

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: P835840

Luminaire Tested: **ARCH3-100-740-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11423 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 102.6
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



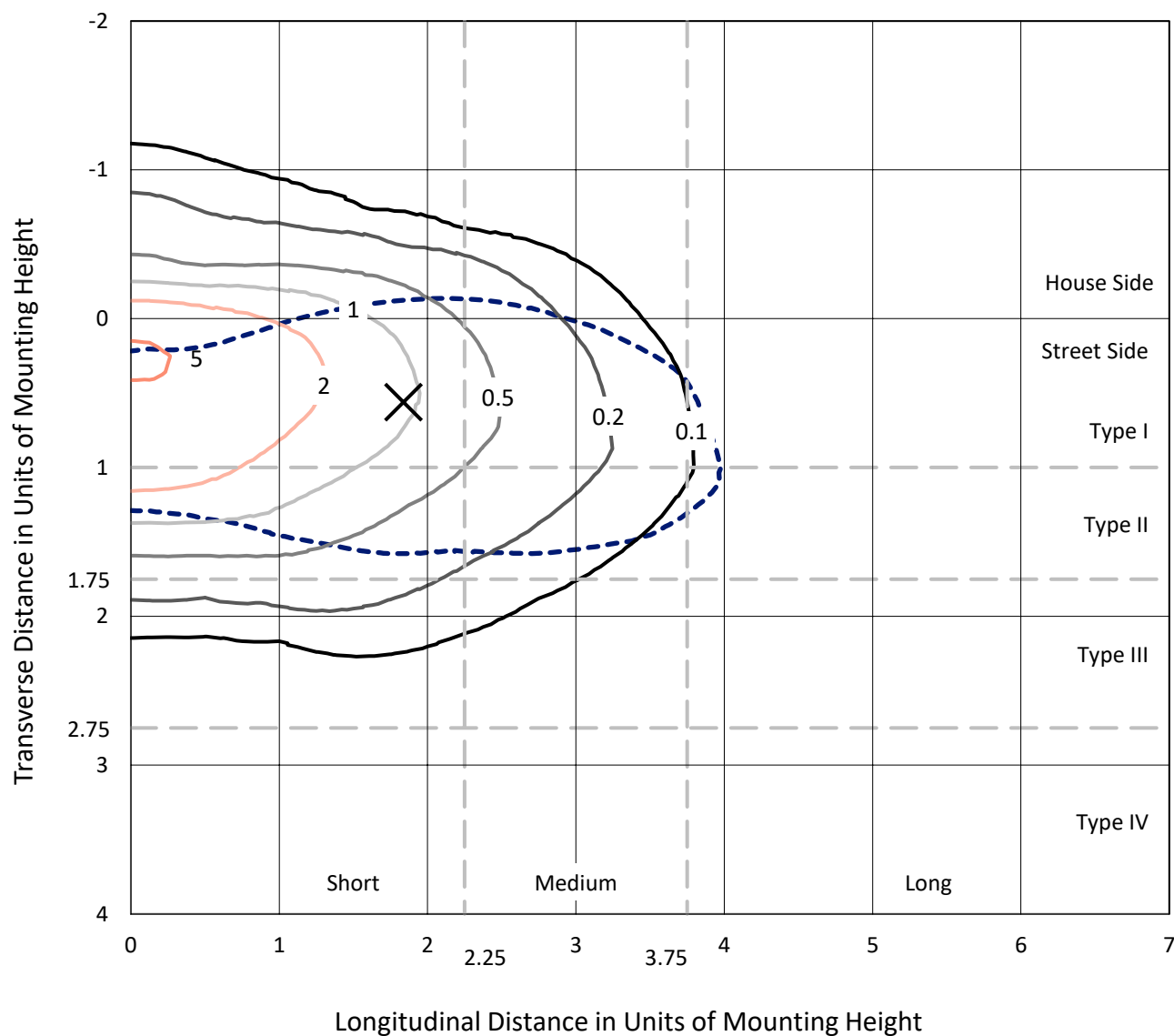
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

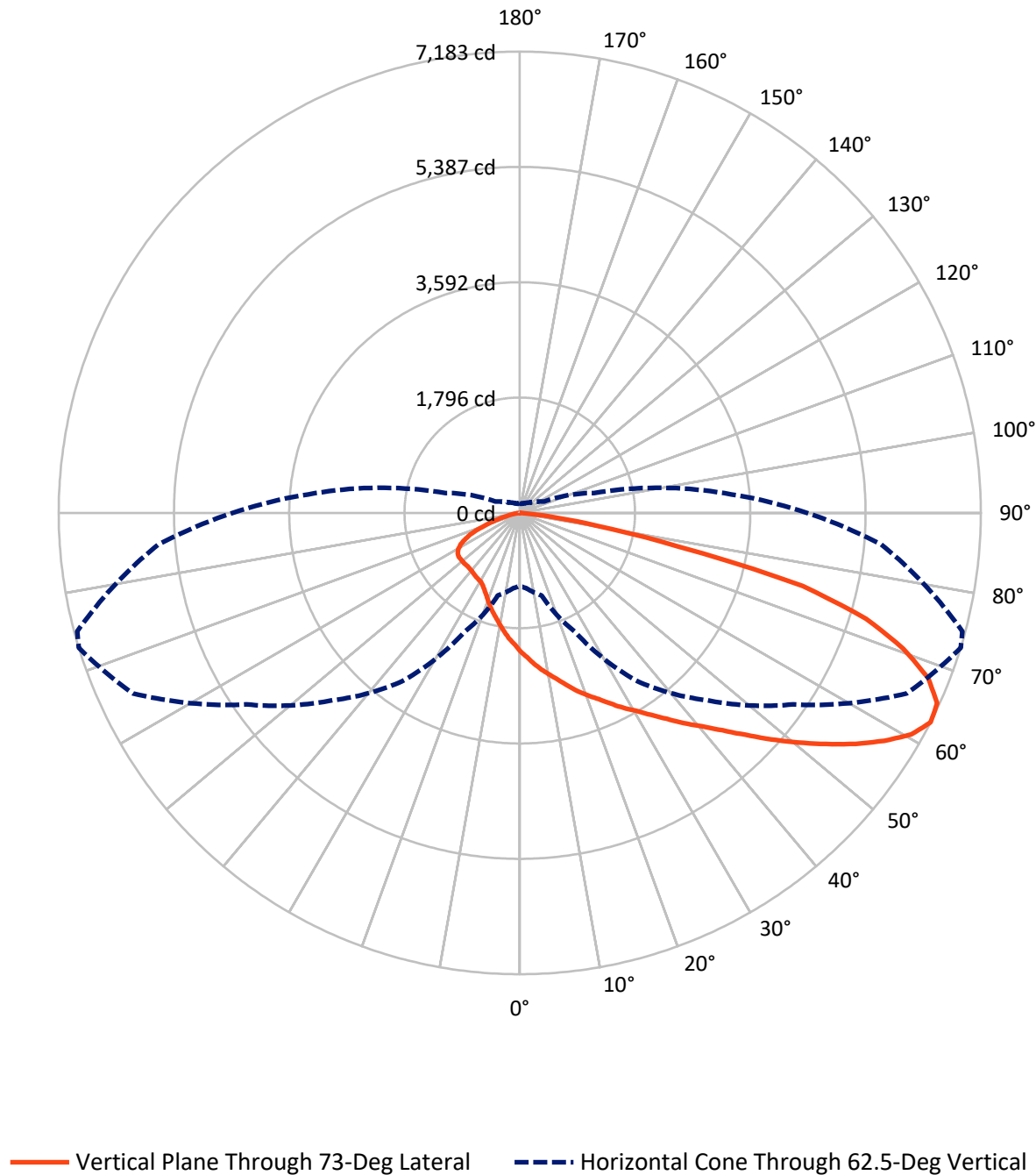


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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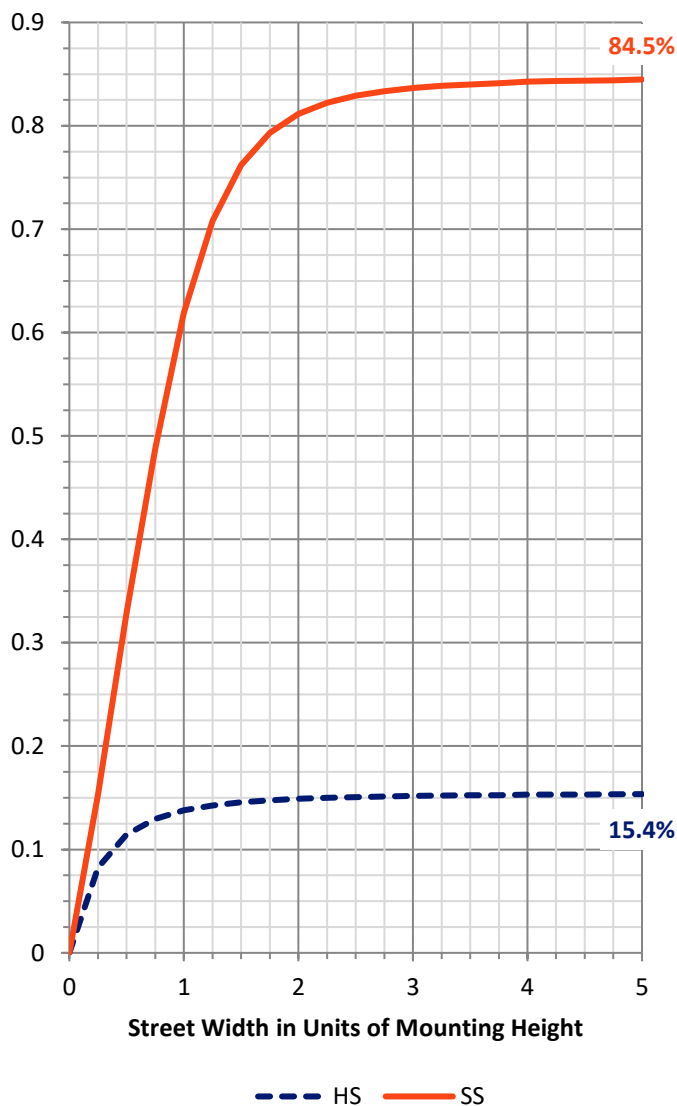
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1770.7	0.0	1770.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9652.3	0.0	9652.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	11423.0	0.0	11423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	1.8
10°-20°	630.5	5.5
20°-30°	1049.5	9.2
30°-40°	1583.6	13.9
40°-50°	2213.4	19.4
50°-60°	2444.9	21.4
60°-70°	2129.8	18.6
70°-80°	1075.9	9.4
80°-90°	86.4	0.8
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°	11423.0	100.0
0°-180°	11423.0	100.0

Coefficient of Utilization



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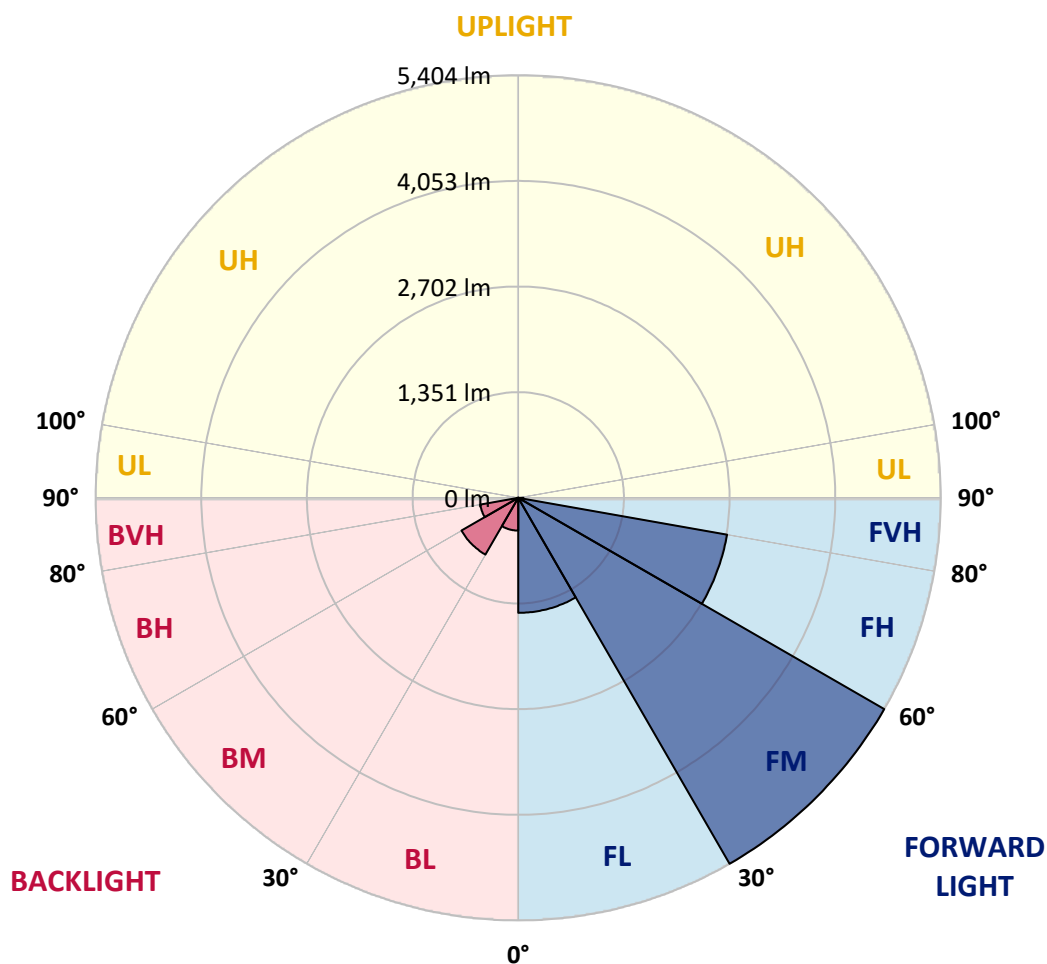
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1470.5	12.9			
FM	(30°-60°)	5403.5	47.3			
FH	(60°-80°)	2711.4	23.7			G2/5000
FVH	(80°-90°)	66.8	0.6			G1/100
BL	(0°-30°)	418.5	3.7	B1/500		
BM	(30°-60°)	838.4	7.3	B1/1000		
BH	(60°-80°)	494.2	4.3	B1/500		G1/500
BVH	(80°-90°)	19.5	0.2			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0
2.5°	2461.7	2489.0	2474.1	2484.1	2434.3	2401.9	2364.6	2292.4	2252.6	2247.6	2200.3
5°	2822.6	2852.4	2827.5	2820.1	2733.0	2658.3	2573.7	2446.7	2362.1	2347.2	2242.6
7.5°	3183.5	3210.9	3181.0	3158.6	3041.6	2909.7	2785.2	2598.5	2466.6	2441.7	2277.5
10°	3437.4	3462.2	3439.8	3417.4	3295.5	3161.1	2984.3	2740.4	2561.2	2521.4	2299.9
12.5°	3629.0	3643.9	3634.0	3614.1	3499.6	3355.2	3186.0	2899.7	2668.2	2618.5	2334.7
15°	3785.8	3810.7	3798.3	3783.3	3673.8	3529.4	3367.7	3066.5	2792.7	2730.5	2387.0
17.5°	3890.4	3907.8	3910.3	3910.3	3813.2	3671.3	3514.5	3218.3	2917.1	2837.5	2436.8
20°	3937.6	3957.6	3970.0	3989.9	3910.3	3788.3	3629.0	3347.7	3034.1	2944.5	2484.1
22.5°	3960.1	3977.5	4009.8	4054.6	3989.9	3887.9	3741.0	3467.2	3151.1	3056.5	2538.8
25°	3977.5	3999.9	4047.2	4131.8	4087.0	3999.9	3872.9	3604.1	3290.5	3193.4	2618.5
27.5°	4024.8	4052.1	4096.9	4199.0	4144.2	4101.9	4012.3	3751.0	3437.4	3337.8	2715.5
30°	4189.0	4211.4	4209.0	4273.7	4206.5	4194.0	4131.8	3892.8	3579.2	3479.7	2830.0
32.5°	4487.7	4510.1	4455.4	4430.5	4283.6	4286.1	4261.2	4044.7	3748.5	3646.4	2961.9
35°	4808.8	4833.7	4761.5	4719.2	4472.8	4400.6	4413.1	4233.8	3937.6	3835.6	3126.2
37.5°	5095.0	5124.9	5062.7	5000.5	4751.6	4584.8	4582.3	4445.4	4154.2	4049.7	3307.9
40°	5251.9	5286.7	5324.0	5289.2	5027.8	4843.7	4764.0	4662.0	4368.3	4261.2	3504.6
42.5°	5326.5	5423.6	5490.8	5468.4	5254.3	5067.7	4973.1	4888.5	4629.6	4525.1	3738.5
45°	5117.5	5119.9	5261.8	5383.8	5344.0	5219.5	5202.1	5142.3	4928.3	4828.7	4002.4
47.5°	4856.1	4836.2	4935.8	5152.3	5264.3	5296.7	5398.7	5423.6	5269.3	5169.7	4271.2
50°	4228.9	4241.3	4564.9	4876.0	5095.0	5304.1	5538.1	5712.3	5620.2	5525.7	4554.9
52.5°	3439.8	3469.7	3840.6	4525.1	4871.0	5229.5	5620.2	6001.1	5978.7	5889.1	4838.7
55°	2757.8	2805.1	3198.4	3940.1	4584.8	5062.7	5655.1	6264.9	6349.5	6267.4	5117.5
57.5°	2108.2	2158.0	2489.0	3250.7	4218.9	4791.4	5630.2	6496.4	6695.5	6643.2	5373.8
60°	1588.0	1637.8	1849.4	2635.9	3760.9	4487.7	5505.7	6648.2	7006.6	6951.9	5560.5
62.5°	1137.5	1177.3	1334.1	2051.0	3203.4	4126.8	5199.6	6650.7	7183.3	7138.5	5650.1
65°	818.9	818.9	945.8	1463.6	2680.7	3693.7	4736.6	6344.5	7146.0	7133.6	5587.9
67.5°	589.9	594.9	696.9	1023.0	2138.1	3168.5	4136.8	5799.4	6857.3	6919.5	5363.9
70°	418.2	430.6	477.9	714.4	1615.4	2501.5	3494.6	5085.1	6337.1	6446.6	4930.8
72.5°	323.6	331.0	363.4	497.8	1179.8	1859.3	2785.2	4288.6	5642.6	5767.1	4340.9
75°	248.9	256.4	281.3	365.9	846.3	1304.3	1978.8	3327.8	4550.0	4771.5	3487.1
77.5°	181.7	191.7	209.1	266.3	492.8	828.8	1199.7	1871.8	2511.4	2616.0	1826.9
80°	84.6	97.1	122.0	171.7	266.3	390.8	425.6	721.8	1207.2	1261.9	990.6
82.5°	47.3	59.7	69.7	104.5	134.4	139.4	144.4	181.7	455.5	502.8	415.7
85°	22.4	29.9	32.4	44.8	44.8	39.8	47.3	34.8	74.7	89.6	87.1
87.5°	0.0	2.5	5.0	12.4	10.0	7.5	7.5	7.5	7.5	10.0	7.5
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°	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0	2163.0
2.5°	2177.9	2145.5	2070.9	2006.2	1963.8	1926.5	1876.7	1854.3	1814.5	1822.0	1799.6
5°	2190.3	2130.6	1998.7	1876.7	1787.1	1707.5	1620.4	1570.6	1515.8	1510.8	1493.4
7.5°	2197.8	2105.7	1916.6	1744.8	1607.9	1486.0	1369.0	1304.3	1237.0	1222.1	1207.2
10°	2190.3	2068.4	1831.9	1607.9	1426.2	1274.4	1142.5	1060.3	990.6	973.2	958.3
12.5°	2197.8	2048.5	1752.3	1481.0	1264.4	1092.7	943.3	858.7	794.0	776.6	766.6
15°	2215.2	2036.0	1685.1	1366.5	1120.1	928.4	781.6	709.4	657.1	639.7	634.7
17.5°	2230.2	2023.6	1612.9	1254.5	975.7	784.0	657.1	597.4	552.6	535.1	530.2
20°	2250.1	2006.2	1540.7	1147.4	848.8	669.5	557.5	505.3	470.4	458.0	455.5
22.5°	2267.5	1993.7	1473.5	1040.4	731.8	577.5	482.9	440.6	415.7	403.2	403.2
25°	2312.3	1998.7	1416.3	940.9	644.7	505.3	425.6	393.3	373.4	365.9	365.9
27.5°	2364.6	2018.6	1371.5	856.2	570.0	450.5	385.8	358.4	348.5	338.5	341.0
30°	2439.3	2058.4	1341.6	786.5	515.2	408.2	353.4	333.5	323.6	321.1	321.1
32.5°	2533.8	2123.1	1339.1	741.7	475.4	375.8	331.0	313.6	308.6	306.2	306.2
35°	2645.8	2180.4	1324.2	721.8	450.5	353.4	313.6	301.2	298.7	298.7	298.7
37.5°	2780.2	2275.0	1314.2	694.4	438.1	341.0	301.2	291.2	291.2	291.2	291.2
40°	2919.6	2352.1	1299.3	669.5	433.1	333.5	293.7	281.3	281.3	281.3	281.3
42.5°	3086.4	2464.1	1294.3	657.1	425.6	328.6	283.7	268.8	271.3	271.3	273.8
45°	3288.0	2591.1	1291.8	644.7	423.1	323.6	273.8	256.4	258.9	256.4	256.4
47.5°	3492.1	2737.9	1299.3	637.2	420.6	318.6	266.3	243.9	243.9	241.4	241.4
50°	3706.2	2872.3	1304.3	629.7	415.7	308.6	253.9	234.0	229.0	224.0	226.5
52.5°	3907.8	2996.8	1306.7	617.3	400.7	293.7	243.9	221.5	214.1	206.6	209.1
55°	4109.4	3116.3	1311.7	602.3	380.8	278.8	231.5	209.1	199.1	189.2	189.2
57.5°	4291.1	3220.8	1299.3	565.0	358.4	263.8	219.0	194.1	179.2	169.3	169.3
60°	4415.5	3295.5	1261.9	510.3	328.6	246.4	206.6	179.2	161.8	154.3	154.3
62.5°	4475.3	3307.9	1194.7	420.6	291.2	229.0	191.7	164.3	149.3	144.4	144.4
65°	4418.0	3253.2	1090.2	316.1	251.4	209.1	176.7	151.8	136.9	124.5	124.5
67.5°	4218.9	3098.8	945.8	238.9	214.1	189.2	161.8	139.4	122.0	112.0	112.0
70°	3818.2	2777.8	731.8	191.7	181.7	164.3	146.9	124.5	109.5	97.1	97.1
72.5°	3293.0	2354.6	515.2	154.3	154.3	139.4	124.5	109.5	94.6	84.6	84.6
75°	2526.4	1742.3	346.0	124.5	126.9	117.0	102.1	89.6	79.6	72.2	72.2
77.5°	1378.9	861.2	211.6	92.1	94.6	89.6	79.6	72.2	67.2	59.7	59.7
80°	669.5	378.3	122.0	64.7	67.2	64.7	59.7	52.3	52.3	47.3	47.3
82.5°	281.3	141.9	64.7	44.8	44.8	39.8	37.3	37.3	37.3	34.8	34.8
85°	69.7	27.4	27.4	24.9	24.9	24.9	22.4	22.4	22.4	17.4	19.9
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	7.5	2.5	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)