

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: P836468

Luminaire Tested: **ARCH3-190-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836468
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: ARCH3-190-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 17339 lumens
Efficiency: N/A
Efficacy: 91.5 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

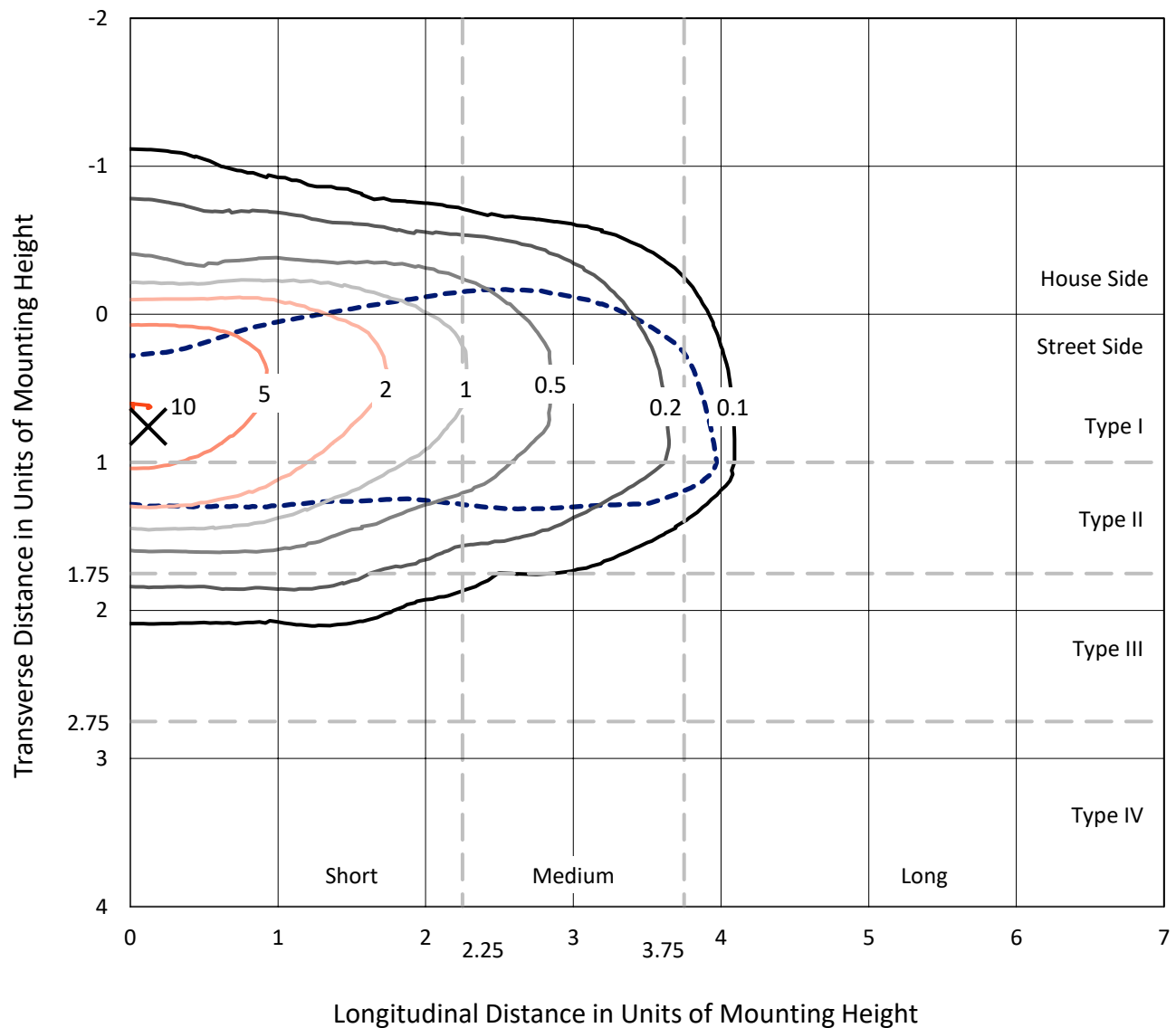


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

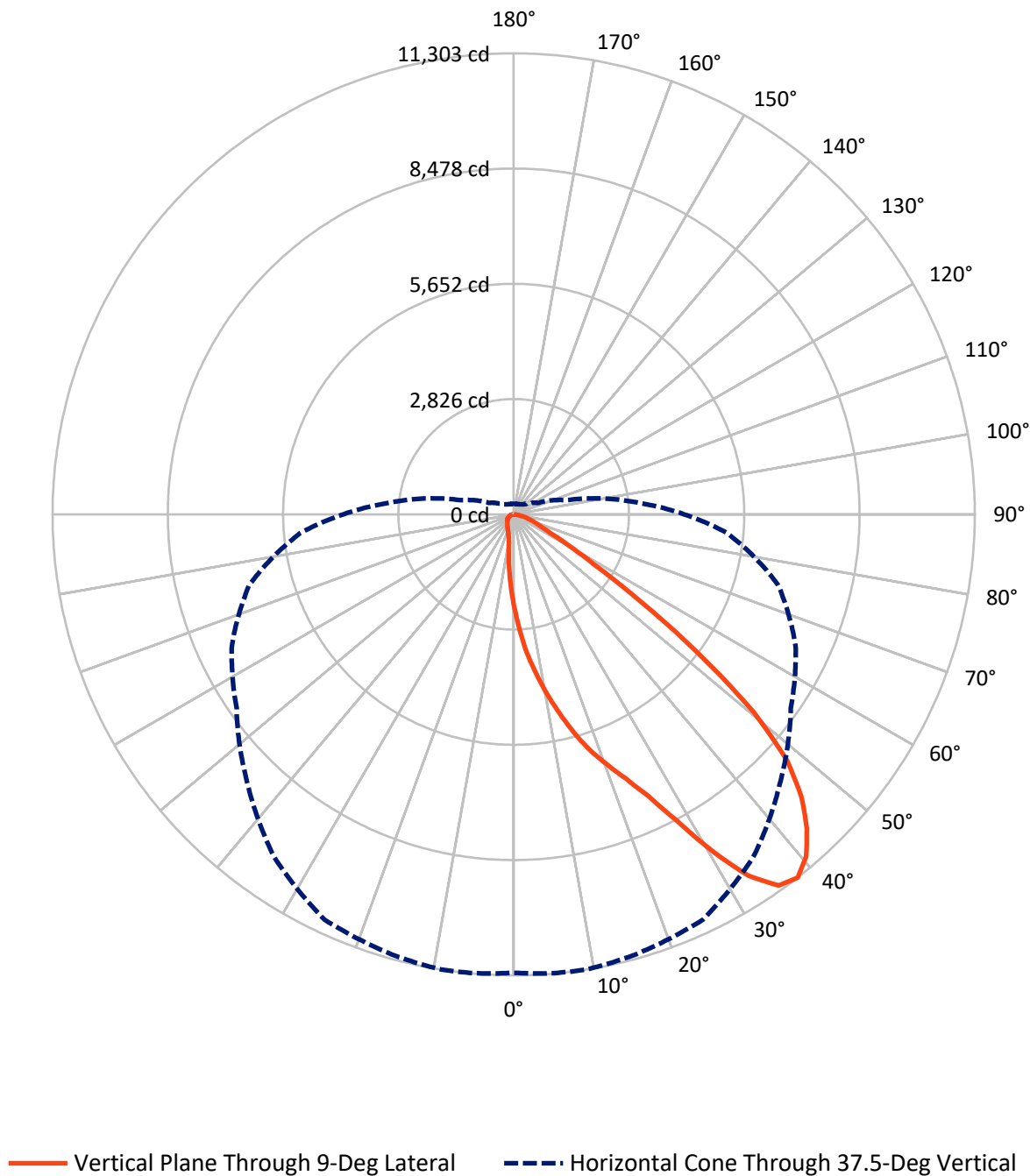


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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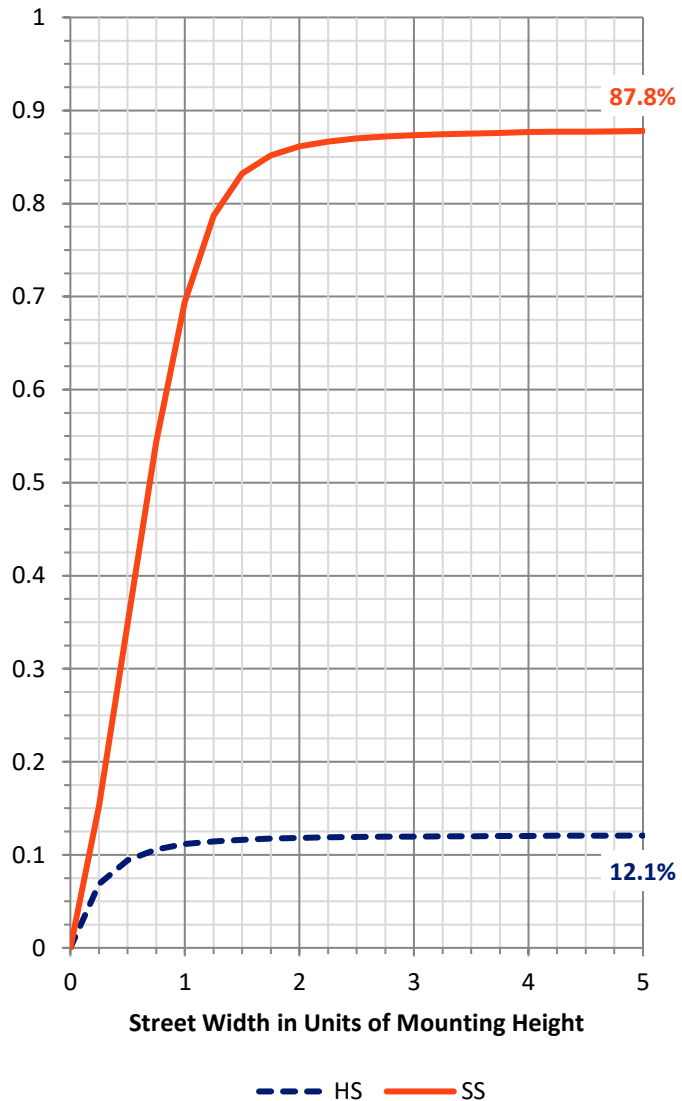
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2108.7	0.0	2108.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15230.3	0.0	15230.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	17339.0	0.0	17339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	1.3
10°-20°	800.7	4.6
20°-30°	1645.3	9.5
30°-40°	2908.2	16.8
40°-50°	3863.3	22.3
50°-60°	3664.1	21.1
60°-70°	2795.4	16.1
70°-80°	1355.2	7.8
80°-90°	76.3	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°	17339.0	100.0
0°-180°	17339.0	100.0

Coefficient of Utilization



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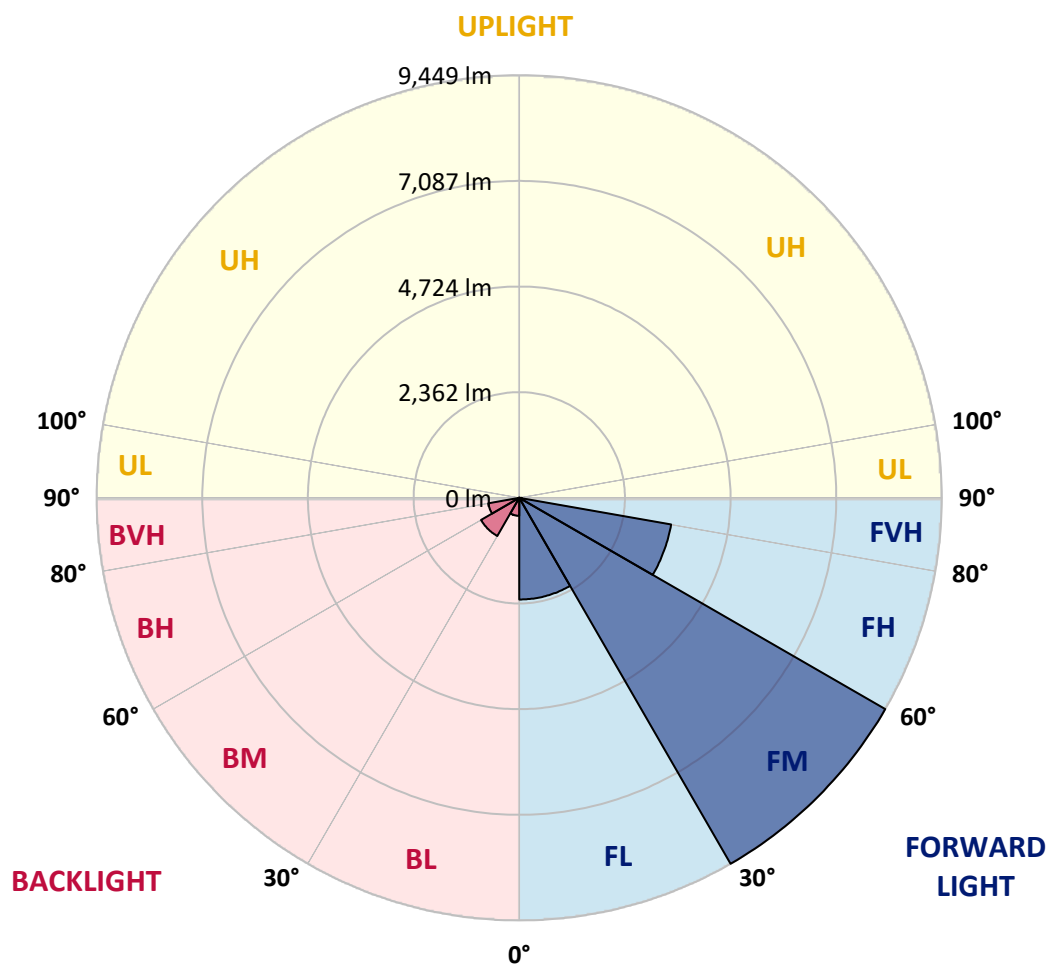
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2274.0	13.1			
FM	(30°-60°)	9448.9	54.5			
FH	(60°-80°)	3446.9	19.9			G2/5000
FVH	(80°-90°)	60.4	0.3			G1/100
BL	(0°-30°)	402.4	2.3	B1/500		
BM	(30°-60°)	986.8	5.7	B1/1000		
BH	(60°-80°)	703.7	4.1	B2/1000		G2/1000
BVH	(80°-90°)	15.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2840.1	2790.3	2847.2	2840.1	2790.3	2758.2	2658.6	2626.6	2509.1	2423.7	2349.0
5°	3423.8	3373.9	3423.8	3409.5	3338.4	3260.1	3096.3	2989.6	2779.6	2594.5	2427.2
7.5°	3907.8	3907.8	3929.2	3932.7	3847.3	3726.3	3523.4	3363.3	3067.9	2783.2	2516.2
10°	4431.0	4434.5	4480.8	4448.8	4334.9	4171.2	3914.9	3712.1	3356.2	2982.5	2601.6
12.5°	4989.7	4993.3	5007.5	4993.3	4858.1	4648.1	4338.4	4071.5	3662.2	3210.2	2719.1
15°	5548.5	5552.1	5569.9	5544.9	5395.5	5149.9	4797.6	4470.1	3986.1	3466.5	2861.4
17.5°	6071.7	6078.8	6093.0	6061.0	5904.4	5612.6	5253.1	4858.1	4331.3	3740.5	3021.6
20°	6541.5	6548.6	6559.3	6516.6	6360.0	6068.1	5680.2	5267.3	4683.7	4021.7	3196.0
22.5°	7014.8	7021.9	7039.7	6982.8	6808.4	6473.8	6093.0	5666.0	5057.4	4331.3	3398.9
25°	7619.9	7627.0	7641.2	7559.3	7320.9	6929.4	6527.2	6089.5	5463.1	4680.1	3648.0
27.5°	8506.0	8498.9	8498.9	8349.5	7940.2	7431.2	6965.0	6520.1	5900.8	5053.8	3922.0
30°	9602.2	9584.4	9573.8	9370.9	8787.2	7997.1	7413.4	6922.3	6320.8	5448.9	4217.4
32.5°	10584.5	10584.5	10563.2	10349.6	9730.3	8758.7	7890.3	7313.8	6726.5	5847.5	4523.5
35°	11164.6	11189.5	11178.9	11018.7	10566.7	9577.3	8534.5	7783.6	7153.6	6263.9	4890.1
37.5°	11242.9	11292.8	11303.4	11207.3	10968.9	10246.4	9249.9	8292.5	7623.4	6712.3	5246.0
40°	10926.2	11032.9	11032.9	11018.7	10933.3	10563.2	9851.4	8883.3	8107.4	7178.5	5605.4
42.5°	10438.6	10548.9	10534.7	10588.1	10566.7	10488.4	10189.5	9435.0	8591.5	7659.0	5932.9
45°	9801.5	9915.4	9886.9	9983.0	10025.7	10111.2	10153.9	9819.3	9068.4	8182.2	6299.5
47.5°	8780.1	8972.3	9015.0	9185.8	9363.8	9630.7	9833.6	9958.1	9513.2	8744.5	6698.1
50°	7271.1	7541.6	7627.0	7986.4	8474.0	9025.7	9353.1	9787.3	9826.4	9321.1	7128.7
52.5°	5206.8	5520.0	5651.7	6242.5	7246.2	8207.1	8797.9	9410.0	9947.4	9872.7	7594.9
55°	3366.8	3633.8	3761.9	4317.1	5651.7	7160.7	8143.0	8922.5	9879.8	10378.1	8128.8
57.5°	2074.9	2227.9	2313.4	2790.3	4018.1	5819.0	7285.3	8474.0	9673.4	10815.8	8684.0
60°	1398.7	1487.7	1530.4	1754.6	2729.8	4349.1	6107.3	8004.2	9402.9	11111.2	9189.4
62.5°	928.9	957.4	1000.1	1138.9	1800.9	3053.6	4690.8	7164.3	9200.1	11129.0	9563.1
65°	718.9	733.2	751.0	811.5	1110.4	2135.4	3299.2	5804.8	8897.5	10751.8	9680.5
67.5°	565.9	580.1	601.5	633.5	804.3	1448.5	2245.7	4253.0	8278.3	10161.0	9488.3
70°	444.9	455.6	469.8	498.3	626.4	1049.9	1484.1	2825.9	7029.1	9598.7	8883.3
72.5°	352.3	363.0	377.3	405.7	508.9	768.7	1017.9	1761.7	5420.4	8911.8	7719.5
75°	277.6	284.7	295.4	323.9	409.3	597.9	690.4	1053.5	3683.6	7655.4	6014.7
77.5°	138.8	170.8	195.7	224.2	299.0	412.8	459.1	583.7	1555.3	3929.2	2868.6
80°	81.9	99.7	106.8	124.6	195.7	249.1	249.1	234.9	491.1	1509.0	1170.9
82.5°	46.3	64.1	67.6	71.2	117.4	142.4	113.9	85.4	99.7	505.4	341.7
85°	14.2	21.4	24.9	28.5	39.1	42.7	39.1	35.6	28.5	49.8	32.0
87.5°	0.0	0.0	0.0	0.0	3.6	7.1	7.1	7.1	10.7	10.7	10.7
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°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2306.2	2260.0	2171.0	2089.1	2010.8	1953.9	1900.5	1850.7	1815.1	1786.6	1783.1
5°	2338.3	2245.7	2074.9	1914.8	1768.8	1647.8	1544.6	1462.8	1402.3	1359.5	1356.0
7.5°	2381.0	2238.6	1978.8	1740.4	1523.3	1348.9	1199.4	1089.1	1010.8	978.7	953.8
10°	2416.6	2231.5	1882.7	1566.0	1281.2	1060.6	882.6	772.3	715.4	694.0	683.3
12.5°	2477.1	2238.6	1800.9	1405.8	1071.3	811.5	676.2	615.7	590.8	573.0	569.4
15°	2566.1	2270.7	1722.6	1249.2	857.7	654.9	576.6	537.4	512.5	508.9	505.4
17.5°	2655.0	2299.1	1651.4	1089.1	711.8	569.4	516.1	484.0	466.2	462.7	462.7
20°	2758.2	2334.7	1573.1	936.0	608.6	512.5	469.8	444.9	423.5	420.0	420.0
22.5°	2879.2	2384.5	1498.3	800.8	541.0	469.8	434.2	405.7	387.9	384.4	384.4
25°	3043.0	2459.3	1437.8	701.1	494.7	434.2	402.2	377.3	363.0	355.9	355.9
27.5°	3224.5	2562.5	1395.1	640.6	462.7	405.7	373.7	352.3	338.1	331.0	331.0
30°	3427.3	2676.4	1366.7	615.7	444.9	380.8	352.3	331.0	313.2	309.6	309.6
32.5°	3651.5	2808.1	1348.9	619.3	441.3	363.0	331.0	309.6	295.4	288.3	288.3
35°	3900.7	2954.0	1338.2	640.6	448.4	348.8	313.2	291.8	277.6	270.5	270.5
37.5°	4178.3	3124.8	1338.2	662.0	466.2	345.2	295.4	274.0	263.4	256.2	256.2
40°	4438.1	3306.3	1352.4	686.9	484.0	345.2	281.2	263.4	249.1	242.0	242.0
42.5°	4641.0	3409.5	1363.1	711.8	494.7	341.7	266.9	249.1	238.5	231.3	231.3
45°	4872.3	3519.9	1341.7	722.5	494.7	334.5	256.2	238.5	227.8	220.7	220.7
47.5°	5128.5	3655.1	1338.2	729.6	484.0	320.3	245.6	227.8	220.7	213.5	213.5
50°	5388.3	3804.6	1345.3	726.0	469.8	299.0	231.3	220.7	210.0	202.9	202.9
52.5°	5683.7	3961.2	1359.5	718.9	437.8	274.0	220.7	210.0	199.3	192.2	188.6
55°	6011.2	4132.0	1388.0	704.7	395.1	249.1	210.0	199.3	185.1	178.0	174.4
57.5°	6388.4	4342.0	1420.0	676.2	348.8	227.8	199.3	185.1	163.7	153.0	149.5
60°	6747.9	4580.5	1455.6	608.6	302.5	206.4	188.6	167.3	145.9	138.8	135.2
62.5°	7086.0	4815.3	1473.4	487.6	256.2	188.6	178.0	153.0	131.7	124.6	121.0
65°	7303.1	5071.6	1434.3	331.0	210.0	174.4	163.7	142.4	121.0	110.3	110.3
67.5°	7317.3	5192.6	1299.0	217.1	170.8	156.6	149.5	128.1	106.8	99.7	96.1
70°	6957.9	5011.1	993.0	170.8	142.4	135.2	135.2	113.9	92.5	85.4	81.9
72.5°	6132.2	4438.1	633.5	138.8	121.0	113.9	113.9	96.1	81.9	71.2	67.6
75°	4840.3	3423.8	338.1	113.9	99.7	96.1	89.0	78.3	67.6	60.5	56.9
77.5°	2224.4	1509.0	156.6	81.9	74.7	74.7	67.6	56.9	53.4	46.3	46.3
80°	879.1	512.5	78.3	53.4	49.8	49.8	49.8	39.1	39.1	32.0	28.5
82.5°	242.0	106.8	39.1	32.0	32.0	32.0	28.5	24.9	24.9	21.4	21.4
85°	24.9	17.8	17.8	17.8	17.8	14.2	14.2	10.7	7.1	7.1	7.1
87.5°	10.7	10.7	10.7	10.7	10.7	7.1	3.6	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)