

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: P1210422

Luminaire Tested: **ARCH3-120-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210422
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: ARCH3-120-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA 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: 11046 lumens
Efficiency: N/A
Efficacy: 90.0 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

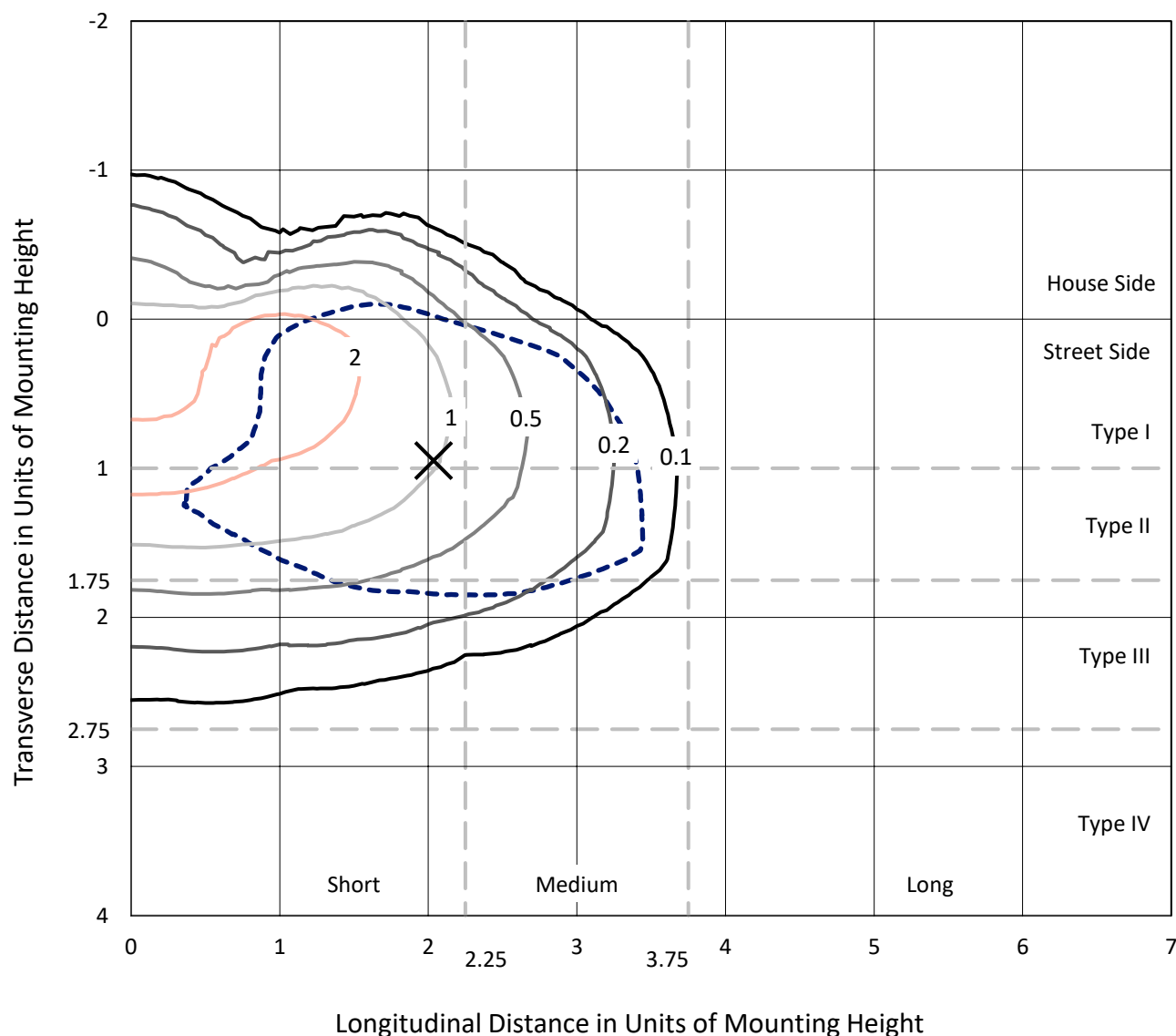
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

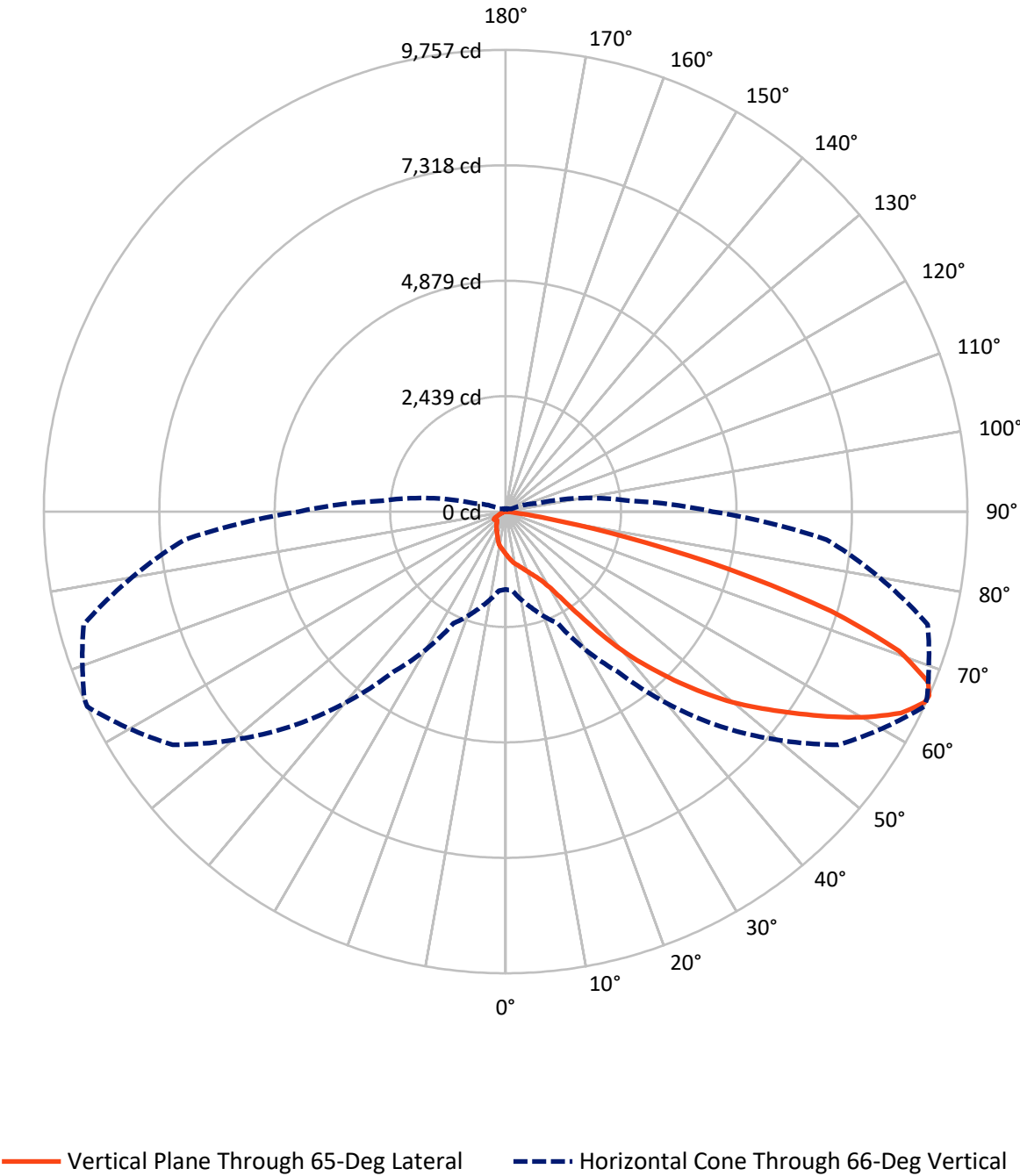
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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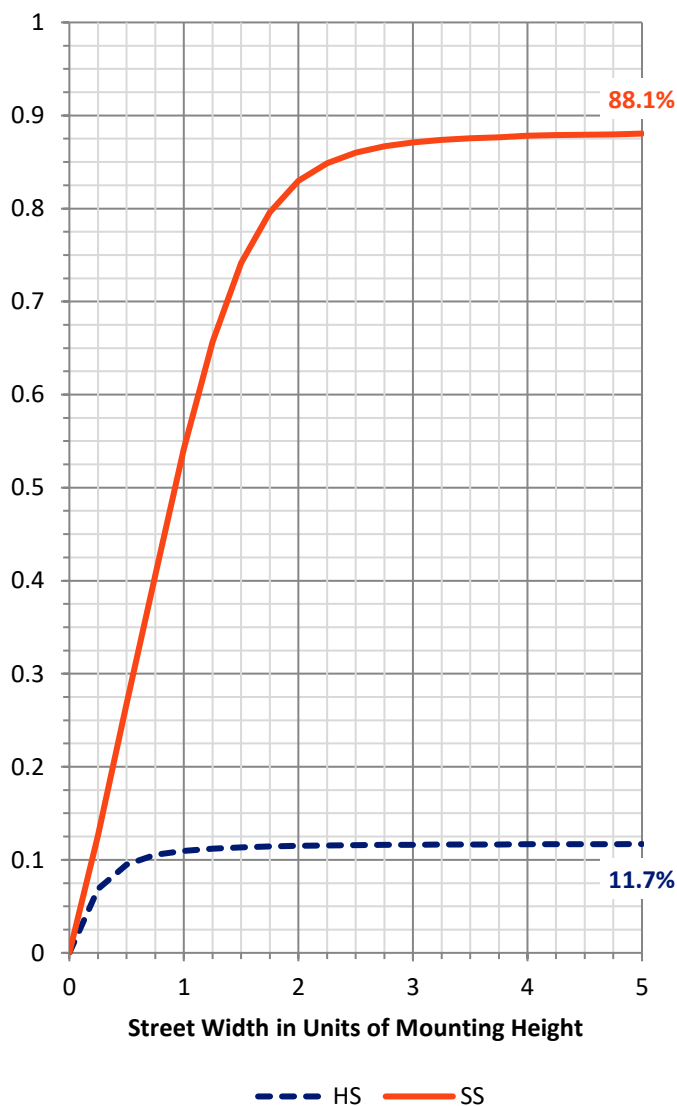
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.7	0.0	1303.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	9742.3	0.0	9742.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	11046.0	0.0	11046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	0.8
10°-20°	252.6	2.3
20°-30°	462.3	4.2
30°-40°	939.3	8.5
40°-50°	1983.6	18.0
50°-60°	3049.4	27.6
60°-70°	3069.4	27.8
70°-80°	1146.9	10.4
80°-90°	57.3	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°	11046.0	100.0
0°-180°	11046.0	100.0

Coefficient of Utilization



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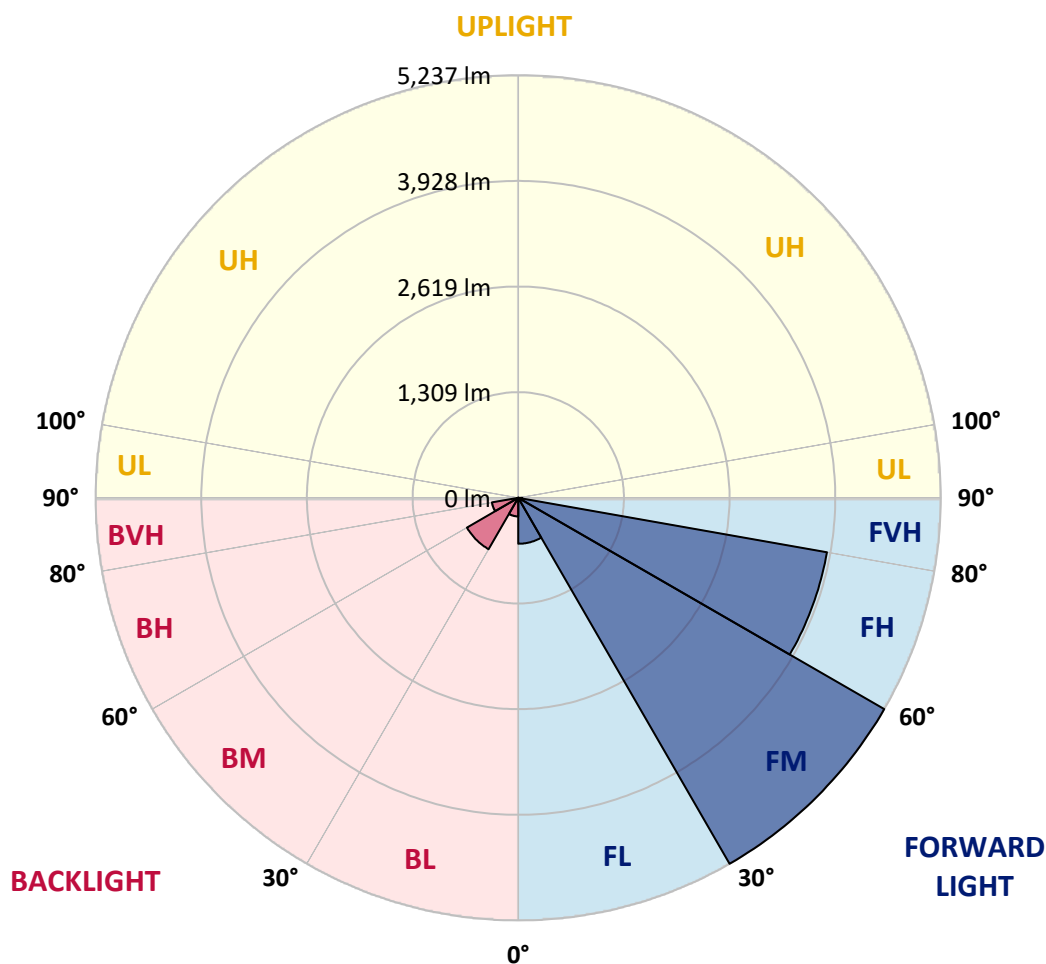
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	569.4	5.2			
FM	(30°-60°)	5237.2	47.4			
FH	(60°-80°)	3885.1	35.2			G2/5000
FVH	(80°-90°)	50.6	0.5			G1/100
BL	(0°-30°)	230.7	2.1	B1/500		
BM	(30°-60°)	735.0	6.7	B1/1000		
BH	(60°-80°)	331.2	3.0	B1/500		G1/500
BVH	(80°-90°)	6.7	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°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	1026.2	1028.2	1024.2	1016.2	1008.2	998.1	982.1	956.1	952.1	934.0	914.0
5°	1096.4	1100.4	1094.4	1092.4	1088.3	1074.3	1052.3	1014.2	1010.2	974.1	928.0
7.5°	1120.4	1126.4	1122.4	1122.4	1122.4	1116.4	1106.4	1072.3	1066.3	1020.2	950.0
10°	1138.5	1142.5	1140.5	1148.5	1154.5	1150.5	1144.5	1124.4	1118.4	1072.3	980.1
12.5°	1166.5	1168.5	1170.5	1174.5	1184.6	1188.6	1186.6	1168.5	1164.5	1132.4	1018.2
15°	1192.6	1192.6	1194.6	1212.6	1226.6	1234.7	1236.7	1222.6	1218.6	1192.6	1066.3
17.5°	1216.6	1218.6	1224.6	1244.7	1268.7	1284.8	1294.8	1288.8	1282.8	1262.7	1122.4
20°	1252.7	1256.7	1262.7	1290.8	1314.8	1340.9	1360.9	1358.9	1356.9	1342.9	1188.6
22.5°	1314.8	1318.8	1328.9	1354.9	1379.0	1411.0	1445.1	1443.1	1437.1	1427.1	1266.7
25°	1409.0	1409.0	1415.0	1437.1	1467.2	1505.2	1537.3	1543.3	1537.3	1531.3	1364.9
27.5°	1527.3	1529.3	1529.3	1553.3	1581.4	1629.5	1669.6	1675.6	1675.6	1669.6	1497.2
30°	1691.6	1685.6	1681.6	1701.7	1731.7	1801.9	1872.0	1884.1	1878.0	1888.1	1683.6
32.5°	1974.3	1964.2	1930.2	1934.2	1952.2	2048.4	2166.7	2208.8	2206.8	2224.8	1984.3
35°	2365.1	2345.1	2294.9	2252.9	2250.8	2355.1	2535.5	2693.8	2691.8	2753.9	2441.3
37.5°	2806.0	2832.1	2737.9	2665.7	2643.7	2725.9	2958.4	3301.1	3319.1	3427.4	3040.5
40°	3395.3	3411.3	3291.1	3188.9	3084.6	3114.7	3421.4	3954.5	3986.6	4106.8	3639.8
42.5°	3908.4	3924.5	3854.3	3730.0	3597.7	3541.6	3888.4	4547.8	4573.9	4740.2	4257.2
45°	4257.2	4269.2	4293.2	4305.3	4154.9	4038.7	4459.6	5157.1	5189.2	5381.6	4860.5
47.5°	4529.8	4539.8	4587.9	4708.1	4678.1	4585.9	5040.9	5790.5	5798.5	6013.0	5447.7
50°	4656.0	4680.1	4798.3	4982.7	5115.0	5141.1	5672.2	6389.8	6411.8	6616.2	6002.9
52.5°	4515.7	4523.7	4822.4	5169.1	5435.7	5700.3	6305.6	6945.0	7009.1	7161.4	6502.0
55°	4042.7	4100.8	4553.8	5163.1	5688.3	6231.4	6983.0	7544.2	7602.4	7698.6	6940.9
57.5°	3493.5	3557.7	4108.8	4904.6	5796.5	6722.5	7610.4	8181.6	8221.7	8247.8	7343.8
60°	3018.5	3078.6	3645.9	4409.5	5688.3	7069.2	8193.6	8815.0	8849.1	8778.9	7546.3
62.5°	2435.2	2495.4	3066.6	3754.1	5263.3	7139.4	8626.6	9378.2	9392.2	9201.8	7422.0
65°	1836.0	1876.0	2353.1	2942.3	4519.7	6766.6	8724.8	9729.0	9714.9	9324.1	7049.2
66°	1645.5	1679.6	2100.5	2601.6	4132.9	6425.8	8592.5	9757.0	9743.0	9233.9	6804.7
67.5°	1419.1	1429.1	1775.8	2128.6	3457.4	5702.3	8189.6	9628.7	9640.8	8985.4	6357.7
70°	1108.4	1106.4	1306.8	1481.2	2361.1	4056.7	6830.7	8821.0	8879.1	8047.3	5421.7
72.5°	709.5	685.5	801.7	906.0	1375.0	2355.1	4980.7	7189.5	7287.7	6321.6	4038.7
75°	422.9	398.9	426.9	453.0	659.4	1132.4	2928.3	4892.5	4986.7	4052.7	2403.2
77.5°	316.7	306.7	308.7	286.6	292.6	424.9	1336.9	2585.6	2653.7	1659.6	912.0
80°	242.5	216.5	202.4	212.5	192.4	168.4	497.1	889.9	932.0	392.8	190.4
82.5°	162.3	140.3	130.3	142.3	122.3	94.2	120.3	172.4	168.4	106.2	74.2
85°	84.2	72.2	72.2	72.2	62.1	46.1	52.1	70.2	70.2	56.1	44.1
87.5°	24.1	22.0	26.1	24.1	18.0	18.0	20.0	24.1	24.1	22.0	20.0
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°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	897.9	889.9	867.9	851.8	835.8	821.8	805.7	801.7	793.7	795.7	791.7
5°	903.9	881.9	843.8	807.7	779.7	755.6	725.6	713.5	697.5	691.5	687.5
7.5°	912.0	879.9	823.8	773.7	725.6	677.5	629.4	601.3	583.3	575.2	569.2
10°	930.0	887.9	813.8	735.6	653.4	585.3	537.2	517.1	505.1	503.1	501.1
12.5°	954.1	899.9	803.7	687.5	579.2	515.1	485.0	479.0	477.0	477.0	475.0
15°	990.1	920.0	787.7	631.4	521.1	477.0	463.0	453.0	449.0	449.0	449.0
17.5°	1026.2	944.0	763.6	573.2	481.0	453.0	438.9	432.9	428.9	430.9	428.9
20°	1072.3	972.1	731.6	523.1	455.0	432.9	418.9	412.9	410.9	410.9	410.9
22.5°	1124.4	1004.2	691.5	485.0	432.9	412.9	398.9	392.8	388.8	390.8	390.8
25°	1194.6	1044.2	649.4	447.0	410.9	392.8	376.8	368.8	368.8	370.8	372.8
27.5°	1284.8	1092.4	607.3	422.9	390.8	372.8	354.8	346.7	348.8	352.8	352.8
30°	1417.1	1158.5	565.2	396.9	368.8	348.8	332.7	324.7	328.7	336.7	336.7
32.5°	1605.5	1266.7	529.1	366.8	336.7	314.7	298.6	292.6	302.7	318.7	318.7
35°	1942.2	1465.2	507.1	336.7	302.7	276.6	256.6	250.5	264.6	284.6	284.6
37.5°	2393.2	1783.8	515.1	310.7	274.6	244.5	222.5	214.5	224.5	242.5	248.5
40°	2896.2	2168.7	585.3	288.6	248.5	218.5	196.4	188.4	194.4	202.4	204.4
42.5°	3399.3	2577.6	717.5	272.6	228.5	196.4	176.4	170.4	174.4	176.4	178.4
45°	3900.4	2982.4	883.9	262.6	210.5	178.4	158.3	158.3	160.3	160.3	160.3
47.5°	4375.4	3377.3	1058.3	260.6	194.4	160.3	144.3	146.3	146.3	148.3	148.3
50°	4824.4	3730.0	1234.7	266.6	180.4	144.3	132.3	132.3	132.3	134.3	132.3
52.5°	5199.2	4038.7	1419.1	276.6	166.4	132.3	120.3	120.3	120.3	122.3	120.3
55°	5554.0	4319.3	1607.5	290.6	154.3	122.3	110.2	106.2	106.2	108.2	106.2
57.5°	5842.6	4505.7	1785.8	292.6	144.3	112.2	102.2	96.2	96.2	96.2	96.2
60°	5854.6	4397.5	1838.0	256.6	132.3	102.2	92.2	84.2	86.2	86.2	86.2
62.5°	5471.8	3828.2	1477.2	192.4	118.3	92.2	84.2	76.2	76.2	76.2	76.2
65°	4720.2	2978.4	865.9	152.3	102.2	82.2	74.2	68.1	68.1	68.1	66.1
66°	4367.4	2611.6	663.4	138.3	96.2	80.2	72.2	66.1	64.1	62.1	62.1
67.5°	3792.2	2064.4	414.9	122.3	88.2	74.2	66.1	60.1	58.1	56.1	56.1
70°	2856.2	1310.8	202.4	94.2	76.2	64.1	58.1	52.1	50.1	48.1	46.1
72.5°	2004.3	767.7	106.2	72.2	62.1	56.1	50.1	44.1	42.1	40.1	40.1
75°	1132.4	370.8	70.2	52.1	50.1	46.1	42.1	36.1	34.1	34.1	34.1
77.5°	428.9	128.3	48.1	38.1	40.1	36.1	30.1	30.1	28.1	30.1	28.1
80°	112.2	56.1	30.1	28.1	30.1	26.1	22.0	24.1	24.1	24.1	24.1
82.5°	60.1	32.1	18.0	20.0	18.0	18.0	14.0	16.0	18.0	16.0	18.0
85°	42.1	16.0	10.0	10.0	8.0	8.0	6.0	8.0	10.0	8.0	8.0
87.5°	22.0	6.0	6.0	6.0	6.0	4.0	2.0	0.0	2.0	2.0	2.0
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)