

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: P1461843

Luminaire Tested: USSL-110-8540-U-T4RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461843
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T4RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE IV 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: 10014.4 lumens
Efficiency: N/A
Efficacy: 90.2 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

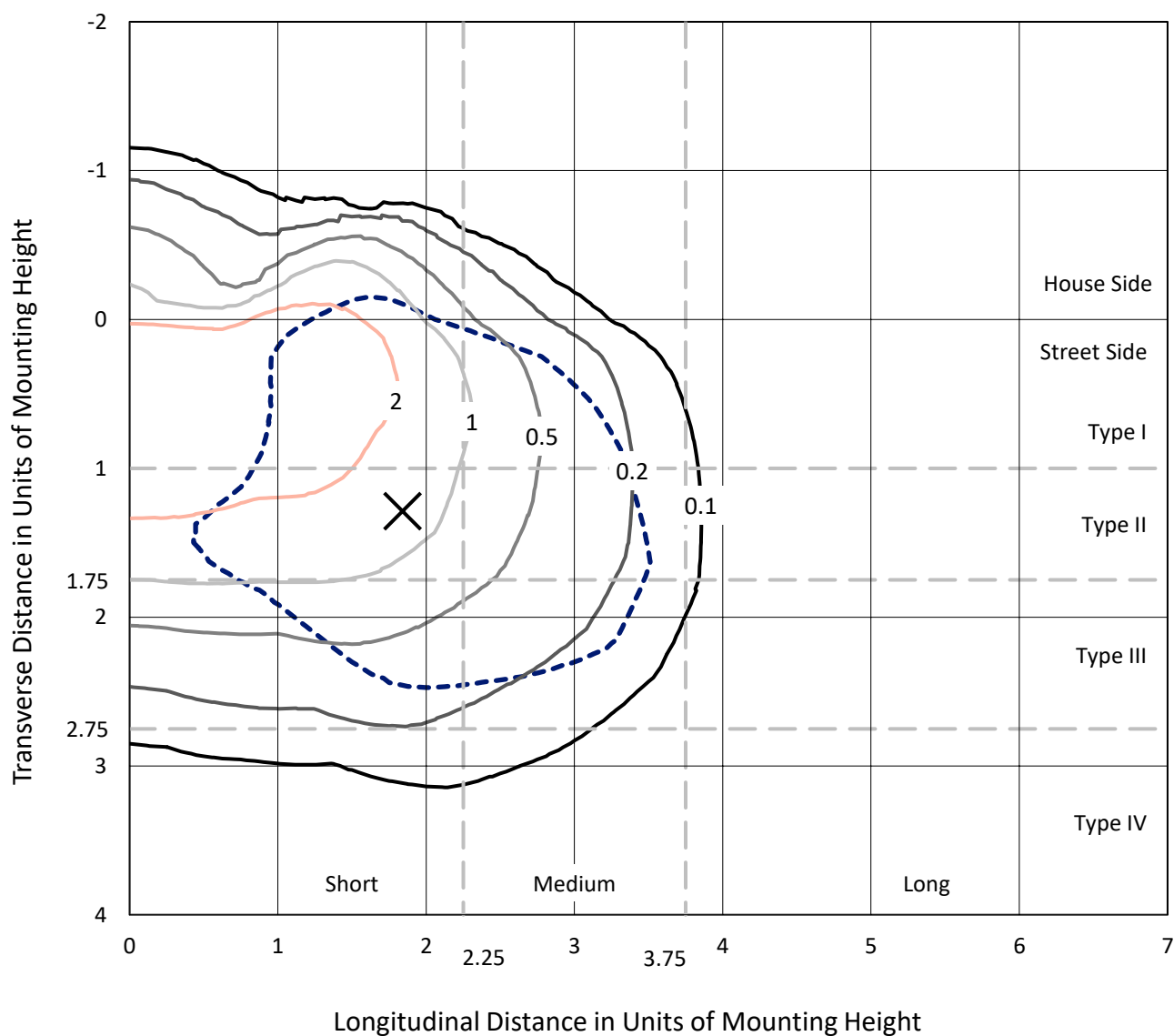
Input Watts (W): 111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.87%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

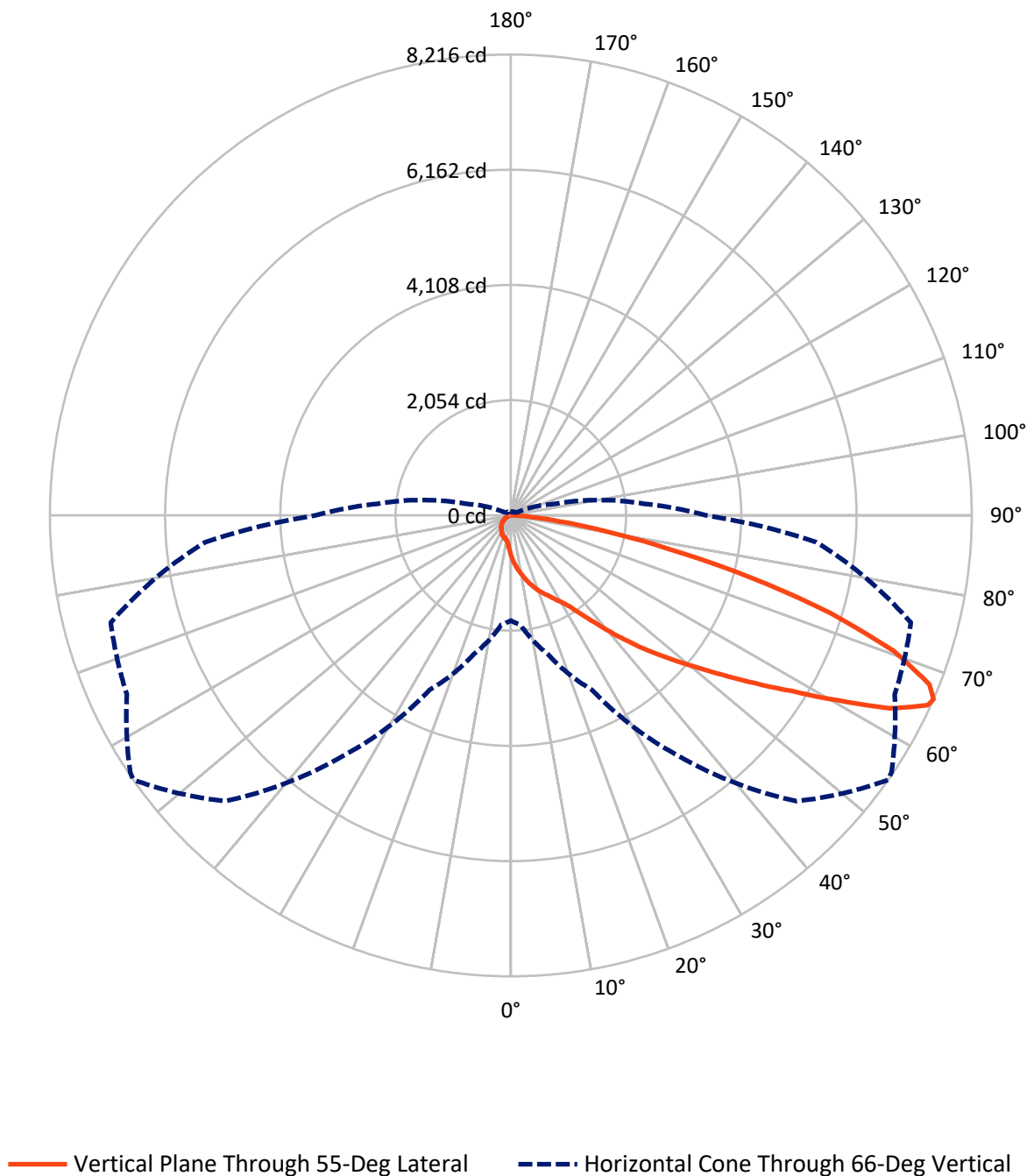


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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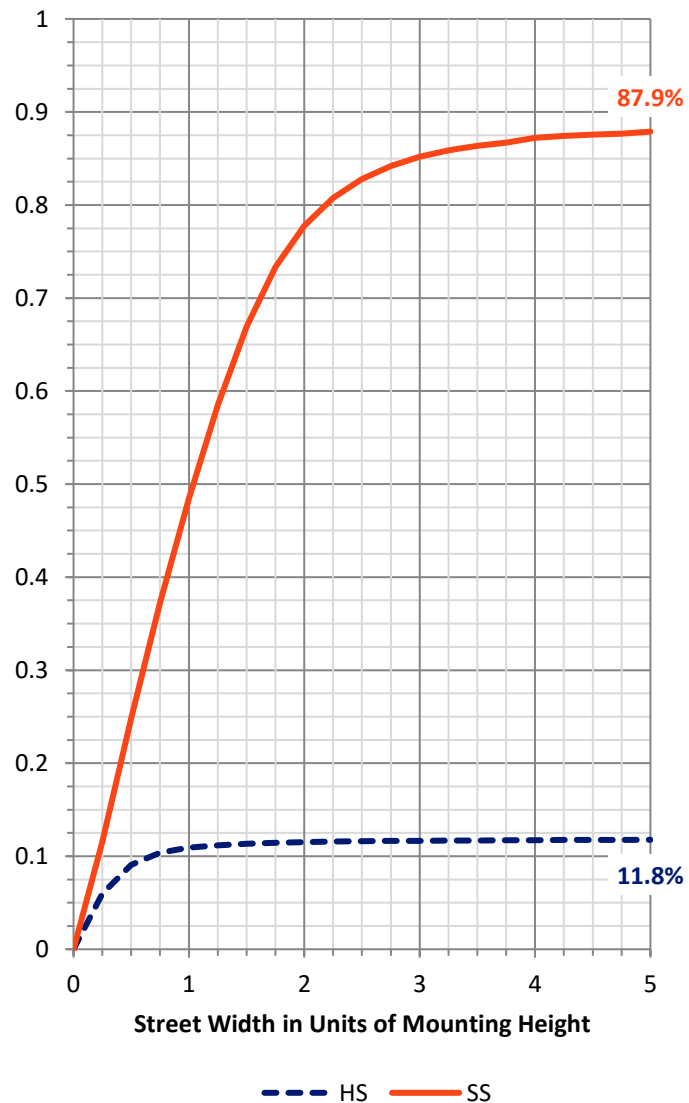
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.1	0.0	1189.1
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	8825.3	0.0	8825.3
	% Fixture	88.1	0.0	88.1
Total	Lumens	10014.4	0.0	10014.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	0.7
10°-20°	240.2	2.4
20°-30°	445.1	4.4
30°-40°	773.9	7.7
40°-50°	1496.6	14.9
50°-60°	2560.8	25.6
60°-70°	2905.0	29.0
70°-80°	1387.0	13.9
80°-90°	134.5	1.3
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°	10014.4	100.0
0°-180°	10014.4	100.0

Coefficient of Utilization



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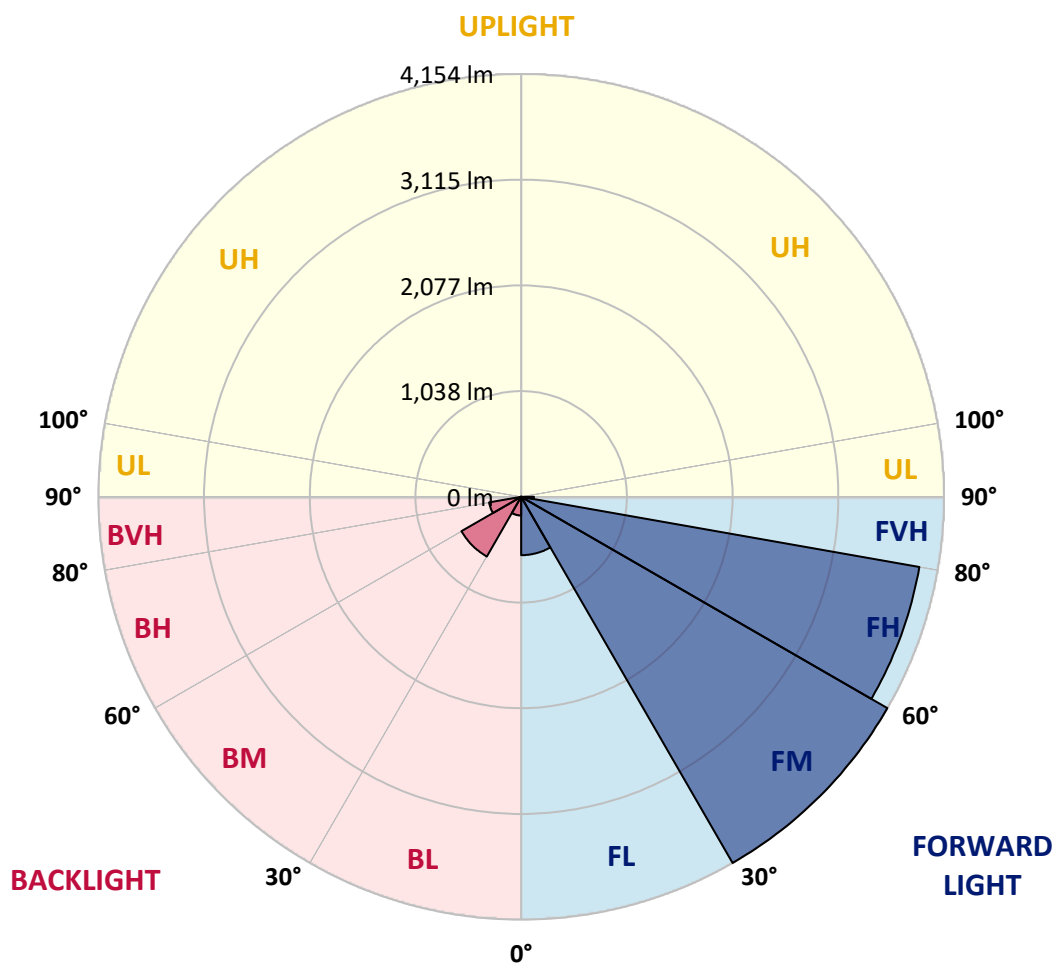
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	573.2	5.7			
FM	(30°-60°)	4154.0	41.5			
FH	(60°-80°)	3972.2	39.7			G2/5000
FVH	(80°-90°)	125.8	1.3			G2/225
BL	(0°-30°)	183.3	1.8	B1/500		
BM	(30°-60°)	677.3	6.8	B1/1000		
BH	(60°-80°)	319.8	3.2	B1/500		G1/500
BVH	(80°-90°)	8.7	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°	56°	65°	75°	85°
0°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	866.5	876.3	868.6	860.9	851.2	831.0	814.3	810.1	789.9	762.7	732.8
5°	1008.6	1010.7	1002.3	983.5	967.5	932.0	899.9	897.1	856.7	804.5	748.8
7.5°	1133.3	1134.0	1120.0	1103.3	1072.7	1035.1	987.0	977.9	920.8	849.8	765.5
10°	1249.6	1248.2	1238.5	1219.0	1183.4	1130.5	1071.3	1065.0	989.8	897.1	787.8
12.5°	1334.6	1331.8	1328.3	1308.1	1279.6	1231.5	1162.5	1152.1	1067.1	947.3	810.1
15°	1393.1	1390.3	1389.6	1380.6	1359.7	1326.9	1257.3	1249.6	1150.7	1012.8	837.9
17.5°	1431.4	1431.4	1432.8	1430.0	1420.3	1395.9	1345.7	1341.5	1244.0	1076.9	872.1
20°	1474.6	1472.5	1477.4	1478.8	1473.2	1461.4	1434.9	1428.6	1338.1	1161.8	911.1
22.5°	1531.0	1528.9	1531.0	1534.5	1534.5	1526.8	1512.9	1509.4	1447.4	1260.7	960.5
25°	1600.0	1597.9	1600.0	1603.4	1604.1	1608.3	1593.7	1594.4	1551.2	1366.6	1021.1
27.5°	1686.3	1686.3	1684.2	1685.6	1692.6	1698.2	1695.4	1694.0	1654.3	1496.9	1091.5
30°	1787.3	1783.9	1787.3	1784.5	1789.4	1793.6	1794.3	1797.1	1775.5	1632.0	1191.1
32.5°	1891.1	1890.4	1905.7	1912.0	1914.1	1930.8	1941.3	1951.0	1943.4	1816.6	1332.5
35°	2028.3	2025.6	2040.9	2061.8	2080.6	2107.0	2162.8	2153.7	2197.6	2141.9	1567.2
37.5°	2199.0	2193.4	2213.6	2240.8	2273.5	2325.8	2414.9	2418.4	2533.3	2600.2	1995.6
40°	2442.1	2433.0	2436.5	2500.6	2538.9	2599.5	2729.1	2734.6	2948.5	3125.4	2509.0
42.5°	2683.1	2676.8	2692.8	2704.0	2747.9	2888.6	3069.0	3071.1	3390.8	3663.1	3092.0
45°	2954.7	2949.9	2948.5	2951.3	2962.4	3144.9	3435.4	3461.1	3824.7	4208.5	3699.3
47.5°	3248.7	3228.5	3236.8	3230.6	3236.8	3431.2	3812.2	3819.8	4283.7	4720.5	4283.7
50°	3509.2	3508.5	3521.7	3535.0	3555.9	3800.3	4232.9	4288.6	4695.4	5226.9	4852.8
52.5°	3715.4	3714.7	3796.9	3851.2	3909.7	4231.5	4714.2	4753.9	5168.4	5756.9	5440.7
55°	3777.4	3796.2	4003.0	4201.6	4344.3	4756.7	5276.3	5292.3	5660.1	6352.5	5998.6
57.5°	3649.9	3687.5	4043.4	4427.2	4838.9	5442.1	5907.4	5888.6	6216.7	7028.1	6423.5
60°	3312.8	3362.2	3876.3	4475.3	5244.3	6216.7	6686.8	6677.8	6900.7	7610.4	6532.9
62.5°	2772.2	2846.1	3460.4	4223.8	5472.1	6900.0	7573.5	7535.2	7450.2	7829.9	6272.4
65°	2132.1	2192.0	2840.5	3683.3	5364.1	7242.7	8160.7	8139.8	7618.1	7563.1	5738.8
66°	1875.1	1955.9	2565.4	3433.3	5247.1	7203.7	8216.4	8185.1	7551.9	7382.0	5469.3
67.5°	1556.1	1642.5	2206.0	3034.8	4994.9	6924.3	8045.8	8056.9	7343.7	7001.0	4974.0
70°	1205.7	1282.3	1774.8	2472.0	4466.9	5956.2	7235.0	7297.7	6737.0	6078.0	4156.3
72.5°	800.3	868.6	1191.8	1796.4	3719.5	4685.7	5953.4	6060.6	5915.1	4871.6	3209.7
75°	430.5	464.6	650.6	1058.1	2666.4	3483.4	4405.6	4515.7	4443.3	3307.9	2010.9
77.5°	273.0	264.0	295.3	477.8	1512.2	2501.3	2892.1	2988.2	2727.7	1692.6	910.4
80°	197.1	180.4	185.3	245.9	631.8	1597.2	1697.5	1657.8	1322.0	594.8	279.3
82.5°	137.9	130.3	126.8	147.7	234.0	823.3	876.9	824.7	465.3	186.7	91.2
85°	89.9	83.6	81.5	89.2	101.7	358.7	351.1	335.7	170.0	83.6	51.5
87.5°	46.7	46.7	46.7	51.5	52.2	123.3	105.9	102.4	56.4	33.4	24.4
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°	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0
2.5°	718.1	702.8	676.3	645.7	618.5	599.7	580.2	566.3	559.3	556.5	555.8
5°	718.8	688.2	630.4	578.1	537.0	514.0	496.6	484.1	478.5	474.3	475.0
7.5°	720.9	675.0	589.3	523.8	480.6	461.1	452.8	450.7	451.4	452.1	450.7
10°	723.7	662.4	551.0	480.6	448.6	438.8	439.5	443.0	444.4	445.8	445.1
12.5°	730.7	649.9	518.2	449.3	431.2	429.8	431.2	434.6	436.7	438.1	438.8
15°	739.0	640.1	487.6	429.1	420.0	420.0	420.7	424.2	427.0	429.1	429.1
17.5°	750.2	629.7	459.7	414.4	410.3	408.9	408.9	412.4	414.4	417.2	416.5
20°	765.5	619.9	435.3	402.6	397.7	396.3	396.3	398.4	401.9	404.0	402.6
22.5°	787.8	613.7	415.1	391.5	385.2	382.4	381.7	383.8	386.6	390.1	390.8
25°	816.4	609.5	397.7	376.8	369.9	367.1	365.7	367.1	370.6	374.7	374.7
27.5°	854.0	613.0	381.7	362.2	352.5	347.6	346.2	348.3	353.8	359.4	359.4
30°	907.6	627.6	368.5	345.5	332.3	324.6	321.1	323.9	332.3	341.3	342.7
32.5°	986.3	658.2	360.8	332.3	314.8	301.6	292.5	296.7	307.2	319.7	321.1
35°	1143.0	726.5	355.9	320.4	296.7	279.3	267.5	266.1	280.7	295.3	300.2
37.5°	1457.9	916.0	355.9	307.2	280.7	258.4	241.0	237.5	251.5	269.6	273.0
40°	1873.0	1219.6	413.7	295.3	265.4	238.2	215.9	211.1	220.1	239.6	243.8
42.5°	2342.5	1600.7	548.9	287.7	250.1	219.4	195.0	188.8	195.7	209.0	212.4
45°	2884.4	2040.9	780.8	294.6	235.4	199.9	175.5	167.9	173.4	179.0	180.4
47.5°	3405.4	2495.0	1099.1	322.5	221.5	181.8	157.4	152.5	153.2	153.9	153.2
50°	3917.4	2960.3	1490.6	383.8	205.5	165.1	143.5	136.5	135.8	133.7	133.0
52.5°	4429.3	3441.6	1902.3	450.7	189.5	149.8	131.0	123.3	119.8	117.7	119.1
55°	4907.9	3912.5	2287.5	474.3	172.0	135.8	119.1	110.1	105.9	103.1	103.8
57.5°	5139.8	4180.0	2453.2	429.1	153.2	123.3	108.0	98.2	94.0	91.9	91.9
60°	5047.2	4056.7	2201.8	307.2	135.8	110.1	96.8	87.8	84.3	82.2	82.2
62.5°	4534.5	3479.2	1622.3	204.1	117.0	96.8	86.4	79.4	75.9	74.5	74.5
65°	3806.6	2715.1	973.8	147.7	99.6	86.4	79.4	72.4	69.0	66.2	66.2
66°	3477.8	2382.9	771.8	134.4	93.3	82.2	76.6	70.4	65.5	62.7	62.7
67.5°	2958.9	1928.0	498.7	117.7	84.3	77.3	72.4	66.2	61.3	57.1	57.1
70°	2247.1	1309.5	225.0	93.3	72.4	70.4	64.8	57.1	53.6	50.2	49.5
72.5°	1619.5	840.7	113.5	73.1	61.3	62.0	53.6	49.5	44.6	41.1	41.1
75°	1029.5	454.8	71.7	56.4	52.2	52.9	44.6	40.4	36.9	34.1	34.8
77.5°	440.2	176.9	52.2	43.9	43.9	44.6	37.6	33.4	31.3	28.6	28.6
80°	138.6	75.9	37.6	33.4	35.5	36.9	31.3	29.3	25.8	20.2	20.9
82.5°	65.5	43.9	25.8	25.1	25.8	29.3	24.4	21.6	18.8	8.4	6.3
85°	42.5	22.3	13.9	13.2	14.6	17.4	16.7	11.8	8.4	2.8	2.8
87.5°	18.8	9.1	5.6	5.6	5.6	6.3	5.6	4.2	3.5	1.4	1.4
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)