

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: P836459

Luminaire Tested: **ARCH3-190-727-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836459
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: ARCH3-190-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA 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: 16733 lumens
Efficiency: N/A
Efficacy: 88.3 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

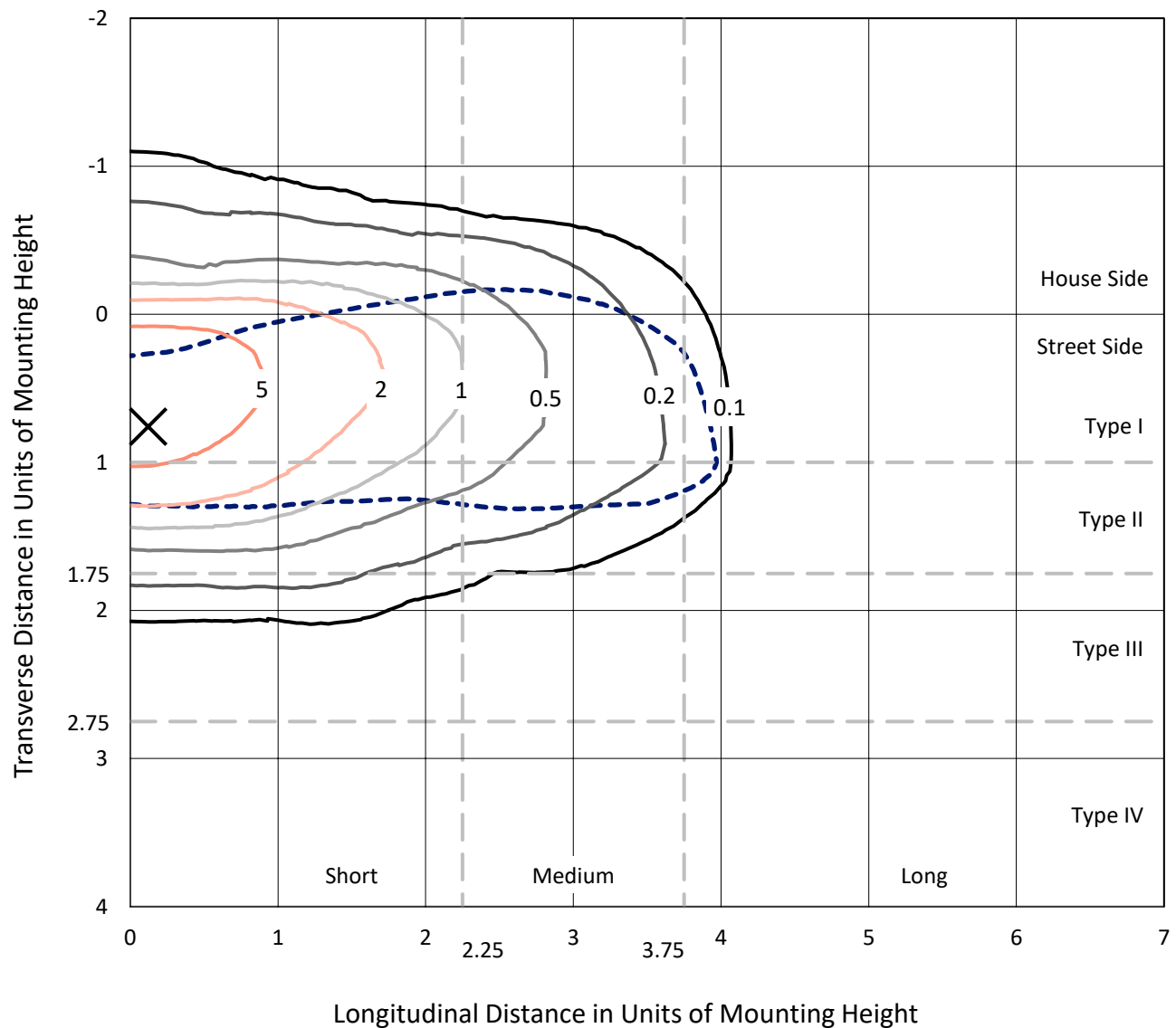
Input Watts (W): 189.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

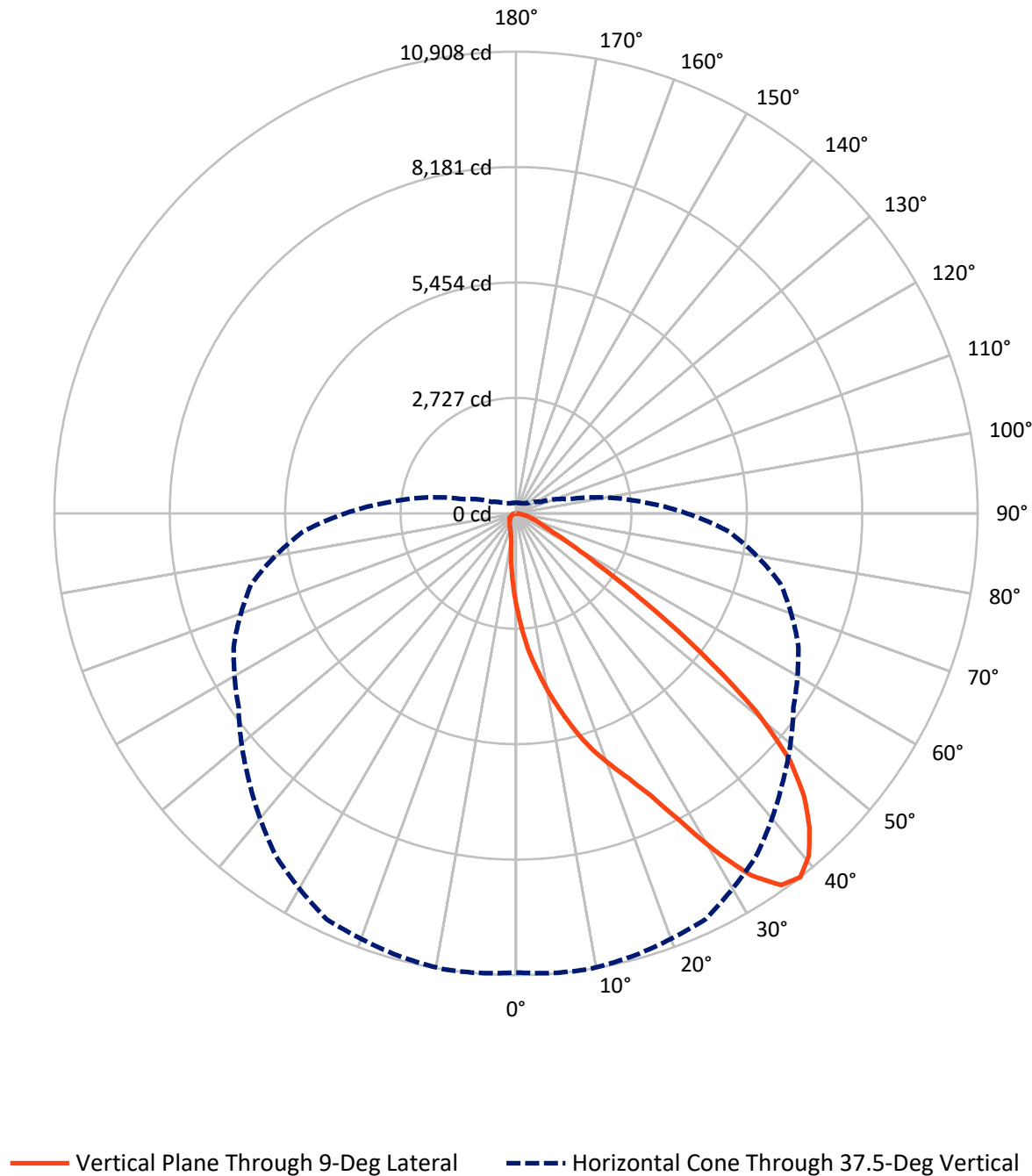
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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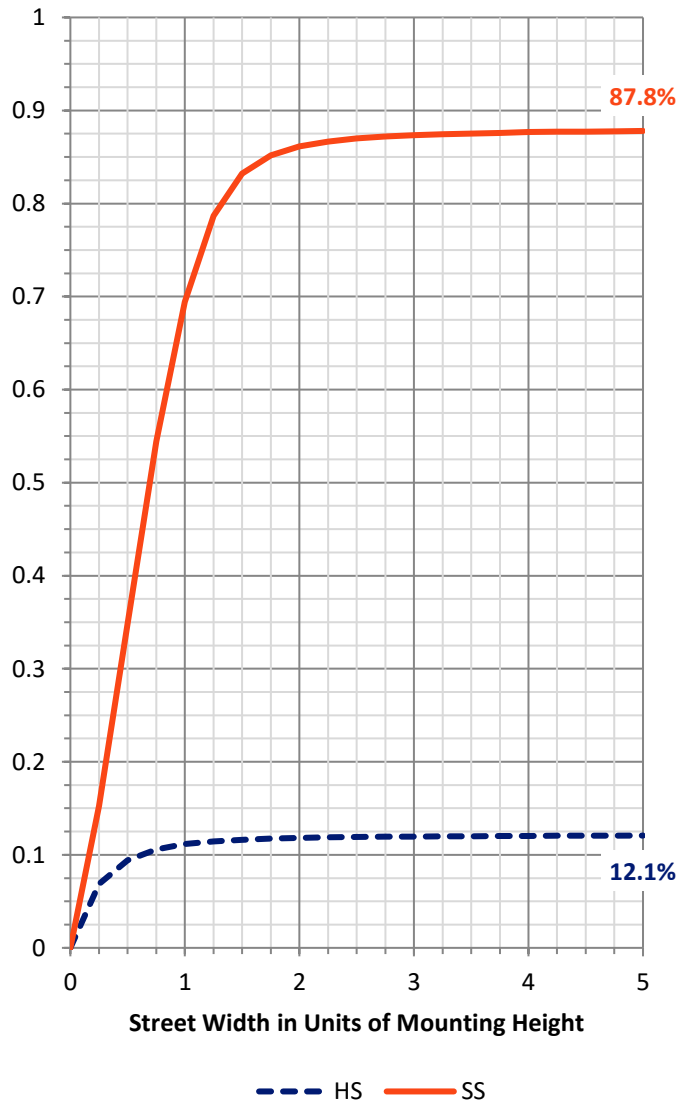
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.0	0.0	2035.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14698.0	0.0	14698.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	16733.0	0.0	16733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	1.3
10°-20°	772.7	4.6
20°-30°	1587.8	9.5
30°-40°	2806.6	16.8
40°-50°	3728.3	22.3
50°-60°	3536.1	21.1
60°-70°	2697.7	16.1
70°-80°	1307.8	7.8
80°-90°	73.6	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°	16733.0	100.0
0°-180°	16733.0	100.0

Coefficient of Utilization



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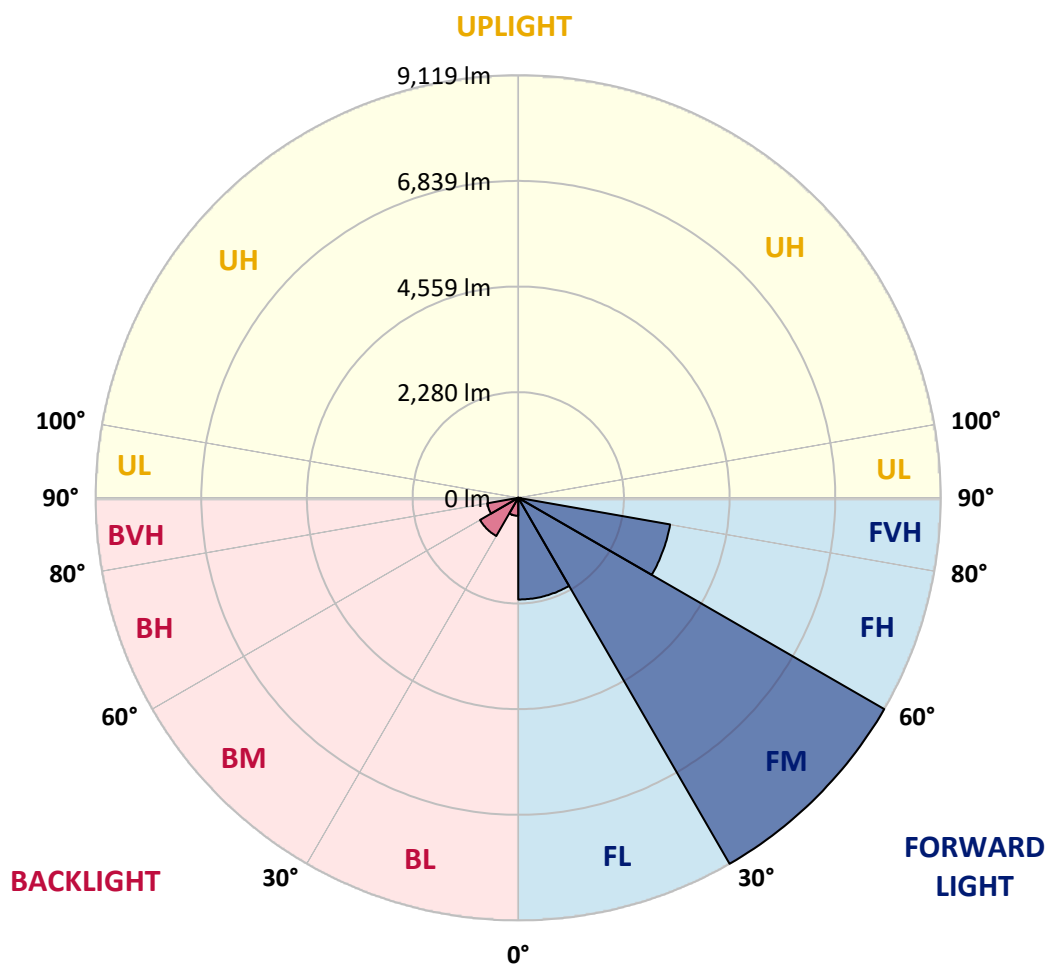
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2194.5	13.1			
FM	(30°-60°)	9118.7	54.5			
FH	(60°-80°)	3326.5	19.9			G2/5000
FVH	(80°-90°)	58.3	0.3			G1/100
BL	(0°-30°)	388.4	2.3	B1/500		
BM	(30°-60°)	952.3	5.7	B1/1000		
BH	(60°-80°)	679.1	4.1	B2/1000		G2/1000
BVH	(80°-90°)	15.3	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°	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9
2.5°	2740.8	2692.7	2747.7	2740.8	2692.7	2661.8	2565.7	2534.8	2421.4	2339.0	2266.9
5°	3304.1	3256.0	3304.1	3290.4	3221.7	3146.1	2988.1	2885.1	2682.4	2503.8	2342.4
7.5°	3771.2	3771.2	3791.8	3795.3	3712.8	3596.1	3400.3	3245.7	2960.6	2685.9	2428.3
10°	4276.1	4279.5	4324.2	4293.3	4183.4	4025.4	3778.1	3582.3	3238.9	2878.2	2510.7
12.5°	4815.3	4818.8	4832.5	4818.8	4688.3	4485.6	4186.8	3929.2	3534.2	3098.0	2624.1
15°	5354.6	5358.0	5375.2	5351.1	5206.9	4969.9	4629.9	4313.9	3846.8	3345.3	2761.4
17.5°	5859.5	5866.3	5880.1	5849.2	5698.0	5416.4	5069.5	4688.3	4179.9	3609.8	2916.0
20°	6312.8	6319.7	6330.0	6288.8	6137.7	5856.0	5481.7	5083.2	4520.0	3881.1	3084.3
22.5°	6769.7	6776.5	6793.7	6738.7	6570.4	6247.6	5880.1	5467.9	4880.6	4179.9	3280.1
25°	7353.5	7360.4	7374.1	7295.1	7065.0	6687.2	6299.1	5876.6	5272.2	4516.5	3520.5
27.5°	8208.8	8201.9	8201.9	8057.6	7662.7	7171.5	6721.6	6292.2	5694.6	4877.2	3785.0
30°	9266.6	9249.5	9239.1	9043.4	8480.1	7717.6	7154.3	6680.4	6099.9	5258.4	4070.0
32.5°	10214.6	10214.6	10194.0	9987.9	9390.3	8452.6	7614.6	7058.2	6491.4	5643.1	4365.4
35°	10774.4	10798.5	10788.2	10633.6	10197.4	9242.6	8236.2	7511.5	6903.6	6044.9	4719.2
37.5°	10850.0	10898.1	10908.4	10815.6	10585.5	9888.3	8926.6	8002.7	7357.0	6477.7	5062.6
40°	10544.3	10647.3	10647.3	10633.6	10551.2	10194.0	9507.0	8572.8	7824.1	6927.6	5409.5
42.5°	10073.8	10180.2	10166.5	10218.0	10197.4	10121.8	9833.3	9105.2	8291.2	7391.3	5725.5
45°	9459.0	9568.9	9541.4	9634.1	9675.3	9757.8	9799.0	9476.1	8751.4	7896.2	6079.3
47.5°	8473.2	8658.7	8699.9	8864.8	9036.5	9294.1	9489.9	9610.1	9180.8	8438.9	6464.0
50°	7016.9	7278.0	7360.4	7707.3	8177.8	8710.2	9026.2	9445.2	9483.0	8995.3	6879.6
52.5°	5024.9	5327.1	5454.2	6024.3	6992.9	7920.3	8490.4	9081.2	9599.8	9527.7	7329.5
55°	3249.2	3506.8	3630.4	4166.2	5454.2	6910.5	7858.4	8610.6	9534.5	10015.4	7844.7
57.5°	2002.4	2150.1	2232.5	2692.7	3877.7	5615.6	7030.7	8177.8	9335.3	10437.8	8380.5
60°	1349.8	1435.7	1476.9	1693.3	2634.4	4197.1	5893.8	7724.5	9074.3	10722.9	8868.2
62.5°	896.4	923.9	965.1	1099.1	1737.9	2946.9	4526.8	6913.9	8878.5	10740.1	9228.8
65°	693.8	707.5	724.7	783.1	1071.6	2060.8	3183.9	5601.9	8586.6	10376.0	9342.2
67.5°	546.1	559.8	580.5	611.4	776.2	1397.9	2167.2	4104.4	7988.9	9805.9	9156.7
70°	429.3	439.6	453.4	480.8	604.5	1013.2	1432.2	2727.1	6783.4	9263.2	8572.8
72.5°	340.0	350.3	364.1	391.5	491.2	741.9	982.3	1700.1	5230.9	8600.3	7449.7
75°	267.9	274.8	285.1	312.6	395.0	577.0	666.3	1016.6	3554.8	7387.9	5804.5
77.5°	134.0	164.9	188.9	216.4	288.5	398.4	443.1	563.3	1500.9	3791.8	2768.3
80°	79.0	96.2	103.0	120.2	188.9	240.4	240.4	226.7	474.0	1456.3	1130.0
82.5°	44.7	61.8	65.3	68.7	113.3	137.4	109.9	82.4	96.2	487.7	329.7
85°	13.7	20.6	24.0	27.5	37.8	41.2	37.8	34.3	27.5	48.1	30.9
87.5°	0.0	0.0	0.0	0.0	3.4	6.9	6.9	6.9	10.3	10.3	10.3
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°	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9	2211.9
2.5°	2225.6	2181.0	2095.1	2016.1	1940.6	1885.6	1834.1	1786.0	1751.7	1724.2	1720.7
5°	2256.6	2167.2	2002.4	1847.8	1707.0	1590.2	1490.6	1411.6	1353.2	1312.0	1308.6
7.5°	2297.8	2160.4	1909.7	1679.5	1470.0	1301.7	1157.5	1051.0	975.4	944.5	920.5
10°	2332.1	2153.5	1816.9	1511.2	1236.5	1023.5	851.8	745.3	690.4	669.8	659.4
12.5°	2390.5	2160.4	1737.9	1356.7	1033.8	783.1	652.6	594.2	570.1	553.0	549.5
15°	2476.4	2191.3	1662.4	1205.6	827.7	632.0	556.4	518.6	494.6	491.2	487.7
17.5°	2562.2	2218.8	1593.7	1051.0	686.9	549.5	498.0	467.1	449.9	446.5	446.5
20°	2661.8	2253.1	1518.1	903.3	587.3	494.6	453.4	429.3	408.7	405.3	405.3
22.5°	2778.6	2301.2	1446.0	772.8	522.1	453.4	419.0	391.5	374.4	370.9	370.9
25°	2936.6	2373.3	1387.6	676.6	477.4	419.0	388.1	364.1	350.3	343.5	343.5
27.5°	3111.8	2472.9	1346.4	618.2	446.5	391.5	360.6	340.0	326.3	319.4	319.4
30°	3307.5	2582.8	1318.9	594.2	429.3	367.5	340.0	319.4	302.2	298.8	298.8
32.5°	3523.9	2709.9	1301.7	597.6	425.9	350.3	319.4	298.8	285.1	278.2	278.2
35°	3764.4	2850.7	1291.4	618.2	432.8	336.6	302.2	281.6	267.9	261.0	261.0
37.5°	4032.3	3015.6	1291.4	638.8	449.9	333.2	285.1	264.5	254.2	247.3	247.3
40°	4283.0	3190.8	1305.2	662.9	467.1	333.2	271.3	254.2	240.4	233.6	233.6
42.5°	4478.8	3290.4	1315.5	686.9	477.4	329.7	257.6	240.4	230.1	223.3	223.3
45°	4702.0	3396.8	1294.9	697.2	477.4	322.9	247.3	230.1	219.8	212.9	212.9
47.5°	4949.3	3527.4	1291.4	704.1	467.1	309.1	237.0	219.8	212.9	206.1	206.1
50°	5200.0	3671.6	1298.3	700.7	453.4	288.5	223.3	212.9	202.6	195.8	195.8
52.5°	5485.1	3822.7	1312.0	693.8	422.5	264.5	212.9	202.6	192.3	185.5	182.0
55°	5801.1	3987.6	1339.5	680.1	381.2	240.4	202.6	192.3	178.6	171.7	168.3
57.5°	6165.2	4190.2	1370.4	652.6	336.6	219.8	192.3	178.6	158.0	147.7	144.3
60°	6512.1	4420.4	1404.8	587.3	291.9	199.2	182.0	161.4	140.8	134.0	130.5
62.5°	6838.3	4647.1	1421.9	470.5	247.3	182.0	171.7	147.7	127.1	120.2	116.8
65°	7047.9	4894.3	1384.2	319.4	202.6	168.3	158.0	137.4	116.8	106.5	106.5
67.5°	7061.6	5011.1	1253.6	209.5	164.9	151.1	144.3	123.6	103.0	96.2	92.7
70°	6714.7	4836.0	958.3	164.9	137.4	130.5	130.5	109.9	89.3	82.4	79.0
72.5°	5917.9	4283.0	611.4	134.0	116.8	109.9	109.9	92.7	79.0	68.7	65.3
75°	4671.1	3304.1	326.3	109.9	96.2	92.7	85.9	75.6	65.3	58.4	55.0
77.5°	2146.6	1456.3	151.1	79.0	72.1	72.1	65.3	55.0	51.5	44.7	44.7
80°	848.4	494.6	75.6	51.5	48.1	48.1	48.1	37.8	37.8	30.9	27.5
82.5°	233.6	103.0	37.8	30.9	30.9	30.9	27.5	24.0	24.0	20.6	20.6
85°	24.0	17.2	17.2	17.2	17.2	13.7	13.7	10.3	6.9	6.9	6.9
87.5°	10.3	10.3	10.3	10.3	10.3	6.9	3.4	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)