

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: P836184

Luminaire Tested: **ARCH3-150-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836184
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: ARCH3-150-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 14679 lumens
Efficiency: N/A
Efficacy: 97.4 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

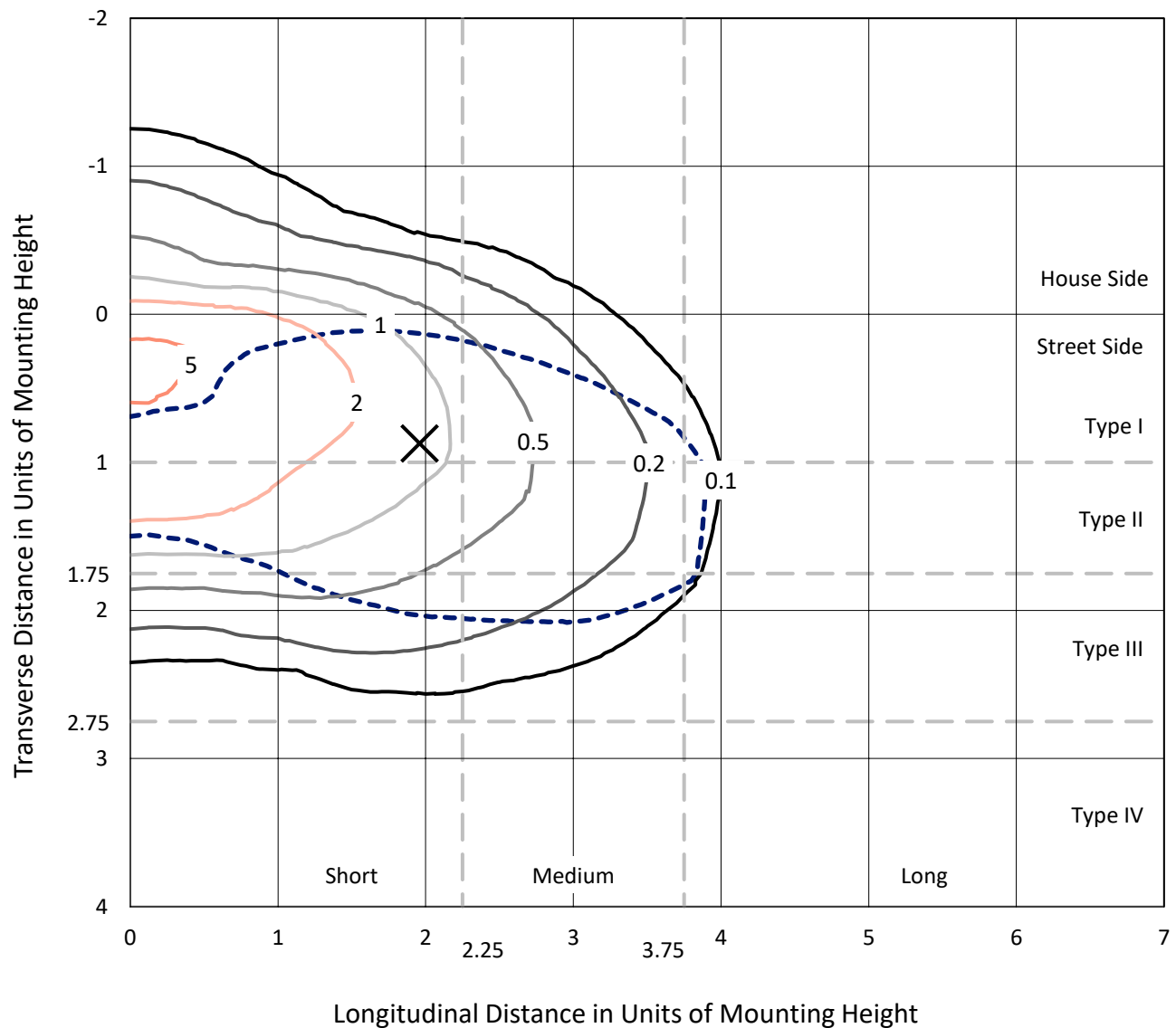


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Iso-Footcandle Lines of Horizontal Illumination

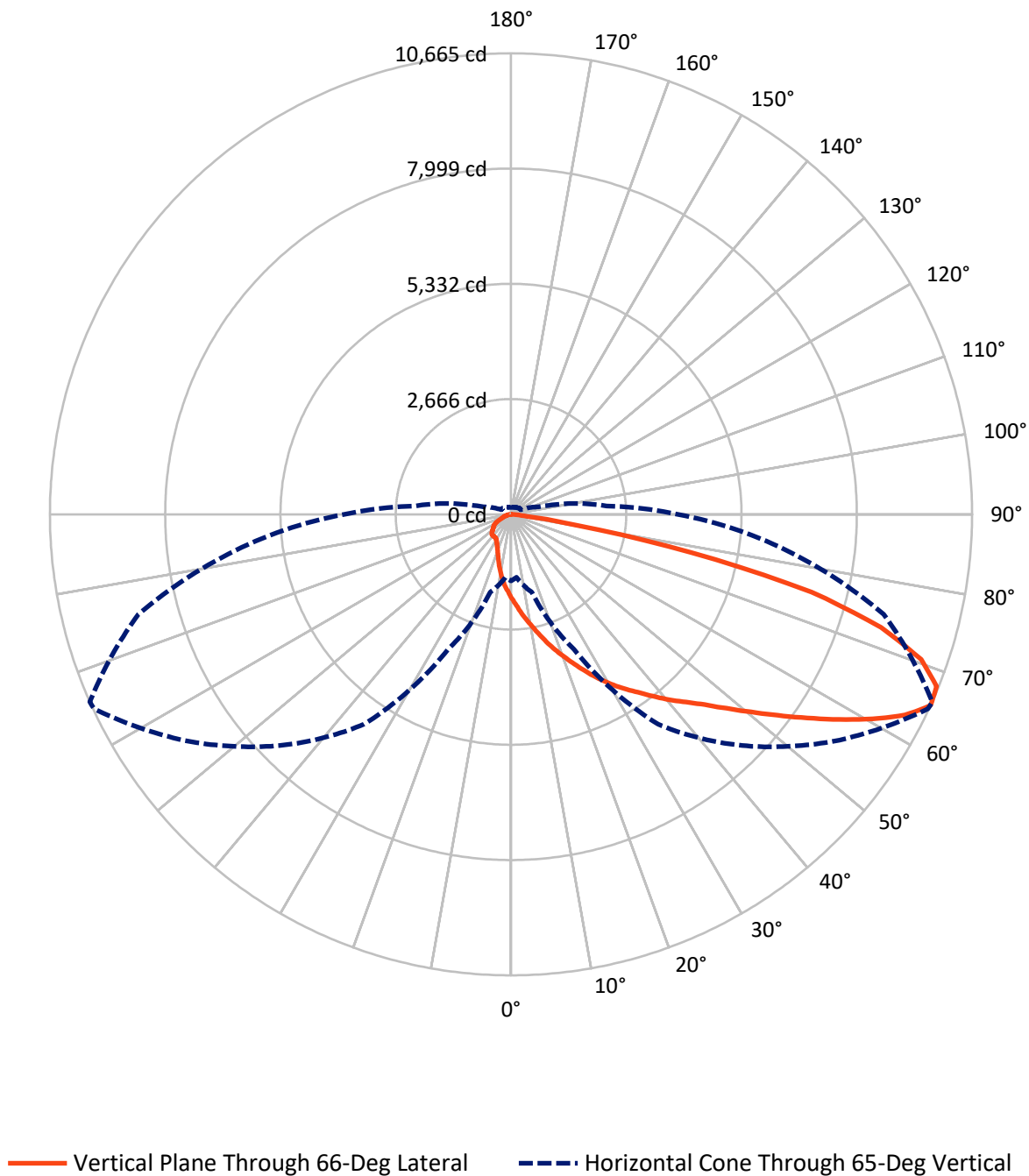
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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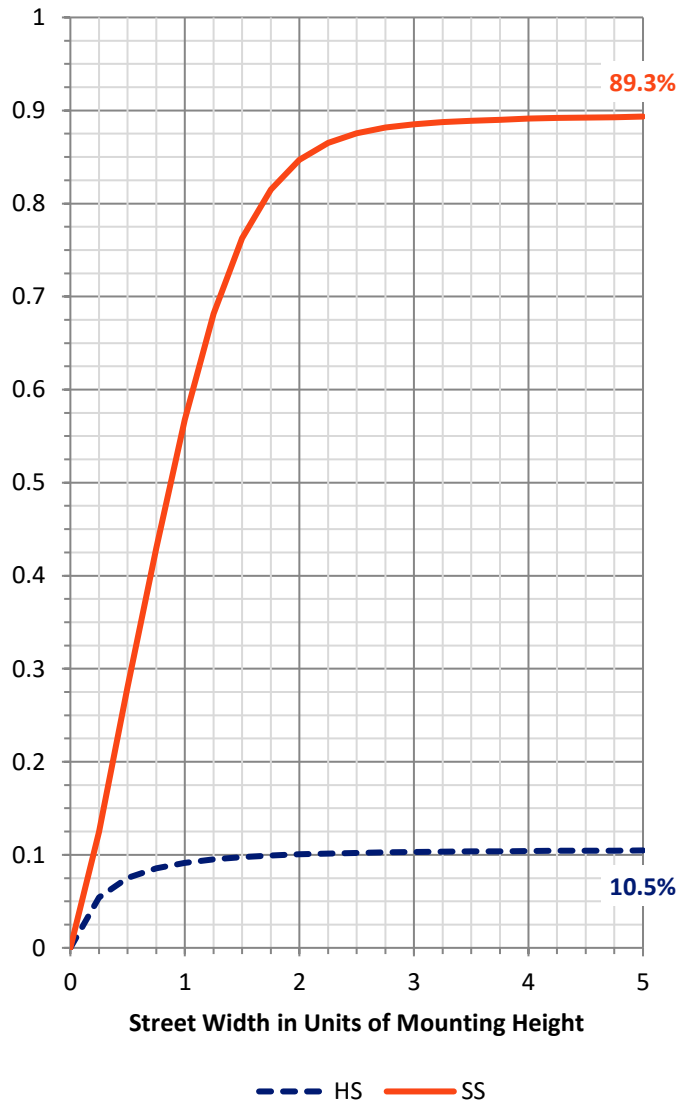
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1552.6	0.0	1552.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	13126.4	0.0	13126.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	14679.0	0.0	14679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	1.3
10°-20°	624.9	4.3
20°-30°	1130.7	7.7
30°-40°	1768.1	12.0
40°-50°	2682.3	18.3
50°-60°	3407.9	23.2
60°-70°	3184.3	21.7
70°-80°	1582.6	10.8
80°-90°	106.3	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°	14679.0	100.0
0°-180°	14679.0	100.0

Coefficient of Utilization



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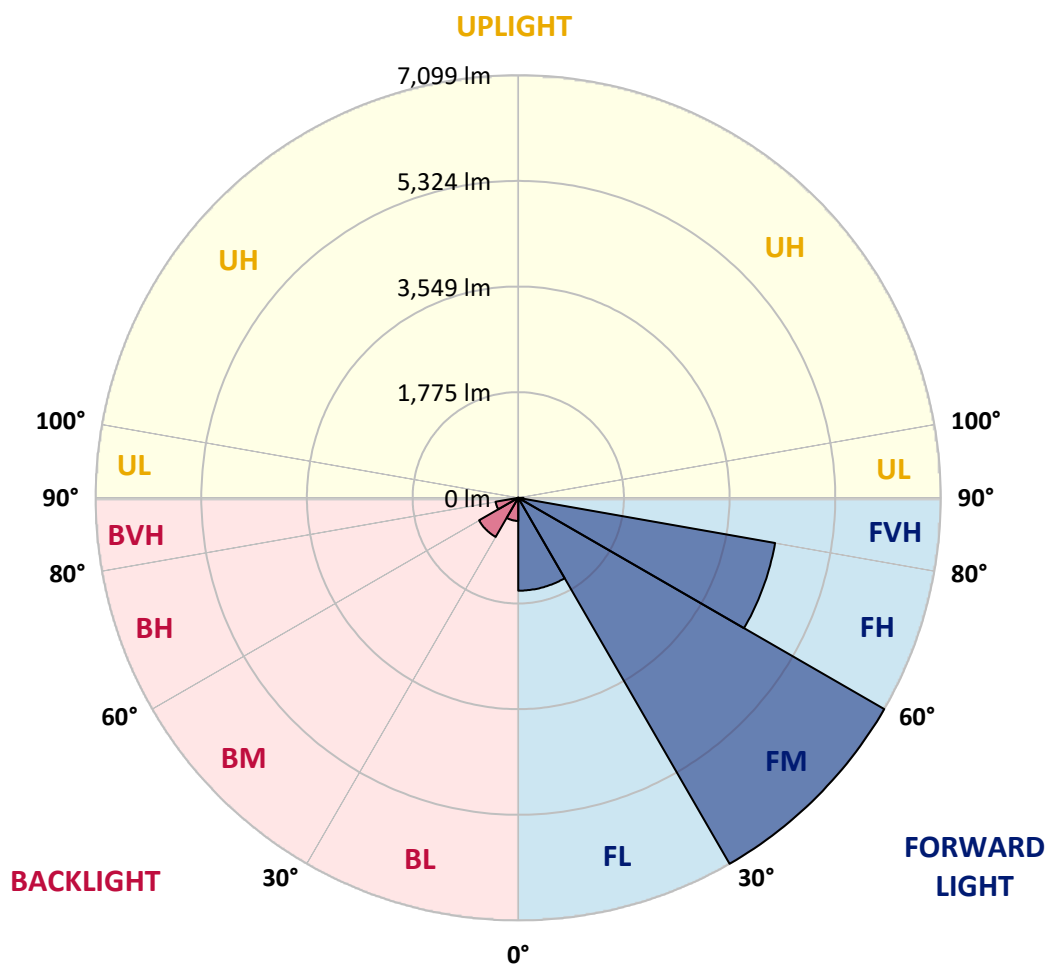
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1559.6	10.6			
FM	(30°-60°)	7098.9	48.4			
FH	(60°-80°)	4380.3	29.8			G2/5000
FVH	(80°-90°)	87.5	0.6			G1/100
BL	(0°-30°)	387.8	2.6	B1/500		
BM	(30°-60°)	759.4	5.2	B1/1000		
BH	(60°-80°)	386.7	2.6	B1/500		G1/500
BVH	(80°-90°)	18.8	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°	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7
2.5°	2269.0	2287.5	2296.7	2299.8	2229.0	2198.2	2167.4	2096.6	2081.2	2041.2	1988.9
5°	2669.3	2693.9	2687.7	2675.4	2589.2	2490.7	2410.7	2278.3	2256.7	2161.3	2044.3
7.5°	3063.3	3084.9	3078.7	3032.6	2937.1	2798.6	2666.2	2472.2	2441.4	2287.5	2099.7
10°	3392.8	3411.2	3408.2	3362.0	3248.1	3078.7	2918.6	2660.0	2623.1	2404.5	2145.9
12.5°	3663.7	3688.3	3685.3	3654.5	3552.9	3368.1	3186.5	2875.5	2829.4	2546.1	2210.5
15°	3876.1	3906.9	3906.9	3894.6	3823.8	3669.9	3463.6	3112.6	3057.2	2709.3	2290.6
17.5°	4005.4	4030.1	4051.6	4073.2	4023.9	3906.9	3719.1	3349.7	3291.2	2869.4	2373.7
20°	4073.2	4097.8	4113.2	4159.4	4168.6	4110.1	3962.3	3583.7	3522.1	3051.0	2469.1
22.5°	4184.0	4205.6	4208.6	4248.7	4267.1	4282.5	4190.2	3814.6	3765.3	3251.1	2576.9
25°	4368.7	4393.4	4384.1	4402.6	4405.7	4424.1	4414.9	4079.3	4030.1	3479.0	2706.2
27.5°	4605.8	4636.6	4630.4	4612.0	4584.2	4568.9	4608.9	4347.2	4301.0	3706.8	2838.6
30°	4861.3	4898.3	4889.0	4852.1	4778.2	4713.6	4769.0	4599.6	4556.5	3940.8	2986.4
32.5°	5119.9	5163.0	5160.0	5098.4	4972.2	4861.3	4944.5	4836.7	4805.9	4193.2	3146.5
35°	5289.3	5344.7	5338.5	5301.6	5138.4	5043.0	5144.6	5079.9	5058.4	4501.1	3377.4
37.5°	5563.3	5621.8	5569.4	5477.1	5289.3	5240.0	5363.2	5353.9	5338.5	4827.5	3620.6
40°	6228.3	6314.5	6176.0	5797.3	5489.4	5446.3	5621.8	5658.7	5643.3	5150.7	3839.2
42.5°	6924.1	7053.4	6837.9	6314.5	5852.7	5695.7	5905.0	5957.4	5938.9	5427.8	4036.2
45°	7345.9	7401.3	7185.8	6779.4	6496.1	5997.4	6206.7	6292.9	6277.6	5760.3	4288.7
47.5°	7690.7	7669.1	7422.8	7148.8	7201.2	6422.3	6548.5	6717.8	6705.5	6126.7	4565.8
50°	7764.6	7715.3	7616.8	7444.4	7582.9	6853.3	6908.7	7201.2	7188.9	6533.1	4845.9
52.5°	7244.3	7179.6	7447.5	7592.2	7546.0	7167.3	7305.9	7730.7	7724.6	6973.3	5113.8
55°	5945.0	5892.7	6613.1	7361.3	7506.0	7389.0	7746.1	8281.8	8315.7	7441.3	5357.0
57.5°	4676.6	4621.2	5329.3	6782.5	7358.2	7592.2	8260.3	8913.0	8956.1	7949.3	5587.9
60°	3728.4	3645.2	4187.1	5871.2	7081.1	7749.2	8755.9	9605.7	9611.8	8414.2	5729.5
62.5°	2533.8	2441.4	3041.8	4716.6	6616.2	7773.8	9137.7	10202.9	10227.6	8762.1	5754.2
65°	1539.4	1462.4	1868.8	3445.1	5929.7	7564.5	9143.9	10643.2	10664.8	8922.2	5606.4
67.5°	892.8	862.0	1068.3	2145.9	4790.5	7001.1	8759.0	10575.5	10615.5	8854.5	5270.8
70°	520.3	517.2	594.2	1062.2	3380.5	5883.5	7900.0	10005.9	10064.4	8500.4	4756.7
72.5°	381.8	387.9	418.7	569.6	1958.1	4236.3	6690.1	8860.6	8949.9	7807.7	4023.9
75°	301.7	304.8	332.5	387.9	1028.3	2395.3	5012.2	7111.9	7182.7	6573.1	3143.4
77.5°	224.7	230.9	252.5	274.0	477.2	1099.1	2820.1	4381.0	4264.1	3608.3	1517.8
80°	163.2	178.6	187.8	197.0	252.5	424.9	846.7	1527.1	1514.7	1576.3	717.3
82.5°	104.7	117.0	126.2	132.4	150.9	203.2	252.5	341.7	369.4	612.7	286.3
85°	46.2	52.3	58.5	70.8	64.7	70.8	104.7	67.7	58.5	92.4	52.3
87.5°	0.0	0.0	9.2	15.4	12.3	6.2	18.5	12.3	9.2	9.2	9.2
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°	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7	1942.7
2.5°	1961.2	1927.3	1856.5	1788.7	1748.7	1696.4	1650.2	1607.1	1604.0	1591.7	1570.2
5°	1985.8	1921.1	1788.7	1662.5	1567.1	1465.5	1379.3	1311.5	1286.9	1268.4	1243.8
7.5°	2010.4	1908.8	1711.8	1527.1	1376.2	1234.6	1133.0	1040.6	1012.9	988.3	972.9
10°	2019.7	1887.3	1622.5	1376.2	1179.2	1028.3	920.5	852.8	828.2	815.9	806.6
12.5°	2047.4	1875.0	1539.4	1234.6	1006.7	868.2	791.2	751.2	742.0	732.7	723.5
15°	2084.3	1875.0	1456.2	1096.0	871.3	760.4	714.3	686.6	680.4	677.3	671.2
17.5°	2124.3	1875.0	1376.2	979.0	772.8	689.6	655.8	640.4	637.3	634.2	631.1
20°	2179.7	1878.0	1290.0	877.4	702.0	637.3	609.6	591.1	588.0	585.0	585.0
22.5°	2235.2	1884.2	1206.9	800.5	655.8	597.3	563.4	544.9	538.8	538.8	538.8
25°	2306.0	1902.7	1129.9	735.8	615.7	560.3	517.2	501.8	498.8	498.8	495.7
27.5°	2389.1	1924.2	1062.2	686.6	575.7	517.2	474.1	458.7	452.6	452.6	449.5
30°	2478.4	1945.8	1006.7	649.6	535.7	474.1	434.1	415.6	409.5	412.6	409.5
32.5°	2576.9	1976.6	963.6	625.0	498.8	437.2	400.2	378.7	375.6	375.6	372.5
35°	2743.2	2062.8	957.5	612.7	468.0	409.5	372.5	351.0	347.9	347.9	344.8
37.5°	2921.7	2161.3	985.2	606.5	443.3	384.8	351.0	329.4	326.3	326.3	326.3
40°	3072.6	2235.2	1016.0	606.5	427.9	363.3	332.5	314.0	314.0	314.0	314.0
42.5°	3174.2	2241.3	1009.8	606.5	415.6	347.9	320.2	301.7	301.7	304.8	301.7
45°	3325.0	2272.1	985.2	597.3	406.4	335.6	307.9	292.5	289.4	292.5	292.5
47.5°	3503.6	2327.5	960.6	560.3	403.3	323.3	298.6	280.2	277.1	280.2	277.1
50°	3672.9	2376.8	948.3	511.1	397.2	311.0	286.3	267.9	264.8	267.9	264.8
52.5°	3814.6	2398.3	926.7	477.2	381.8	298.6	274.0	255.5	249.4	252.5	252.5
55°	3928.5	2392.2	895.9	449.5	354.1	286.3	258.6	243.2	234.0	234.0	230.9
57.5°	4033.1	2395.3	868.2	421.8	323.3	267.9	246.3	227.8	215.5	212.4	209.4
60°	4073.2	2379.9	818.9	384.8	292.5	252.5	230.9	209.4	197.0	194.0	190.9
62.5°	4017.8	2324.4	754.3	320.2	264.8	234.0	215.5	194.0	181.6	178.6	175.5
65°	3860.7	2219.8	655.8	252.5	240.1	212.4	197.0	181.6	166.3	160.1	157.0
67.5°	3592.9	2068.9	532.6	203.2	212.4	194.0	184.7	166.3	147.8	141.6	138.5
70°	3211.1	1868.8	400.2	172.4	187.8	172.4	166.3	147.8	132.4	126.2	123.1
72.5°	2675.4	1545.5	280.2	147.8	163.2	150.9	144.7	132.4	117.0	107.8	107.8
75°	2022.7	1108.3	184.7	126.2	135.5	129.3	120.1	110.8	101.6	95.4	92.4
77.5°	871.3	431.0	113.9	95.4	110.8	107.8	95.4	89.3	86.2	80.0	80.0
80°	375.6	175.5	70.8	70.8	80.0	77.0	73.9	67.7	67.7	64.7	61.6
82.5°	138.5	70.8	43.1	52.3	58.5	52.3	52.3	52.3	52.3	49.3	49.3
85°	33.9	21.6	21.6	30.8	33.9	30.8	33.9	30.8	30.8	30.8	27.7
87.5°	9.2	9.2	12.3	12.3	12.3	12.3	12.3	9.2	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)