5	901.2	890.0	878.8
15°	2531.7	2277.4	1768.8	1331.3	1058.3	923.7	867.6	833.9	826.5	822.7	815.2
17.5°	2580.3	2277.4	1671.6	1189.2	938.6	837.7	796.5	777.8	774.1	770.4	766.6
20°	2647.7	2281.2	1566.9	1065.8	852.6	774.1	740.4	718.0	714.3	710.5	710.5
22.5°	2715.0	2288.6	1465.9	972.3	796.5	725.5	684.4	661.9	654.4	654.4	654.4
25°	2801.0	2311.1	1372.4	893.8	747.9	680.6	628.3	609.6	605.8	605.8	602.1
27.5°	2901.9	2337.3	1290.2	833.9	699.3	628.3	575.9	557.2	549.7	549.7	546.0
30°	3010.4	2363.4	1222.9	789.1	650.7	575.9	527.3	504.8	497.4	501.1	497.4
32.5°	3130.1	2400.8	1170.5	759.1	605.8	531.0	486.2	460.0	456.2	456.2	452.5
35°	3332.0	2505.5	1163.0	744.2	568.4	497.4	452.5	426.3	422.6	422.6	418.8
37.5°	3548.9	2625.2	1196.7	736.7	538.5	467.5	426.3	400.1	396.4	396.4	396.4
40°	3732.1	2715.0	1234.1	736.7	519.8	441.3	403.9	381.4	381.4	381.4	381.4
42.5°	3855.6	2722.4	1226.6	736.7	504.8	422.6	388.9	366.5	366.5	370.2	366.5
45°	4038.8	2759.8	1196.7	725.5	493.6	407.6	374.0	355.3	351.5	355.3	355.3
47.5°	4255.7	2827.2	1166.8	680.6	489.9	392.7	362.7	340.3	336.6	340.3	336.6
50°	4461.4	2887.0	1151.8	620.8	482.4	377.7	347.8	325.3	321.6	325.3	321.6
52.5°	4633.4	2913.2	1125.6	579.6	463.7	362.7	332.8	310.4	302.9	306.6	306.6
55°	4771.8	2905.7	1088.2	546.0	430.1	347.8	314.1	295.4	284.2	284.2	280.5
57.5°	4898.9	2909.4	1054.6	512.3	392.7	325.3	299.2	276.7	261.8	258.0	254.3
60°	4947.5	2890.7	994.7	467.5	355.3	306.6	280.5	254.3	239.3	235.6	231.9
62.5°	4880.2	2823.4	916.2	388.9	321.6	284.2	261.8	235.6	220.6	216.9	213.2
65°	4689.5	2696.3	796.5	306.6	291.7	258.0	239.3	220.6	201.9	194.5	190.7
67.5°	4364.1	2513.0	647.0	246.8	258.0	235.6	224.4	201.9	179.5	172.0	168.3
70°	3900.4	2270.0	486.2	209.4	228.1	209.4	201.9	179.5	160.8	153.3	149.6
72.5°	3249.7	1877.3	340.3	179.5	198.2	183.2	175.8	160.8	142.1	130.9	130.9
75°	2456.9	1346.3	224.4	153.3	164.5	157.1	145.8	134.6	123.4	115.9	112.2
77.5°	1058.3	523.5	138.4	115.9	134.6	130.9	115.9	108.4	104.7	97.2	97.2
80°	456.2	213.2	86.0	86.0	97.2	93.5	89.8	82.3	82.3	78.5	74.8
82.5°	168.3	86.0	52.4	63.6	71.1	63.6	63.6	63.6	63.6	59.8	59.8
85°	41.1	26.2	26.2	37.4	41.1	37.4	41.1	37.4	37.4	37.4	33.7
87.5°	11.2	11.2	15.0	15.0	15.0	15.0	15.0	11.2	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)