

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: P836211

Luminaire Tested: **ARCH3-150-750-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836211
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: ARCH3-150-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15412 lumens
Efficiency: N/A
Efficacy: 102.3 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): 150.7
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

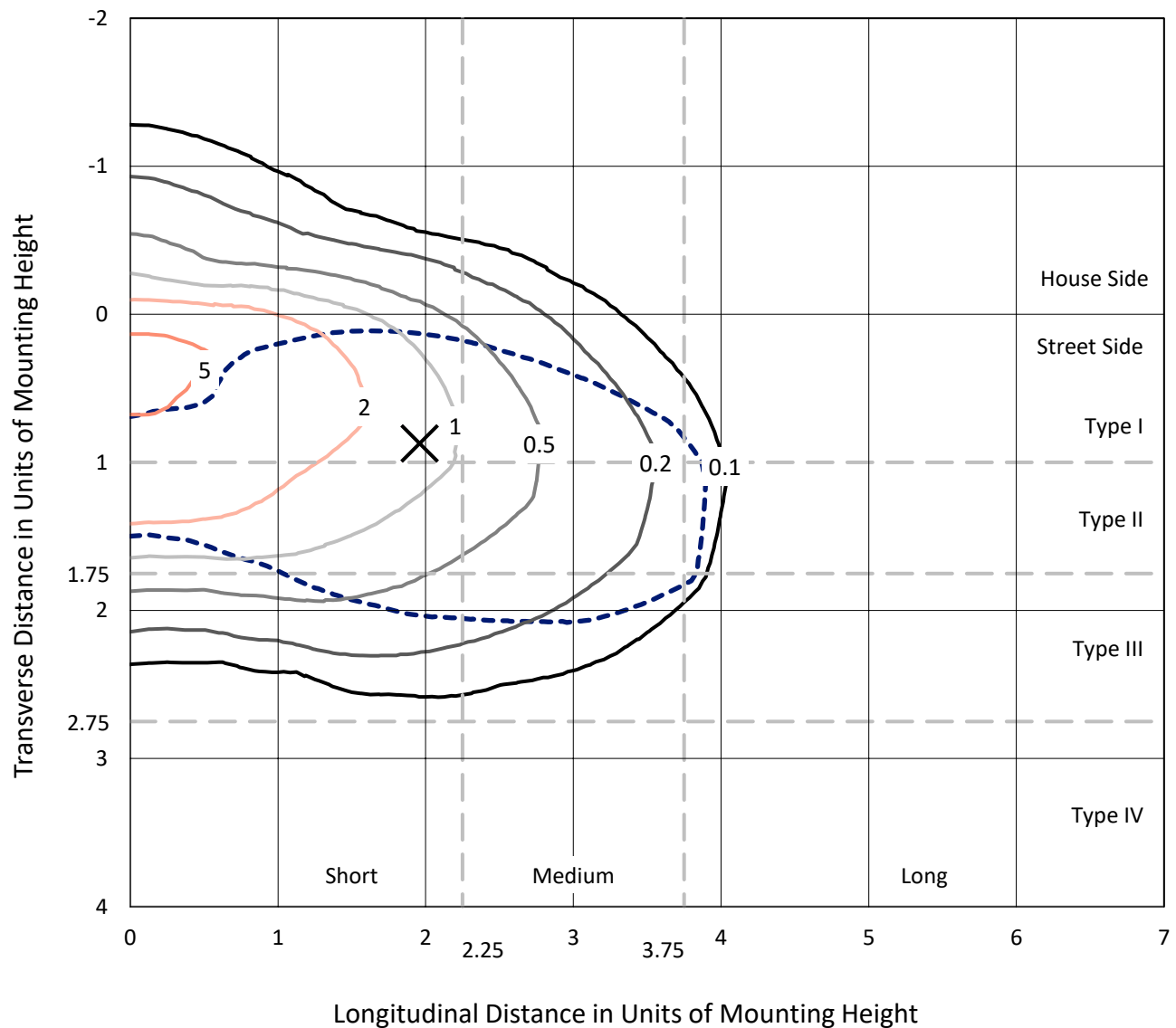


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Iso-Footcandle Lines of Horizontal Illumination

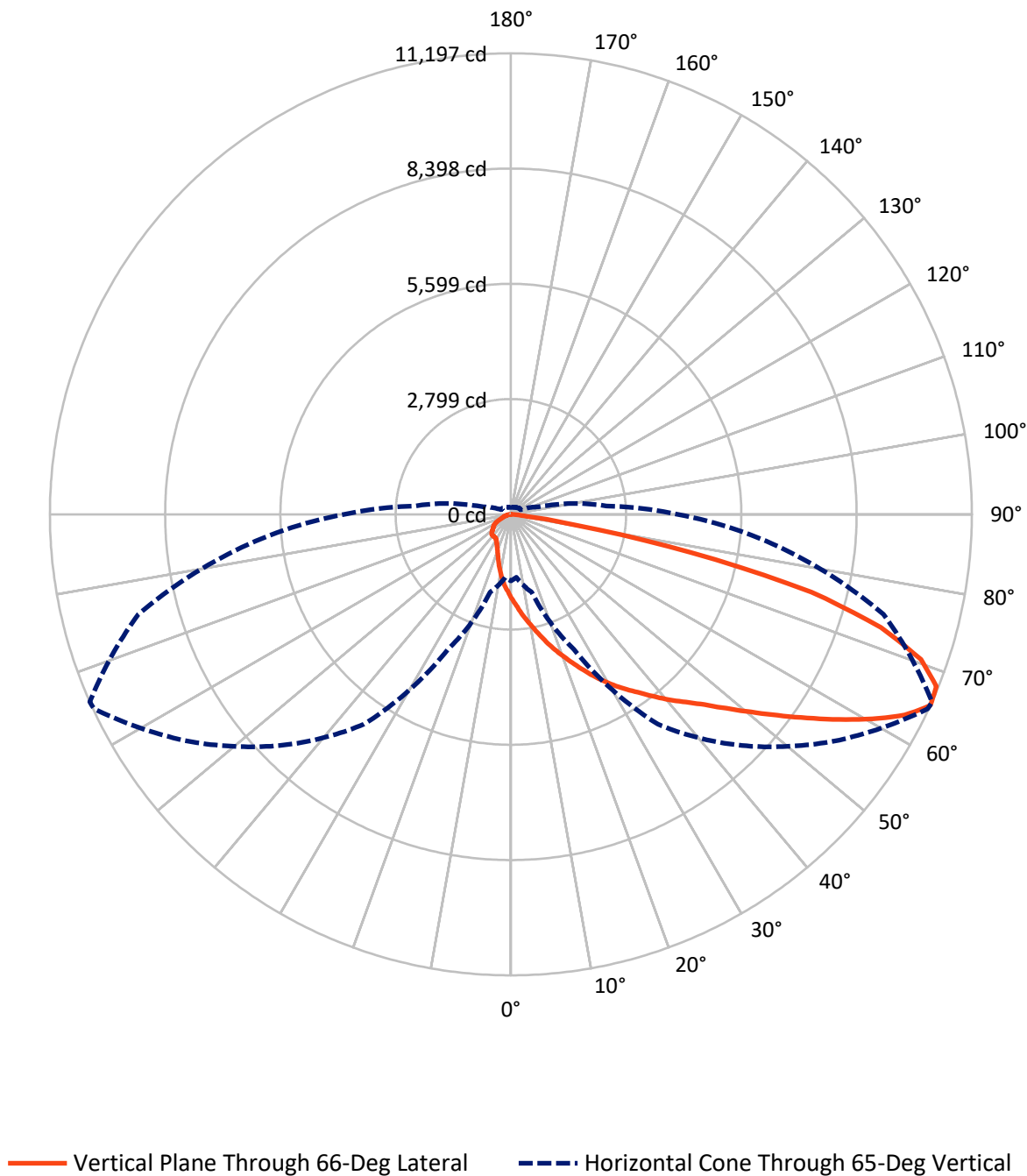
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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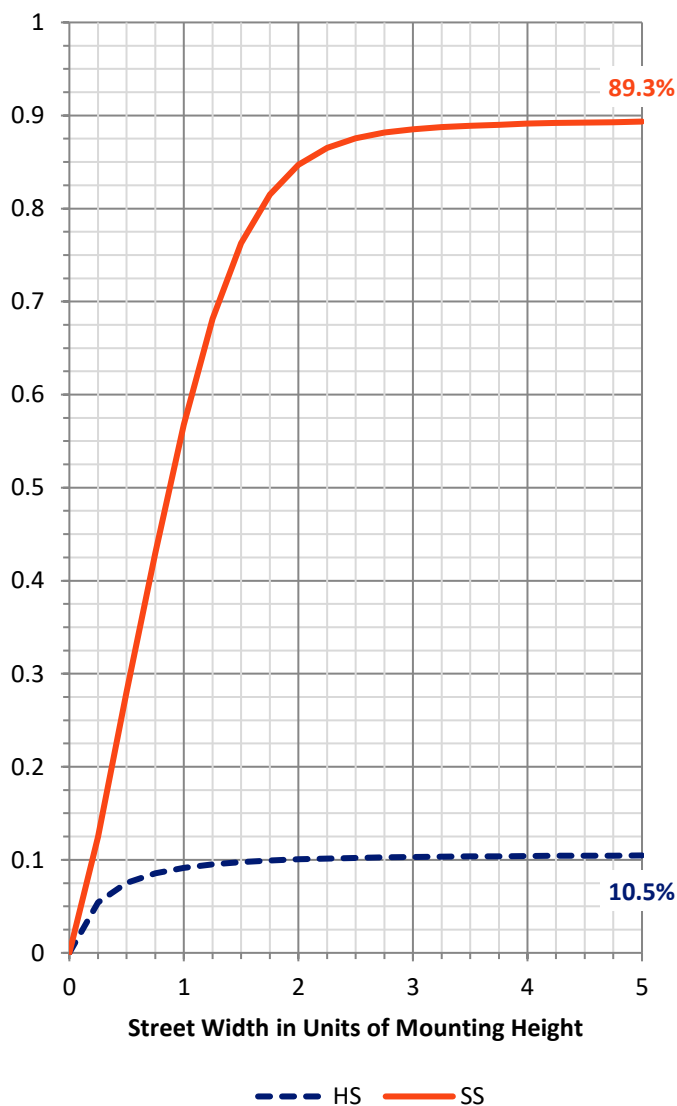
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1630.2	0.0	1630.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	13781.8	0.0	13781.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	15412.0	0.0	15412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	1.3
10°-20°	656.2	4.3
20°-30°	1187.2	7.7
30°-40°	1856.4	12.0
40°-50°	2816.2	18.3
50°-60°	3578.1	23.2
60°-70°	3343.4	21.7
70°-80°	1661.6	10.8
80°-90°	111.6	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°	15412.0	100.0
0°-180°	15412.0	100.0

Coefficient of Utilization



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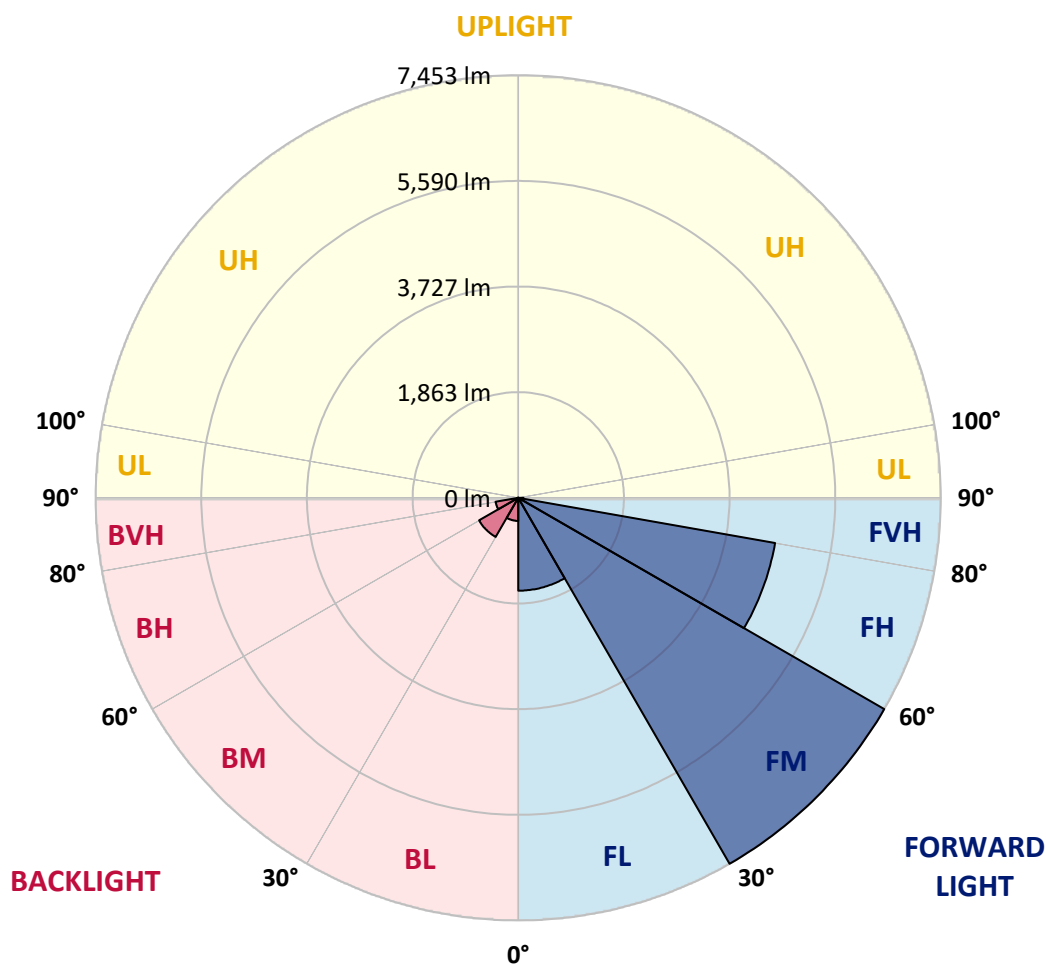
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.5	10.6			
FM	(30°-60°)	7453.4	48.4			
FH	(60°-80°)	4599.0	29.8			G2/5000
FVH	(80°-90°)	91.9	0.6			G1/100
BL	(0°-30°)	407.1	2.6	B1/500		
BM	(30°-60°)	797.3	5.2	B1/1000		
BH	(60°-80°)	406.0	2.6	B1/500		G1/500
BVH	(80°-90°)	19.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7
2.5°	2382.3	2401.7	2411.4	2414.7	2340.3	2308.0	2275.7	2201.3	2185.2	2143.1	2088.2
5°	2802.6	2828.4	2822.0	2809.0	2718.5	2615.1	2531.0	2392.0	2369.4	2269.2	2146.4
7.5°	3216.3	3238.9	3232.5	3184.0	3083.8	2938.3	2799.3	2595.7	2563.4	2401.7	2204.6
10°	3562.2	3581.6	3578.4	3529.9	3410.3	3232.5	3064.4	2792.9	2754.1	2524.6	2253.0
12.5°	3846.6	3872.5	3869.3	3837.0	3730.3	3536.3	3345.6	3019.1	2970.6	2673.3	2320.9
15°	4069.7	4102.0	4102.0	4089.1	4014.7	3853.1	3636.5	3268.0	3209.9	2844.6	2405.0
17.5°	4205.5	4231.3	4253.9	4276.6	4224.8	4102.0	3904.8	3516.9	3455.5	3012.7	2492.2
20°	4276.6	4302.4	4318.6	4367.1	4376.8	4315.4	4160.2	3762.6	3698.0	3203.4	2592.4
22.5°	4392.9	4415.6	4418.8	4460.8	4480.2	4496.4	4399.4	4005.0	3953.3	3413.5	2705.6
25°	4586.9	4612.7	4603.0	4622.4	4625.7	4645.1	4635.4	4283.0	4231.3	3652.7	2841.3
27.5°	4835.8	4868.1	4861.6	4842.3	4813.2	4797.0	4839.0	4564.3	4515.8	3891.9	2980.3
30°	5104.1	5142.9	5133.2	5094.4	5016.8	4948.9	5007.1	4829.3	4784.1	4137.6	3135.5
32.5°	5375.6	5420.9	5417.6	5353.0	5220.5	5104.1	5191.4	5078.2	5045.9	4402.6	3303.6
35°	5553.4	5611.6	5605.1	5566.3	5395.0	5294.8	5401.5	5333.6	5311.0	4725.9	3546.0
37.5°	5841.1	5902.5	5847.6	5750.6	5553.4	5501.7	5631.0	5621.3	5605.1	5068.5	3801.4
40°	6539.3	6629.8	6484.4	6086.8	5763.5	5718.3	5902.5	5941.3	5925.1	5407.9	4030.9
42.5°	7269.8	7405.6	7179.3	6629.8	6144.9	5980.1	6199.9	6254.8	6235.5	5698.9	4237.8
45°	7712.7	7770.9	7544.6	7117.9	6820.5	6296.9	6516.7	6607.2	6591.0	6048.0	4502.8
47.5°	8074.7	8052.1	7793.5	7505.8	7560.8	6742.9	6875.5	7053.3	7040.3	6432.6	4793.8
50°	8152.3	8100.6	7997.2	7816.1	7961.6	7195.5	7253.7	7560.8	7547.8	6859.3	5087.9
52.5°	7606.0	7538.1	7819.4	7971.3	7922.8	7525.2	7670.7	8116.8	8110.3	7321.6	5369.1
55°	6241.9	6187.0	6943.4	7728.9	7880.8	7757.9	8132.9	8695.4	8730.9	7812.9	5624.5
57.5°	4910.1	4851.9	5595.4	7121.1	7725.6	7971.3	8672.7	9358.0	9403.3	8346.3	5866.9
60°	3914.5	3827.3	4396.2	6164.3	7434.7	8136.1	9193.2	10085.3	10091.8	8834.4	6015.6
62.5°	2660.3	2563.4	3193.7	4952.2	6946.6	8162.0	9594.0	10712.4	10738.3	9199.6	6041.5
65°	1616.2	1535.4	1962.1	3617.1	6225.8	7942.2	9600.5	11174.7	11197.3	9367.7	5886.3
67.5°	937.4	905.1	1121.7	2253.0	5029.7	7350.7	9196.4	11103.6	11145.6	9296.6	5534.0
70°	546.3	543.1	623.9	1115.2	3549.3	6177.3	8294.5	10505.6	10567.0	8924.9	4994.2
72.5°	400.8	407.3	439.6	598.0	2055.9	4447.9	7024.2	9303.1	9396.8	8197.6	4224.8
75°	316.8	320.0	349.1	407.3	1079.6	2514.9	5262.5	7467.0	7541.4	6901.3	3300.4
77.5°	236.0	242.4	265.1	287.7	501.0	1154.0	2960.9	4599.8	4477.0	3788.5	1593.6
80°	171.3	187.5	197.2	206.9	265.1	446.1	888.9	1603.3	1590.4	1655.0	753.2
82.5°	109.9	122.8	132.5	139.0	158.4	213.3	265.1	358.8	387.9	643.3	300.6
85°	48.5	55.0	61.4	74.3	67.9	74.3	109.9	71.1	61.4	97.0	55.0
87.5°	0.0	0.0	9.7	16.2	12.9	6.5	19.4	12.9	9.7	9.7	9.7
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°	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7
2.5°	2059.1	2023.5	1949.2	1878.1	1836.0	1781.1	1732.6	1687.4	1684.1	1671.2	1648.6
5°	2084.9	2017.1	1878.1	1745.5	1645.3	1538.7	1448.2	1377.0	1351.2	1331.8	1305.9
7.5°	2110.8	2004.1	1797.3	1603.3	1444.9	1296.2	1189.6	1092.6	1063.5	1037.6	1021.5
10°	2120.5	1981.5	1703.5	1444.9	1238.0	1079.6	966.5	895.4	869.5	856.6	846.9
12.5°	2149.6	1968.6	1616.2	1296.2	1057.0	911.6	830.7	788.7	779.0	769.3	759.6
15°	2188.4	1968.6	1529.0	1150.8	914.8	798.4	749.9	720.8	714.4	711.1	704.7
17.5°	2230.4	1968.6	1444.9	1027.9	811.4	724.1	688.5	672.4	669.1	665.9	662.7
20°	2288.6	1971.8	1354.4	921.3	737.0	669.1	640.0	620.6	617.4	614.2	614.2
22.5°	2346.8	1978.3	1267.1	840.4	688.5	627.1	591.5	572.1	565.7	565.7	565.7
25°	2421.1	1997.7	1186.3	772.6	646.5	588.3	543.1	526.9	523.7	523.7	520.4
27.5°	2508.4	2020.3	1115.2	720.8	604.5	543.1	497.8	481.6	475.2	475.2	471.9
30°	2602.1	2042.9	1057.0	682.1	562.5	497.8	455.8	436.4	429.9	433.2	429.9
32.5°	2705.6	2075.3	1011.8	656.2	523.7	459.0	420.2	397.6	394.4	394.4	391.1
35°	2880.1	2165.8	1005.3	643.3	491.3	429.9	391.1	368.5	365.3	365.3	362.0
37.5°	3067.6	2269.2	1034.4	636.8	465.5	404.1	368.5	345.9	342.6	342.6	342.6
40°	3226.0	2346.8	1066.7	636.8	449.3	381.4	349.1	329.7	329.7	329.7	329.7
42.5°	3332.7	2353.2	1060.3	636.8	436.4	365.3	336.2	316.8	316.8	320.0	316.8
45°	3491.1	2385.6	1034.4	627.1	426.7	352.3	323.2	307.1	303.9	307.1	307.1
47.5°	3678.6	2443.8	1008.5	588.3	423.5	339.4	313.6	294.2	290.9	294.2	290.9
50°	3856.3	2495.5	995.6	536.6	417.0	326.5	300.6	281.2	278.0	281.2	278.0
52.5°	4005.0	2518.1	973.0	501.0	400.8	313.6	287.7	268.3	261.8	265.1	265.1
55°	4124.6	2511.6	940.7	471.9	371.7	300.6	271.5	255.4	245.7	245.7	242.4
57.5°	4234.5	2514.9	911.6	442.8	339.4	281.2	258.6	239.2	226.3	223.0	219.8
60°	4276.6	2498.7	859.8	404.1	307.1	265.1	242.4	219.8	206.9	203.6	200.4
62.5°	4218.4	2440.5	792.0	336.2	278.0	245.7	226.3	203.6	190.7	187.5	184.3
65°	4053.5	2330.6	688.5	265.1	252.1	223.0	206.9	190.7	174.6	168.1	164.9
67.5°	3772.3	2172.2	559.2	213.3	223.0	203.6	193.9	174.6	155.2	148.7	145.5
70°	3371.5	1962.1	420.2	181.0	197.2	181.0	174.6	155.2	139.0	132.5	129.3
72.5°	2809.0	1622.7	294.2	155.2	171.3	158.4	151.9	139.0	122.8	113.1	113.1
75°	2123.7	1163.7	193.9	132.5	142.2	135.8	126.1	116.4	106.7	100.2	97.0
77.5°	914.8	452.5	119.6	100.2	116.4	113.1	100.2	93.7	90.5	84.0	84.0
80°	394.4	184.3	74.3	74.3	84.0	80.8	77.6	71.1	71.1	67.9	64.6
82.5°	145.5	74.3	45.3	55.0	61.4	55.0	55.0	55.0	55.0	51.7	51.7
85°	35.6	22.6	22.6	32.3	35.6	32.3	35.6	32.3	32.3	32.3	29.1
87.5°	9.7	9.7	12.9	12.9	12.9	12.9	12.9	9.7	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)