

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: P1461531

Luminaire Tested: USSL-110-8540-U-T2R-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461531
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-8540-U-T2R-HSS
Description: USSL DISCRETE LED 1 SQUARE 110W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY
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: 10358.8 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

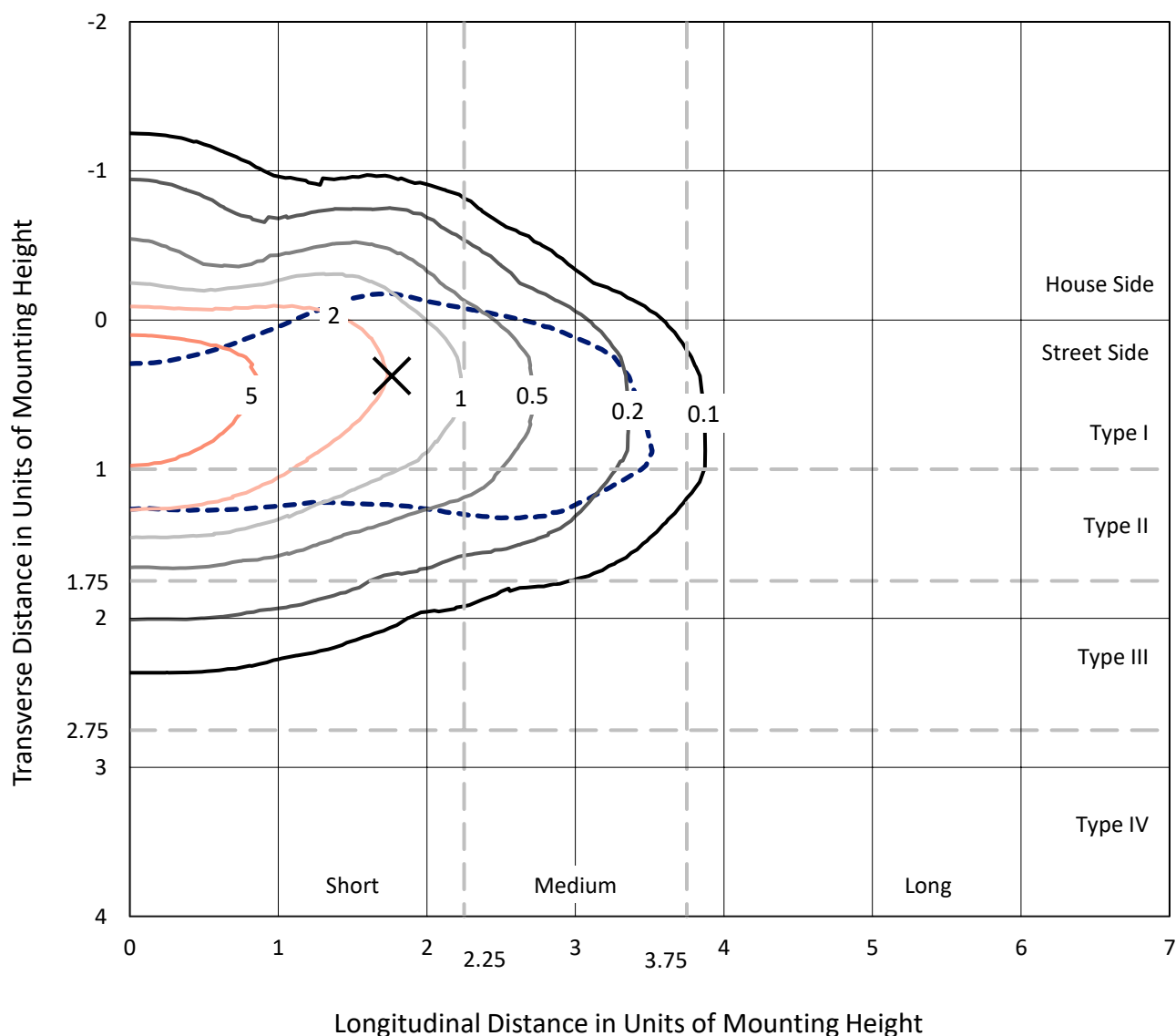
Input Watts (W): 111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.87%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

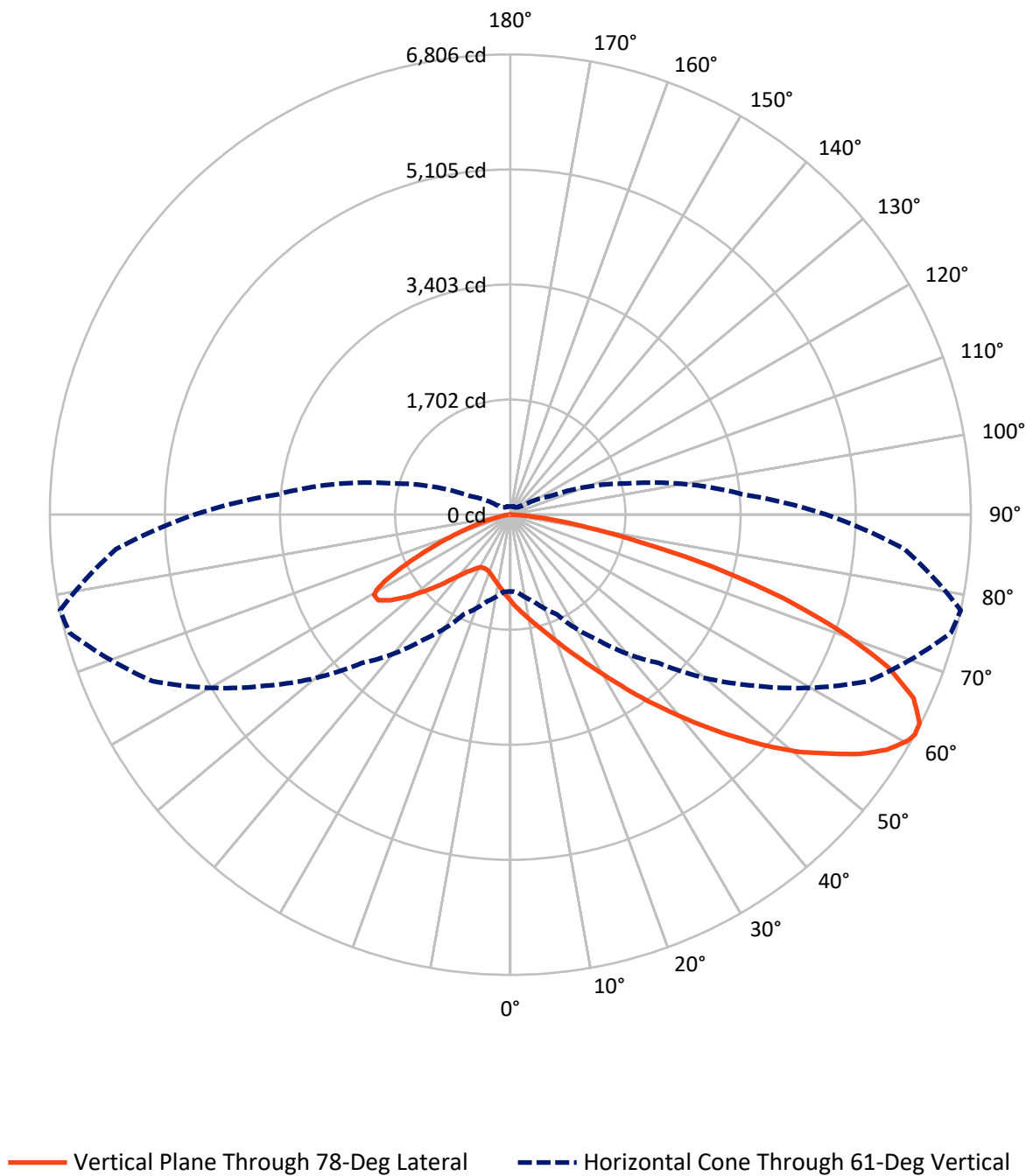


Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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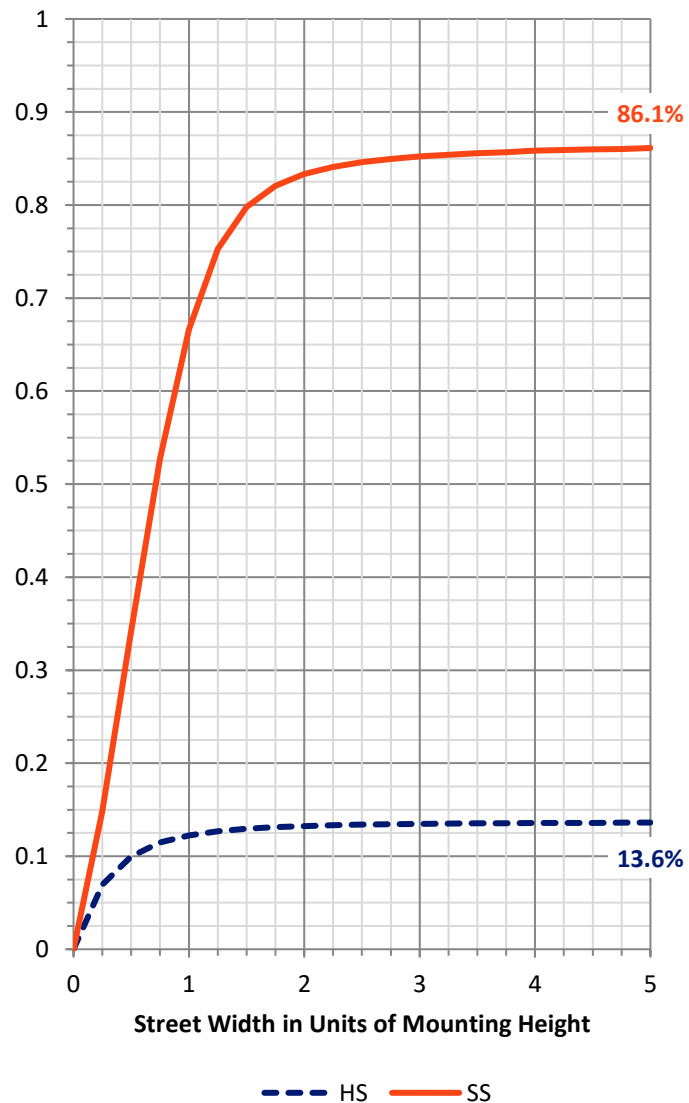
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1421.6	0.0	1421.6
	% Fixture	13.7	0.0	13.7
Street Side	Lumens	8937.2	0.0	8937.2
	% Fixture	86.3	0.0	86.3
Total	Lumens	10358.8	0.0	10358.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	1.2
10°-20°	461.4	4.5
20°-30°	954.4	9.2
30°-40°	1641.8	15.8
40°-50°	2212.2	21.4
50°-60°	2290.4	22.1
60°-70°	1780.0	17.2
70°-80°	780.4	7.5
80°-90°	108.8	1.1
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°	10358.8	100.0
0°-180°	10358.8	100.0

Coefficient of Utilization



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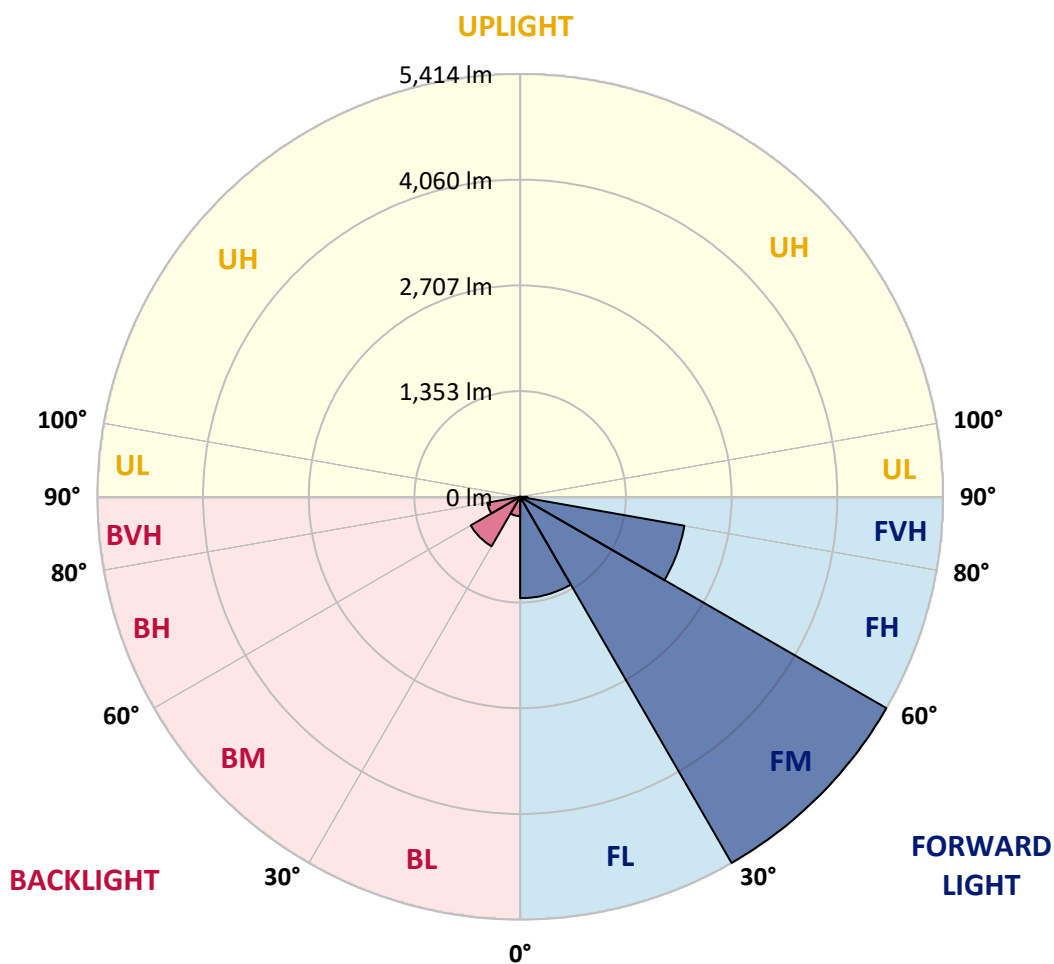
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1297.9	12.5			
FM	(30°-60°)	5413.5	52.3			
FH	(60°-80°)	2133.9	20.6			G2/5000
FVH	(80°-90°)	91.9	0.9			G1/100
BL	(0°-30°)	247.3	2.4	B1/500		
BM	(30°-60°)	730.9	7.1	B1/1000		
BH	(60°-80°)	426.6	4.1	B1/500		G1/500
BVH	(80°-90°)	16.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0
2.5°	1618.8	1598.6	1613.9	1582.6	1553.4	1517.9	1477.5	1424.6	1369.6	1350.8	1311.8
5°	1923.1	1934.9	1924.5	1884.8	1827.0	1732.3	1660.6	1558.9	1458.0	1418.3	1343.1
7.5°	2281.7	2272.6	2250.3	2193.2	2101.3	1993.4	1859.7	1714.2	1547.1	1493.5	1377.9
10°	2593.6	2572.0	2550.4	2480.1	2370.1	2246.8	2067.2	1862.5	1650.1	1577.0	1416.2
12.5°	2897.9	2906.2	2859.6	2784.4	2649.3	2491.2	2277.5	2034.5	1756.7	1664.8	1461.5
15°	3258.5	3236.2	3191.7	3080.3	2929.9	2746.1	2502.4	2214.8	1877.1	1765.7	1515.1
17.5°	3574.6	3557.9	3519.6	3401.9	3232.8	3008.6	2724.5	2402.1	2008.0	1879.9	1579.1
20°	3875.4	3865.7	3814.8	3704.1	3548.9	3292.6	2983.5	2622.8	2159.8	2016.4	1654.3
22.5°	4189.4	4177.6	4116.3	3996.6	3830.1	3596.2	3251.6	2848.4	2349.9	2171.6	1742.7
25°	4470.7	4488.8	4401.8	4288.3	4109.4	3867.7	3538.4	3094.2	2534.4	2339.4	1859.0
27.5°	4914.2	4862.0	4754.1	4585.6	4387.9	4155.3	3817.6	3348.3	2753.0	2533.7	1976.7
30°	5384.9	5353.6	5219.2	4954.6	4646.2	4387.9	4080.1	3647.0	2989.8	2762.1	2140.3
32.5°	5779.7	5763.7	5631.4	5377.9	4997.8	4617.6	4342.6	3940.2	3259.2	3016.2	2341.5
35°	6033.1	6008.1	5914.1	5721.2	5359.1	4913.5	4612.1	4266.0	3562.1	3312.1	2574.1
37.5°	6145.2	6113.9	6016.4	5870.2	5616.1	5199.7	4851.6	4572.4	3883.1	3613.6	2794.8
40°	6048.4	6037.3	5967.0	5829.1	5714.9	5424.6	5075.8	4861.3	4227.7	3952.0	3108.1
42.5°	5745.6	5725.4	5719.8	5657.8	5646.0	5518.6	5274.2	5131.5	4603.7	4321.0	3440.2
45°	5332.0	5320.2	5371.7	5399.5	5471.9	5502.6	5414.2	5390.5	4983.2	4699.1	3823.9
47.5°	4841.1	4833.5	4937.2	5053.5	5242.2	5392.6	5458.0	5591.0	5352.9	5111.3	4204.7
50°	4030.0	3991.7	4314.1	4607.2	4917.7	5235.2	5416.2	5751.1	5736.5	5510.2	4590.5
52.5°	3114.4	3099.8	3498.0	3995.2	4540.3	4971.3	5313.9	5840.3	6047.1	5866.7	4994.3
55°	2285.8	2297.0	2649.3	3266.9	3929.7	4582.8	5161.4	5862.5	6357.6	6250.4	5373.8
57.5°	1668.9	1708.6	1973.2	2498.2	3231.4	4041.8	4942.8	5857.0	6594.3	6560.2	5680.8
60°	1251.2	1250.5	1497.7	1849.3	2481.5	3407.5	4589.1	5841.0	6731.5	6769.8	5832.6
61°	1134.9	1146.7	1327.1	1623.7	2267.7	3102.6	4412.2	5828.4	6743.3	6806.0	5847.2
62.5°	982.4	978.9	1120.3	1357.0	1877.8	2650.7	4096.1	5790.8	6729.4	6788.6	5822.2
65°	791.0	794.4	889.8	1026.3	1407.2	1973.9	3436.1	5561.8	6506.6	6549.8	5656.5
67.5°	653.1	661.5	724.8	814.6	1043.7	1401.6	2629.8	5097.4	6072.8	6025.5	5291.6
70°	534.7	543.8	592.5	652.4	796.5	1025.6	1931.4	4274.4	5322.2	5192.0	4630.2
72.5°	433.1	433.1	474.2	528.5	610.6	737.3	1335.4	3280.1	4359.3	4206.1	3745.9
75°	344.0	342.6	371.8	399.0	452.6	538.9	913.5	2255.9	3269.0	3095.6	2668.8
77.5°	237.4	240.9	266.7	293.8	320.3	374.6	606.4	1387.7	2111.1	1967.6	1680.8
80°	175.5	176.9	191.5	206.1	203.3	237.4	382.2	706.7	1174.6	1171.8	953.9
82.5°	127.4	130.9	136.5	144.8	140.6	155.3	229.8	354.4	621.8	618.3	512.5
85°	81.5	80.8	80.8	85.6	84.9	93.3	124.6	190.1	266.0	276.4	249.3
87.5°	29.2	30.6	35.5	43.2	40.4	38.3	37.6	50.1	45.3	42.5	40.4
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°	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0	1279.0
2.5°	1284.6	1257.5	1201.1	1145.4	1102.9	1054.1	1022.8	997.7	968.5	959.5	977.6
5°	1289.5	1233.1	1129.3	1028.4	946.2	882.2	820.9	796.5	756.8	745.7	745.0
7.5°	1297.1	1213.6	1059.7	924.6	818.8	733.2	676.1	641.3	617.6	609.2	616.2
10°	1306.2	1195.5	993.6	827.2	707.4	633.6	578.6	547.3	532.6	525.7	523.6
12.5°	1324.3	1183.6	942.7	749.9	625.9	555.6	511.8	486.0	470.0	466.5	463.0
15°	1344.5	1175.3	889.1	680.9	561.2	495.7	456.7	438.0	424.7	418.5	418.5
17.5°	1371.6	1174.6	836.9	616.9	508.3	448.4	414.3	399.0	389.9	386.4	385.7
20°	1408.5	1178.8	794.4	571.6	463.7	408.7	382.9	369.7	364.1	360.7	360.7
22.5°	1460.8	1192.7	758.2	528.5	426.1	377.4	354.4	346.7	341.9	338.4	338.4
25°	1533.2	1224.0	731.8	493.0	394.8	351.6	332.8	324.5	321.0	319.6	318.9
27.5°	1611.9	1262.3	720.6	467.9	366.9	329.3	313.3	305.0	302.2	300.8	300.8
30°	1715.6	1317.3	713.0	449.8	345.3	309.1	294.5	285.5	282.0	282.0	281.3
32.5°	1852.1	1407.8	727.6	435.9	330.7	292.4	276.4	268.8	265.3	264.6	263.9
35°	2033.8	1536.0	762.4	431.0	316.1	276.4	260.4	253.4	250.0	249.3	247.9
37.5°	2196.0	1640.4	807.7	428.9	302.9	262.5	247.2	239.5	235.3	233.9	234.6
40°	2432.7	1806.8	868.2	433.1	291.0	248.6	234.6	227.0	222.8	221.4	220.7
42.5°	2697.3	2017.1	960.8	449.8	283.4	236.0	223.5	215.1	211.7	210.3	209.6
45°	3010.6	2264.3	1084.8	473.5	277.8	226.3	211.7	204.7	201.2	199.1	199.1
47.5°	3338.6	2524.7	1212.9	503.4	273.6	218.6	201.2	194.3	190.1	188.0	186.6
50°	3701.3	2790.6	1362.6	536.1	270.2	211.0	190.8	181.7	177.5	173.4	173.4
52.5°	4052.3	3094.9	1517.9	573.7	267.4	198.4	178.9	169.2	162.2	158.1	157.4
55°	4387.9	3372.0	1665.5	608.5	264.6	188.0	165.7	153.9	147.6	144.8	145.5
57.5°	4651.0	3569.1	1794.3	637.8	258.3	176.2	151.1	140.6	135.8	137.9	135.8
60°	4720.0	3543.3	1821.4	643.3	246.5	161.5	136.5	130.2	128.8	125.3	125.3
61°	4669.1	3445.8	1774.1	635.0	240.9	154.6	132.3	127.4	125.3	121.8	121.8
62.5°	4534.8	3195.9	1641.8	607.1	229.8	144.8	126.0	122.5	119.8	116.3	117.0
65°	4226.3	2684.1	1288.1	525.0	206.1	130.9	115.6	113.5	110.0	107.2	105.1
67.5°	3768.9	2170.3	925.3	420.5	181.0	118.4	103.7	101.0	97.5	94.0	92.6
70°	3249.5	1680.1	627.3	324.5	155.3	104.4	91.2	86.3	83.6	80.8	79.4
72.5°	2601.2	1263.7	396.2	239.5	128.8	87.7	74.5	71.7	68.9	66.8	66.1
75°	1907.1	882.9	264.6	178.9	103.7	71.0	59.9	54.3	52.9	51.5	49.4
77.5°	1137.7	495.7	171.3	130.2	82.2	55.7	46.0	41.8	41.1	39.0	39.0
80°	598.8	263.2	112.8	89.8	58.5	42.5	36.2	33.4	30.6	24.4	20.2
82.5°	339.1	142.7	73.8	56.4	39.0	31.3	27.2	25.1	20.9	6.3	3.5
85°	169.2	72.4	35.5	28.5	18.8	12.5	13.2	10.4	4.9	0.7	0.0
87.5°	30.6	10.4	6.3	6.3	4.9	3.5	2.8	1.4	0.7	0.0	0.0
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)