

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: P836063

Luminaire Tested: **ARCH3-130-750-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836063
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: ARCH3-130-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1035mA 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: 14310 lumens
Efficiency: N/A
Efficacy: 107.9 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): 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

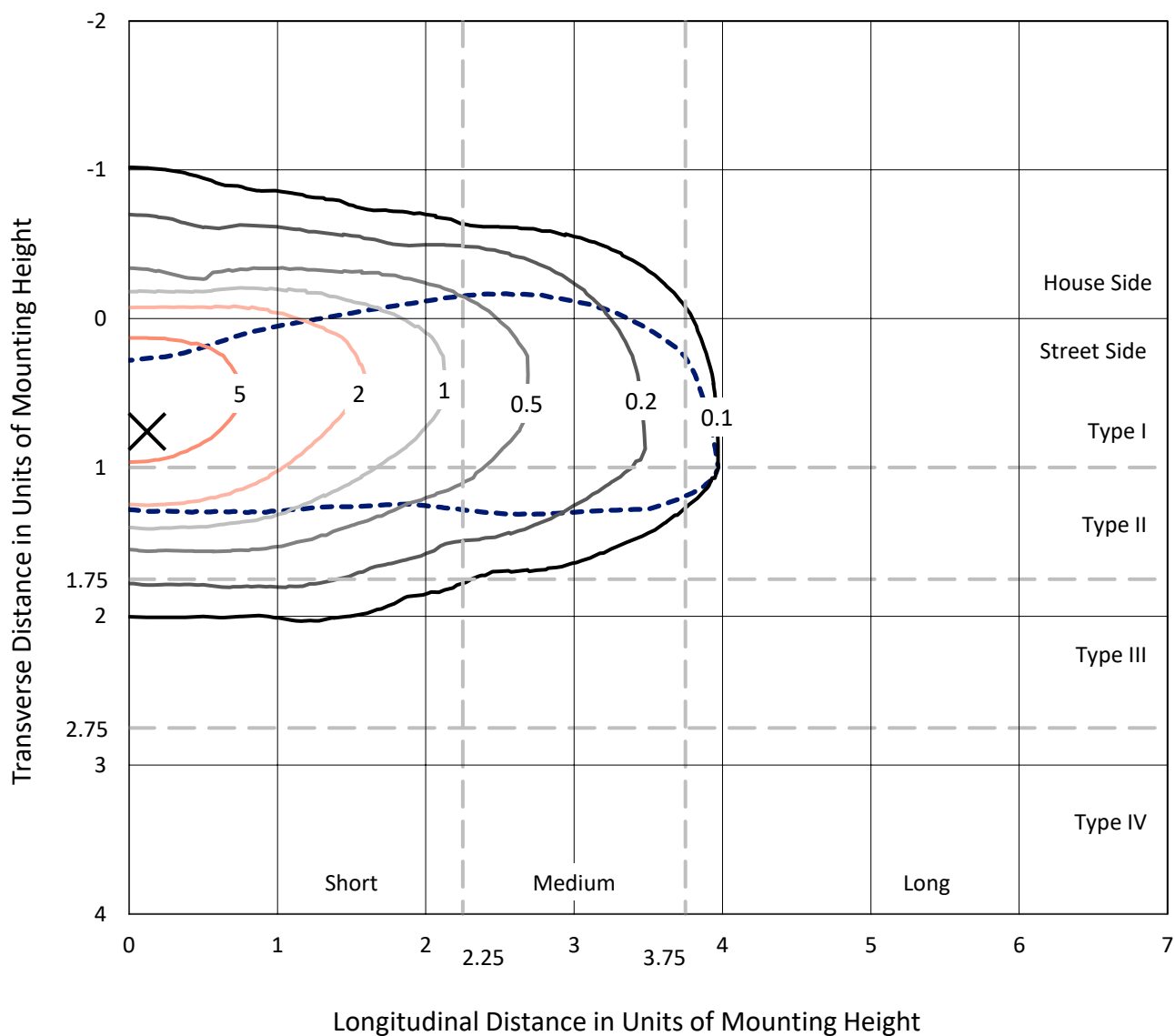


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Iso-Footcandle Lines of Horizontal Illumination

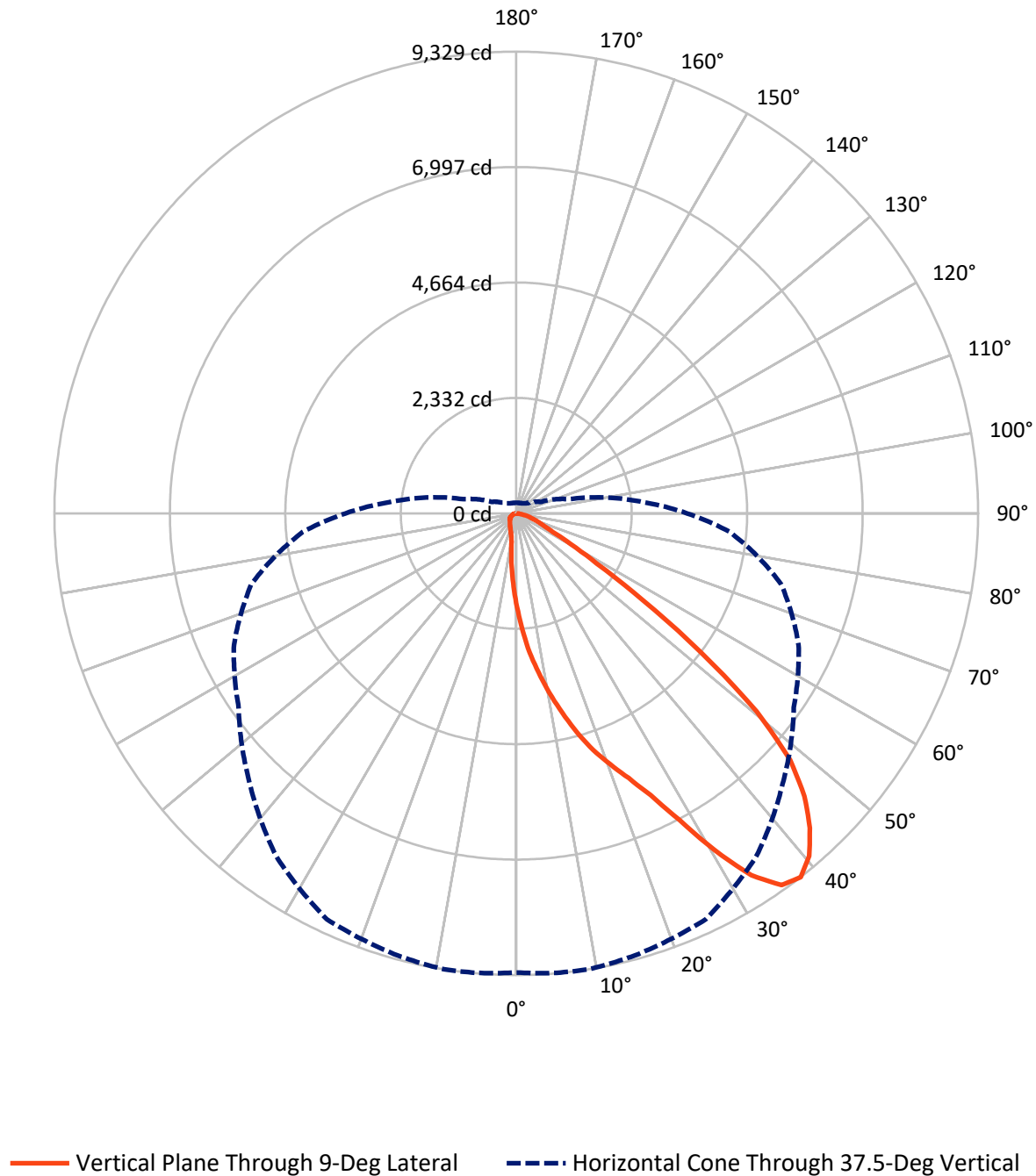
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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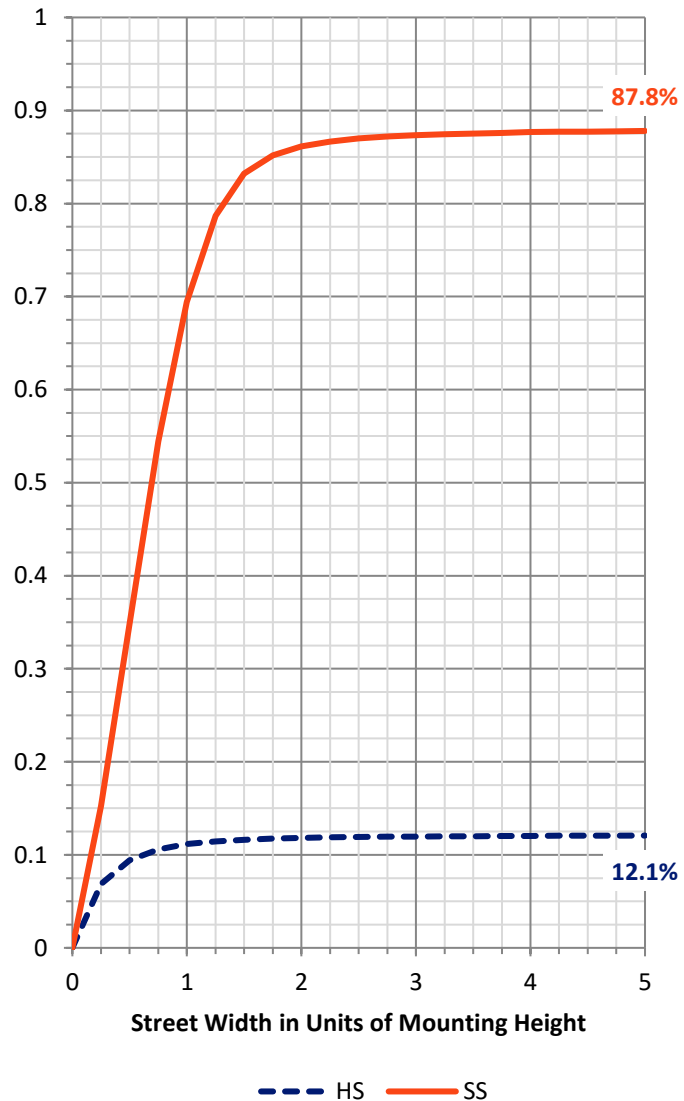
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1740.4	0.0	1740.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12569.7	0.0	12569.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	14310.0	0.0	14310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	1.3
10°-20°	660.9	4.6
20°-30°	1357.9	9.5
30°-40°	2400.2	16.8
40°-50°	3188.4	22.3
50°-60°	3024.0	21.1
60°-70°	2307.1	16.1
70°-80°	1118.5	7.8
80°-90°	63.0	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°	14310.0	100.0
0°-180°	14310.0	100.0

Coefficient of Utilization



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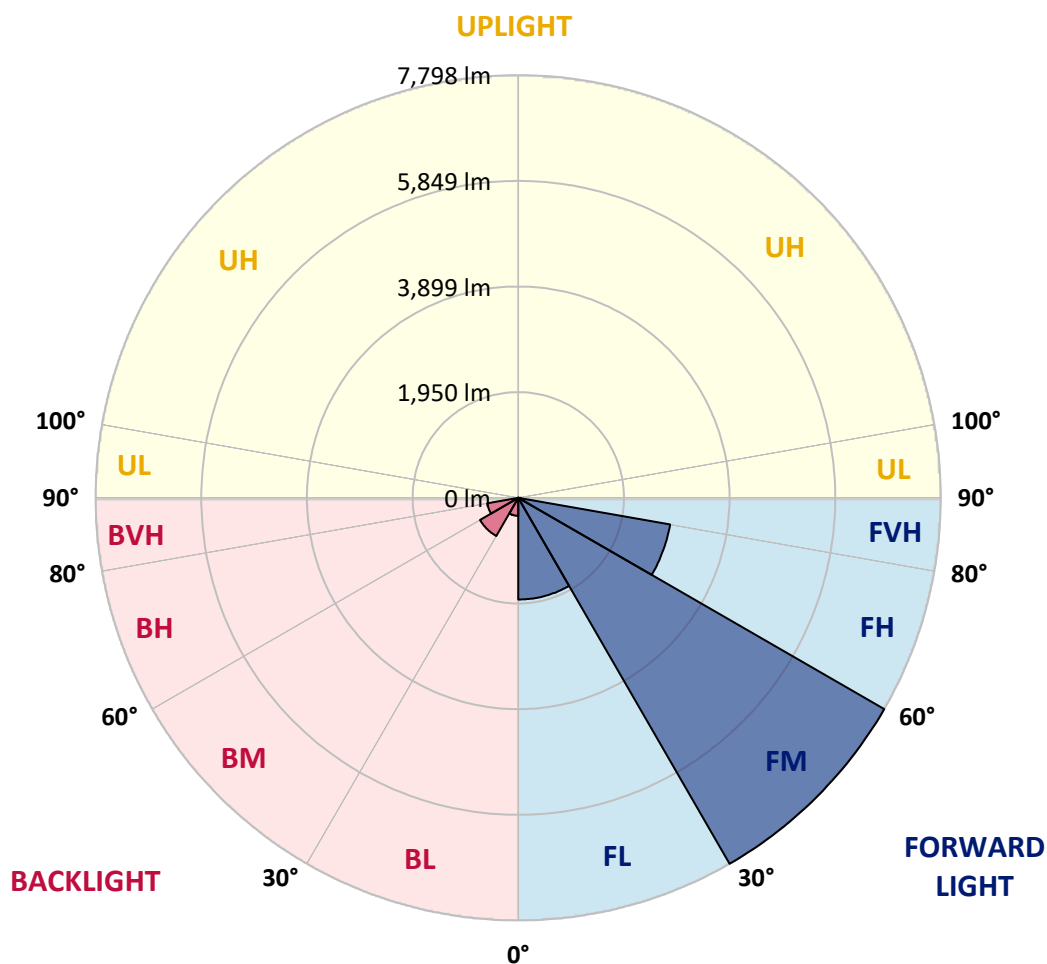
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1876.8	13.1			
FM	(30°-60°)	7798.3	54.5			
FH	(60°-80°)	2844.8	19.9			G2/5000
FVH	(80°-90°)	49.8	0.3			G1/100
BL	(0°-30°)	332.1	2.3	B1/500		
BM	(30°-60°)	814.4	5.7	B1/1000		
BH	(60°-80°)	580.7	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.1	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°	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6
2.5°	2344.0	2302.8	2349.8	2344.0	2302.8	2276.4	2194.1	2167.7	2070.8	2000.3	1938.6
5°	2825.7	2784.5	2825.7	2813.9	2755.2	2690.5	2555.4	2467.3	2294.0	2141.3	2003.2
7.5°	3225.1	3225.1	3242.8	3245.7	3175.2	3075.3	2907.9	2775.7	2531.9	2297.0	2076.7
10°	3656.9	3659.9	3698.0	3671.6	3577.6	3442.5	3231.0	3063.6	2769.9	2461.4	2147.2
12.5°	4118.1	4121.0	4132.8	4121.0	4009.4	3836.1	3580.5	3360.2	3022.5	2649.4	2244.1
15°	4579.2	4582.2	4596.8	4576.3	4452.9	4250.2	3959.5	3689.2	3289.8	2860.9	2361.6
17.5°	5011.0	5016.9	5028.6	5002.2	4872.9	4632.1	4335.4	4009.4	3574.7	3087.1	2493.8
20°	5398.7	5404.6	5413.4	5378.2	5248.9	5008.1	4687.9	4347.2	3865.5	3319.1	2637.7
22.5°	5789.4	5795.3	5809.9	5762.9	5619.0	5342.9	5028.6	4676.2	4173.9	3574.7	2805.1
25°	6288.7	6294.6	6306.3	6238.8	6042.0	5718.9	5387.0	5025.7	4508.7	3862.5	3010.7
27.5°	7020.1	7014.2	7014.2	6890.9	6553.1	6133.0	5748.3	5381.1	4870.0	4170.9	3236.9
30°	7924.8	7910.1	7901.3	7733.9	7252.1	6600.1	6118.4	5713.0	5216.6	4497.0	3480.7
32.5°	8735.5	8735.5	8717.8	8541.6	8030.5	7228.6	6512.0	6036.1	5551.5	4826.0	3733.3
35°	9214.2	9234.8	9226.0	9093.8	8720.8	7904.2	7043.6	6423.8	5903.9	5169.6	4035.8
37.5°	9278.9	9320.0	9328.8	9249.5	9052.7	8456.4	7634.0	6843.9	6291.7	5539.7	4329.6
40°	9017.5	9105.6	9105.6	9093.8	9023.3	8717.8	8130.4	7331.5	6691.1	5924.5	4626.2
42.5°	8615.0	8706.1	8694.4	8738.4	8720.8	8656.2	8409.4	7786.7	7090.6	6321.0	4896.4
45°	8089.3	8183.3	8159.8	8239.1	8274.3	8344.8	8380.1	8104.0	7484.2	6752.8	5199.0
47.5°	7246.3	7404.9	7440.1	7581.1	7728.0	7948.3	8115.7	8218.5	7851.4	7216.9	5528.0
50°	6000.9	6224.1	6294.6	6591.3	6993.7	7448.9	7719.2	8077.5	8109.8	7692.7	5883.4
52.5°	4297.2	4555.7	4664.4	5152.0	5980.3	6773.4	7261.0	7766.2	8209.7	8148.0	6268.2
55°	2778.7	2999.0	3104.7	3562.9	4664.4	5909.8	6720.5	7363.8	8153.9	8565.1	6708.7
57.5°	1712.4	1838.7	1909.2	2302.8	3316.2	4802.5	6012.6	6993.7	7983.5	8926.4	7167.0
60°	1154.4	1227.8	1263.0	1448.1	2252.9	3589.4	5040.4	6605.9	7760.3	9170.2	7584.1
62.5°	766.6	790.1	825.4	939.9	1486.3	2520.2	3871.3	5912.7	7592.9	9184.9	7892.5
65°	593.3	605.1	619.8	669.7	916.4	1762.4	2722.9	4790.7	7343.2	8873.5	7989.4
67.5°	467.0	478.8	496.4	522.8	663.8	1195.5	1853.4	3510.1	6832.1	8385.9	7830.8
70°	367.2	376.0	387.7	411.2	517.0	866.5	1224.8	2332.2	5801.1	7921.8	7331.5
72.5°	290.8	299.6	311.4	334.9	420.0	634.5	840.1	1454.0	4473.5	7355.0	6371.0
75°	229.1	235.0	243.8	267.3	337.8	493.5	569.8	869.4	3040.1	6318.1	4964.0
77.5°	114.6	141.0	161.6	185.0	246.7	340.7	378.9	481.7	1283.6	3242.8	2367.4
80°	67.6	82.2	88.1	102.8	161.6	205.6	205.6	193.9	405.3	1245.4	966.4
82.5°	38.2	52.9	55.8	58.7	96.9	117.5	94.0	70.5	82.2	417.1	282.0
85°	11.7	17.6	20.6	23.5	32.3	35.2	32.3	29.4	23.5	41.1	26.4
87.5°	0.0	0.0	0.0	0.0	2.9	5.9	5.9	5.9	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°	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6	1891.6
2.5°	1903.4	1865.2	1791.7	1724.2	1659.6	1612.6	1568.5	1527.4	1498.0	1474.5	1471.6
5°	1929.8	1853.4	1712.4	1580.3	1459.8	1360.0	1274.8	1207.2	1157.3	1122.0	1119.1
7.5°	1965.0	1847.5	1633.1	1436.3	1257.2	1113.2	989.9	898.8	834.2	807.8	787.2
10°	1994.4	1841.7	1553.8	1292.4	1057.4	875.3	728.4	637.4	590.4	572.8	564.0
12.5°	2044.3	1847.5	1486.3	1160.2	884.1	669.7	558.1	508.1	487.6	472.9	470.0
15°	2117.8	1874.0	1421.6	1031.0	707.9	540.5	475.8	443.5	423.0	420.0	417.1
17.5°	2191.2	1897.5	1362.9	898.8	587.5	470.0	425.9	399.5	384.8	381.8	381.8
20°	2276.4	1926.9	1298.3	772.5	502.3	423.0	387.7	367.2	349.5	346.6	346.6
22.5°	2376.3	1968.0	1236.6	660.9	446.5	387.7	358.3	334.9	320.2	317.2	317.2
25°	2511.4	2029.7	1186.7	578.6	408.3	358.3	331.9	311.4	299.6	293.7	293.7
27.5°	2661.2	2114.8	1151.4	528.7	381.8	334.9	308.4	290.8	279.0	273.2	273.2
30°	2828.6	2208.8	1127.9	508.1	367.2	314.3	290.8	273.2	258.5	255.5	255.5
32.5°	3013.7	2317.5	1113.2	511.1	364.2	299.6	273.2	255.5	243.8	237.9	237.9
35°	3219.3	2437.9	1104.4	528.7	370.1	287.9	258.5	240.9	229.1	223.2	223.2
37.5°	3448.4	2578.9	1104.4	546.3	384.8	284.9	243.8	226.2	217.4	211.5	211.5
40°	3662.8	2728.7	1116.2	566.9	399.5	284.9	232.0	217.4	205.6	199.7	199.7
42.5°	3830.2	2813.9	1125.0	587.5	408.3	282.0	220.3	205.6	196.8	190.9	190.9
45°	4021.1	2905.0	1107.4	596.3	408.3	276.1	211.5	196.8	188.0	182.1	182.1
47.5°	4232.6	3016.6	1104.4	602.1	399.5	264.4	202.7	188.0	182.1	176.2	176.2
50°	4447.0	3140.0	1110.3	599.2	387.7	246.7	190.9	182.1	173.3	167.4	167.4
52.5°	4690.8	3269.2	1122.0	593.3	361.3	226.2	182.1	173.3	164.5	158.6	155.7
55°	4961.1	3410.2	1145.5	581.6	326.0	205.6	173.3	164.5	152.7	146.9	143.9
57.5°	5272.4	3583.5	1172.0	558.1	287.9	188.0	164.5	152.7	135.1	126.3	123.4
60°	5569.1	3780.3	1201.3	502.3	249.7	170.4	155.7	138.1	120.4	114.6	111.6
62.5°	5848.1	3974.1	1216.0	402.4	211.5	155.7	146.9	126.3	108.7	102.8	99.9
65°	6027.3	4185.6	1183.7	273.2	173.3	143.9	135.1	117.5	99.9	91.1	91.1
67.5°	6039.0	4285.5	1072.1	179.2	141.0	129.2	123.4	105.7	88.1	82.2	79.3
70°	5742.4	4135.7	819.5	141.0	117.5	111.6	111.6	94.0	76.4	70.5	67.6
72.5°	5060.9	3662.8	522.8	114.6	99.9	94.0	94.0	79.3	67.6	58.7	55.8
75°	3994.7	2825.7	279.0	94.0	82.2	79.3	73.4	64.6	55.8	49.9	47.0
77.5°	1835.8	1245.4	129.2	67.6	61.7	61.7	55.8	47.0	44.1	38.2	38.2
80°	725.5	423.0	64.6	44.1	41.1	41.1	41.1	32.3	32.3	26.4	23.5
82.5°	199.7	88.1	32.3	26.4	26.4	26.4	23.5	20.6	20.6	17.6	17.6
85°	20.6	14.7	14.7	14.7	14.7	11.7	11.7	8.8	5.9	5.9	5.9
87.5°	8.8	8.8	8.8	8.8	8.8	5.9	2.9	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)