

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: P1461428

Luminaire Tested: USSL-150-8540-U-T2U-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461428
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T2U-HSS
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE II URBAN
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: 12937.2 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

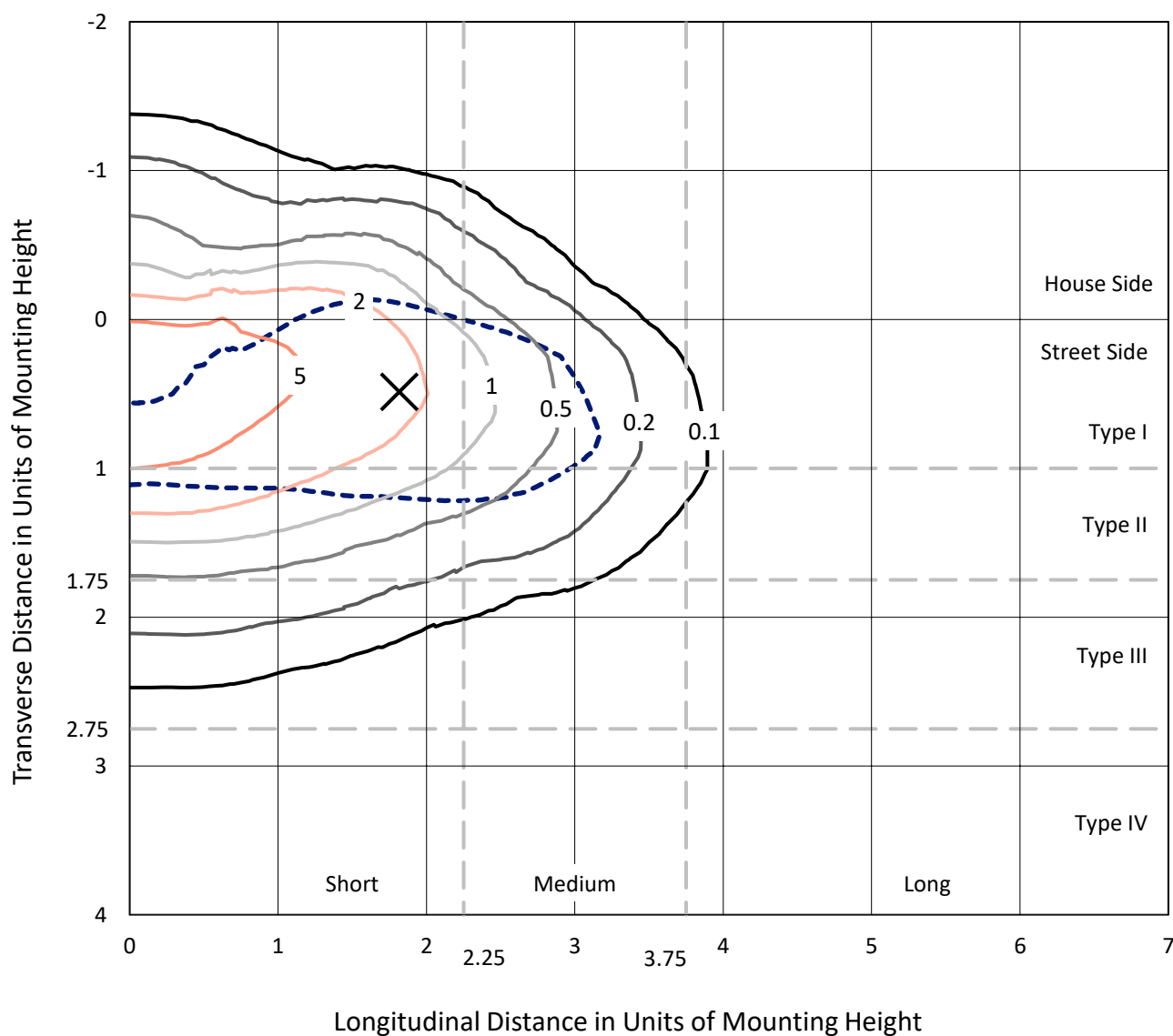
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

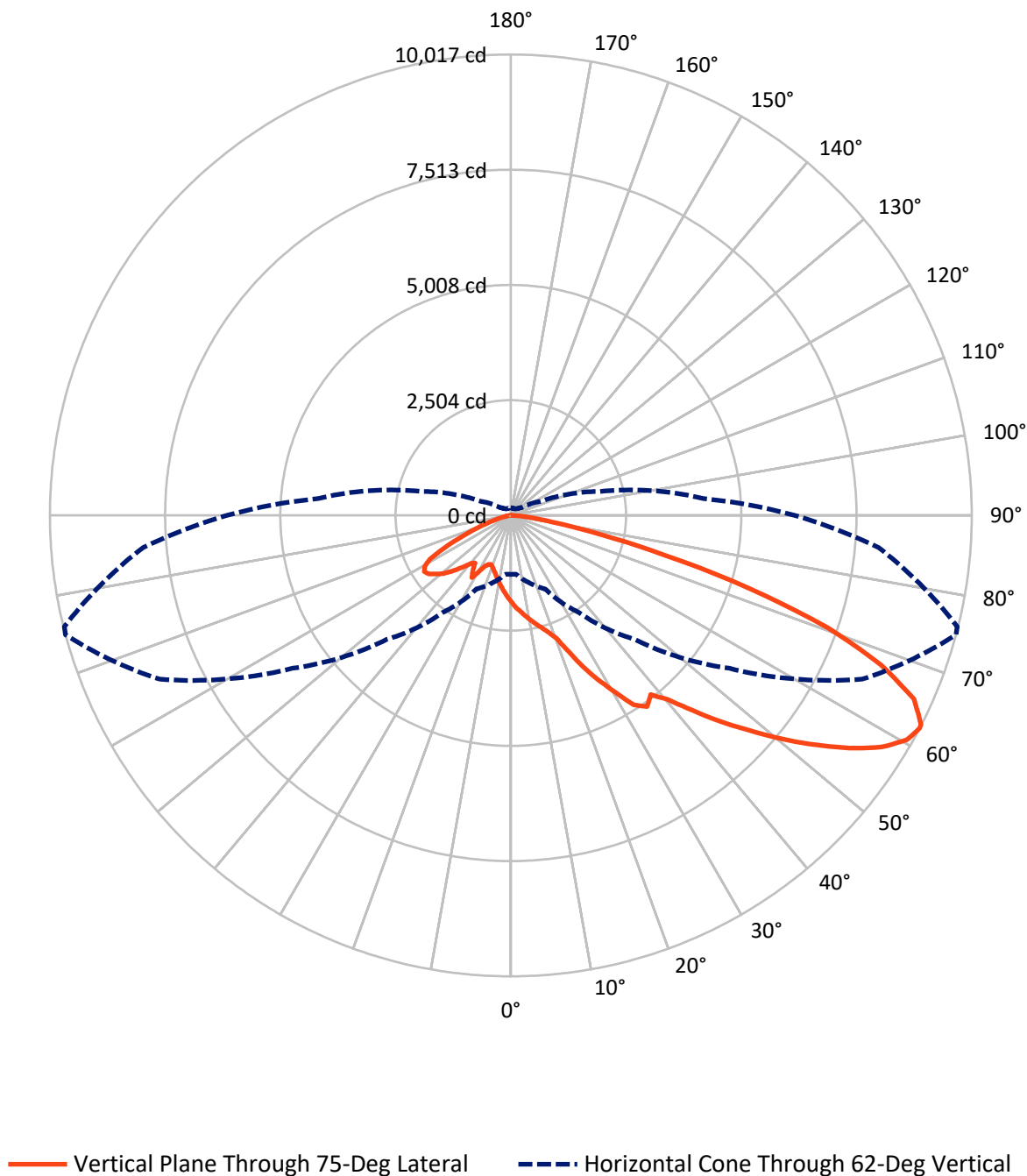


Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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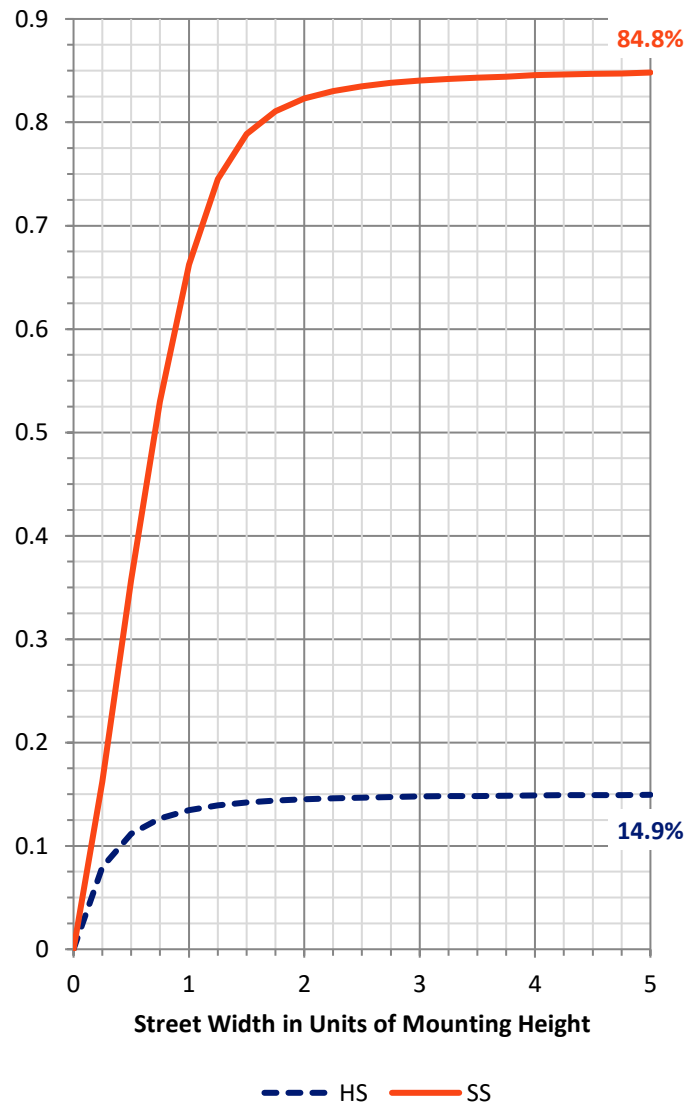
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1950.3	0.0	1950.3
	% Fixture	15.1	0.0	15.1
Street Side	Lumens	10986.9	0.0	10986.9
	% Fixture	84.9	0.0	84.9
Total	Lumens	12937.2	0.0	12937.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	1.4
10°-20°	626.4	4.8
20°-30°	1185.4	9.2
30°-40°	1912.5	14.8
40°-50°	2660.8	20.6
50°-60°	3021.3	23.4
60°-70°	2370.2	18.3
70°-80°	862.5	6.7
80°-90°	112.6	0.9
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°	12937.2	100.0
0°-180°	12937.2	100.0

Coefficient of Utilization



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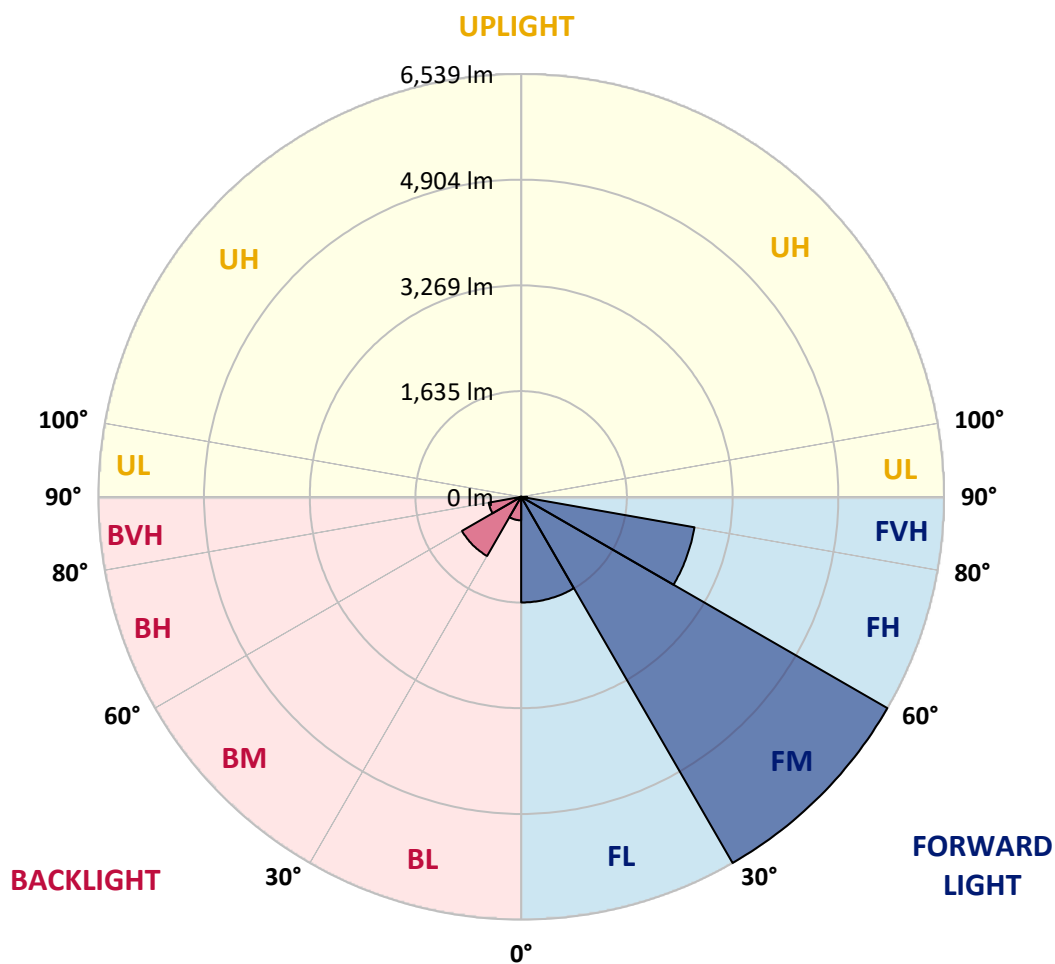
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1633.6	12.6			
FM	(30°-60°)	6538.8	50.5			
FH	(60°-80°)	2722.1	21.0			G2/5000
FVH	(80°-90°)	92.3	0.7			G1/100
BL	(0°-30°)	363.8	2.8	B1/500		
BM	(30°-60°)	1055.6	8.2	B2/2500		
BH	(60°-80°)	510.5	3.9	B2/1000		G2/1000
BVH	(80°-90°)	20.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0
2.5°	2294.5	2285.7	2276.9	2259.3	2230.3	2169.6	2112.4	2060.5	1993.7	1979.6	1922.4
5°	2703.4	2709.5	2667.3	2638.3	2561.8	2461.5	2355.1	2226.7	2086.9	2076.4	1953.2
7.5°	3151.0	3151.9	3094.7	3035.8	2922.4	2762.3	2581.1	2396.5	2194.2	2170.5	1982.3
10°	3612.7	3574.9	3545.9	3458.8	3298.8	3072.8	2840.6	2576.8	2302.4	2268.1	2018.3
12.5°	3932.8	3919.7	3872.2	3772.8	3631.2	3405.2	3111.4	2759.7	2417.6	2371.8	2061.4
15°	4306.6	4264.4	4189.6	4080.6	3925.8	3691.9	3370.9	2969.0	2535.4	2488.8	2112.4
17.5°	4690.9	4647.8	4612.6	4500.1	4312.8	3990.0	3635.6	3199.4	2676.1	2614.6	2171.3
20°	4839.5	4822.0	4837.8	4822.0	4724.3	4493.9	4049.8	3465.9	2854.7	2782.5	2262.8
22.5°	4654.9	4643.4	4704.1	4780.6	4837.8	4822.8	4559.9	4003.2	3209.9	3114.1	2441.3
25°	4616.2	4615.3	4648.7	4691.8	4697.1	4741.0	4755.1	4444.7	3638.2	3528.3	2725.4
27.5°	4766.5	4734.0	4752.5	4814.0	4822.8	4828.1	4749.8	4603.0	4041.0	3944.3	3045.5
30°	4987.3	4953.0	4935.4	4960.9	4982.0	5035.7	5011.9	4807.9	4446.4	4383.1	3560.8
32.5°	5335.5	5296.8	5230.9	5186.0	5147.3	5257.3	5330.3	5242.3	4910.8	4841.3	4082.3
35°	5638.9	5623.1	5586.2	5493.0	5403.3	5492.1	5724.3	5733.0	5103.4	4996.1	4010.2
37.5°	5940.6	5912.5	5901.9	5834.2	5720.7	5690.0	5884.3	5730.4	4939.8	4819.3	3775.4
40°	6083.9	6059.3	6140.2	6140.2	5994.2	5883.4	5967.0	5822.8	5259.9	5172.0	4121.9
42.5°	6049.6	6031.2	6135.8	6175.4	6171.9	6117.4	6215.9	6227.3	5788.5	5692.6	4654.9
45°	5694.4	5622.2	5750.6	6037.3	6179.8	6271.3	6530.7	6718.0	6389.1	6281.8	5214.2
47.5°	5190.4	5126.2	5324.1	5733.9	6045.2	6341.6	6776.9	7184.1	6984.5	6879.8	5822.8
50°	4351.5	4398.1	4742.8	5257.3	5773.5	6311.7	6965.1	7620.3	7634.4	7526.2	6456.8
52.5°	3452.7	3496.6	4053.3	4655.7	5386.6	6081.3	7042.5	8081.1	8285.2	8186.7	7063.6
55°	2596.1	2664.7	3136.1	3900.3	4752.5	5711.9	6970.4	8437.3	8928.0	8872.6	7615.0
57.5°	1983.1	2033.3	2356.0	3062.2	3937.2	5189.6	6724.2	8656.3	9501.4	9446.0	7986.2
60°	1519.7	1546.1	1825.7	2245.2	3165.1	4476.3	6294.1	8640.5	9895.4	9855.8	8118.1
62°	1281.3	1282.2	1510.9	1763.3	2574.1	3810.6	5792.0	8422.4	10016.8	10001.0	8023.1
62.5°	1225.1	1258.5	1448.4	1676.2	2394.7	3640.9	5616.1	8321.2	10004.5	9989.5	7964.2
65°	974.4	999.9	1141.5	1280.5	1819.6	2670.8	4669.8	7652.0	9628.1	9628.1	7540.3
67.5°	792.4	796.8	902.3	984.1	1325.3	1813.4	3459.7	6663.5	8684.4	8737.2	6798.9
70°	604.2	616.5	672.8	747.5	957.7	1287.5	2334.9	5281.0	7296.7	7221.1	5656.5
72.5°	478.4	478.4	507.4	539.1	671.0	909.3	1599.7	3829.1	5412.1	5360.2	4156.2
75°	392.2	394.9	401.0	397.5	459.1	622.6	1047.4	2370.1	3465.0	3453.5	2522.2
77.5°	294.6	298.1	318.4	313.1	311.3	384.3	662.2	1284.9	1967.3	1963.8	1321.8
80°	223.4	223.4	231.3	228.7	219.0	241.0	401.0	697.4	1001.7	1009.6	704.4
82.5°	159.2	159.2	169.7	167.1	156.5	165.3	228.7	384.3	535.6	522.4	402.8
85°	89.7	92.3	95.0	102.0	99.4	103.8	134.6	190.8	263.8	276.1	224.3
87.5°	44.0	48.4	49.2	53.6	51.9	53.6	62.4	84.4	78.3	78.3	58.0
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°	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0
2.5°	1885.5	1845.9	1783.5	1714.9	1654.2	1610.2	1551.3	1513.5	1487.1	1481.0	1517.0
5°	1883.8	1812.5	1679.7	1558.4	1446.7	1357.9	1275.2	1211.9	1171.4	1146.8	1168.8
7.5°	1877.6	1780.9	1581.2	1404.5	1249.7	1130.1	1029.8	969.1	921.6	906.7	898.8
10°	1886.4	1750.1	1491.5	1260.2	1083.5	934.0	846.0	792.4	763.4	739.6	744.9
12.5°	1891.7	1721.1	1405.3	1141.5	933.1	799.4	722.0	683.3	662.2	651.7	645.5
15°	1897.8	1699.1	1320.9	1015.7	807.3	700.0	638.5	608.6	589.2	585.7	579.5
17.5°	1926.8	1685.9	1247.9	912.0	710.6	618.2	574.3	551.4	538.2	535.6	532.9
20°	1975.2	1695.6	1188.1	824.9	637.6	561.1	523.3	506.6	499.5	496.9	495.1
22.5°	2094.8	1745.7	1148.5	755.4	579.5	511.8	482.8	472.3	467.9	466.1	464.3
25°	2320.8	1909.3	1170.5	710.6	538.2	467.9	447.6	442.4	438.0	437.1	437.1
27.5°	2566.2	2082.5	1239.1	707.1	510.1	436.2	417.7	414.2	412.5	412.5	412.5
30°	3017.3	2408.8	1389.5	780.1	515.4	410.7	390.5	388.7	390.5	393.1	393.1
32.5°	3467.6	2805.4	1595.3	848.7	526.8	389.6	366.7	366.7	371.1	376.4	376.4
35°	3440.4	2774.6	1457.2	737.0	465.2	364.1	344.7	345.6	355.3	360.6	360.6
37.5°	3158.1	2490.6	1292.8	647.3	427.4	344.7	324.5	326.3	336.8	343.0	343.9
40°	3397.3	2661.2	1351.7	660.5	414.2	330.7	306.9	309.6	318.4	323.6	322.8
42.5°	3838.7	2972.5	1479.2	685.1	403.7	319.2	292.9	292.9	298.1	301.6	300.8
45°	4311.0	3326.0	1634.0	706.2	392.2	309.6	281.4	277.0	278.8	279.7	277.9
47.5°	4834.3	3734.1	1792.3	732.6	381.7	300.8	266.5	261.2	259.4	256.8	258.6
50°	5369.0	4105.2	1947.1	750.2	372.0	289.3	253.3	243.6	239.2	235.7	234.8
52.5°	5900.1	4530.9	2070.2	760.7	361.4	276.1	238.3	225.1	219.0	213.7	211.9
55°	6361.8	4858.0	2189.8	766.0	350.0	262.1	221.6	205.8	195.2	189.1	188.2
57.5°	6608.1	4965.3	2241.7	766.0	336.8	246.2	204.9	186.4	179.4	174.1	173.2
60°	6512.2	4698.8	2165.2	755.4	318.4	227.8	186.4	172.4	168.0	170.6	170.6
62°	6168.4	4197.6	2003.4	723.8	299.9	208.4	174.1	162.7	160.1	163.6	165.3
62.5°	6055.8	4057.7	1923.3	713.2	293.7	204.9	171.5	159.2	158.3	161.8	160.9
65°	5294.2	3173.9	1512.6	634.1	264.7	185.6	157.4	149.5	153.9	153.9	153.0
67.5°	4477.2	2433.4	1098.4	529.4	235.7	168.9	143.3	143.3	142.5	139.8	139.0
70°	3519.5	1791.4	763.4	404.5	202.3	151.3	130.2	126.6	123.1	121.4	122.2
72.5°	2419.3	1262.0	504.8	301.6	163.6	126.6	112.6	107.3	102.9	100.3	99.4
75°	1440.5	771.3	335.9	202.3	124.9	106.4	92.3	86.2	83.5	79.1	79.1
77.5°	789.7	465.2	196.1	139.0	98.5	87.9	75.6	66.8	67.7	64.2	64.2
80°	420.4	243.6	121.4	94.1	74.8	72.1	62.4	55.4	53.6	45.7	44.0
82.5°	249.8	137.2	76.5	64.2	54.5	55.4	49.2	43.1	37.8	15.8	12.3
85°	142.5	67.7	36.1	31.7	27.3	32.5	29.0	22.0	14.1	2.6	3.5
87.5°	43.1	14.1	9.7	9.7	8.8	7.9	6.2	4.4	3.5	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)