

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: P1210358

Luminaire Tested: **ARCH3-100-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9527 lumens
Efficiency: N/A
Efficacy: 92.9 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

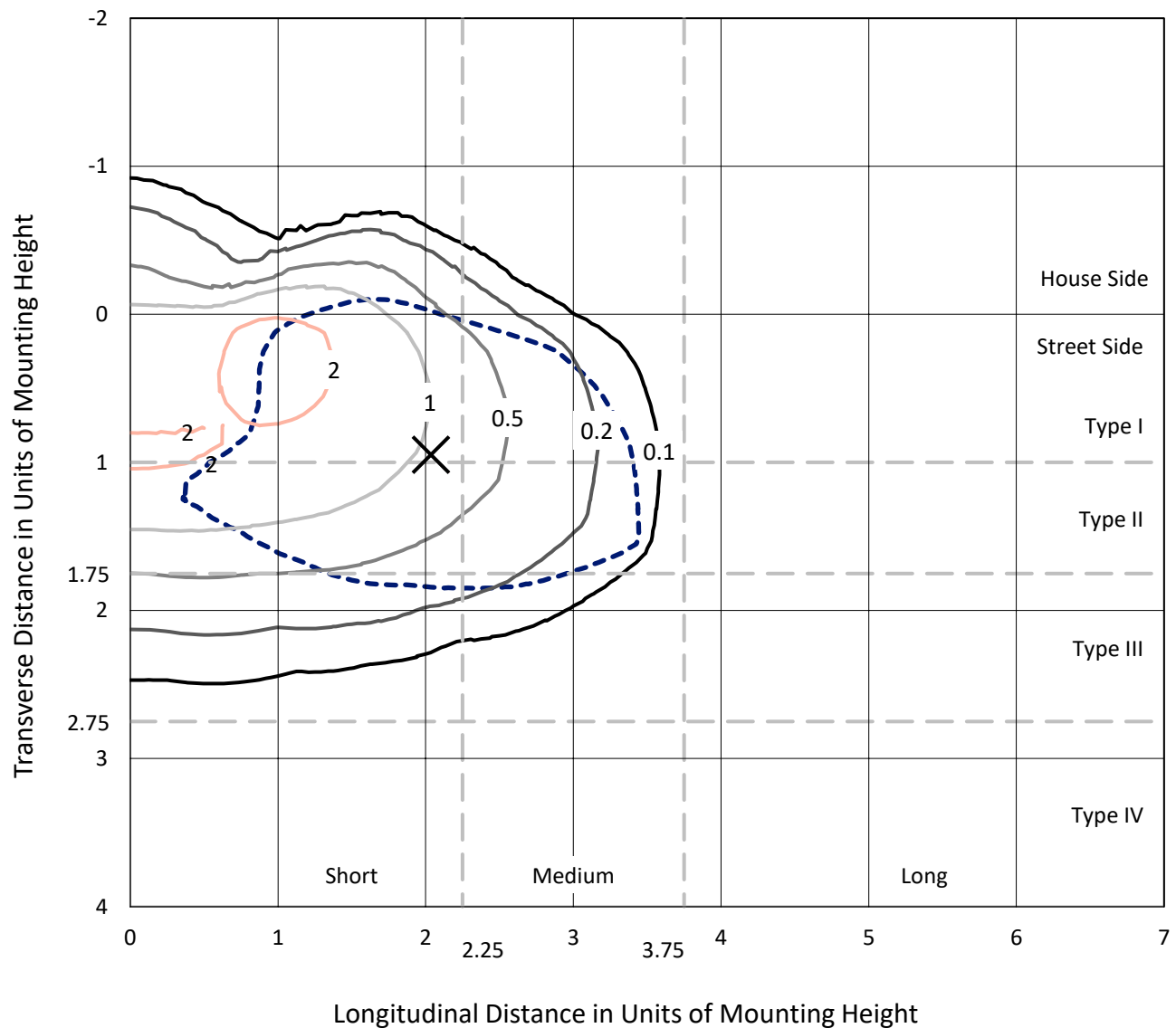
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

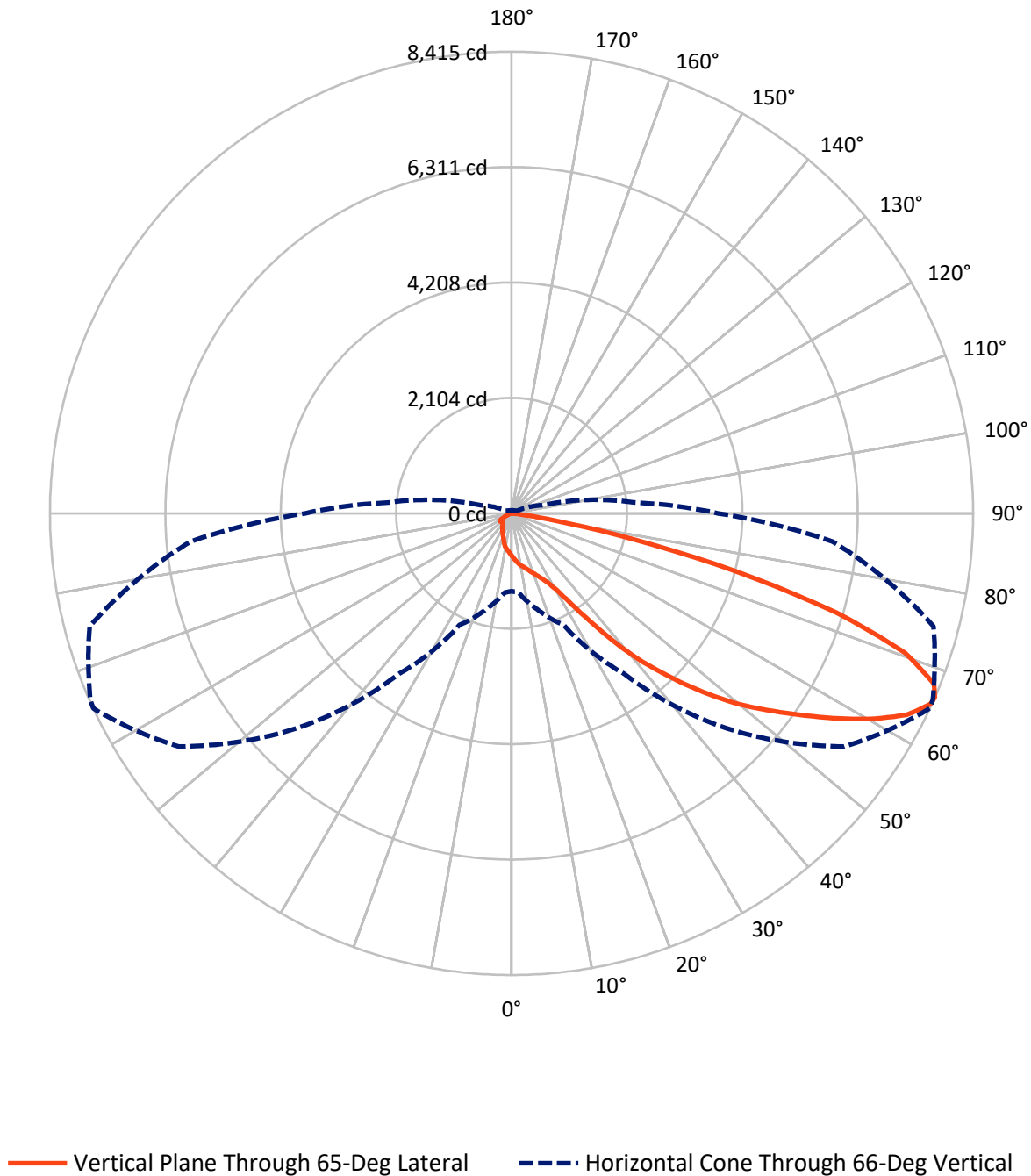
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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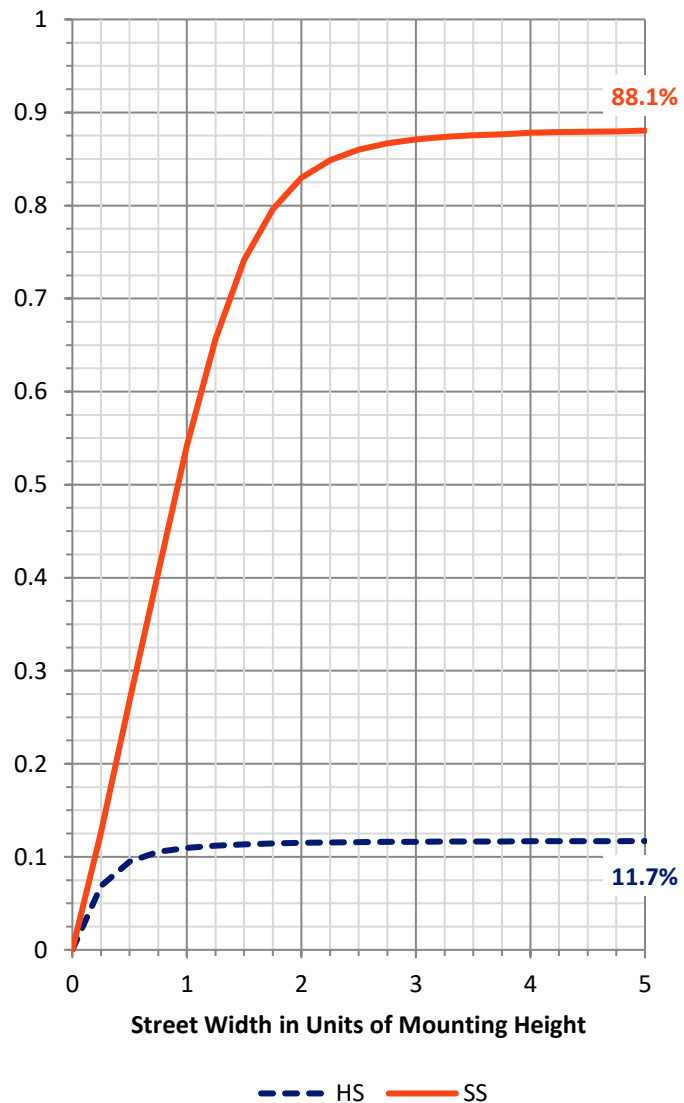
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.4	0.0	1124.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8402.6	0.0	8402.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	9527.0	0.0	9527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	0.8
10°-20°	217.8	2.3
20°-30°	398.7	4.2
30°-40°	810.1	8.5
40°-50°	1710.8	18.0
50°-60°	2630.0	27.6
60°-70°	2647.3	27.8
70°-80°	989.2	10.4
80°-90°	49.4	0.5
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°	9527.0	100.0
0°-180°	9527.0	100.0

Coefficient of Utilization



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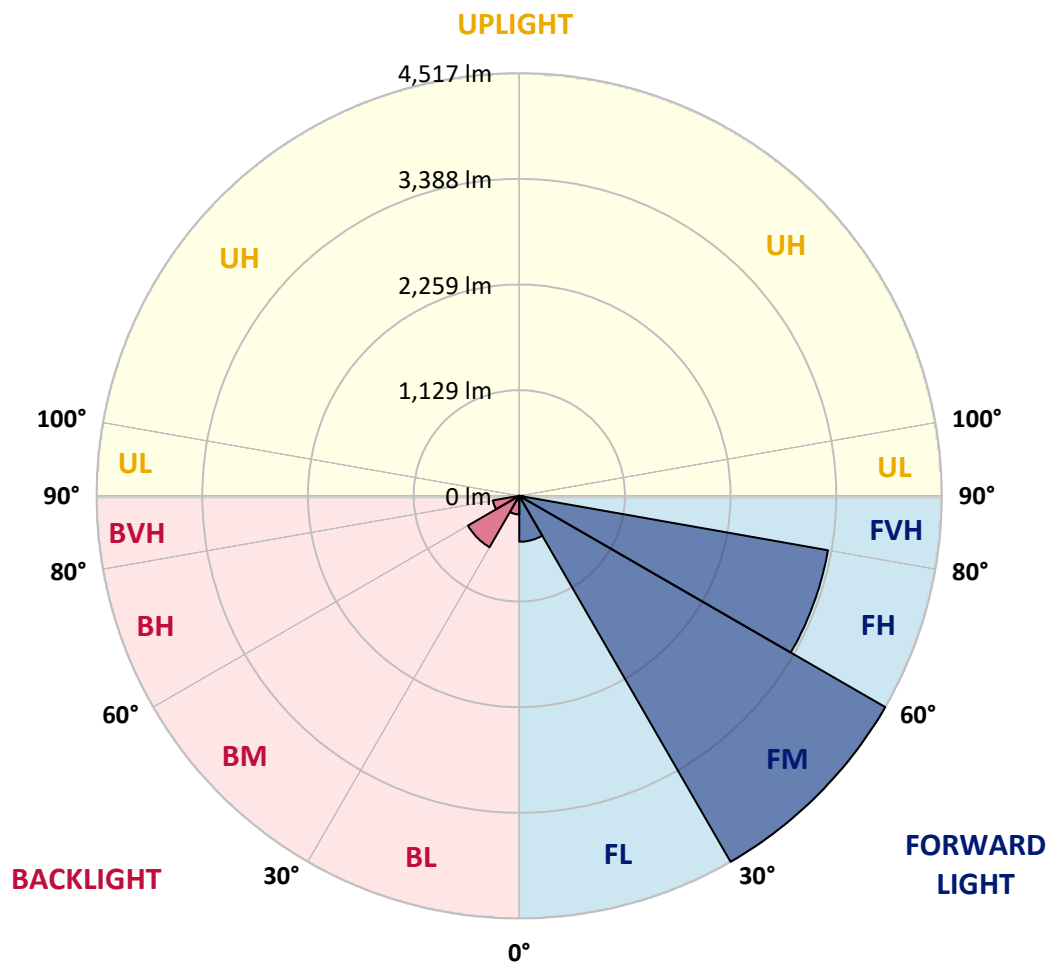
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.1	5.2			
FM	(30°-60°)	4517.0	47.4			
FH	(60°-80°)	3350.9	35.2			G2/5000
FVH	(80°-90°)	43.6	0.5			G1/100
BL	(0°-30°)	199.0	2.1	B1/500		
BM	(30°-60°)	633.9	6.7	B1/1000		
BH	(60°-80°)	285.6	3.0	B1/500		G1/500
BVH	(80°-90°)	5.8	0.1			G0/10
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°	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2
2.5°	885.1	886.8	883.4	876.4	869.5	860.9	847.1	824.6	821.1	805.6	788.3
5°	945.6	949.1	943.9	942.1	938.7	926.6	907.6	874.7	871.3	840.1	800.4
7.5°	966.3	971.5	968.1	968.1	968.1	962.9	954.2	924.8	919.7	879.9	819.4
10°	981.9	985.4	983.6	990.5	995.7	992.3	987.1	969.8	964.6	924.8	845.3
12.5°	1006.1	1007.8	1009.6	1013.0	1021.7	1025.1	1023.4	1007.8	1004.4	976.7	878.2
15°	1028.6	1028.6	1030.3	1045.9	1058.0	1064.9	1066.6	1054.5	1051.0	1028.6	919.7
17.5°	1049.3	1051.0	1056.2	1073.5	1094.3	1108.1	1116.7	1111.5	1106.4	1089.1	968.1
20°	1080.4	1083.9	1089.1	1113.3	1134.0	1156.5	1173.8	1172.1	1170.3	1158.2	1025.1
22.5°	1134.0	1137.5	1146.1	1168.6	1189.3	1217.0	1246.4	1244.7	1239.5	1230.8	1092.5
25°	1215.3	1215.3	1220.5	1239.5	1265.4	1298.2	1325.9	1331.1	1325.9	1320.7	1177.2
27.5°	1317.3	1319.0	1319.0	1339.7	1363.9	1405.4	1440.0	1445.2	1445.2	1440.0	1291.3
30°	1459.0	1453.8	1450.4	1467.7	1493.6	1554.1	1614.6	1625.0	1619.8	1628.4	1452.1
32.5°	1702.8	1694.1	1664.7	1668.2	1683.7	1766.7	1868.7	1905.0	1903.3	1918.8	1711.4
35°	2039.9	2022.6	1979.4	1943.0	1941.3	2031.2	2186.8	2323.4	2321.6	2375.2	2105.5
37.5°	2420.2	2442.6	2361.4	2299.2	2280.1	2351.0	2551.5	2847.2	2862.7	2956.1	2622.4
40°	2928.4	2942.2	2838.5	2750.3	2660.5	2686.4	2950.9	3410.7	3438.4	3542.1	3139.3
42.5°	3370.9	3384.8	3324.3	3217.1	3103.0	3054.6	3353.7	3922.4	3944.9	4088.4	3671.7
45°	3671.7	3682.1	3702.9	3713.2	3583.6	3483.3	3846.3	4447.9	4475.6	4641.5	4192.1
47.5°	3906.8	3915.5	3957.0	4060.7	4034.8	3955.2	4347.7	4994.2	5001.1	5186.1	4698.6
50°	4015.8	4036.5	4138.5	4297.5	4411.6	4434.1	4892.2	5511.1	5530.1	5706.4	5177.4
52.5°	3894.7	3901.7	4159.2	4458.3	4688.2	4916.4	5438.5	5989.9	6045.2	6176.6	5607.9
55°	3486.8	3536.9	3927.6	4453.1	4906.0	5374.5	6022.8	6506.8	6556.9	6639.9	5986.5
57.5°	3013.1	3068.4	3543.8	4230.1	4999.4	5798.0	6563.8	7056.5	7091.1	7113.6	6333.9
60°	2603.4	2655.3	3144.5	3803.1	4906.0	6097.1	7066.9	7602.8	7632.2	7571.7	6508.5
62.5°	2100.4	2152.2	2644.9	3237.8	4539.5	6157.6	7440.3	8088.5	8100.6	7936.4	6401.3
65°	1583.5	1618.1	2029.5	2537.7	3898.2	5836.1	7525.0	8391.1	8379.0	8041.9	6079.8
66°	1419.3	1448.6	1811.7	2243.8	3564.6	5542.2	7410.9	8415.3	8403.2	7964.1	5868.9
67.5°	1223.9	1232.6	1531.6	1835.9	2982.0	4918.1	7063.4	8304.6	8315.0	7749.7	5483.4
70°	956.0	954.2	1127.1	1277.5	2036.4	3498.9	5891.4	7608.0	7658.1	6940.7	4676.1
72.5°	612.0	591.2	691.5	781.4	1185.9	2031.2	4295.8	6200.8	6285.5	5452.3	3483.3
75°	364.8	344.0	368.2	390.7	568.7	976.7	2525.6	4219.7	4301.0	3495.4	2072.7
77.5°	273.1	264.5	266.2	247.2	252.4	366.5	1153.0	2230.0	2288.8	1431.4	786.6
80°	209.2	186.7	174.6	183.2	166.0	145.2	428.7	767.5	803.8	338.8	164.2
82.5°	140.0	121.0	112.4	122.7	105.5	81.2	103.7	148.7	145.2	91.6	64.0
85°	72.6	62.2	62.2	62.2	53.6	39.8	44.9	60.5	60.5	48.4	38.0
87.5°	20.7	19.0	22.5	20.7	15.6	15.6	17.3	20.7	20.7	19.0	17.3
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°	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2
2.5°	774.5	767.5	748.5	734.7	720.9	708.8	694.9	691.5	684.6	686.3	682.8
5°	779.6	760.6	727.8	696.7	672.5	651.7	625.8	615.4	601.6	596.4	592.9
7.5°	786.6	758.9	710.5	667.3	625.8	584.3	542.8	518.6	503.0	496.1	490.9
10°	802.1	765.8	701.8	634.4	563.6	504.8	463.3	446.0	435.6	433.9	432.2
12.5°	822.9	776.2	693.2	592.9	499.6	444.3	418.3	413.2	411.4	411.4	409.7
15°	854.0	793.5	679.4	544.5	449.5	411.4	399.3	390.7	387.2	387.2	387.2
17.5°	885.1	814.2	658.6	494.4	414.9	390.7	378.6	373.4	369.9	371.7	369.9
20°	924.8	838.4	631.0	451.2	392.4	373.4	361.3	356.1	354.4	354.4	354.4
22.5°	969.8	866.1	596.4	418.3	373.4	356.1	344.0	338.8	335.4	337.1	337.1
25°	1030.3	900.6	560.1	385.5	354.4	338.8	325.0	318.1	318.1	319.8	321.5
27.5°	1108.1	942.1	523.8	364.8	337.1	321.5	306.0	299.1	300.8	304.2	304.2
30°	1222.2	999.2	487.5	342.3	318.1	300.8	287.0	280.0	283.5	290.4	290.4
32.5°	1384.7	1092.5	456.4	316.4	290.4	271.4	257.6	252.4	261.0	274.9	274.9
35°	1675.1	1263.7	437.4	290.4	261.0	238.6	221.3	216.1	228.2	245.5	245.5
37.5°	2064.1	1538.5	444.3	267.9	236.8	210.9	191.9	185.0	193.6	209.2	214.4
40°	2498.0	1870.4	504.8	248.9	214.4	188.4	169.4	162.5	167.7	174.6	176.3
42.5°	2931.9	2223.1	618.9	235.1	197.1	169.4	152.1	146.9	150.4	152.1	153.9
45°	3364.0	2572.3	762.4	226.5	181.5	153.9	136.6	136.6	138.3	138.3	138.3
47.5°	3773.7	2912.8	912.7	224.7	167.7	138.3	124.5	126.2	126.2	127.9	127.9
50°	4161.0	3217.1	1064.9	229.9	155.6	124.5	114.1	114.1	114.1	115.8	114.1
52.5°	4484.2	3483.3	1223.9	238.6	143.5	114.1	103.7	103.7	103.7	105.5	103.7
55°	4790.2	3725.3	1386.4	250.7	133.1	105.5	95.1	91.6	91.6	93.3	91.6
57.5°	5039.1	3886.1	1540.3	252.4	124.5	96.8	88.2	83.0	83.0	83.0	83.0
60°	5049.5	3792.7	1585.2	221.3	114.1	88.2	79.5	72.6	74.3	74.3	74.3
62.5°	4719.3	3301.8	1274.0	166.0	102.0	79.5	72.6	65.7	65.7	65.7	65.7
65°	4071.1	2568.8	746.8	131.4	88.2	70.9	64.0	58.8	58.8	58.8	57.0
66°	3766.8	2252.5	572.2	119.3	83.0	69.1	62.2	57.0	55.3	53.6	53.6
67.5°	3270.7	1780.6	357.8	105.5	76.1	64.0	57.0	51.9	50.1	48.4	48.4
70°	2463.4	1130.6	174.6	81.2	65.7	55.3	50.1	44.9	43.2	41.5	39.8
72.5°	1728.7	662.1	91.6	62.2	53.6	48.4	43.2	38.0	36.3	34.6	34.6
75°	976.7	319.8	60.5	44.9	43.2	39.8	36.3	31.1	29.4	29.4	29.4
77.5°	369.9	110.6	41.5	32.8	34.6	31.1	25.9	25.9	24.2	25.9	24.2
80°	96.8	48.4	25.9	24.2	25.9	22.5	19.0	20.7	20.7	20.7	20.7
82.5°	51.9	27.7	15.6	17.3	15.6	15.6	12.1	13.8	15.6	13.8	15.6
85°	36.3	13.8	8.6	8.6	6.9	6.9	5.2	6.9	8.6	6.9	6.9
87.5°	19.0	5.2	5.2	5.2	5.2	3.5	1.7	0.0	1.7	1.7	1.7
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)