

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: P836067

Luminaire Tested: **ARCH3-130-750-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836067
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: ARCH3-130-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14014 lumens
Efficiency: N/A
Efficacy: 105.7 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): 132.6
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

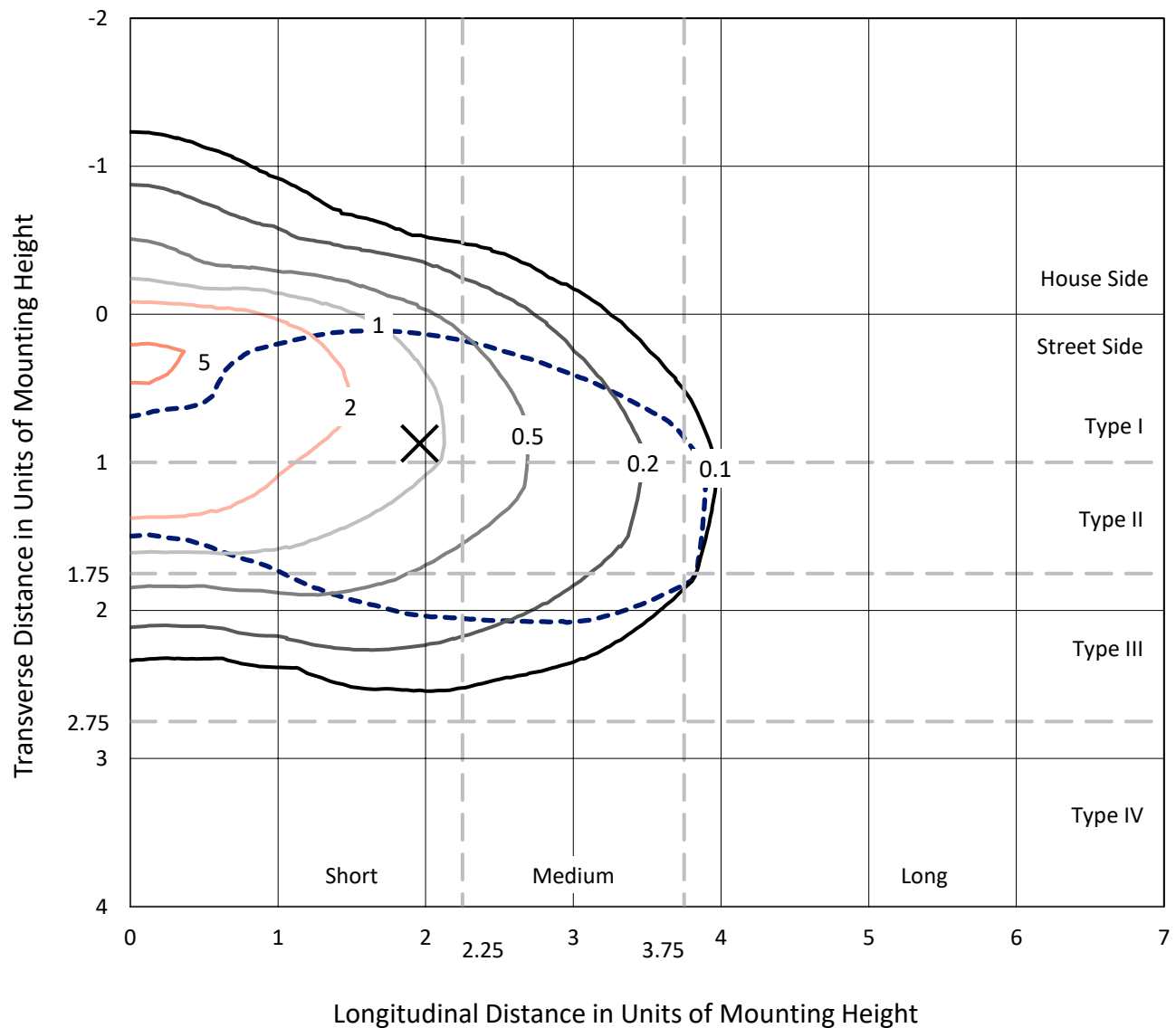


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Iso-Footcandle Lines of Horizontal Illumination

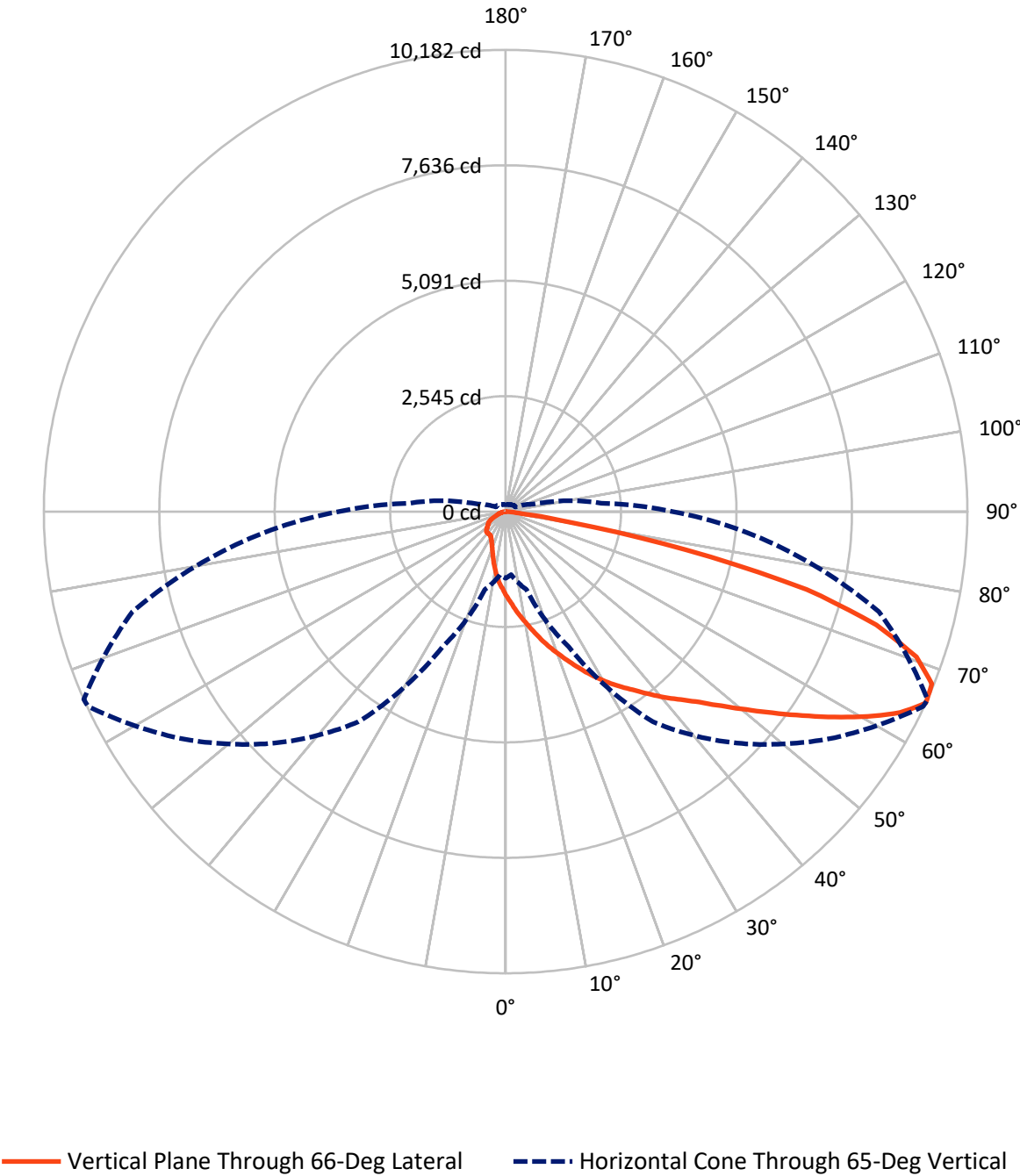
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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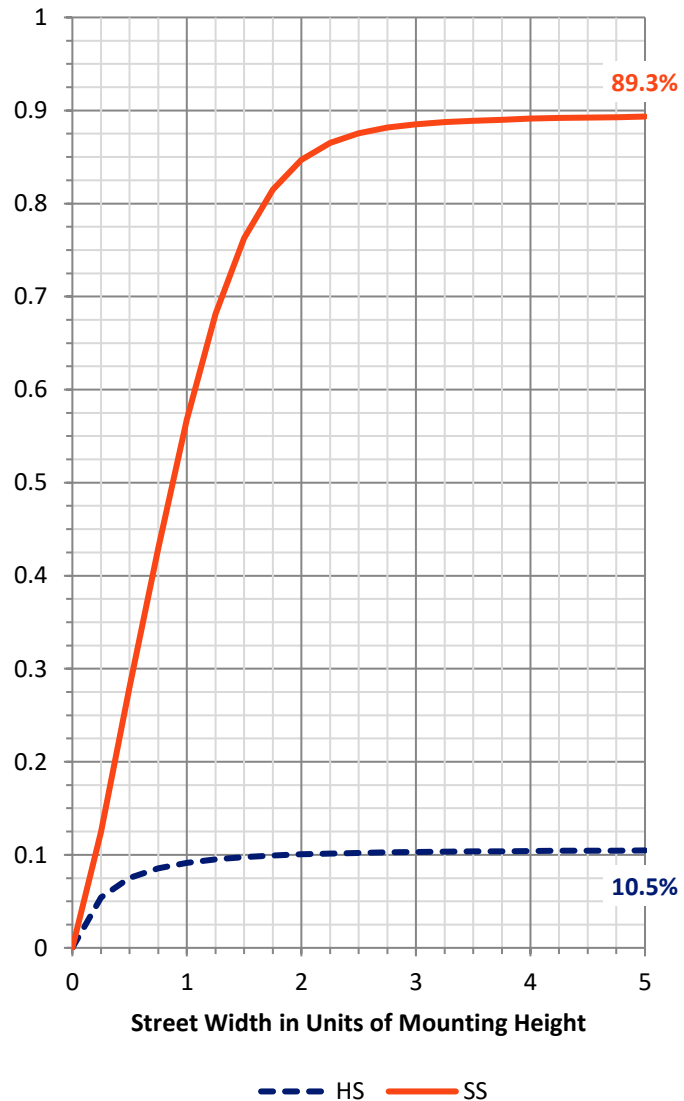
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1482.3	0.0	1482.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	12531.7	0.0	12531.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	14014.0	0.0	14014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	1.3
10°-20°	596.6	4.3
20°-30°	1079.5	7.7
30°-40°	1688.0	12.0
40°-50°	2560.8	18.3
50°-60°	3253.5	23.2
60°-70°	3040.1	21.7
70°-80°	1510.9	10.8
80°-90°	101.5	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°	14014.0	100.0
0°-180°	14014.0	100.0

Coefficient of Utilization



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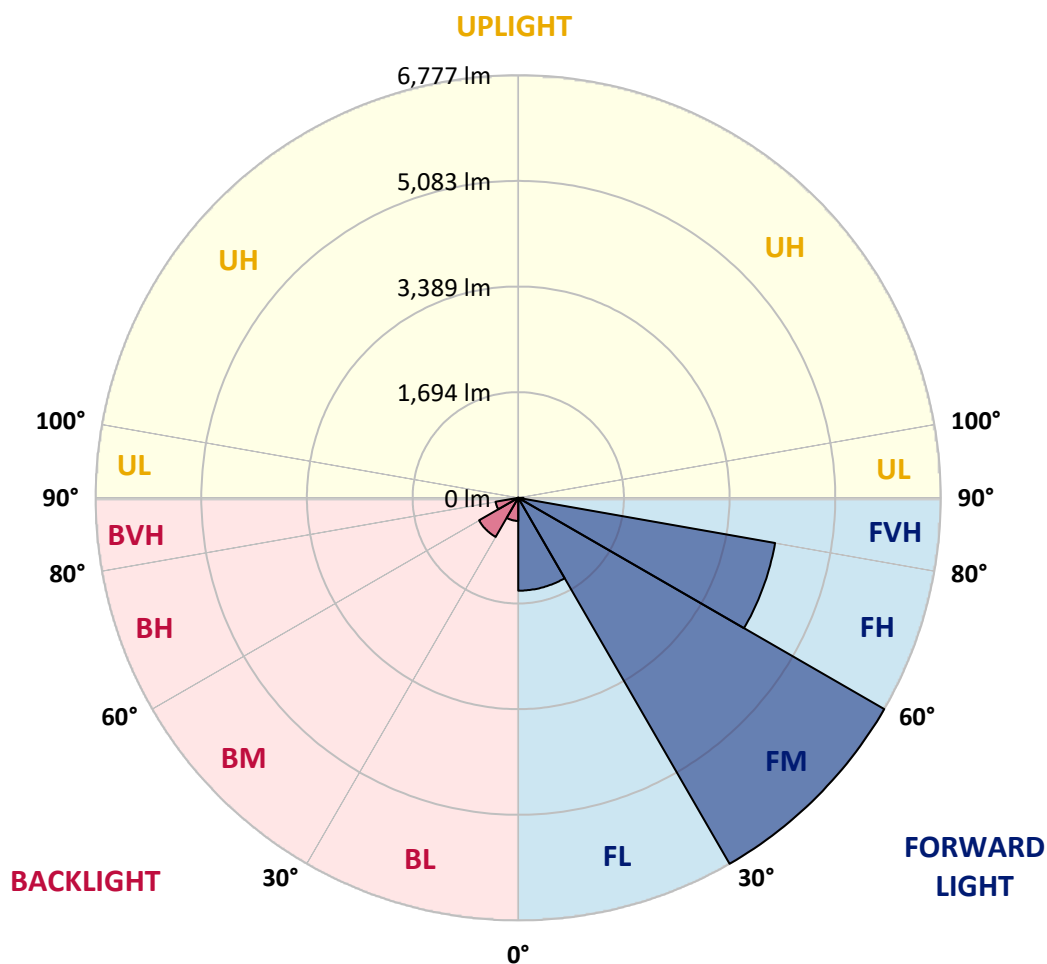
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1489.0	10.6			
FM	(30°-60°)	6777.3	48.4			
FH	(60°-80°)	4181.8	29.8			G2/5000
FVH	(80°-90°)	83.5	0.6			G1/100
BL	(0°-30°)	370.2	2.6	B1/500		
BM	(30°-60°)	725.0	5.2	B1/1000		
BH	(60°-80°)	369.1	2.6	B1/500		G1/500
BVH	(80°-90°)	18.0	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°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	2166.2	2183.9	2192.7	2195.6	2128.0	2098.6	2069.2	2001.6	1986.9	1948.7	1898.8
5°	2548.3	2571.9	2566.0	2554.2	2471.9	2377.9	2301.4	2175.1	2154.5	2063.4	1951.7
7.5°	2924.6	2945.1	2939.3	2895.2	2804.1	2671.8	2545.4	2360.2	2330.8	2183.9	2004.6
10°	3239.1	3256.7	3253.8	3209.7	3100.9	2939.3	2786.4	2539.5	2504.3	2295.6	2048.7
12.5°	3497.7	3521.2	3518.3	3488.9	3391.9	3215.6	3042.1	2745.3	2701.2	2430.8	2110.4
15°	3700.5	3729.9	3729.9	3718.2	3650.6	3503.6	3306.7	2971.6	2918.7	2586.6	2186.8
17.5°	3824.0	3847.5	3868.1	3888.6	3841.6	3729.9	3550.6	3197.9	3142.1	2739.4	2266.2
20°	3888.6	3912.2	3926.9	3970.9	3979.8	3923.9	3782.8	3421.3	3362.5	2912.8	2357.3
22.5°	3994.5	4015.0	4018.0	4056.2	4073.8	4088.5	4000.3	3641.7	3594.7	3103.9	2460.2
25°	4170.8	4194.3	4185.5	4203.1	4206.1	4223.7	4214.9	3894.5	3847.5	3321.4	2583.6
27.5°	4397.1	4426.5	4420.7	4403.0	4376.6	4361.9	4400.1	4150.2	4106.2	3538.9	2710.0
30°	4641.1	4676.4	4667.6	4632.3	4561.7	4500.0	4552.9	4391.3	4350.1	3762.3	2851.1
32.5°	4888.0	4929.1	4926.2	4867.4	4746.9	4641.1	4720.5	4617.6	4588.2	4003.3	3003.9
35°	5049.7	5102.6	5096.7	5061.4	4905.6	4814.5	4911.5	4849.8	4829.2	4297.2	3224.4
37.5°	5311.3	5367.1	5317.1	5229.0	5049.7	5002.6	5120.2	5111.4	5096.7	4608.8	3456.6
40°	5946.1	6028.4	5896.2	5534.6	5240.7	5199.6	5367.1	5402.4	5387.7	4917.4	3665.3
42.5°	6610.4	6733.9	6528.1	6028.4	5587.5	5437.6	5637.5	5687.5	5669.8	5181.9	3853.4
45°	7013.1	7066.0	6860.2	6472.3	6201.8	5725.7	5925.6	6007.9	5993.2	5499.4	4094.4
47.5°	7342.3	7321.7	7086.6	6825.0	6874.9	6131.3	6251.8	6413.5	6401.7	5849.1	4358.9
50°	7412.8	7365.8	7271.7	7107.1	7239.4	6542.8	6595.7	6874.9	6863.2	6237.1	4626.4
52.5°	6916.1	6854.4	7110.1	7248.2	7204.1	6842.6	6974.9	7380.5	7374.6	6657.4	4882.1
55°	5675.7	5625.8	6313.5	7027.8	7165.9	7054.2	7395.2	7906.6	7939.0	7104.2	5114.3
57.5°	4464.7	4411.8	5087.9	6475.2	7024.8	7248.2	7886.0	8509.2	8550.3	7589.2	5334.8
60°	3559.4	3480.1	3997.4	5605.2	6760.3	7398.1	8359.3	9170.5	9176.4	8033.0	5470.0
62.5°	2419.0	2330.8	2904.0	4503.0	6316.5	7421.6	8723.7	9740.7	9764.2	8365.1	5493.5
65°	1469.6	1396.2	1784.1	3289.0	5661.0	7221.8	8729.6	10161.0	10181.6	8518.0	5352.4
67.5°	852.4	823.0	1019.9	2048.7	4573.5	6683.9	8362.2	10096.4	10134.6	8453.3	5032.0
70°	496.7	493.8	567.3	1014.0	3227.3	5616.9	7542.2	9552.6	9608.5	8115.3	4541.2
72.5°	364.5	370.3	399.7	543.8	1869.4	4044.4	6387.0	8459.2	8544.4	7454.0	3841.6
75°	288.0	291.0	317.4	370.3	981.7	2286.7	4785.1	6789.7	6857.3	6275.3	3001.0
77.5°	214.6	220.4	241.0	261.6	455.6	1049.3	2692.4	4182.6	4070.9	3444.8	1449.1
80°	155.8	170.5	179.3	188.1	241.0	405.6	808.3	1457.9	1446.1	1504.9	684.8
82.5°	99.9	111.7	120.5	126.4	144.0	194.0	241.0	326.3	352.7	584.9	273.4
85°	44.1	50.0	55.8	67.6	61.7	67.6	99.9	64.7	55.8	88.2	50.0
87.5°	0.0	0.0	8.8	14.7	11.8	5.9	17.6	11.8	8.8	8.8	8.8
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°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1872.3	1840.0	1772.4	1707.7	1669.5	1619.5	1575.4	1534.3	1531.4	1519.6	1499.0
5°	1895.8	1834.1	1707.7	1587.2	1496.1	1399.1	1316.8	1252.1	1228.6	1211.0	1187.5
7.5°	1919.3	1822.3	1634.2	1457.9	1313.9	1178.6	1081.6	993.5	967.0	943.5	928.8
10°	1928.2	1801.8	1549.0	1313.9	1125.7	981.7	878.8	814.2	790.7	778.9	770.1
12.5°	1954.6	1790.0	1469.6	1178.6	961.1	828.9	755.4	717.2	708.4	699.5	690.7
15°	1989.9	1790.0	1390.3	1046.4	831.8	726.0	681.9	655.5	649.6	646.6	640.8
17.5°	2028.1	1790.0	1313.9	934.7	737.8	658.4	626.1	611.4	608.4	605.5	602.5
20°	2081.0	1793.0	1231.6	837.7	670.2	608.4	582.0	564.3	561.4	558.5	558.5
22.5°	2133.9	1798.8	1152.2	764.2	626.1	570.2	537.9	520.2	514.4	514.4	514.4
25°	2201.5	1816.5	1078.7	702.5	587.9	534.9	493.8	479.1	476.2	476.2	473.2
27.5°	2280.9	1837.0	1014.0	655.5	549.6	493.8	452.6	438.0	432.1	432.1	429.1
30°	2366.1	1857.6	961.1	620.2	511.4	452.6	414.4	396.8	390.9	393.9	390.9
32.5°	2460.2	1887.0	920.0	596.7	476.2	417.4	382.1	361.5	358.6	358.6	355.7
35°	2618.9	1969.3	914.1	584.9	446.8	390.9	355.7	335.1	332.1	332.1	329.2
37.5°	2789.4	2063.4	940.6	579.0	423.3	367.4	335.1	314.5	311.6	311.6	311.6
40°	2933.4	2133.9	970.0	579.0	408.6	346.8	317.4	299.8	299.8	299.8	299.8
42.5°	3030.4	2139.8	964.1	579.0	396.8	332.1	305.7	288.0	288.0	291.0	288.0
45°	3174.4	2169.2	940.6	570.2	388.0	320.4	293.9	279.2	276.3	279.2	279.2
47.5°	3344.9	2222.1	917.1	534.9	385.0	308.6	285.1	267.5	264.5	267.5	264.5
50°	3506.5	2269.1	905.3	487.9	379.2	296.9	273.4	255.7	252.8	255.7	252.8
52.5°	3641.7	2289.7	884.7	455.6	364.5	285.1	261.6	244.0	238.1	241.0	241.0
55°	3750.5	2283.8	855.3	429.1	338.0	273.4	246.9	232.2	223.4	223.4	220.4
57.5°	3850.4	2286.7	828.9	402.7	308.6	255.7	235.1	217.5	205.7	202.8	199.9
60°	3888.6	2272.1	781.8	367.4	279.2	241.0	220.4	199.9	188.1	185.2	182.2
62.5°	3835.7	2219.1	720.1	305.7	252.8	223.4	205.7	185.2	173.4	170.5	167.5
65°	3685.8	2119.2	626.1	241.0	229.3	202.8	188.1	173.4	158.7	152.8	149.9
67.5°	3430.1	1975.2	508.5	194.0	202.8	185.2	176.4	158.7	141.1	135.2	132.3
70°	3065.7	1784.1	382.1	164.6	179.3	164.6	158.7	141.1	126.4	120.5	117.6
72.5°	2554.2	1475.5	267.5	141.1	155.8	144.0	138.1	126.4	111.7	102.9	102.9
75°	1931.1	1058.1	176.4	120.5	129.3	123.4	114.6	105.8	97.0	91.1	88.2
77.5°	831.8	411.5	108.8	91.1	105.8	102.9	91.1	85.2	82.3	76.4	76.4
80°	358.6	167.5	67.6	67.6	76.4	73.5	70.5	64.7	64.7	61.7	58.8
82.5°	132.3	67.6	41.1	50.0	55.8	50.0	50.0	50.0	50.0	47.0	47.0
85°	32.3	20.6	20.6	29.4	32.3	29.4	32.3	29.4	29.4	29.4	26.5
87.5°	8.8	8.8	11.8	11.8	11.8	11.8	11.8	8.8	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)