

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461739

Luminaire Tested: USSL-110-8540-U-T3RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461739
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T3RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE III ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10283.9 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.87%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

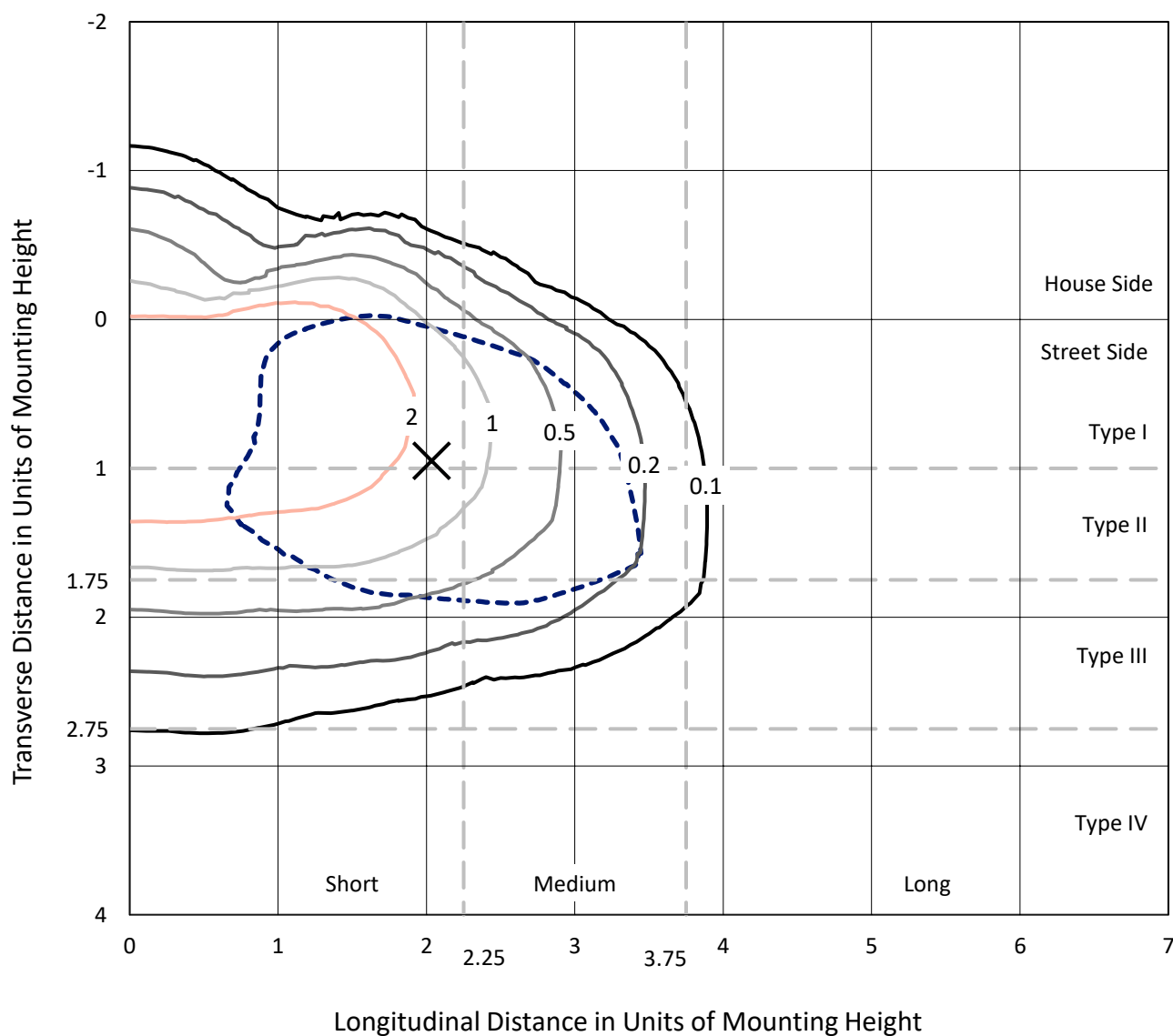
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

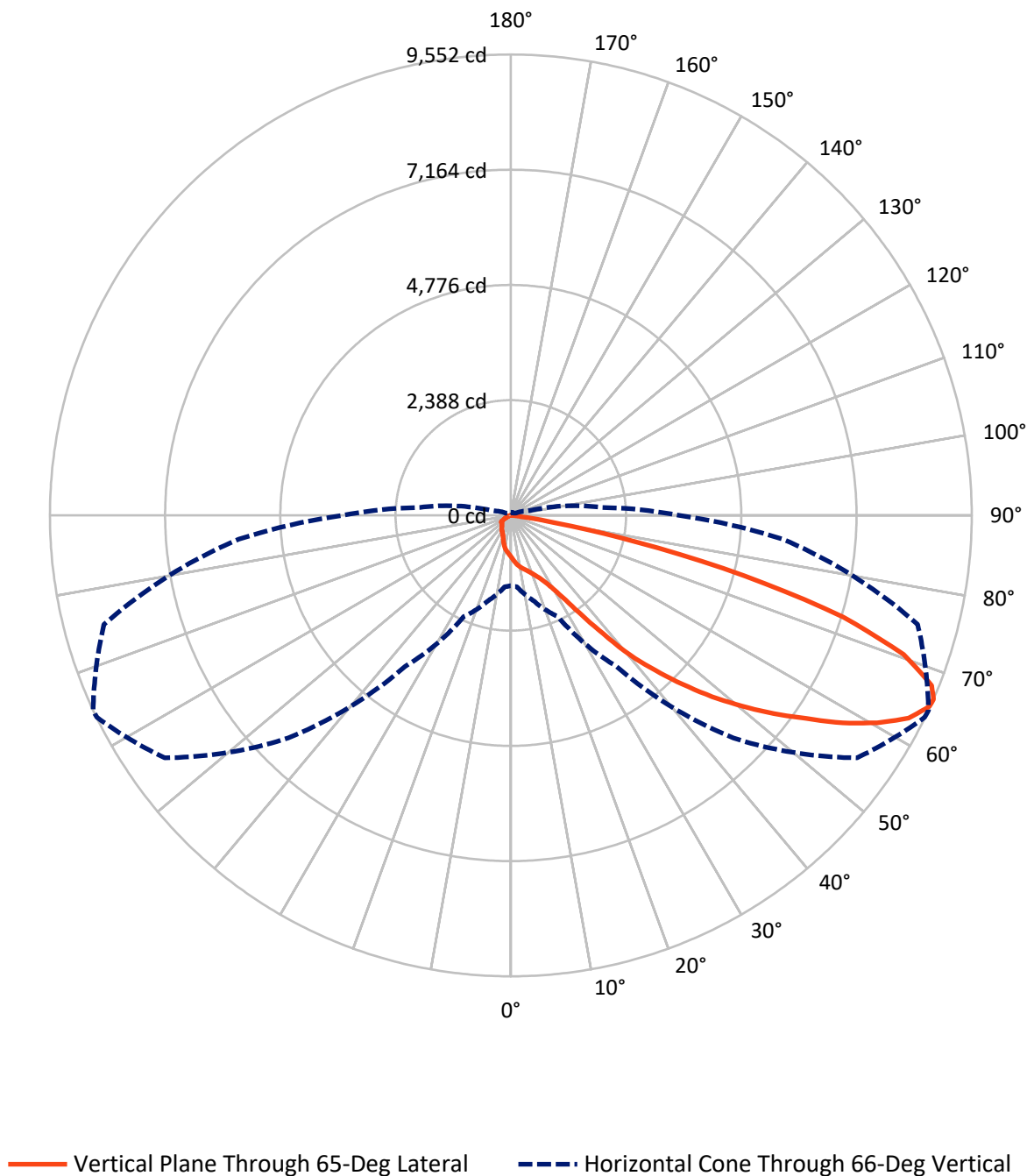


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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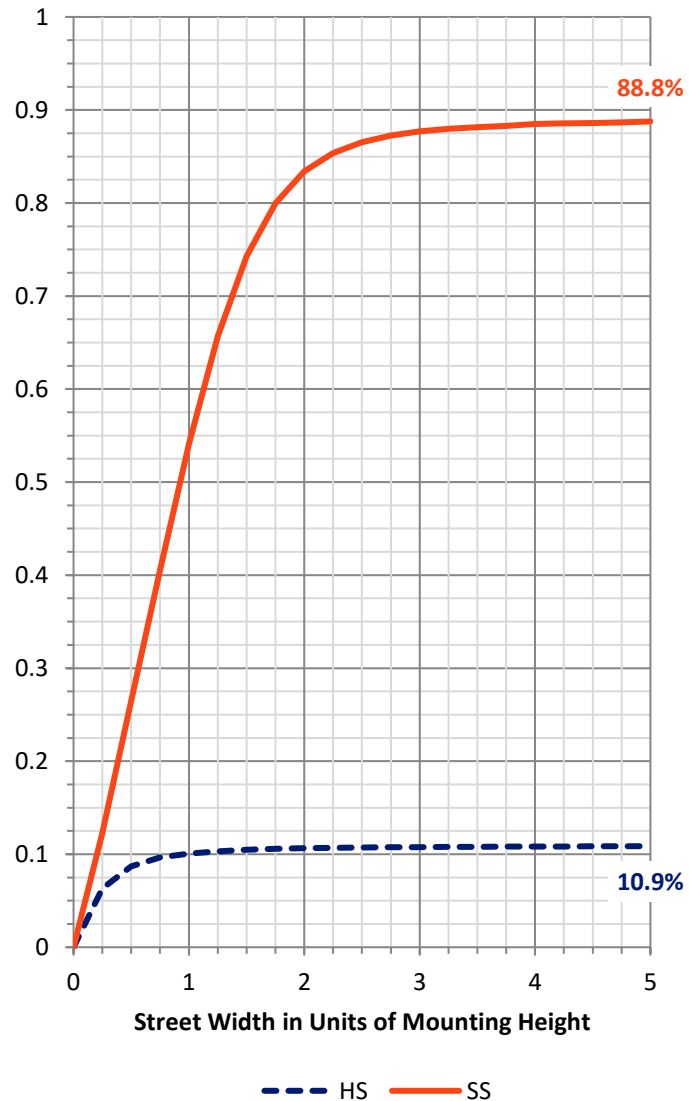
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.5	0.0	1127.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	9156.4	0.0	9156.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	10283.9	0.0	10283.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	0.8
10°-20°	240.2	2.3
20°-30°	437.7	4.3
30°-40°	868.5	8.4
40°-50°	1802.3	17.5
50°-60°	2808.1	27.3
60°-70°	2859.8	27.8
70°-80°	1110.6	10.8
80°-90°	75.4	0.7
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°	10283.9	100.0
0°-180°	10283.9	100.0

Coefficient of Utilization



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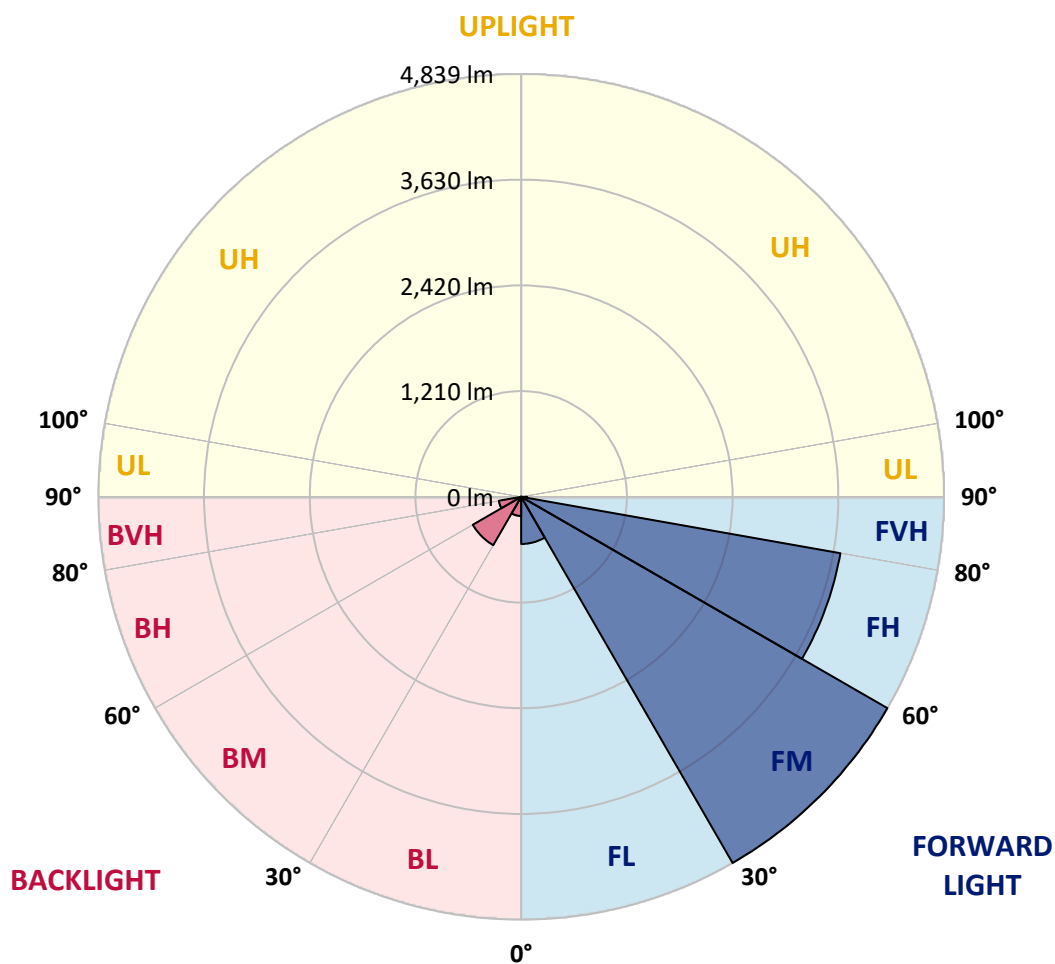
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.6	5.2			
FM	(30°-60°)	4839.5	47.1			
FH	(60°-80°)	3710.3	36.1			G2/5000
FVH	(80°-90°)	67.0	0.7			G1/100
BL	(0°-30°)	219.6	2.1	B1/500		
BM	(30°-60°)	639.5	6.2	B1/1000		
BH	(60°-80°)	260.0	2.5	B1/500		G1/500
BVH	(80°-90°)	8.4	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°	64°	65°	75°	85°
0°	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1
2.5°	994.1	990.6	987.1	980.9	967.6	955.8	935.5	916.0	917.4	892.3	870.7
5°	1060.3	1056.8	1056.2	1054.1	1048.5	1035.2	1012.9	983.7	981.6	936.9	888.8
7.5°	1073.6	1071.5	1072.2	1071.5	1073.6	1071.5	1067.3	1038.0	1039.4	987.8	912.5
10°	1088.2	1083.3	1087.5	1091.0	1094.5	1098.0	1095.9	1086.1	1088.2	1037.3	943.9
12.5°	1107.0	1102.9	1108.4	1114.7	1122.4	1129.4	1132.1	1123.8	1130.7	1095.2	984.3
15°	1125.9	1122.4	1130.7	1141.9	1156.5	1167.7	1171.9	1169.1	1173.3	1154.4	1029.7
17.5°	1148.2	1144.7	1156.5	1174.7	1194.2	1214.4	1222.8	1221.4	1226.9	1218.6	1080.6
20°	1176.8	1173.3	1190.0	1215.8	1246.5	1271.6	1288.3	1283.4	1289.0	1288.3	1146.8
22.5°	1225.6	1222.1	1239.5	1268.8	1310.6	1344.8	1365.0	1360.1	1367.1	1366.4	1217.2
25°	1302.2	1299.5	1321.1	1350.3	1388.0	1436.8	1464.0	1457.0	1463.3	1462.6	1311.3
27.5°	1412.4	1411.7	1420.1	1448.6	1491.9	1549.0	1595.7	1586.0	1597.1	1599.2	1424.9
30°	1574.1	1561.6	1552.5	1569.2	1615.3	1699.6	1767.9	1783.3	1796.5	1807.7	1610.4
32.5°	1846.7	1813.2	1784.0	1740.0	1760.3	1873.9	2006.3	2083.0	2089.3	2147.2	1889.2
35°	2210.6	2175.7	2104.6	2026.6	1991.0	2099.1	2332.6	2519.4	2538.9	2662.3	2297.7
37.5°	2602.4	2584.3	2482.5	2386.3	2325.6	2410.7	2728.6	3115.5	3109.2	3268.8	2766.9
40°	3099.4	3088.3	2981.6	2823.4	2691.6	2773.2	3201.9	3721.3	3807.0	3876.0	3300.2
42.5°	3479.4	3446.6	3388.7	3326.7	3164.3	3170.5	3698.3	4333.4	4387.0	4491.6	3821.7
45°	3713.6	3698.3	3735.2	3773.6	3699.0	3639.7	4251.8	4949.6	4988.0	5130.2	4333.4
47.5°	3917.2	3915.8	3964.6	4117.3	4154.9	4193.2	4869.5	5550.5	5614.7	5769.4	4800.4
50°	4026.6	4038.5	4168.1	4384.9	4543.9	4752.3	5535.9	6177.3	6206.5	6344.6	5250.8
52.5°	3956.9	3976.4	4238.6	4580.8	4851.3	5284.9	6196.8	6789.3	6823.5	6913.4	5640.5
55°	3689.9	3701.8	4082.4	4631.0	5117.6	5886.6	6857.0	7388.2	7425.1	7452.3	6037.8
57.5°	3188.0	3223.5	3735.9	4436.5	5305.2	6406.6	7538.1	8069.3	8113.2	7991.9	6371.8
60°	2723.0	2756.5	3273.7	3987.6	5250.8	6854.2	8189.2	8715.5	8724.6	8470.8	6474.9
62.5°	2159.7	2206.4	2716.7	3374.8	4894.6	7076.6	8643.7	9233.5	9251.6	8776.9	6300.7
65°	1589.5	1640.3	2072.6	2610.1	4192.5	6845.1	8830.5	9531.9	9536.7	8802.7	5891.4
66°	1455.6	1486.3	1832.1	2315.9	3821.0	6523.0	8758.7	9542.3	9552.1	8728.1	5657.9
67.5°	1307.8	1332.2	1601.3	1871.1	3162.2	5846.8	8343.3	9389.6	9406.4	8418.5	5292.6
70°	1022.0	1045.7	1244.4	1380.3	2170.9	4103.3	7124.0	8570.5	8637.4	7442.6	4497.2
72.5°	692.3	710.4	818.4	884.0	1303.6	2284.5	5337.9	7106.5	7206.9	5759.7	3308.6
75°	419.0	427.3	449.0	494.3	651.8	1096.6	3187.3	4929.4	5006.1	3656.4	1961.0
77.5°	305.3	302.6	309.5	308.8	324.2	428.7	1506.5	2667.2	2677.0	1617.3	827.5
80°	240.5	228.0	231.4	231.4	216.8	198.0	471.3	817.0	904.9	469.9	244.7
82.5°	191.7	182.6	184.7	180.6	159.6	131.8	147.8	212.6	212.6	140.1	83.7
85°	137.3	128.3	133.2	134.5	101.8	96.2	85.0	95.5	96.2	75.3	64.1
87.5°	68.3	69.0	73.9	81.6	66.9	54.4	45.3	46.0	47.4	41.8	36.9
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°	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1
2.5°	858.9	848.4	828.9	813.6	794.7	781.5	769.6	759.2	757.1	752.9	748.7
5°	865.8	845.6	808.7	774.5	740.4	711.8	686.7	665.1	653.9	640.0	638.6
7.5°	877.0	847.7	791.9	739.0	682.5	631.6	586.3	560.5	541.7	534.7	531.9
10°	895.8	855.4	779.4	695.0	607.2	541.7	506.1	483.1	474.7	473.4	473.4
12.5°	922.3	870.0	764.8	642.8	539.6	480.3	456.6	454.5	454.5	455.2	453.8
15°	953.7	889.5	742.4	585.6	482.4	445.5	439.9	438.5	437.8	438.5	439.2
17.5°	987.1	908.4	714.6	529.8	442.7	429.4	425.2	423.2	423.9	424.6	423.2
20°	1030.4	932.8	676.9	476.8	424.6	414.8	409.9	408.5	408.5	409.2	409.2
22.5°	1079.2	956.5	631.6	438.5	409.9	400.2	393.9	390.4	390.4	392.5	392.5
25°	1140.5	983.7	583.5	409.9	393.2	383.4	373.7	368.8	370.2	371.6	370.2
27.5°	1215.8	1019.9	533.3	389.7	375.1	363.9	350.7	345.1	345.8	351.4	351.4
30°	1343.4	1073.6	488.0	370.2	354.1	339.5	324.9	320.0	322.1	329.7	332.5
32.5°	1530.2	1167.0	449.6	350.0	330.4	309.5	294.9	289.3	296.3	308.8	309.5
35°	1846.0	1341.3	426.6	327.7	302.6	279.5	260.7	254.5	264.2	274.7	276.8
37.5°	2216.9	1587.4	434.3	307.4	276.8	251.0	230.8	223.8	227.3	237.7	237.7
40°	2633.1	1879.5	489.4	288.6	253.1	225.2	205.0	198.0	199.4	202.2	205.0
42.5°	3016.5	2184.1	584.2	271.2	232.1	201.5	184.7	177.1	177.8	178.5	178.5
45°	3439.6	2497.8	697.8	257.9	212.6	182.6	165.9	162.4	162.4	163.1	163.8
47.5°	3809.1	2789.2	821.9	250.3	194.5	164.5	151.3	149.9	149.9	151.3	152.0
50°	4165.4	3067.4	948.1	245.4	177.1	149.2	138.7	137.3	138.7	140.8	141.5
52.5°	4477.7	3334.4	1089.6	243.3	161.7	136.6	127.6	125.5	126.2	128.3	129.0
55°	4775.3	3598.6	1252.7	242.6	145.7	124.1	115.7	112.9	113.6	115.0	114.3
57.5°	5006.1	3725.5	1350.3	223.1	132.5	112.2	103.9	99.0	100.4	100.4	101.8
60°	4967.1	3577.0	1240.2	182.0	118.5	99.0	91.3	86.4	88.5	88.5	89.9
62.5°	4504.2	2986.5	884.7	145.0	103.9	87.1	80.2	76.7	78.1	78.8	78.1
65°	3792.4	2191.1	471.3	117.1	88.5	75.3	70.4	66.9	68.3	67.6	67.6
66°	3484.3	1892.0	357.6	109.4	82.3	71.8	66.9	64.1	64.1	63.4	62.7
67.5°	3021.4	1514.2	227.3	97.6	73.9	67.6	62.0	58.6	57.9	57.2	57.2
70°	2246.2	1005.3	126.2	76.7	62.7	58.6	54.4	50.2	48.8	48.1	48.8
72.5°	1614.6	659.5	85.0	59.3	53.7	51.6	46.7	41.8	41.1	41.8	41.8
75°	949.5	356.9	62.7	43.9	43.9	43.9	39.7	34.9	34.9	38.3	38.3
77.5°	444.1	168.7	47.4	35.6	35.6	37.6	32.8	29.3	31.4	35.6	36.3
80°	168.7	76.7	32.8	27.9	27.9	31.4	25.8	25.8	27.2	28.6	26.5
82.5°	71.8	42.5	23.0	20.9	21.6	23.7	20.2	20.9	21.6	13.2	15.3
85°	56.5	25.1	12.5	11.9	12.5	13.9	11.2	12.5	10.5	3.5	7.0
87.5°	30.0	11.9	6.3	5.6	4.9	4.9	4.2	5.6	4.9	2.1	2.1
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)