

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: P835991

Luminaire Tested: **ARCH3-120-750-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835991
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: ARCH3-120-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 965mA 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: 13542 lumens
Efficiency: N/A
Efficacy: 110.4 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

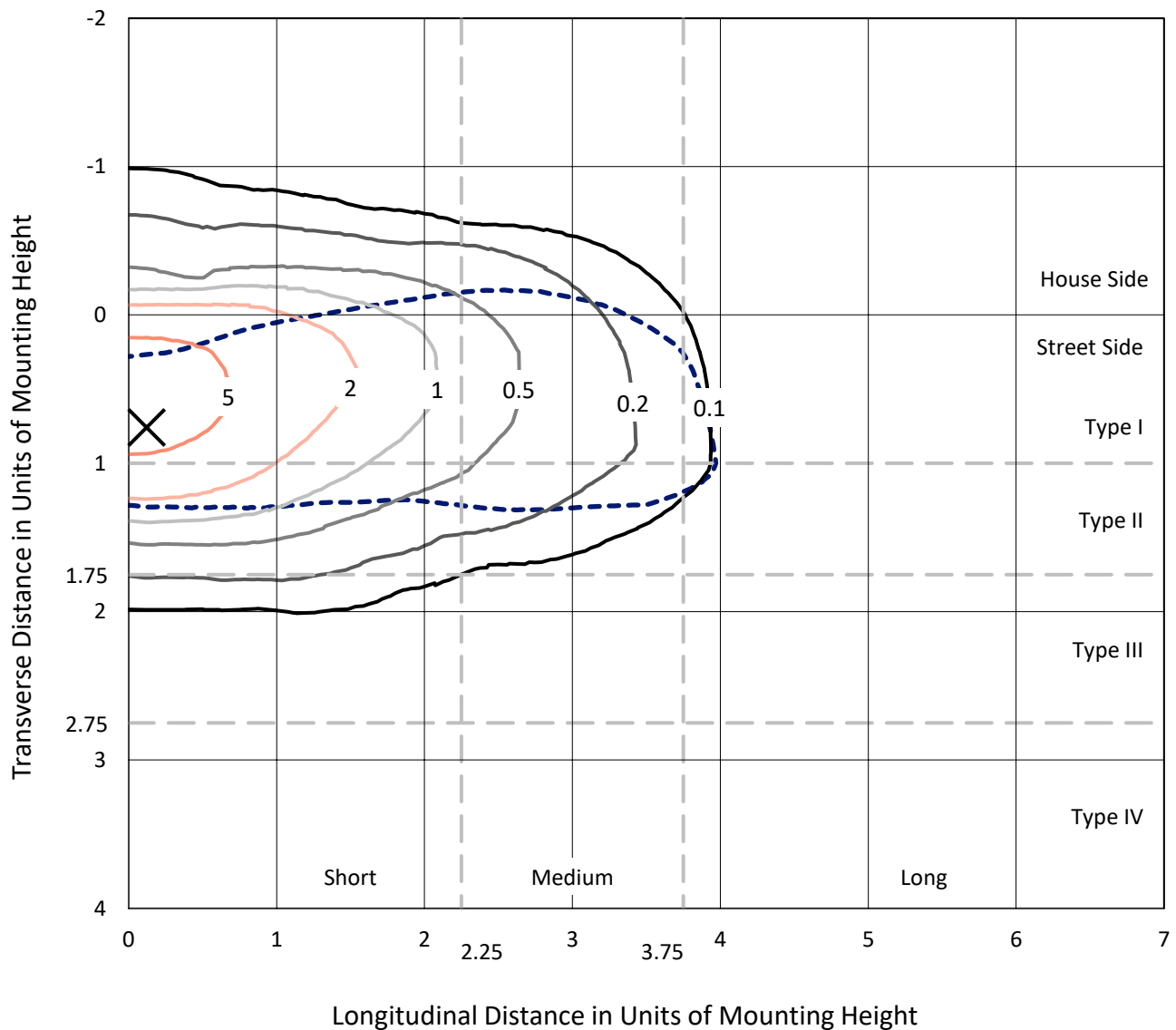
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

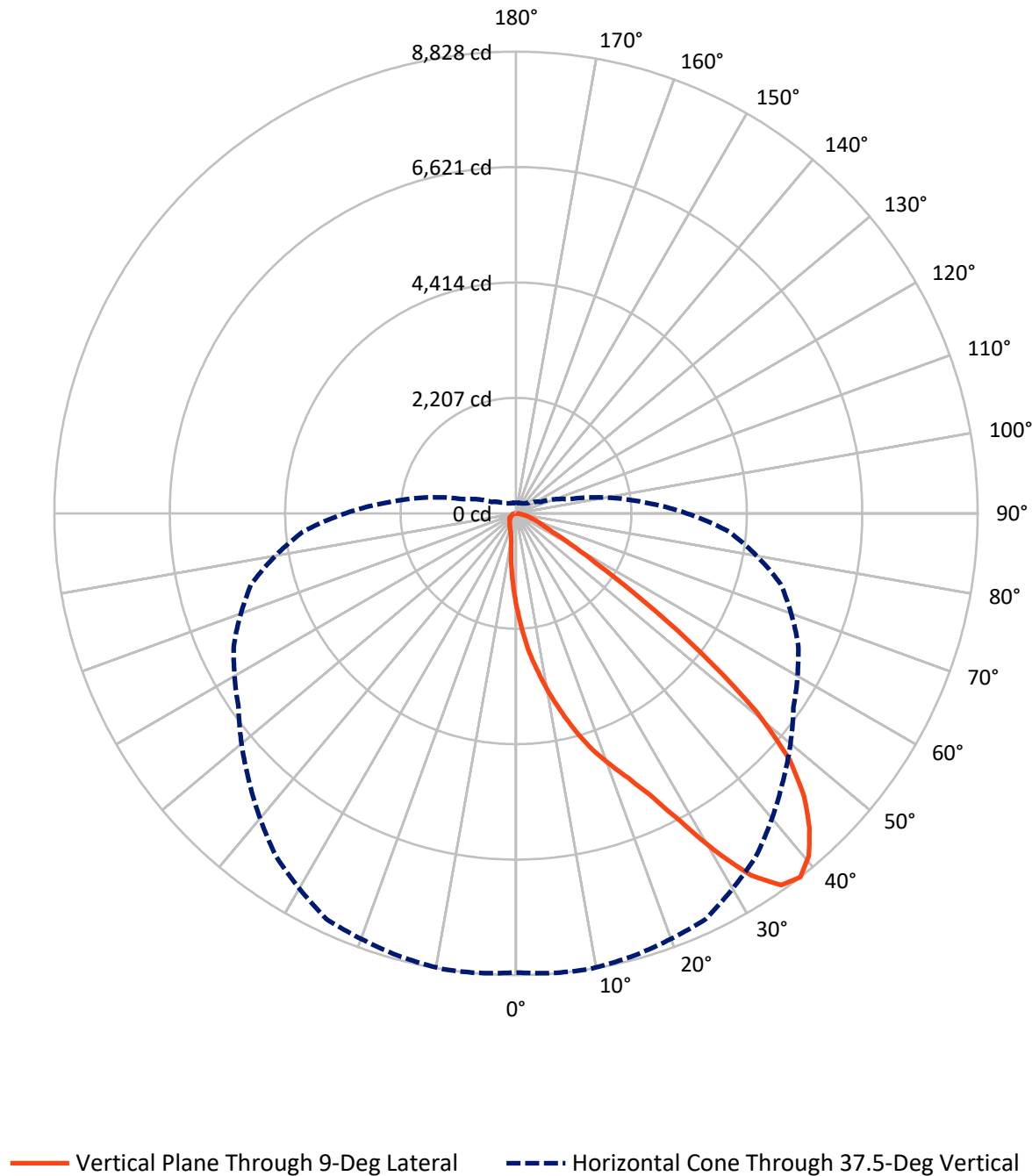
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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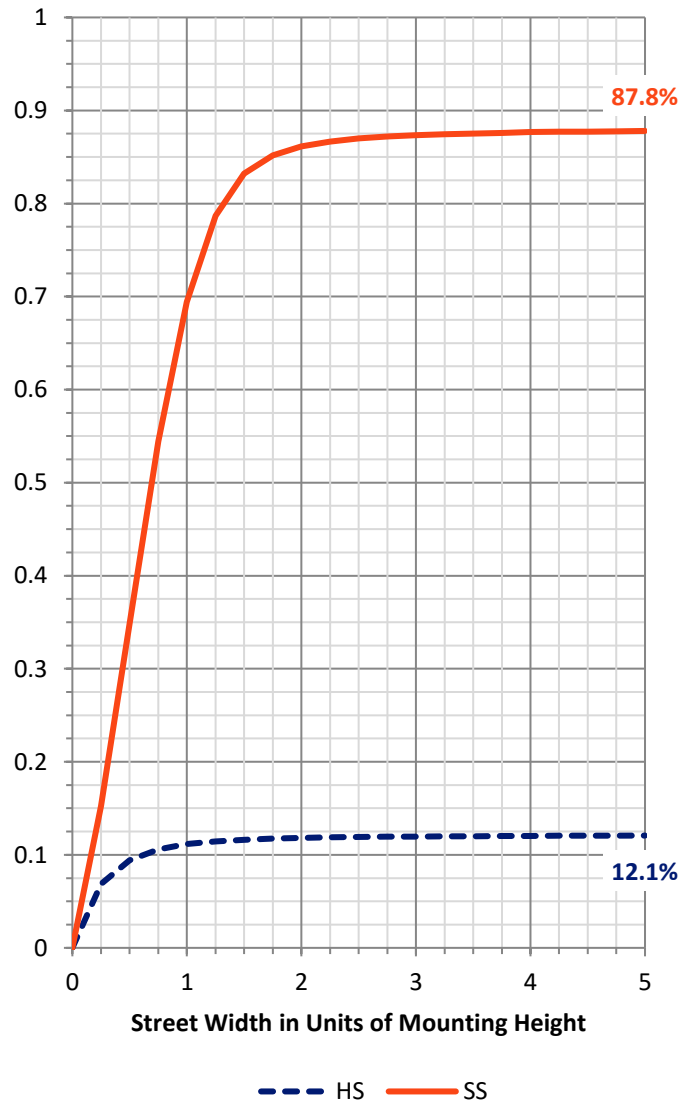
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1646.9	0.0	1646.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11895.1	0.0	11895.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	13542.0	0.0	13542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.3
10°-20°	625.4	4.6
20°-30°	1285.0	9.5
30°-40°	2271.4	16.8
40°-50°	3017.3	22.3
50°-60°	2861.7	21.1
60°-70°	2183.3	16.1
70°-80°	1058.4	7.8
80°-90°	59.6	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°	13542.0	100.0
0°-180°	13542.0	100.0

Coefficient of Utilization



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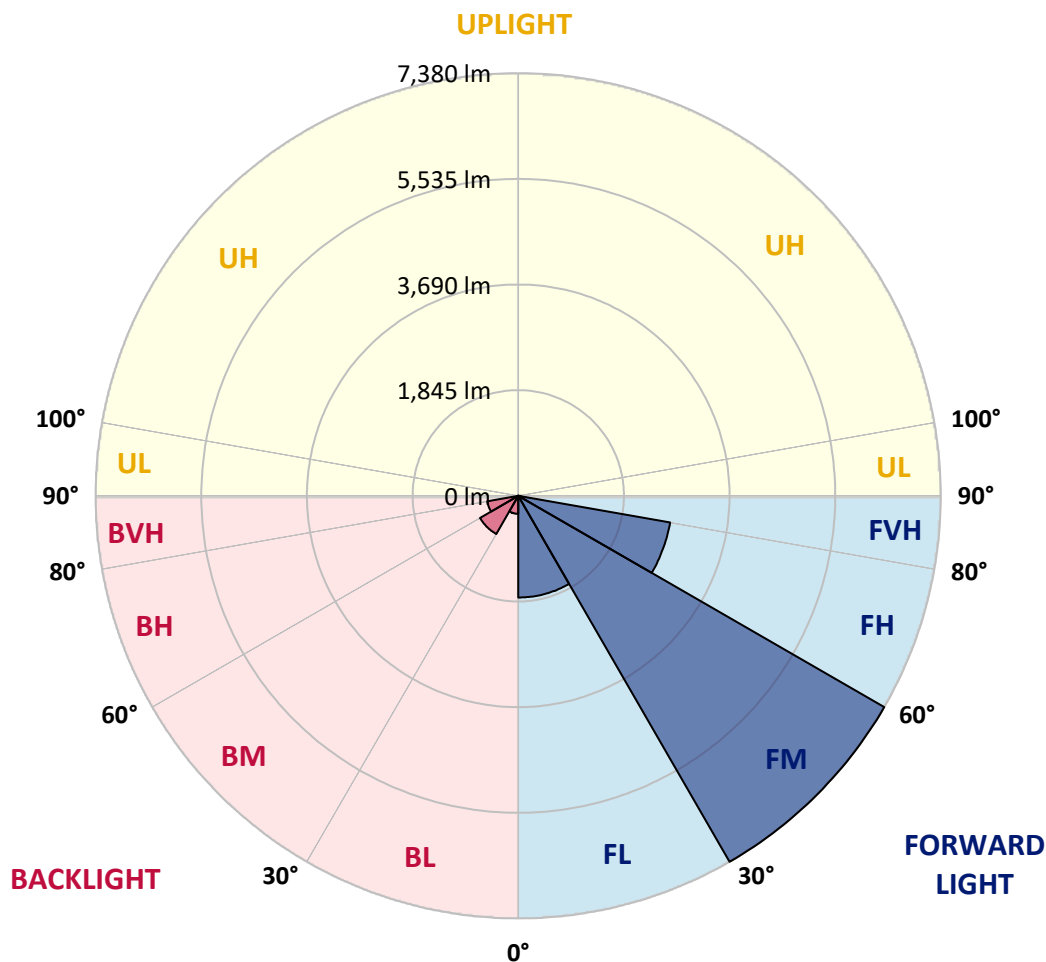
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1776.0	13.1			
FM	(30°-60°)	7379.7	54.5			
FH	(60°-80°)	2692.1	19.9			G2/5000
FVH	(80°-90°)	47.2	0.3			G1/100
BL	(0°-30°)	314.3	2.3	B1/500		
BM	(30°-60°)	770.7	5.7	B1/1000		
BH	(60°-80°)	549.6	4.1	B2/1000		G2/1000
BVH	(80°-90°)	12.4	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°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
2.5°	2218.2	2179.2	2223.7	2218.2	2179.2	2154.2	2076.4	2051.4	1959.6	1892.9	1834.6
5°	2674.0	2635.1	2674.0	2662.9	2607.3	2546.2	2418.3	2334.9	2170.9	2026.4	1895.7
7.5°	3052.0	3052.0	3068.7	3071.5	3004.8	2910.3	2751.8	2626.8	2396.1	2173.7	1965.2
10°	3460.7	3463.4	3499.6	3474.6	3385.6	3257.7	3057.6	2899.2	2621.2	2329.3	2031.9
12.5°	3897.1	3899.8	3911.0	3899.8	3794.2	3630.2	3388.4	3179.9	2860.3	2507.2	2123.6
15°	4333.5	4336.2	4350.1	4330.7	4213.9	4022.1	3747.0	3491.2	3113.2	2707.4	2234.8
17.5°	4742.1	4747.6	4758.7	4733.7	4611.4	4383.5	4102.7	3794.2	3382.8	2921.4	2359.9
20°	5109.0	5114.5	5122.9	5089.5	4967.2	4739.3	4436.3	4113.9	3658.0	3141.0	2496.1
22.5°	5478.7	5484.2	5498.1	5453.7	5317.5	5056.2	4758.7	4425.2	3949.9	3382.8	2654.6
25°	5951.2	5956.8	5967.9	5904.0	5717.7	5412.0	5097.9	4756.0	4266.7	3655.2	2849.1
27.5°	6643.3	6637.8	6637.8	6521.0	6201.4	5803.9	5439.8	5092.3	4608.6	3947.1	3063.2
30°	7499.5	7485.6	7477.2	7318.8	6862.9	6245.9	5790.0	5406.4	4936.6	4255.6	3293.9
32.5°	8266.7	8266.7	8250.0	8083.2	7599.5	6840.7	6162.5	5712.2	5253.5	4566.9	3532.9
35°	8719.7	8739.2	8730.9	8605.8	8252.8	7480.0	6665.6	6079.1	5587.1	4892.2	3819.2
37.5°	8780.9	8819.8	8828.1	8753.1	8566.9	8002.6	7224.3	6476.6	5954.0	5242.4	4097.2
40°	8533.5	8616.9	8616.9	8605.8	8539.1	8250.0	7694.0	6938.0	6332.0	5606.5	4377.9
42.5°	8152.7	8238.9	8227.7	8269.4	8252.8	8191.6	7958.1	7368.8	6710.1	5981.8	4633.7
45°	7655.1	7744.1	7721.8	7796.9	7830.2	7897.0	7930.3	7669.0	7082.5	6390.4	4920.0
47.5°	6857.4	7007.5	7040.8	7174.3	7313.2	7521.7	7680.1	7777.4	7430.0	6829.6	5231.3
50°	5678.8	5890.1	5956.8	6237.5	6618.3	7049.2	7304.9	7644.0	7674.6	7279.9	5567.6
52.5°	4066.6	4311.2	4414.1	4875.5	5659.3	6409.9	6871.3	7349.4	7769.1	7710.7	5931.8
55°	2629.5	2838.0	2938.1	3371.7	4414.1	5592.6	6359.8	6968.6	7716.3	8105.4	6348.7
57.5°	1620.5	1740.1	1806.8	2179.2	3138.2	4544.7	5689.9	6618.3	7555.1	8447.3	6782.3
60°	1092.4	1161.9	1195.2	1370.4	2132.0	3396.7	4769.9	6251.4	7343.8	8678.0	7177.0
62.5°	725.5	747.7	781.1	889.5	1406.5	2384.9	3663.6	5595.4	7185.4	8691.9	7468.9
65°	561.5	572.6	586.5	633.8	867.2	1667.8	2576.7	4533.6	6949.1	8397.3	7560.6
67.5°	442.0	453.1	469.8	494.8	628.2	1131.3	1754.0	3321.7	6465.4	7935.9	7410.5
70°	347.5	355.8	366.9	389.1	489.2	820.0	1159.1	2207.0	5489.8	7496.7	6938.0
72.5°	275.2	283.5	294.6	316.9	397.5	600.4	795.0	1375.9	4233.4	6960.2	6029.0
75°	216.8	222.4	230.7	252.9	319.7	467.0	539.3	822.8	2876.9	5979.0	4697.6
77.5°	108.4	133.4	152.9	175.1	233.5	322.4	358.6	455.9	1214.7	3068.7	2240.4
80°	63.9	77.8	83.4	97.3	152.9	194.6	194.6	183.5	383.6	1178.6	914.5
82.5°	36.1	50.0	52.8	55.6	91.7	111.2	88.9	66.7	77.8	394.7	266.8
85°	11.1	16.7	19.5	22.2	30.6	33.4	30.6	27.8	22.2	38.9	25.0
87.5°	0.0	0.0	0.0	0.0	2.8	5.6	5.6	5.6	8.3	8.3	8.3
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°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
2.5°	1801.2	1765.1	1695.6	1631.6	1570.5	1526.0	1484.3	1445.4	1417.6	1395.4	1392.6
5°	1826.2	1754.0	1620.5	1495.4	1381.5	1287.0	1206.4	1142.4	1095.2	1061.8	1059.0
7.5°	1859.6	1748.4	1545.5	1359.2	1189.7	1053.5	936.7	850.6	789.4	764.4	744.9
10°	1887.4	1742.8	1470.4	1223.0	1000.7	828.3	689.4	603.2	558.7	542.0	533.7
12.5°	1934.6	1748.4	1406.5	1098.0	836.7	633.8	528.1	480.9	461.4	447.5	444.7
15°	2004.1	1773.4	1345.3	975.7	669.9	511.5	450.3	419.7	400.3	397.5	394.7
17.5°	2073.6	1795.6	1289.8	850.6	555.9	444.7	403.0	378.0	364.1	361.4	361.4
20°	2154.2	1823.4	1228.6	731.0	475.3	400.3	366.9	347.5	330.8	328.0	328.0
22.5°	2248.7	1862.4	1170.2	625.4	422.5	366.9	339.1	316.9	303.0	300.2	300.2
25°	2376.6	1920.7	1123.0	547.6	386.4	339.1	314.1	294.6	283.5	278.0	278.0
27.5°	2518.4	2001.3	1089.6	500.3	361.4	316.9	291.9	275.2	264.1	258.5	258.5
30°	2676.8	2090.3	1067.4	480.9	347.5	297.4	275.2	258.5	244.6	241.8	241.8
32.5°	2851.9	2193.1	1053.5	483.7	344.7	283.5	258.5	241.8	230.7	225.2	225.2
35°	3046.5	2307.1	1045.1	500.3	350.2	272.4	244.6	227.9	216.8	211.3	211.3
37.5°	3263.3	2440.5	1045.1	517.0	364.1	269.6	230.7	214.0	205.7	200.1	200.1
40°	3466.2	2582.3	1056.3	536.5	378.0	269.6	219.6	205.7	194.6	189.0	189.0
42.5°	3624.7	2662.9	1064.6	555.9	386.4	266.8	208.5	194.6	186.2	180.7	180.7
45°	3805.3	2749.1	1047.9	564.3	386.4	261.3	200.1	186.2	177.9	172.3	172.3
47.5°	4005.5	2854.7	1045.1	569.8	378.0	250.2	191.8	177.9	172.3	166.8	166.8
50°	4208.4	2971.4	1050.7	567.0	366.9	233.5	180.7	172.3	164.0	158.4	158.4
52.5°	4439.1	3093.7	1061.8	561.5	341.9	214.0	172.3	164.0	155.7	150.1	147.3
55°	4694.8	3227.2	1084.1	550.4	308.5	194.6	164.0	155.7	144.5	139.0	136.2
57.5°	4989.5	3391.2	1109.1	528.1	272.4	177.9	155.7	144.5	127.9	119.5	116.7
60°	5270.2	3577.4	1136.9	475.3	236.3	161.2	147.3	130.6	114.0	108.4	105.6
62.5°	5534.3	3760.9	1150.8	380.8	200.1	147.3	139.0	119.5	102.8	97.3	94.5
65°	5703.8	3961.0	1120.2	258.5	164.0	136.2	127.9	111.2	94.5	86.2	86.2
67.5°	5714.9	4055.5	1014.6	169.6	133.4	122.3	116.7	100.1	83.4	77.8	75.1
70°	5434.2	3913.7	775.5	133.4	111.2	105.6	105.6	88.9	72.3	66.7	63.9
72.5°	4789.3	3466.2	494.8	108.4	94.5	88.9	88.9	75.1	63.9	55.6	52.8
75°	3780.3	2674.0	264.1	88.9	77.8	75.1	69.5	61.2	52.8	47.3	44.5
77.5°	1737.3	1178.6	122.3	63.9	58.4	58.4	52.8	44.5	41.7	36.1	36.1
80°	686.6	400.3	61.2	41.7	38.9	38.9	38.9	30.6	30.6	25.0	22.2
82.5°	189.0	83.4	30.6	25.0	25.0	25.0	22.2	19.5	19.5	16.7	16.7
85°	19.5	13.9	13.9	13.9	13.9	11.1	11.1	8.3	5.6	5.6	5.6
87.5°	8.3	8.3	8.3	8.3	8.3	5.6	2.8	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)