

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: P1210650

Luminaire Tested: **ARCH3-190-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210650
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: ARCH3-190-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

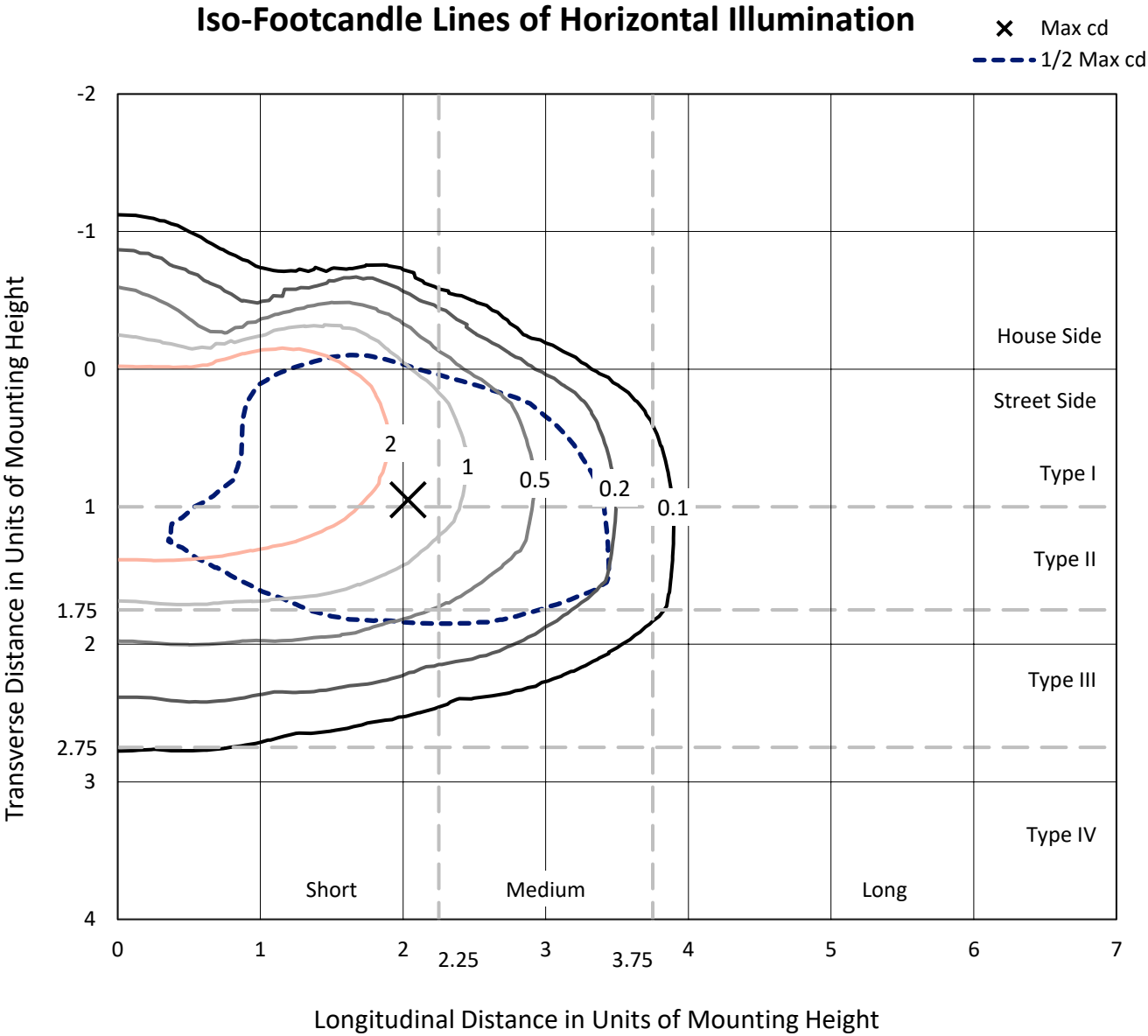
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16378 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.4
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

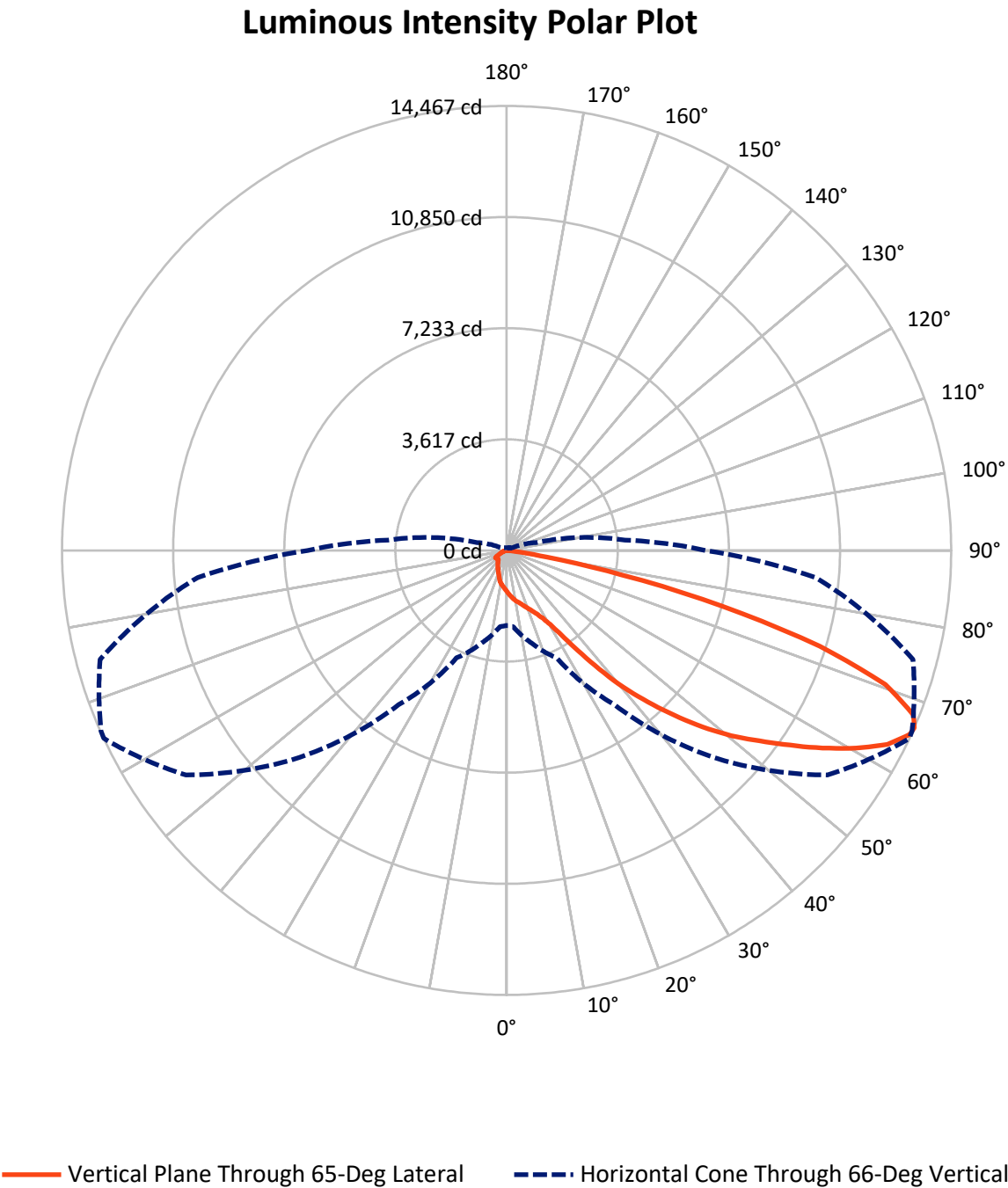


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Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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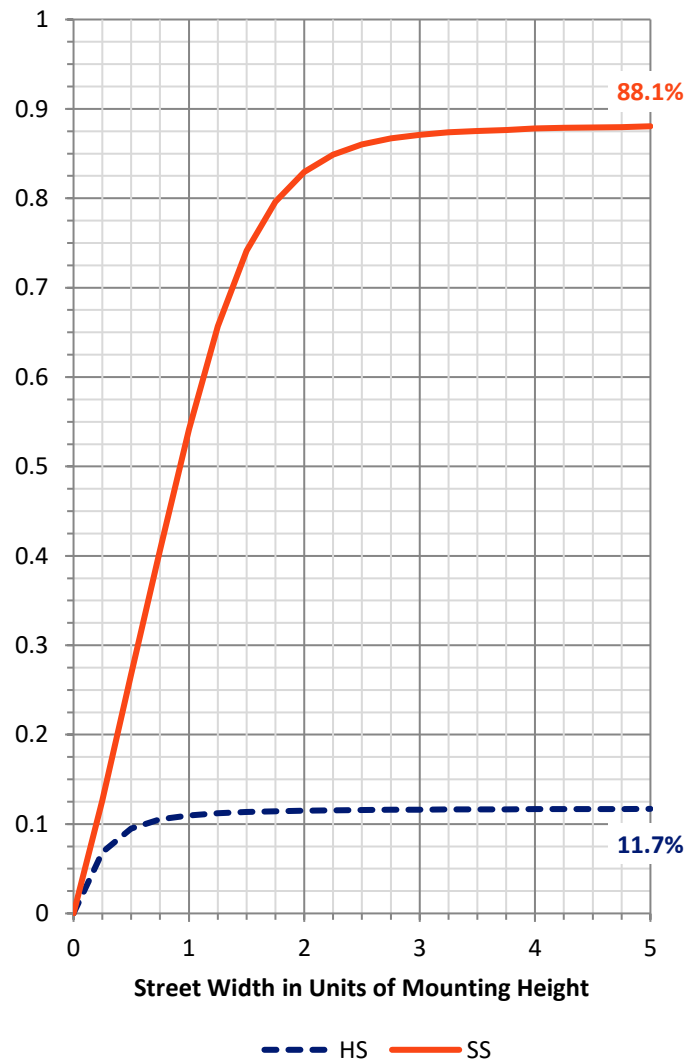
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1932.9	0.0	1932.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14445.1	0.0	14445.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	16378.0	0.0	16378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	0.8
10°-20°	374.5	2.3
20°-30°	685.4	4.2
30°-40°	1392.7	8.5
40°-50°	2941.0	18.0
50°-60°	4521.3	27.6
60°-70°	4551.1	27.8
70°-80°	1700.5	10.4
80°-90°	85.0	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°	16378.0	100.0
0°-180°	16378.0	100.0

Coefficient of Utilization



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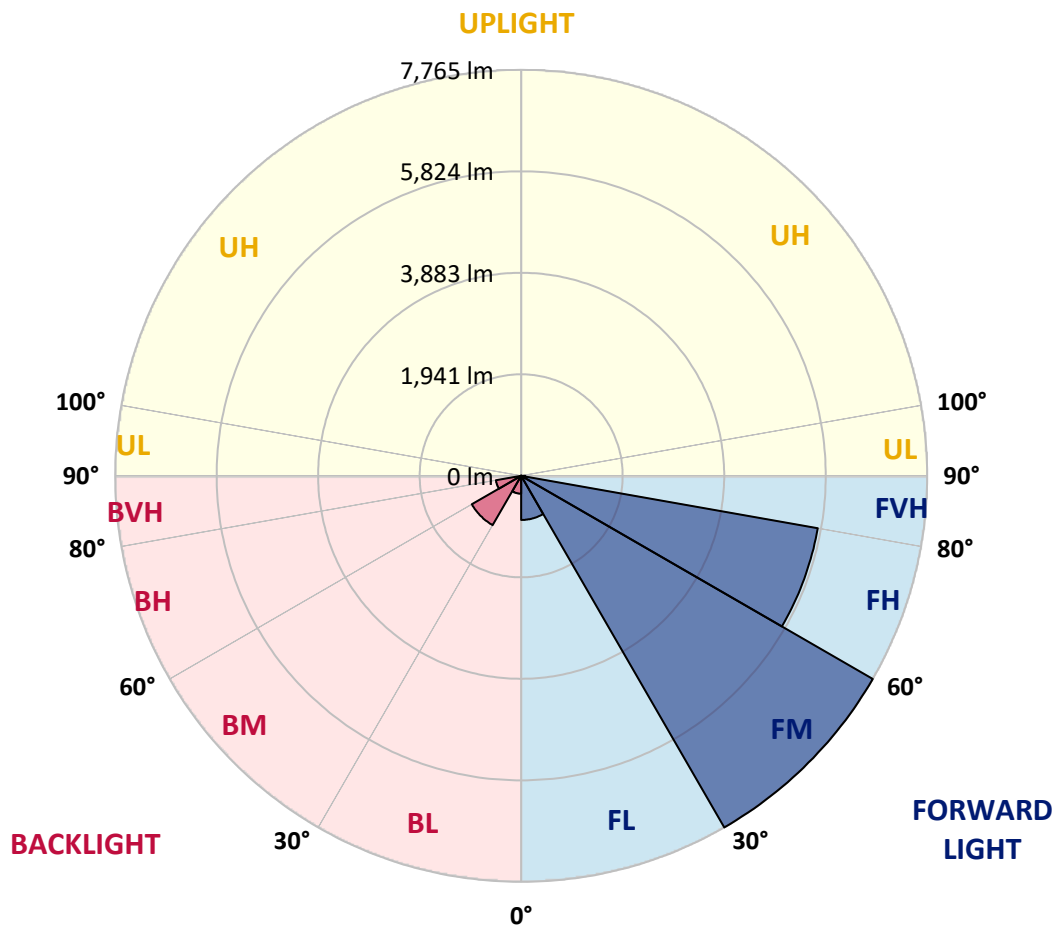
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	844.3	5.2			
FM	(30°-60°)	7765.3	47.4			
FH	(60°-80°)	5760.5	35.2			G3/7500
FVH	(80°-90°)	75.0	0.5			G1/100
BL	(0°-30°)	342.1	2.1	B1/500		
BM	(30°-60°)	1089.8	6.7	B2/2500		
BH	(60°-80°)	491.0	3.0	B1/500		G1/500
BVH	(80°-90°)	10.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3
2.5°	1521.6	1524.5	1518.6	1506.7	1494.8	1480.0	1456.2	1417.6	1411.6	1384.9	1355.1
5°	1625.6	1631.5	1622.6	1619.6	1613.7	1592.9	1560.2	1503.7	1497.8	1444.3	1376.0
7.5°	1661.2	1670.2	1664.2	1664.2	1664.2	1655.3	1640.4	1589.9	1581.0	1512.7	1408.6
10°	1688.0	1693.9	1691.0	1702.9	1711.8	1705.8	1696.9	1667.2	1658.3	1589.9	1453.2
12.5°	1729.6	1732.6	1735.5	1741.5	1756.3	1762.3	1759.3	1732.6	1726.6	1679.1	1509.7
15°	1768.2	1768.2	1771.2	1797.9	1818.8	1830.6	1833.6	1812.8	1806.9	1768.2	1581.0
17.5°	1803.9	1806.9	1815.8	1845.5	1881.2	1904.9	1919.8	1910.9	1902.0	1872.2	1664.2
20°	1857.4	1863.3	1872.2	1913.9	1949.5	1988.1	2017.9	2014.9	2011.9	1991.1	1762.3
22.5°	1949.5	1955.5	1970.3	2008.9	2044.6	2092.2	2142.7	2139.7	2130.8	2115.9	1878.2
25°	2089.2	2089.2	2098.1	2130.8	2175.4	2231.8	2279.4	2288.3	2279.4	2270.5	2023.8
27.5°	2264.5	2267.5	2267.5	2303.2	2344.8	2416.1	2475.5	2484.4	2484.4	2475.5	2219.9
30°	2508.2	2499.3	2493.4	2523.1	2567.7	2671.7	2775.7	2793.5	2784.6	2799.5	2496.3
32.5°	2927.2	2912.4	2861.9	2867.8	2894.6	3037.2	3212.5	3274.9	3272.0	3298.7	2942.1
35°	3506.7	3477.0	3402.7	3340.3	3337.4	3491.9	3759.3	3994.1	3991.2	4083.3	3619.7
37.5°	4160.5	4199.2	4059.5	3952.5	3919.8	4041.7	4386.4	4894.6	4921.3	5081.8	4508.2
40°	5034.3	5058.0	4879.7	4728.2	4573.6	4618.2	5072.9	5863.4	5910.9	6089.3	5396.8
42.5°	5795.0	5818.8	5714.8	5530.6	5334.4	5251.2	5765.3	6743.1	6781.7	7028.3	6312.1
45°	6312.1	6330.0	6365.6	6383.5	6160.6	5988.2	6612.3	7646.5	7694.0	7979.3	7206.7
47.5°	6716.3	6731.2	6802.5	6980.8	6936.2	6799.5	7474.1	8585.6	8597.5	8915.5	8077.4
50°	6903.5	6939.2	7114.5	7387.9	7584.1	7622.7	8410.2	9474.2	9506.8	9810.0	8900.6
52.5°	6695.5	6707.4	7150.2	7664.3	8059.6	8451.8	9349.3	10297.3	10392.4	10618.3	9640.6
55°	5994.2	6080.3	6752.0	7655.4	8434.0	9239.4	10353.8	11185.9	11272.1	11414.8	10291.4
57.5°	5179.9	5275.0	6092.2	7272.0	8594.5	9967.5	11284.0	12131.0	12190.4	12229.0	10888.7
60°	4475.6	4564.7	5405.7	6538.0	8434.0	10481.6	12148.8	13070.1	13120.6	13016.6	11188.9
62.5°	3610.8	3699.9	4546.9	5566.2	7804.0	10585.6	12790.7	13905.1	13925.9	13643.6	11004.6
65°	2722.2	2781.6	3488.9	4362.6	6701.4	10032.9	12936.3	14425.2	14404.4	13824.9	10451.9
66°	2439.9	2490.4	3114.5	3857.4	6127.9	9527.6	12740.2	14466.8	14446.0	13691.2	10089.3
67.5°	2104.0	2118.9	2633.0	3156.1	5126.4	8454.8	12142.8	14276.6	14294.4	13322.7	9426.6
70°	1643.4	1640.4	1937.6	2196.2	3500.8	6015.0	10128.0	13079.0	13165.2	11931.8	8038.8
72.5°	1052.0	1016.4	1188.7	1343.3	2038.7	3491.9	7385.0	10659.9	10805.5	9373.1	5988.2
75°	627.1	591.4	633.0	671.6	977.7	1679.1	4341.8	7254.2	7393.9	6009.0	3563.2
77.5°	469.5	454.7	457.7	425.0	433.9	630.0	1982.2	3833.6	3934.7	2460.7	1352.2
80°	359.6	321.0	300.2	315.0	285.3	249.6	737.0	1319.5	1381.9	582.5	282.3
82.5°	240.7	208.0	193.2	211.0	181.3	139.7	178.3	255.6	249.6	157.5	110.0
85°	124.8	107.0	107.0	107.0	92.1	68.4	77.3	104.0	104.0	83.2	65.4
87.5°	35.7	32.7	38.6	35.7	26.7	26.7	29.7	35.7	35.7	32.7	29.7
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°	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3
2.5°	1331.4	1319.5	1286.8	1263.0	1239.2	1218.4	1194.7	1188.7	1176.8	1179.8	1173.9
5°	1340.3	1307.6	1251.1	1197.6	1156.0	1120.4	1075.8	1058.0	1034.2	1025.3	1019.3
7.5°	1352.2	1304.6	1221.4	1147.1	1075.8	1004.5	933.2	891.5	864.8	852.9	844.0
10°	1378.9	1316.5	1206.6	1090.7	968.8	867.8	796.4	766.7	748.9	745.9	743.0
12.5°	1414.6	1334.3	1191.7	1019.3	858.9	763.8	719.2	710.3	707.3	707.3	704.3
15°	1468.1	1364.1	1167.9	936.1	772.7	707.3	686.5	671.6	665.7	665.7	665.7
17.5°	1521.6	1399.7	1132.3	849.9	713.2	671.6	650.8	641.9	636.0	638.9	636.0
20°	1589.9	1441.3	1084.7	775.6	674.6	641.9	621.1	612.2	609.2	609.2	609.2
22.5°	1667.2	1488.9	1025.3	719.2	641.9	612.2	591.4	582.5	576.5	579.5	579.5
25°	1771.2	1548.3	962.9	662.7	609.2	582.5	558.7	546.8	546.8	549.8	552.8
27.5°	1904.9	1619.6	900.5	627.1	579.5	552.8	526.0	514.1	517.1	523.0	523.0
30°	2101.1	1717.7	838.1	588.4	546.8	517.1	493.3	481.4	487.4	499.3	499.3
32.5°	2380.4	1878.2	784.6	543.8	499.3	466.6	442.8	433.9	448.7	472.5	472.5
35°	2879.7	2172.4	751.9	499.3	448.7	410.1	380.4	371.5	392.3	422.0	422.0
37.5°	3548.4	2644.9	763.8	460.6	407.1	362.6	329.9	318.0	332.8	359.6	368.5
40°	4294.3	3215.5	867.8	427.9	368.5	323.9	291.2	279.4	288.3	300.2	303.1
42.5°	5040.2	3821.8	1063.9	404.2	338.8	291.2	261.5	252.6	258.5	261.5	264.5
45°	5783.2	4422.1	1310.6	389.3	312.0	264.5	234.8	234.8	237.7	237.7	237.7
47.5°	6487.5	5007.5	1569.1	386.3	288.3	237.7	214.0	216.9	216.9	219.9	219.9
50°	7153.2	5530.6	1830.6	395.3	267.5	214.0	196.1	196.1	196.1	199.1	196.1
52.5°	7708.9	5988.2	2104.0	410.1	246.7	196.1	178.3	178.3	178.3	181.3	178.3
55°	8234.9	6404.3	2383.4	430.9	228.8	181.3	163.4	157.5	157.5	160.5	157.5
57.5°	8662.8	6680.6	2647.9	433.9	214.0	166.4	151.6	142.6	142.6	142.6	142.6
60°	8680.7	6520.2	2725.2	380.4	196.1	151.6	136.7	124.8	127.8	127.8	127.8
62.5°	8113.1	5676.2	2190.2	285.3	175.3	136.7	124.8	112.9	112.9	112.9	112.9
65°	6998.6	4416.1	1283.8	225.9	151.6	121.8	110.0	101.0	101.0	101.0	98.1
66°	6475.6	3872.3	983.7	205.1	142.6	118.9	107.0	98.1	95.1	92.1	92.1
67.5°	5622.7	3061.0	615.2	181.3	130.8	110.0	98.1	89.2	86.2	83.2	83.2
70°	4234.8	1943.6	300.2	139.7	112.9	95.1	86.2	77.3	74.3	71.3	68.4
72.5°	2971.8	1138.2	157.5	107.0	92.1	83.2	74.3	65.4	62.4	59.4	59.4
75°	1679.1	549.8	104.0	77.3	74.3	68.4	62.4	53.5	50.5	50.5	50.5
77.5°	636.0	190.2	71.3	56.5	59.4	53.5	44.6	44.6	41.6	44.6	41.6
80°	166.4	83.2	44.6	41.6	44.6	38.6	32.7	35.7	35.7	35.7	35.7
82.5°	89.2	47.5	26.7	29.7	26.7	26.7	20.8	23.8	26.7	23.8	26.7
85°	62.4	23.8	14.9	14.9	11.9	11.9	8.9	11.9	14.9	11.9	11.9
87.5°	32.7	8.9	8.9	8.9	8.9	5.9	3.0	0.0	3.0	3.0	3.0
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)