

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: P1210390

Luminaire Tested: **ARCH3-110-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210390
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: ARCH3-110-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 880mA 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: 10245 lumens
Efficiency: N/A
Efficacy: 91.6 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): 111.9
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



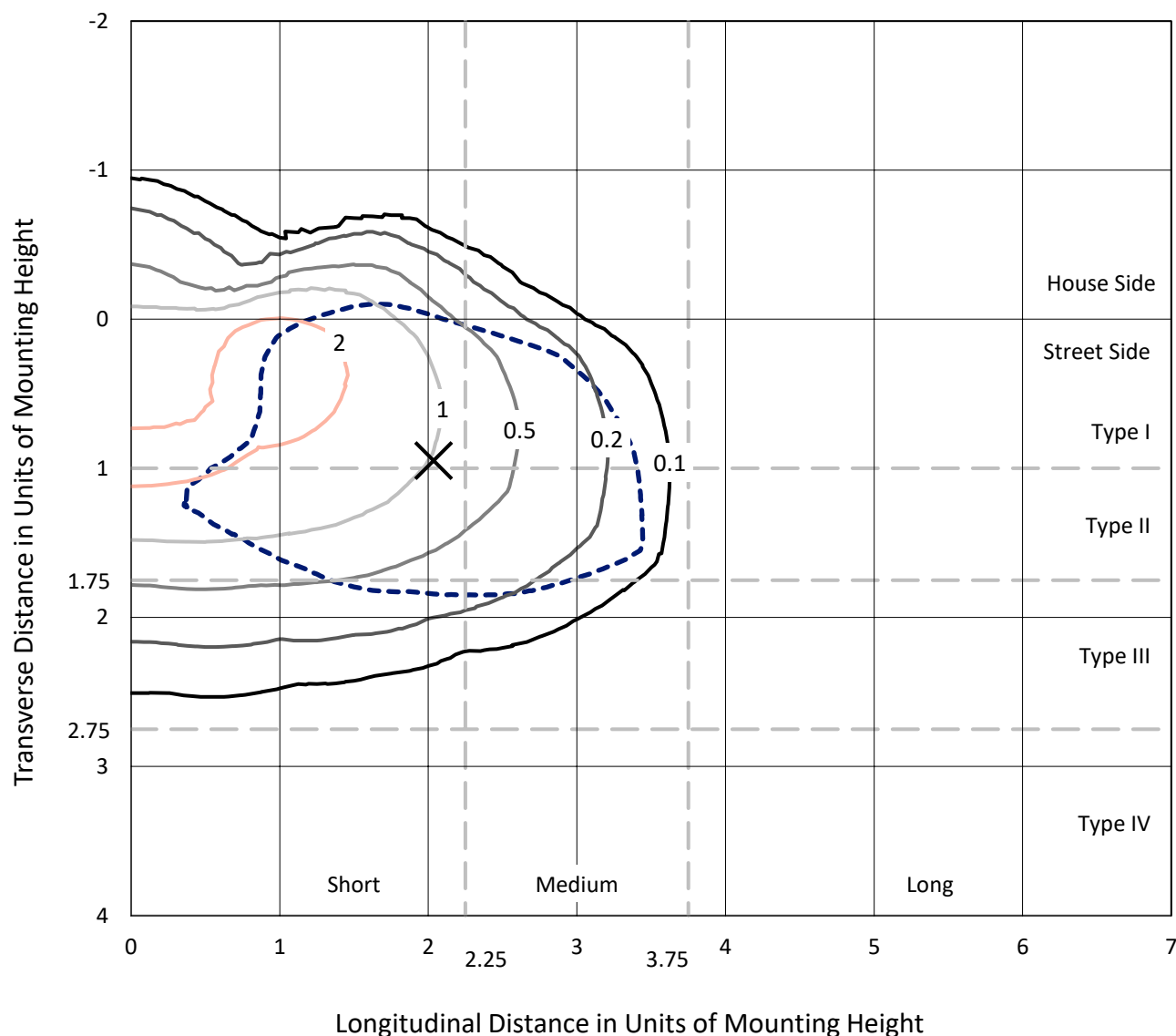
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

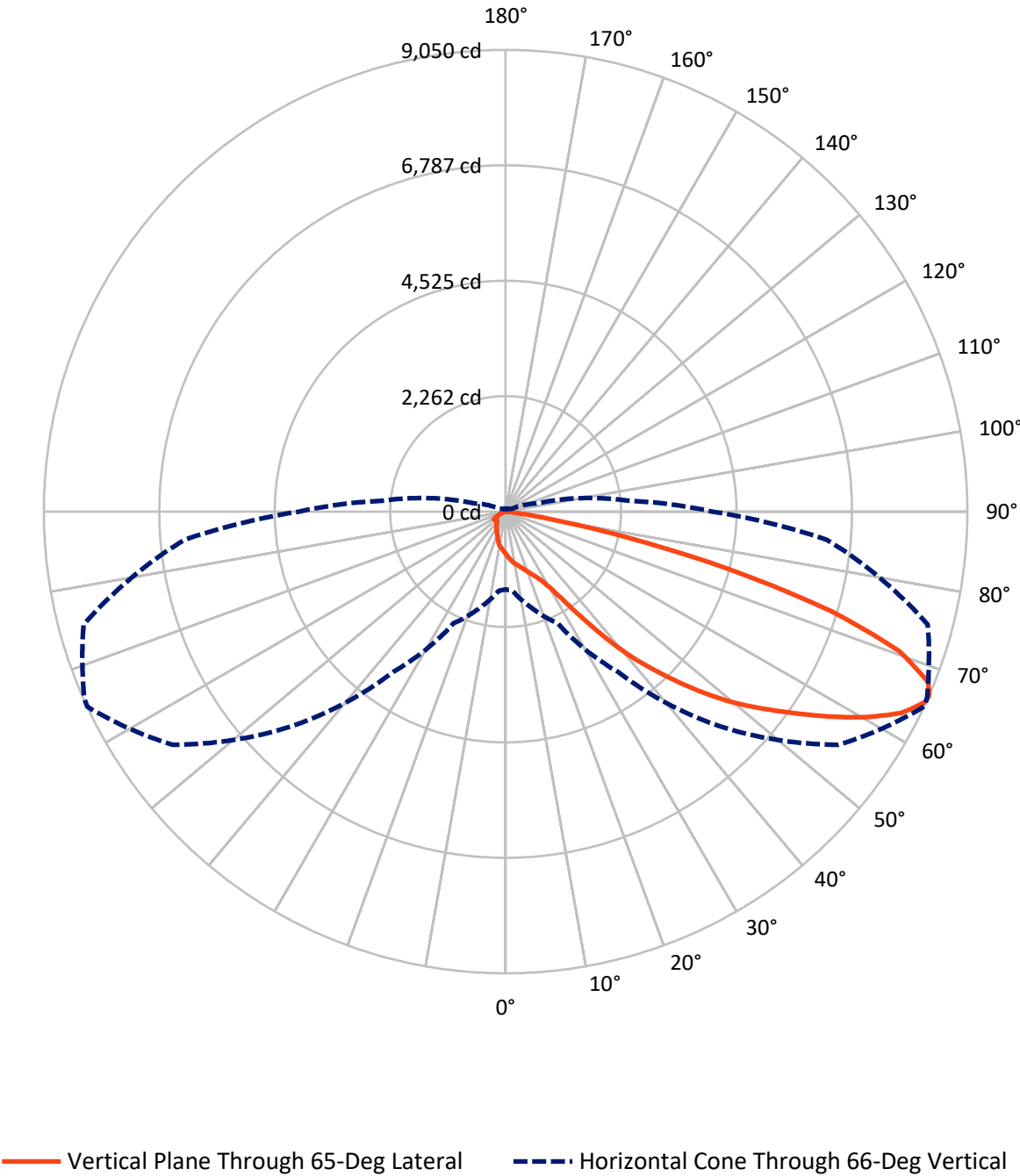


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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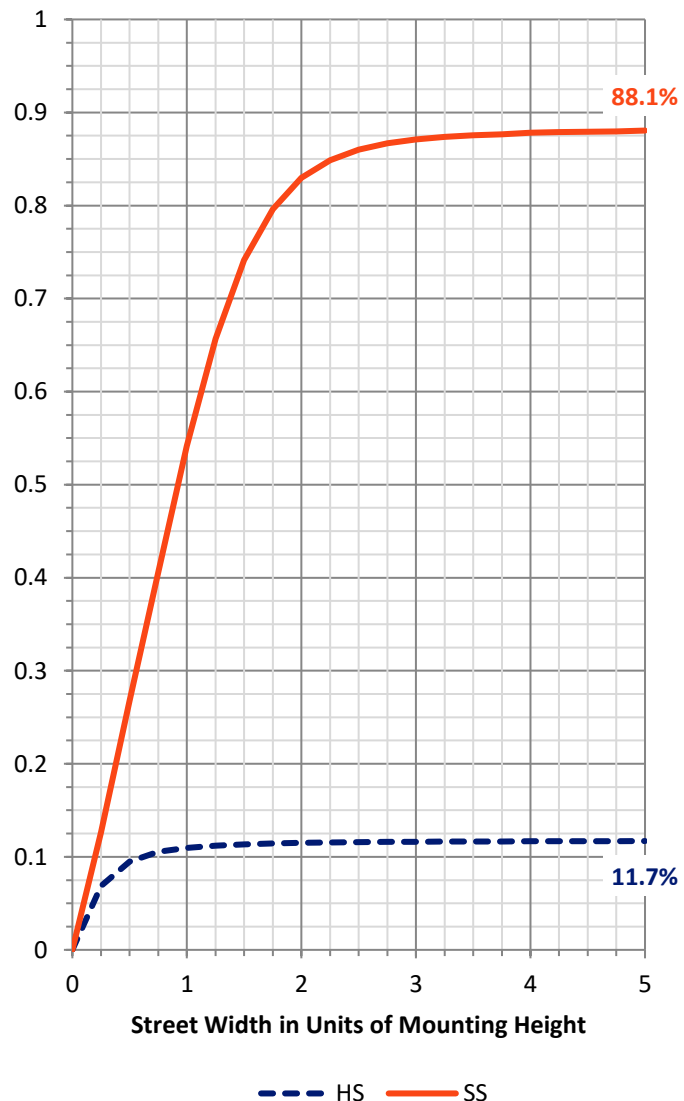
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.1	0.0	1209.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	9035.9	0.0	9035.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	10245.0	0.0	10245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	0.8
10°-20°	234.2	2.3
20°-30°	428.7	4.2
30°-40°	871.2	8.5
40°-50°	1839.7	18.0
50°-60°	2828.2	27.6
60°-70°	2846.8	27.8
70°-80°	1063.7	10.4
80°-90°	53.1	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°	10245.0	100.0
0°-180°	10245.0	100.0

Coefficient of Utilization



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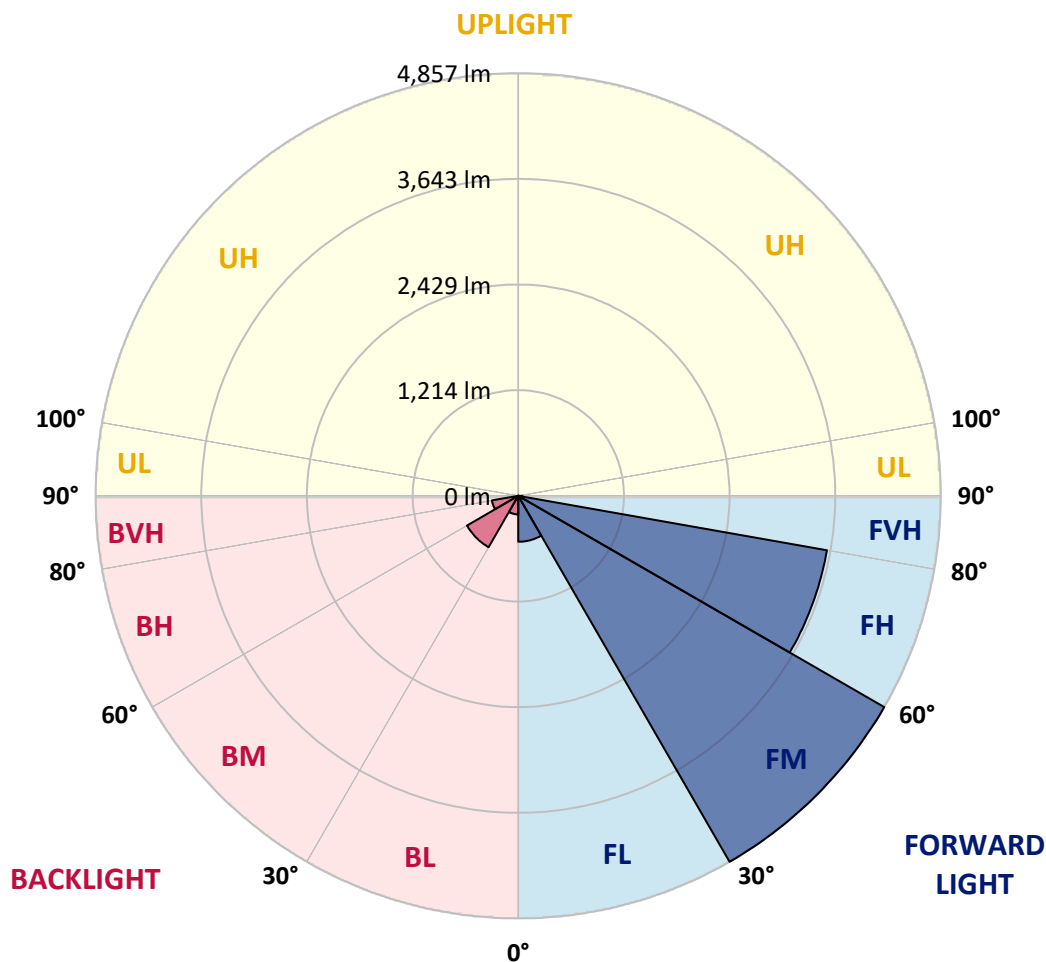
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	528.1	5.2			
FM	(30°-60°)	4857.5	47.4			
FH	(60°-80°)	3603.4	35.2			G2/5000
FVH	(80°-90°)	46.9	0.5			G1/100
BL	(0°-30°)	214.0	2.1	B1/500		
BM	(30°-60°)	681.7	6.7	B1/1000		
BH	(60°-80°)	307.2	3.0	B1/500		G1/500
BVH	(80°-90°)	6.2	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°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	951.8	953.7	949.9	942.5	935.1	925.8	910.9	886.7	883.0	866.3	847.7
5°	1016.9	1020.6	1015.0	1013.1	1009.4	996.4	976.0	940.6	936.9	903.5	860.7
7.5°	1039.2	1044.7	1041.0	1041.0	1041.0	1035.4	1026.2	994.6	989.0	946.2	881.2
10°	1055.9	1059.6	1057.8	1065.2	1070.8	1067.1	1061.5	1042.9	1037.3	994.6	909.0
12.5°	1081.9	1083.8	1085.6	1089.4	1098.7	1102.4	1100.5	1083.8	1080.1	1050.3	944.4
15°	1106.1	1106.1	1107.9	1124.7	1137.7	1145.1	1147.0	1134.0	1130.3	1106.1	989.0
17.5°	1128.4	1130.3	1135.8	1154.4	1176.7	1191.6	1200.9	1195.3	1189.7	1171.2	1041.0
20°	1161.9	1165.6	1171.2	1197.2	1219.5	1243.7	1262.2	1260.4	1258.5	1245.5	1102.4
22.5°	1219.5	1223.2	1232.5	1256.7	1279.0	1308.7	1340.3	1338.5	1332.9	1323.6	1174.9
25°	1306.9	1306.9	1312.4	1332.9	1360.8	1396.1	1425.8	1431.4	1425.8	1420.3	1266.0
27.5°	1416.5	1418.4	1418.4	1440.7	1466.7	1511.3	1548.5	1554.1	1554.1	1548.5	1388.7
30°	1569.0	1563.4	1559.7	1578.3	1606.2	1671.2	1736.3	1747.4	1741.9	1751.2	1561.5
32.5°	1831.1	1821.8	1790.2	1793.9	1810.6	1899.9	2009.6	2048.6	2046.7	2063.5	1840.4
35°	2193.6	2175.0	2128.5	2089.5	2087.6	2184.3	2351.6	2498.5	2496.6	2554.2	2264.2
37.5°	2602.6	2626.7	2539.4	2472.4	2452.0	2528.2	2743.8	3061.7	3078.5	3178.8	2820.1
40°	3149.1	3164.0	3052.4	2957.6	2861.0	2888.8	3173.3	3667.8	3697.5	3809.0	3375.9
42.5°	3625.0	3639.9	3574.8	3459.6	3336.9	3284.8	3606.4	4218.0	4242.2	4396.5	3948.5
45°	3948.5	3959.6	3981.9	3993.1	3853.7	3745.8	4136.2	4783.1	4812.9	4991.3	4508.0
47.5°	4201.3	4210.6	4255.2	4366.7	4338.8	4253.3	4675.3	5370.6	5378.0	5576.9	5052.7
50°	4318.4	4340.7	4450.4	4621.4	4744.1	4768.3	5260.9	5926.4	5946.9	6136.5	5567.6
52.5°	4188.3	4195.7	4472.7	4794.3	5041.5	5286.9	5848.3	6441.3	6500.8	6642.1	6030.5
55°	3749.6	3803.5	4223.6	4788.7	5275.8	5779.5	6476.7	6997.2	7051.1	7140.3	6437.6
57.5°	3240.2	3299.7	3810.9	4548.9	5376.2	6235.0	7058.5	7588.3	7625.5	7649.7	6811.3
60°	2799.6	2855.4	3381.5	4089.7	5275.8	6556.6	7599.5	8175.8	8207.4	8142.3	6999.0
62.5°	2258.7	2314.4	2844.2	3481.9	4881.7	6621.7	8001.0	8698.1	8711.2	8534.5	6883.8
65°	1702.8	1740.0	2182.4	2729.0	4192.0	6275.9	8092.1	9023.5	9010.4	8647.9	6538.0
66°	1526.2	1557.8	1948.2	2412.9	3833.2	5959.9	7969.4	9049.5	9036.5	8564.3	6311.2
67.5°	1316.2	1325.4	1647.1	1974.2	3206.7	5288.8	7595.8	8930.5	8941.7	8333.8	5896.7
70°	1028.0	1026.2	1212.1	1373.8	2189.9	3762.6	6335.4	8181.3	8235.3	7463.8	5028.5
72.5°	658.1	635.8	743.6	840.3	1275.3	2184.3	4619.5	6668.1	6759.2	5863.2	3745.8
75°	392.2	369.9	396.0	420.1	611.6	1050.3	2716.0	4537.8	4625.1	3758.8	2228.9
77.5°	293.7	284.4	286.3	265.8	271.4	394.1	1239.9	2398.1	2461.3	1539.2	845.8
80°	224.9	200.8	187.8	197.1	178.5	156.2	461.0	825.4	864.4	364.4	176.6
82.5°	150.6	130.1	120.8	132.0	113.4	87.4	111.5	159.9	156.2	98.5	68.8
85°	78.1	66.9	66.9	66.9	57.6	42.8	48.3	65.1	65.1	52.1	40.9
87.5°	22.3	20.4	24.2	22.3	16.7	16.7	18.6	22.3	22.3	20.4	18.6
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°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	832.8	825.4	804.9	790.1	775.2	762.2	747.3	743.6	736.2	738.0	734.3
5°	838.4	817.9	782.6	749.2	723.1	700.8	672.9	661.8	646.9	641.3	637.6
7.5°	845.8	816.1	764.0	717.6	672.9	628.3	583.7	557.7	541.0	533.5	527.9
10°	862.6	823.5	754.7	682.2	606.0	542.8	498.2	479.6	468.5	466.6	464.7
12.5°	884.9	834.7	745.4	637.6	537.2	477.8	449.9	444.3	442.4	442.4	440.6
15°	918.3	853.3	730.6	585.6	483.3	442.4	429.4	420.1	416.4	416.4	416.4
17.5°	951.8	875.6	708.3	531.7	446.2	420.1	407.1	401.5	397.8	399.7	397.8
20°	994.6	901.6	678.5	485.2	422.0	401.5	388.5	382.9	381.1	381.1	381.1
22.5°	1042.9	931.3	641.3	449.9	401.5	382.9	369.9	364.4	360.6	362.5	362.5
25°	1107.9	968.5	602.3	414.6	381.1	364.4	349.5	342.1	342.1	343.9	345.8
27.5°	1191.6	1013.1	563.3	392.2	362.5	345.8	329.0	321.6	323.5	327.2	327.2
30°	1314.3	1074.5	524.2	368.1	342.1	323.5	308.6	301.2	304.9	312.3	312.3
32.5°	1489.0	1174.9	490.8	340.2	312.3	291.9	277.0	271.4	280.7	295.6	295.6
35°	1801.3	1358.9	470.3	312.3	280.7	256.5	237.9	232.4	245.4	264.0	264.0
37.5°	2219.6	1654.5	477.8	288.1	254.7	226.8	206.3	198.9	208.2	224.9	230.5
40°	2686.2	2011.4	542.8	267.7	230.5	202.6	182.2	174.7	180.3	187.8	189.6
42.5°	3152.8	2390.6	665.5	252.8	211.9	182.2	163.6	158.0	161.7	163.6	165.4
45°	3617.6	2766.2	819.8	243.5	195.2	165.4	146.9	146.9	148.7	148.7	148.7
47.5°	4058.1	3132.4	981.5	241.7	180.3	148.7	133.8	135.7	135.7	137.6	137.6
50°	4474.6	3459.6	1145.1	247.2	167.3	133.8	122.7	122.7	122.7	124.6	122.7
52.5°	4822.2	3745.8	1316.2	256.5	154.3	122.7	111.5	111.5	111.5	113.4	111.5
55°	5151.2	4006.1	1490.9	269.6	143.1	113.4	102.2	98.5	98.5	100.4	98.5
57.5°	5418.9	4179.0	1656.3	271.4	133.8	104.1	94.8	89.2	89.2	89.2	89.2
60°	5430.1	4078.6	1704.7	237.9	122.7	94.8	85.5	78.1	79.9	79.9	79.9
62.5°	5075.0	3550.6	1370.1	178.5	109.7	85.5	78.1	70.6	70.6	70.6	70.6
65°	4377.9	2762.4	803.1	141.3	94.8	76.2	68.8	63.2	63.2	63.2	61.3
66°	4050.7	2422.2	615.3	128.3	89.2	74.4	66.9	61.3	59.5	57.6	57.6
67.5°	3517.2	1914.7	384.8	113.4	81.8	68.8	61.3	55.8	53.9	52.1	52.1
70°	2649.0	1215.8	187.8	87.4	70.6	59.5	53.9	48.3	46.5	44.6	42.8
72.5°	1859.0	712.0	98.5	66.9	57.6	52.1	46.5	40.9	39.0	37.2	37.2
75°	1050.3	343.9	65.1	48.3	46.5	42.8	39.0	33.5	31.6	31.6	31.6
77.5°	397.8	119.0	44.6	35.3	37.2	33.5	27.9	27.9	26.0	27.9	26.0
80°	104.1	52.1	27.9	26.0	27.9	24.2	20.4	22.3	22.3	22.3	22.3
82.5°	55.8	29.7	16.7	18.6	16.7	16.7	13.0	14.9	16.7	14.9	16.7
85°	39.0	14.9	9.3	9.3	7.4	7.4	5.6	7.4	9.3	7.4	7.4
87.5°	20.4	5.6	5.6	5.6	5.6	3.7	1.9	0.0	1.9	1.9	1.9
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)