

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: P1461425

Luminaire Tested: USSL-50-8540-U-T2U-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461425
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T2U-HSS
Description: USSL DISCRETE LED 1 SQUARE 50W 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: 5165.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

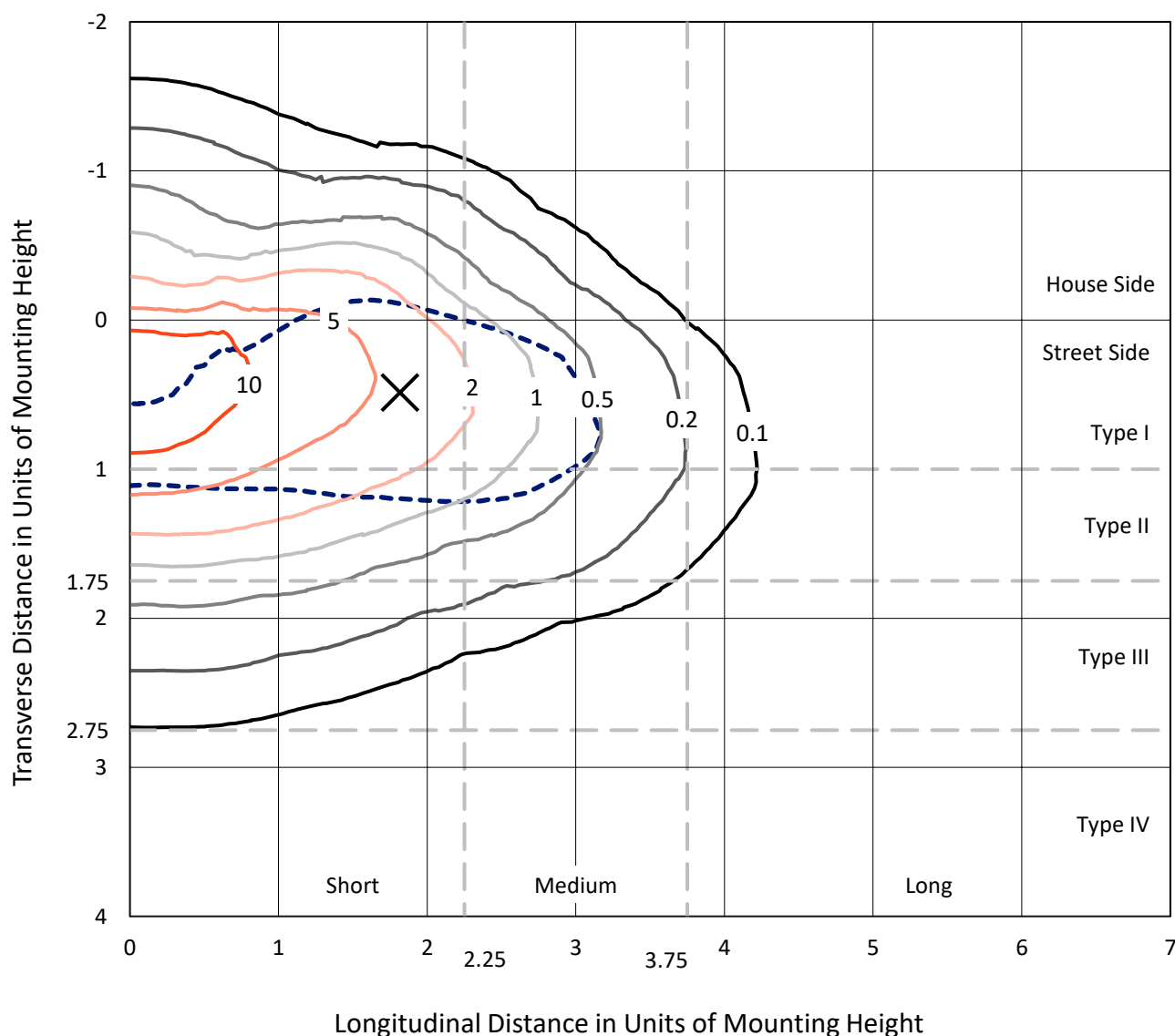
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



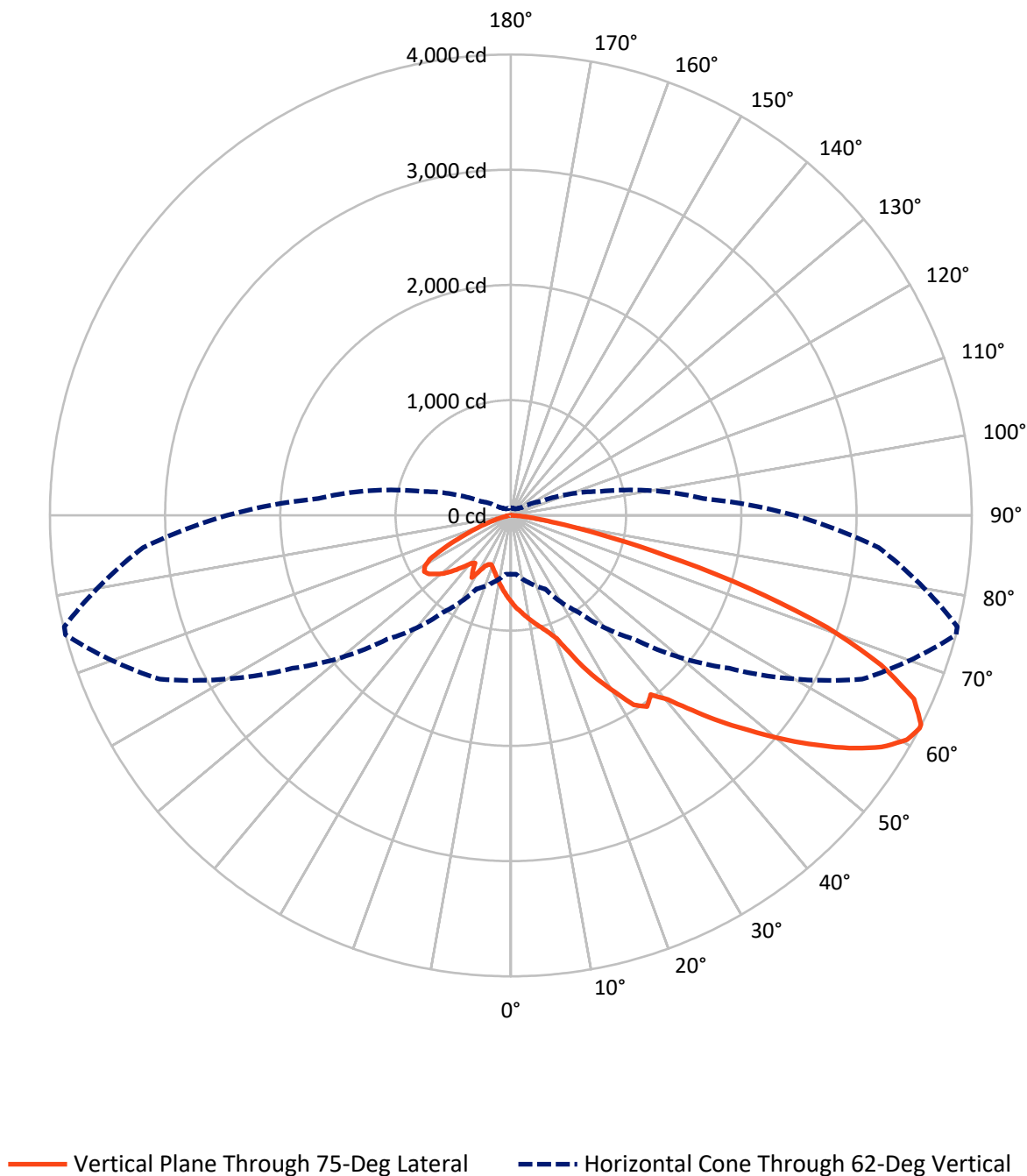
Based on 10 foot mounting height. Maximum calculated value = 15.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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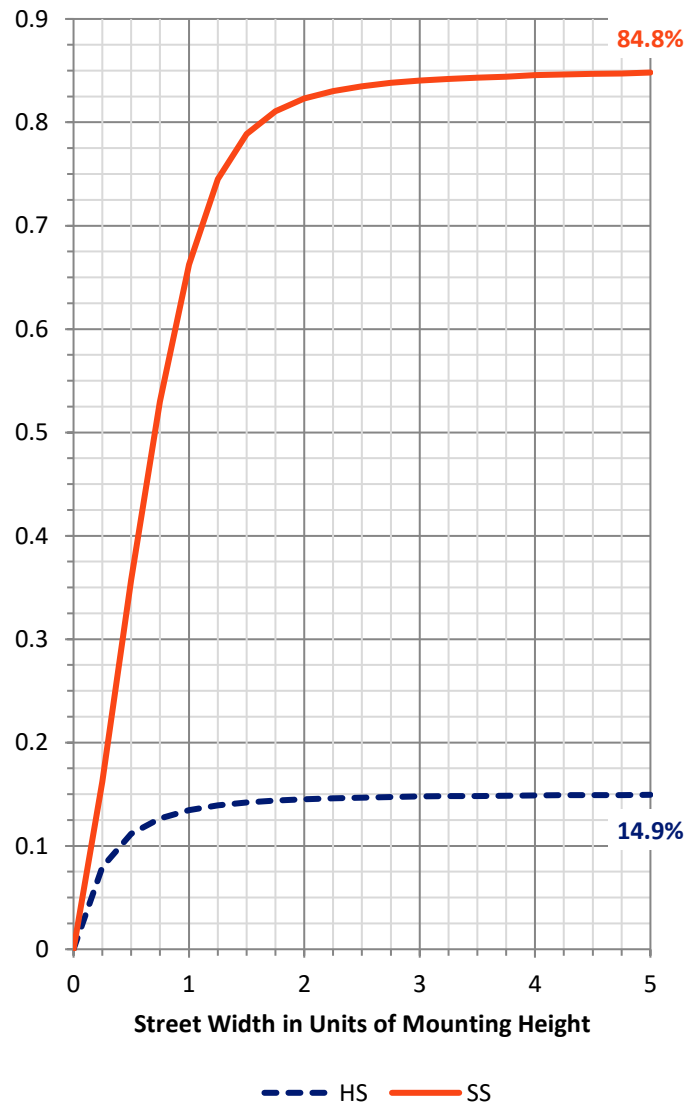
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.7	0.0	778.7
	% Fixture	15.1	0.0	15.1
Street Side	Lumens	4387.0	0.0	4387.0
	% Fixture	84.9	0.0	84.9
Total	Lumens	5165.7	0.0	5165.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.4
10°-20°	250.1	4.8
20°-30°	473.3	9.2
30°-40°	763.6	14.8
40°-50°	1062.4	20.6
50°-60°	1206.4	23.4
60°-70°	946.4	18.3
70°-80°	344.4	6.7
80°-90°	45.0	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°	5165.7	100.0
0°-180°	5165.7	100.0

Coefficient of Utilization



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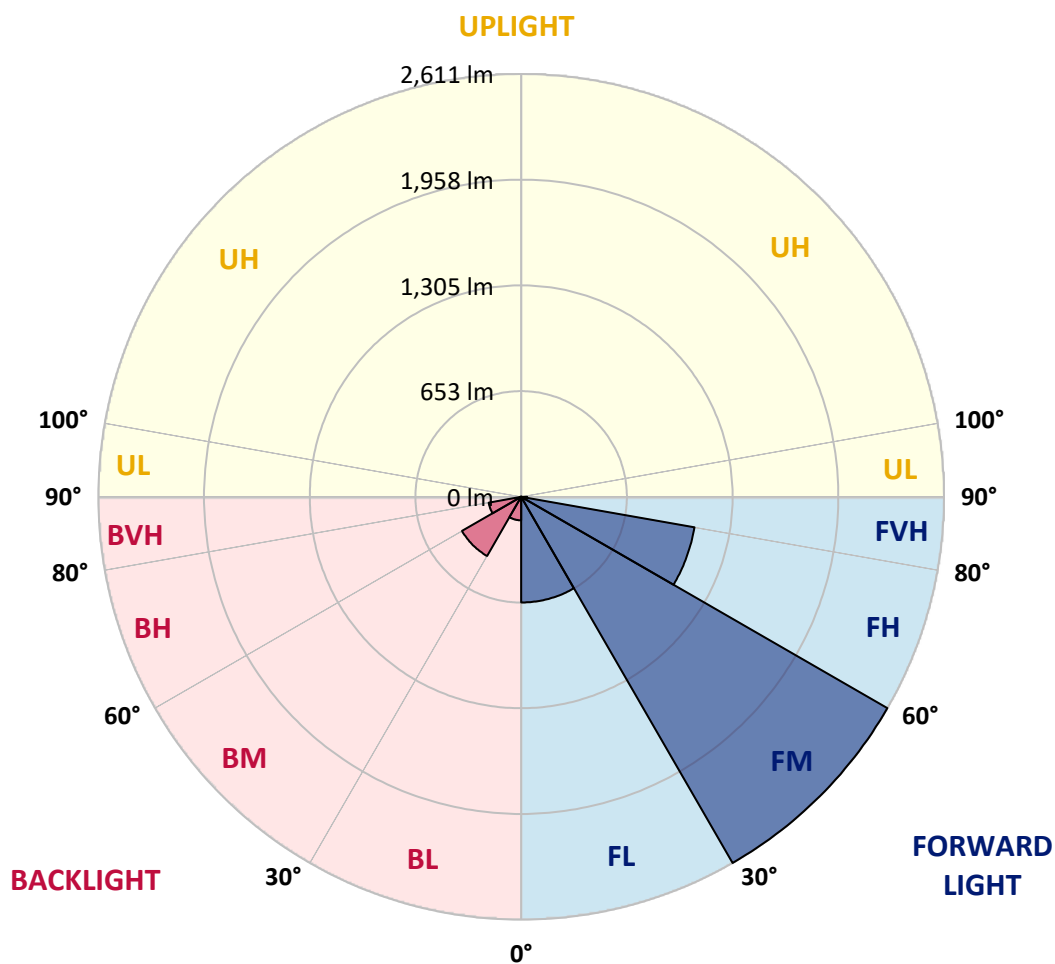
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	652.3	12.6			
FM	(30°-60°)	2610.9	50.5			
FH	(60°-80°)	1086.9	21.0			G1/1800
FVH	(80°-90°)	36.8	0.7			G1/100
BL	(0°-30°)	145.2	2.8	B1/500		
BM	(30°-60°)	421.5	8.2	B1/1000		
BH	(60°-80°)	203.9	3.9	B1/500		G1/500
BVH	(80°-90°)	8.1	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	751.5	751.5	751.5	751.5	751.5	751.5	751.5	751.5	751.5	751.5	751.5
2.5°	916.2	912.6	909.1	902.1	890.5	866.3	843.5	822.8	796.1	790.4	767.6
5°	1079.4	1081.9	1065.0	1053.5	1022.9	982.9	940.4	889.1	833.3	829.1	779.9
7.5°	1258.2	1258.5	1235.7	1212.2	1166.9	1103.0	1030.6	956.9	876.1	866.6	791.5
10°	1442.5	1427.4	1415.9	1381.1	1317.2	1226.9	1134.2	1028.9	919.3	905.6	805.9
12.5°	1570.4	1565.1	1546.1	1506.4	1449.9	1359.7	1242.4	1101.9	965.3	947.1	823.1
15°	1719.6	1702.7	1672.9	1629.4	1567.5	1474.1	1346.0	1185.5	1012.4	993.8	843.5
17.5°	1873.1	1855.8	1841.8	1796.9	1722.1	1593.2	1451.7	1277.5	1068.6	1044.0	867.0
20°	1932.4	1925.4	1931.7	1925.4	1886.4	1794.4	1617.1	1383.9	1139.8	1111.0	903.5
22.5°	1858.7	1854.1	1878.3	1908.9	1931.7	1925.7	1820.7	1598.5	1281.7	1243.4	974.8
25°	1843.2	1842.9	1856.2	1873.4	1875.5	1893.1	1898.7	1774.7	1452.7	1408.8	1088.2
27.5°	1903.3	1890.3	1897.6	1922.2	1925.7	1927.8	1896.6	1837.9	1613.6	1574.9	1216.0
30°	1991.4	1977.7	1970.7	1980.9	1989.3	2010.7	2001.2	1919.8	1775.4	1750.1	1421.8
32.5°	2130.4	2115.0	2088.7	2070.8	2055.3	2099.2	2128.3	2093.2	1960.8	1933.1	1630.1
35°	2251.6	2245.3	2230.5	2193.3	2157.5	2193.0	2285.7	2289.2	2037.7	1994.9	1601.3
37.5°	2372.0	2360.8	2356.6	2329.6	2284.3	2272.0	2349.6	2288.1	1972.4	1924.3	1507.5
40°	2429.3	2419.4	2451.8	2451.8	2393.5	2349.2	2382.6	2325.0	2100.2	2065.1	1645.9
42.5°	2415.6	2408.2	2450.0	2465.8	2464.4	2442.6	2482.0	2486.5	2311.3	2273.0	1858.7
45°	2273.7	2244.9	2296.2	2410.7	2467.6	2504.1	2607.7	2682.5	2551.1	2508.3	2082.0
47.5°	2072.5	2046.9	2125.9	2289.5	2413.8	2532.2	2706.0	2868.6	2788.9	2747.1	2325.0
50°	1737.5	1756.1	1893.8	2099.2	2305.3	2520.2	2781.1	3042.7	3048.4	3005.2	2578.2
52.5°	1378.6	1396.2	1618.5	1859.0	2150.8	2428.2	2812.0	3226.7	3308.2	3268.9	2820.5
55°	1036.6	1064.0	1252.2	1557.4	1897.6	2280.7	2783.2	3369.0	3564.9	3542.8	3040.6
57.5°	791.9	811.9	940.7	1222.7	1572.1	2072.2	2684.9	3456.4	3793.9	3771.7	3188.8
60°	606.8	617.3	729.0	896.5	1263.8	1787.4	2513.2	3450.1	3951.2	3935.4	3241.5
62°	511.6	512.0	603.3	704.1	1027.8	1521.5	2312.7	3363.0	3999.6	3993.3	3203.6
62.5°	489.2	502.5	578.3	669.3	956.2	1453.8	2242.5	3322.6	3994.7	3988.8	3180.0
65°	389.1	399.3	455.8	511.3	726.5	1066.5	1864.6	3055.4	3844.4	3844.4	3010.8
67.5°	316.4	318.1	360.3	392.9	529.2	724.1	1381.4	2660.7	3467.6	3488.7	2714.8
70°	241.2	246.2	268.6	298.5	382.4	514.1	932.3	2108.7	2913.5	2883.3	2258.6
72.5°	191.0	191.0	202.6	215.3	267.9	363.1	638.7	1528.9	2161.0	2140.3	1659.6
75°	156.6	157.7	160.1	158.7	183.3	248.6	418.2	946.4	1383.5	1379.0	1007.1
77.5°	117.6	119.0	127.1	125.0	124.3	153.5	264.4	513.0	785.5	784.1	527.8
80°	89.2	89.2	92.4	91.3	87.4	96.2	160.1	278.5	400.0	403.1	281.3
82.5°	63.6	63.6	67.8	66.7	62.5	66.0	91.3	153.5	213.9	208.6	160.8
85°	35.8	36.9	37.9	40.7	39.7	41.4	53.7	76.2	105.3	110.3	89.5
87.5°	17.6	19.3	19.7	21.4	20.7	21.4	24.9	33.7	31.3	31.3	23.2
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°	751.5	751.5	751.5	751.5	751.5	751.5	751.5	751.5	751.5	751.5	751.5
2.5°	752.9	737.1	712.1	684.7	660.5	643.0	619.4	604.3	593.8	591.3	605.7
5°	752.2	723.7	670.7	622.2	577.6	542.2	509.2	483.9	467.7	457.9	466.7
7.5°	749.7	711.1	631.4	560.8	499.0	451.2	411.2	387.0	368.0	362.0	358.9
10°	753.2	698.8	595.6	503.2	432.6	372.9	337.8	316.4	304.8	295.3	297.4
12.5°	755.3	687.2	561.1	455.8	372.6	319.2	288.3	272.8	264.4	260.2	257.7
15°	757.8	678.4	527.4	405.6	322.4	279.5	254.9	243.0	235.3	233.9	231.4
17.5°	769.4	673.2	498.3	364.1	283.7	246.9	229.3	220.2	214.9	213.9	212.8
20°	788.7	677.0	474.4	329.4	254.6	224.0	208.9	202.3	199.5	198.4	197.7
22.5°	836.4	697.0	458.6	301.6	231.4	204.4	192.8	188.6	186.8	186.1	185.4
25°	926.7	762.4	467.4	283.7	214.9	186.8	178.7	176.6	174.9	174.5	174.5
27.5°	1024.7	831.5	494.8	282.3	203.7	174.2	166.8	165.4	164.7	164.7	164.7
30°	1204.8	961.8	554.8	311.5	205.8	164.0	155.9	155.2	155.9	157.0	157.0
32.5°	1384.6	1120.2	637.0	338.9	210.3	155.6	146.4	146.4	148.2	150.3	150.3
35°	1373.7	1107.9	581.9	294.3	185.8	145.4	137.7	138.0	141.9	144.0	144.0
37.5°	1261.0	994.5	516.2	258.4	170.7	137.7	129.6	130.3	134.5	136.9	137.3
40°	1356.5	1062.6	539.7	263.7	165.4	132.0	122.6	123.6	127.1	129.2	128.9
42.5°	1532.8	1186.9	590.6	273.5	161.2	127.5	116.9	116.9	119.0	120.4	120.1
45°	1721.4	1328.1	652.4	282.0	156.6	123.6	112.4	110.6	111.3	111.7	111.0
47.5°	1930.3	1491.0	715.7	292.5	152.4	120.1	106.4	104.3	103.6	102.5	103.2
50°	2143.8	1639.2	777.5	299.5	148.5	115.5	101.1	97.3	95.5	94.1	93.8
52.5°	2355.9	1809.1	826.6	303.7	144.3	110.3	95.2	89.9	87.4	85.3	84.6
55°	2540.2	1939.8	874.4	305.9	139.8	104.6	88.5	82.2	78.0	75.5	75.1
57.5°	2638.6	1982.6	895.1	305.9	134.5	98.3	81.8	74.4	71.6	69.5	69.2
60°	2600.3	1876.2	864.5	301.6	127.1	90.9	74.4	68.8	67.1	68.1	68.1
62°	2463.0	1676.1	799.9	289.0	119.7	83.2	69.5	65.0	63.9	65.3	66.0
62.5°	2418.0	1620.2	768.0	284.8	117.3	81.8	68.5	63.6	63.2	64.6	64.3
65°	2113.9	1267.3	604.0	253.2	105.7	74.1	62.9	59.7	61.5	61.5	61.1
67.5°	1787.7	971.6	438.6	211.4	94.1	67.4	57.2	57.2	56.9	55.8	55.5
70°	1405.3	715.3	304.8	161.5	80.8	60.4	52.0	50.6	49.2	48.5	48.8
72.5°	966.0	503.9	201.6	120.4	65.3	50.6	44.9	42.8	41.1	40.0	39.7
75°	575.2	308.0	134.1	80.8	49.9	42.5	36.9	34.4	33.4	31.6	31.6
77.5°	315.3	185.8	78.3	55.5	39.3	35.1	30.2	26.7	27.0	25.6	25.6
80°	167.9	97.3	48.5	37.6	29.8	28.8	24.9	22.1	21.4	18.3	17.6
82.5°	99.7	54.8	30.6	25.6	21.8	22.1	19.7	17.2	15.1	6.3	4.9
85°	56.9	27.0	14.4	12.6	10.9	13.0	11.6	8.8	5.6	1.1	1.4
87.5°	17.2	5.6	3.9	3.9	3.5	3.2	2.5	1.8	1.4	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)