

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: P836126

Luminaire Tested: **ARCH3-140-740-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-740-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15113 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

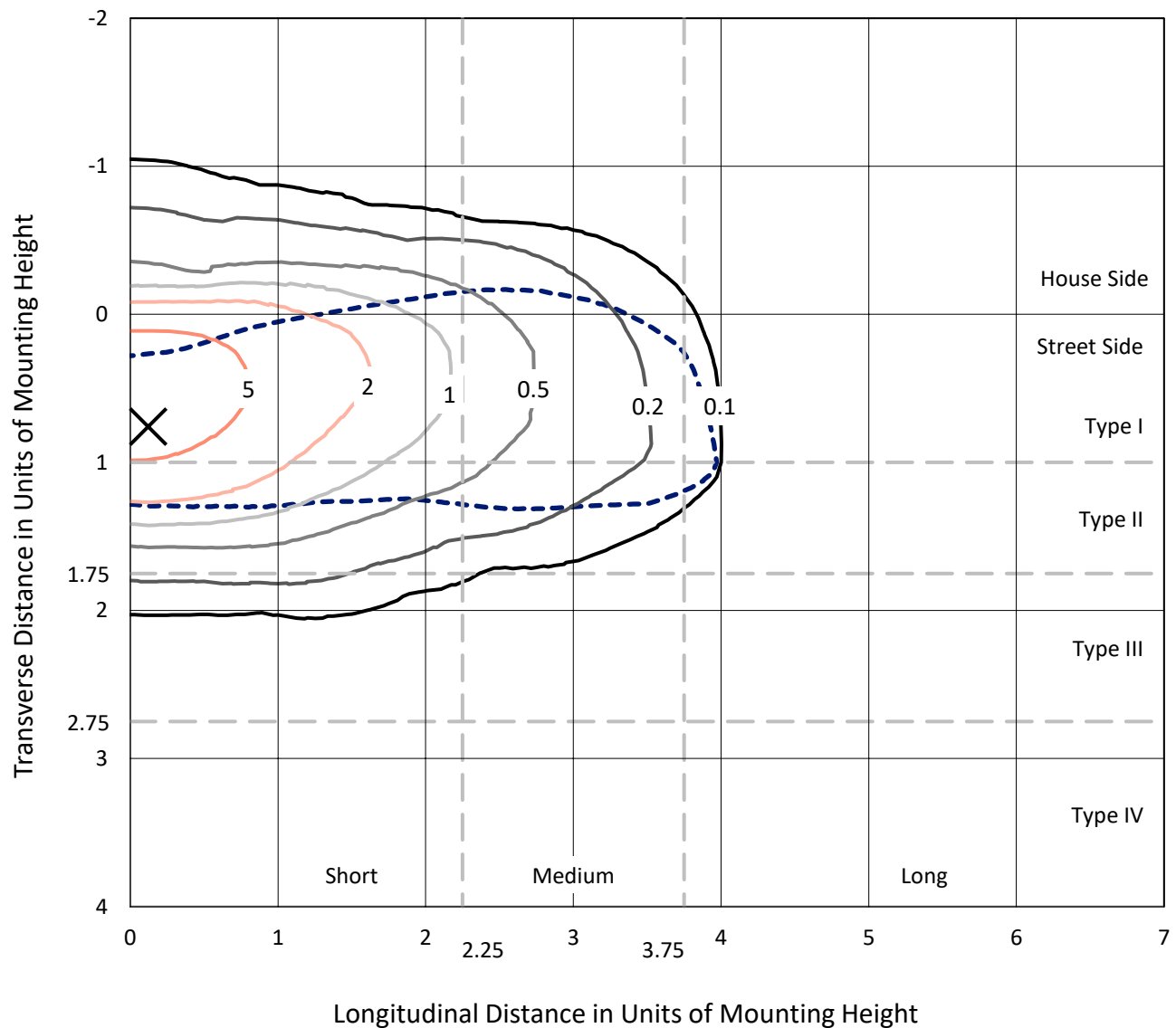
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

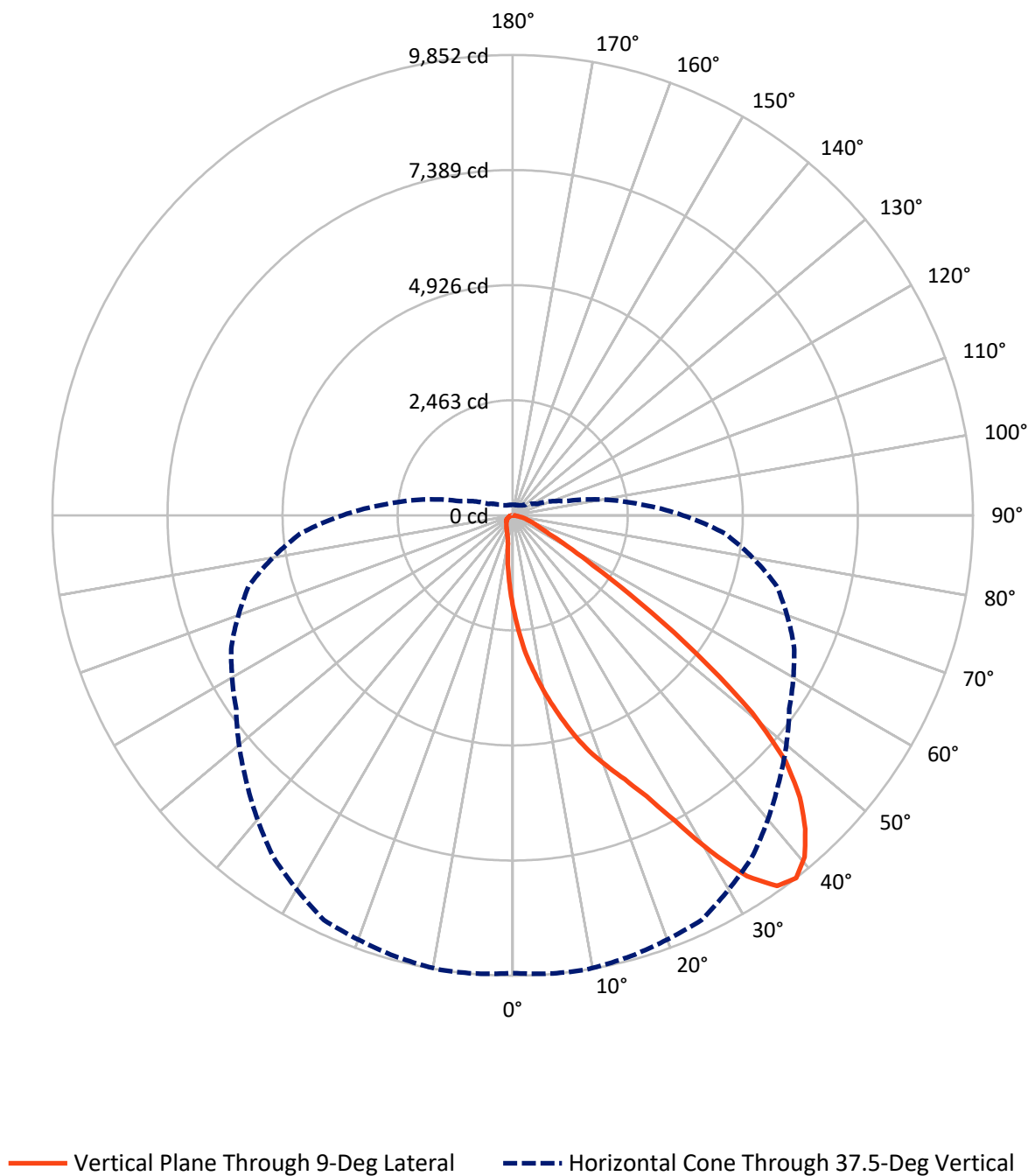
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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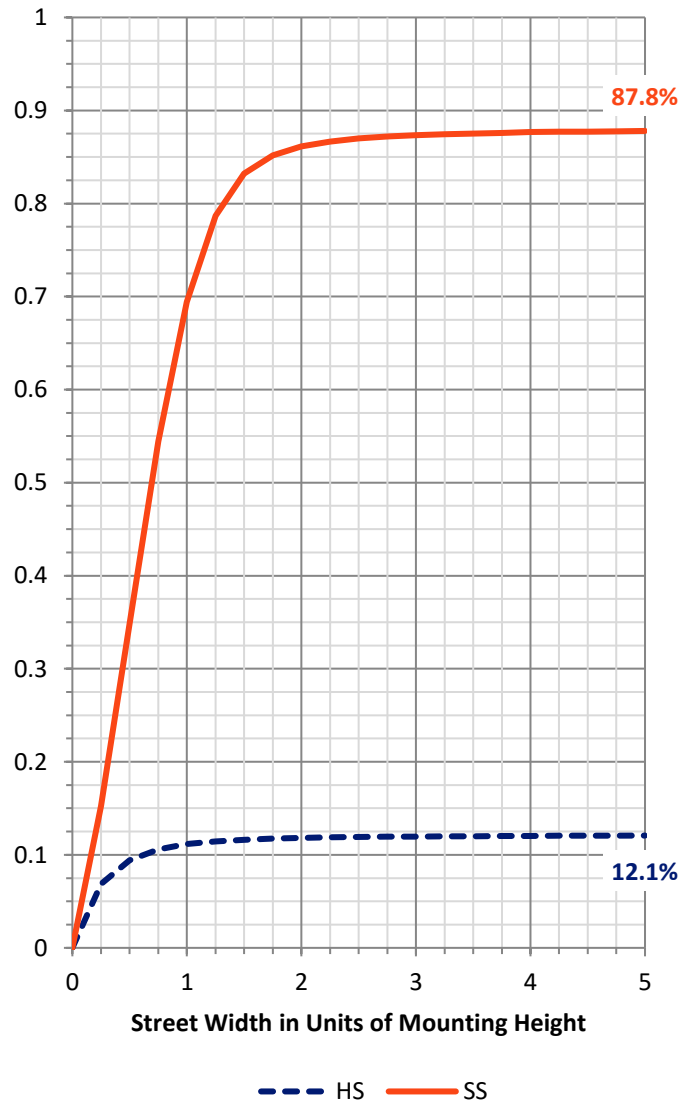
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1838.0	0.0	1838.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13275.0	0.0	13275.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	15113.0	0.0	15113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.8	1.3
10°-20°	697.9	4.6
20°-30°	1434.1	9.5
30°-40°	2534.9	16.8
40°-50°	3367.3	22.3
50°-60°	3193.7	21.1
60°-70°	2436.5	16.1
70°-80°	1181.2	7.8
80°-90°	66.5	0.4
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°	15113.0	100.0
0°-180°	15113.0	100.0

Coefficient of Utilization



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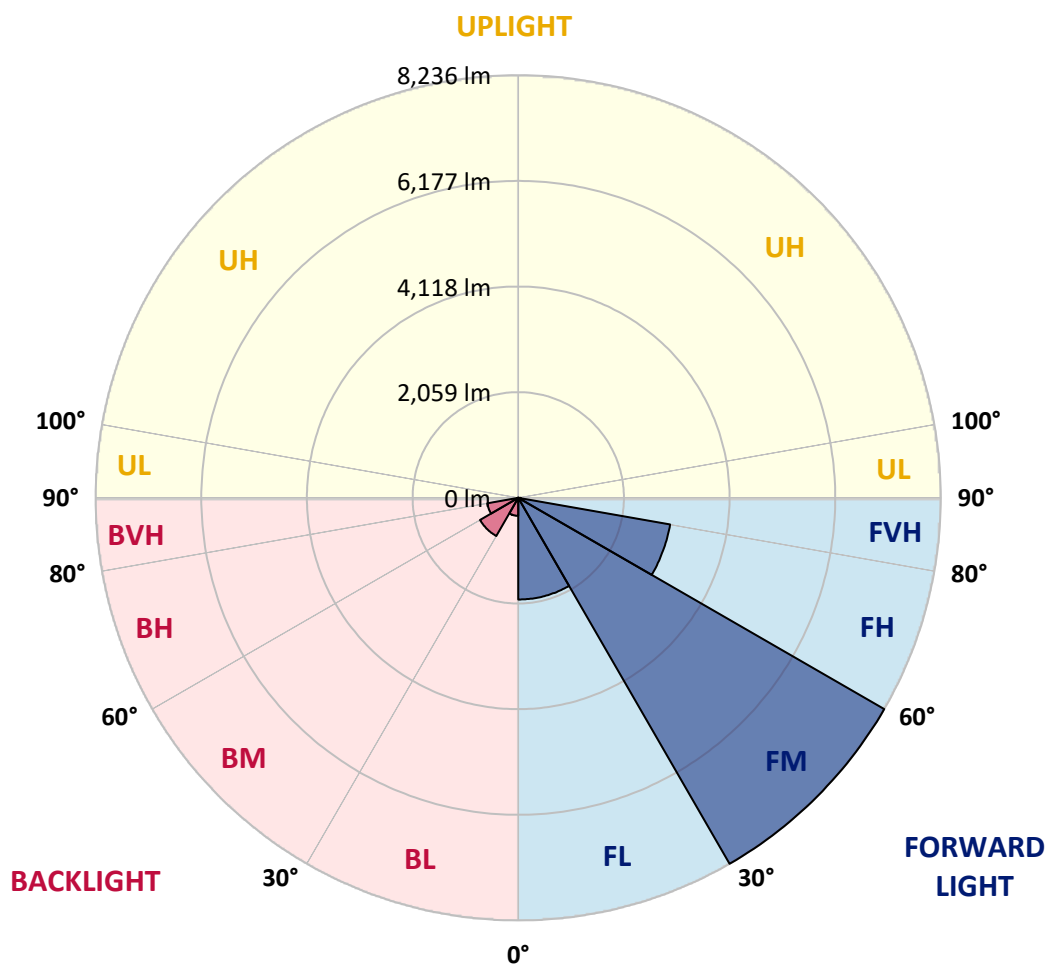
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1982.1	13.1			
FM	(30°-60°)	8235.9	54.5			
FH	(60°-80°)	3004.4	19.9			G2/5000
FVH	(80°-90°)	52.6	0.3			G1/100
BL	(0°-30°)	350.8	2.3	B1/500		
BM	(30°-60°)	860.1	5.7	B1/1000		
BH	(60°-80°)	613.3	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.8	0.1			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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8
2.5°	2475.5	2432.1	2481.7	2475.5	2432.1	2404.1	2317.3	2289.4	2187.0	2112.5	2047.4
5°	2984.2	2940.8	2984.2	2971.8	2909.8	2841.5	2698.8	2605.8	2422.7	2261.4	2115.6
7.5°	3406.1	3406.1	3424.7	3427.8	3353.4	3247.9	3071.1	2931.5	2674.0	2425.8	2193.2
10°	3862.1	3865.2	3905.6	3877.6	3778.4	3635.7	3412.3	3235.5	2925.3	2599.6	2267.6
12.5°	4349.2	4352.3	4364.7	4352.3	4234.4	4051.3	3781.5	3548.8	3192.1	2798.1	2370.0
15°	4836.2	4839.3	4854.8	4833.1	4702.8	4488.7	4181.6	3896.2	3474.4	3021.5	2494.1
17.5°	5292.2	5298.4	5310.8	5282.9	5146.4	4892.0	4578.7	4234.4	3775.3	3260.3	2633.7
20°	5701.7	5707.9	5717.2	5680.0	5543.5	5289.1	4951.0	4591.1	4082.4	3505.4	2785.7
22.5°	6114.2	6120.5	6136.0	6086.3	5934.3	5642.7	5310.8	4938.6	4408.1	3775.3	2962.5
25°	6641.6	6647.8	6660.2	6588.9	6381.0	6039.8	5689.3	5307.7	4761.7	4079.3	3179.7
27.5°	7414.0	7407.8	7407.8	7277.5	6920.8	6477.2	6070.8	5683.1	5143.3	4405.0	3418.5
30°	8369.5	8354.0	8344.7	8167.8	7659.1	6970.4	6461.7	6033.6	5509.3	4749.3	3676.0
32.5°	9225.7	9225.7	9207.0	9020.9	8481.2	7634.3	6877.4	6374.8	5863.0	5096.8	3942.8
35°	9731.3	9753.0	9743.7	9604.1	9210.2	8347.8	7438.8	6784.3	6235.2	5459.7	4262.3
37.5°	9799.6	9843.0	9852.3	9768.5	9560.7	8931.0	8062.4	7227.9	6644.7	5850.6	4572.5
40°	9523.5	9616.5	9616.5	9604.1	9529.7	9207.0	8586.6	7742.9	7066.6	6256.9	4885.8
42.5°	9098.5	9194.6	9182.2	9228.8	9210.2	9141.9	8881.3	8223.7	7488.5	6675.7	5171.2
45°	8543.2	8642.5	8617.6	8701.4	8738.6	8813.1	8850.3	8558.7	7904.2	7131.7	5490.7
47.5°	7652.9	7820.4	7857.6	8006.5	8161.6	8394.3	8571.1	8679.7	8291.9	7621.9	5838.2
50°	6337.6	6573.4	6647.8	6961.1	7386.1	7866.9	8152.3	8530.8	8564.9	8124.4	6213.5
52.5°	4538.4	4811.4	4926.1	5441.1	6315.9	7153.5	7668.4	8202.0	8670.4	8605.2	6619.9
55°	2934.6	3167.2	3278.9	3762.9	4926.1	6241.4	7097.6	7777.0	8611.4	9045.7	7085.2
57.5°	1808.5	1941.9	2016.4	2432.1	3502.3	5071.9	6350.0	7386.1	8431.5	9427.3	7569.1
60°	1219.1	1296.7	1333.9	1529.3	2379.3	3790.8	5323.2	6976.6	8195.8	9684.8	8009.6
62.5°	809.6	834.5	871.7	992.7	1569.7	2661.6	4088.6	6244.5	8018.9	9700.3	8335.4
65°	626.6	639.0	654.5	707.3	967.9	1861.3	2875.7	5059.5	7755.3	9371.5	8437.7
67.5°	493.2	505.6	524.3	552.2	701.1	1262.6	1957.4	3707.0	7215.5	8856.5	8270.2
70°	387.8	397.1	409.5	434.3	546.0	915.1	1293.6	2463.1	6126.7	8366.4	7742.9
72.5°	307.1	316.4	328.8	353.6	443.6	670.1	887.2	1535.5	4724.5	7767.7	6728.5
75°	242.0	248.2	257.5	282.3	356.7	521.2	601.8	918.2	3210.7	6672.6	5242.6
77.5°	121.0	148.9	170.6	195.4	260.6	359.8	400.2	508.7	1355.6	3424.7	2500.3
80°	71.3	86.9	93.1	108.6	170.6	217.1	217.1	204.7	428.1	1315.3	1020.6
82.5°	40.3	55.8	58.9	62.0	102.4	124.1	99.3	74.5	86.9	440.5	297.8
85°	12.4	18.6	21.7	24.8	34.1	37.2	34.1	31.0	24.8	43.4	27.9
87.5°	0.0	0.0	0.0	0.0	3.1	6.2	6.2	6.2	9.3	9.3	9.3
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°	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8
2.5°	2010.2	1969.8	1892.3	1820.9	1752.7	1703.1	1656.5	1613.1	1582.1	1557.3	1554.2
5°	2038.1	1957.4	1808.5	1668.9	1541.7	1436.3	1346.3	1275.0	1222.2	1185.0	1181.9
7.5°	2075.3	1951.2	1724.8	1516.9	1327.7	1175.7	1045.4	949.2	881.0	853.1	831.4
10°	2106.3	1945.0	1641.0	1364.9	1116.8	924.4	769.3	673.2	623.5	604.9	595.6
12.5°	2159.1	1951.2	1569.7	1225.3	933.7	707.3	589.4	536.7	514.9	499.4	496.3
15°	2236.6	1979.1	1501.4	1088.8	747.6	570.8	502.5	468.4	446.7	443.6	440.5
17.5°	2314.2	2004.0	1439.4	949.2	620.4	496.3	449.8	421.9	406.4	403.3	403.3
20°	2404.1	2035.0	1371.1	815.9	530.5	446.7	409.5	387.8	369.2	366.0	366.0
22.5°	2509.6	2078.4	1306.0	698.0	471.5	409.5	378.5	353.6	338.1	335.0	335.0
25°	2652.3	2143.6	1253.3	611.1	431.2	378.5	350.5	328.8	316.4	310.2	310.2
27.5°	2810.5	2233.5	1216.0	558.4	403.3	353.6	325.7	307.1	294.7	288.5	288.5
30°	2987.3	2332.8	1191.2	536.7	387.8	331.9	307.1	288.5	273.0	269.9	269.9
32.5°	3182.8	2447.6	1175.7	539.8	384.7	316.4	288.5	269.9	257.5	251.3	251.3
35°	3399.9	2574.7	1166.4	558.4	390.9	304.0	273.0	254.4	242.0	235.8	235.8
37.5°	3641.9	2723.6	1166.4	577.0	406.4	300.9	257.5	238.9	229.6	223.4	223.4
40°	3868.3	2881.9	1178.8	598.7	421.9	300.9	245.1	229.6	217.1	210.9	210.9
42.5°	4045.1	2971.8	1188.1	620.4	431.2	297.8	232.7	217.1	207.8	201.6	201.6
45°	4246.8	3068.0	1169.5	629.7	431.2	291.6	223.4	207.8	198.5	192.3	192.3
47.5°	4470.1	3185.9	1166.4	635.9	421.9	279.2	214.0	198.5	192.3	186.1	186.1
50°	4696.6	3316.2	1172.6	632.8	409.5	260.6	201.6	192.3	183.0	176.8	176.8
52.5°	4954.1	3452.6	1185.0	626.6	381.6	238.9	192.3	183.0	173.7	167.5	164.4
55°	5239.5	3601.5	1209.8	614.2	344.3	217.1	183.0	173.7	161.3	155.1	152.0
57.5°	5568.3	3784.6	1237.7	589.4	304.0	198.5	173.7	161.3	142.7	133.4	130.3
60°	5881.6	3992.4	1268.8	530.5	263.7	179.9	164.4	145.8	127.2	121.0	117.9
62.5°	6176.3	4197.1	1284.3	425.0	223.4	164.4	155.1	133.4	114.8	108.6	105.5
65°	6365.5	4420.5	1250.1	288.5	183.0	152.0	142.7	124.1	105.5	96.2	96.2
67.5°	6377.9	4526.0	1132.3	189.2	148.9	136.5	130.3	111.7	93.1	86.9	83.8
70°	6064.6	4367.8	865.5	148.9	124.1	117.9	117.9	99.3	80.7	74.5	71.3
72.5°	5344.9	3868.3	552.2	121.0	105.5	99.3	99.3	83.8	71.3	62.0	58.9
75°	4218.9	2984.2	294.7	99.3	86.9	83.8	77.6	68.2	58.9	52.7	49.6
77.5°	1938.8	1315.3	136.5	71.3	65.1	65.1	58.9	49.6	46.5	40.3	40.3
80°	766.2	446.7	68.2	46.5	43.4	43.4	43.4	34.1	34.1	27.9	24.8
82.5°	210.9	93.1	34.1	27.9	27.9	27.9	24.8	21.7	21.7	18.6	18.6
85°	21.7	15.5	15.5	15.5	15.5	12.4	12.4	9.3	6.2	6.2	6.2
87.5°	9.3	9.3	9.3	9.3	9.3	6.2	3.1	0.0	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)