

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: P1461998

Luminaire Tested: USSL-70-8540-U-T2RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461998
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-70-8540-U-T2RE
Description: USSL DISCRETE LED 1 SQUARE 70W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10435.1 lumens
Efficiency: N/A
Efficacy: 142.9 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): 73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.73%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

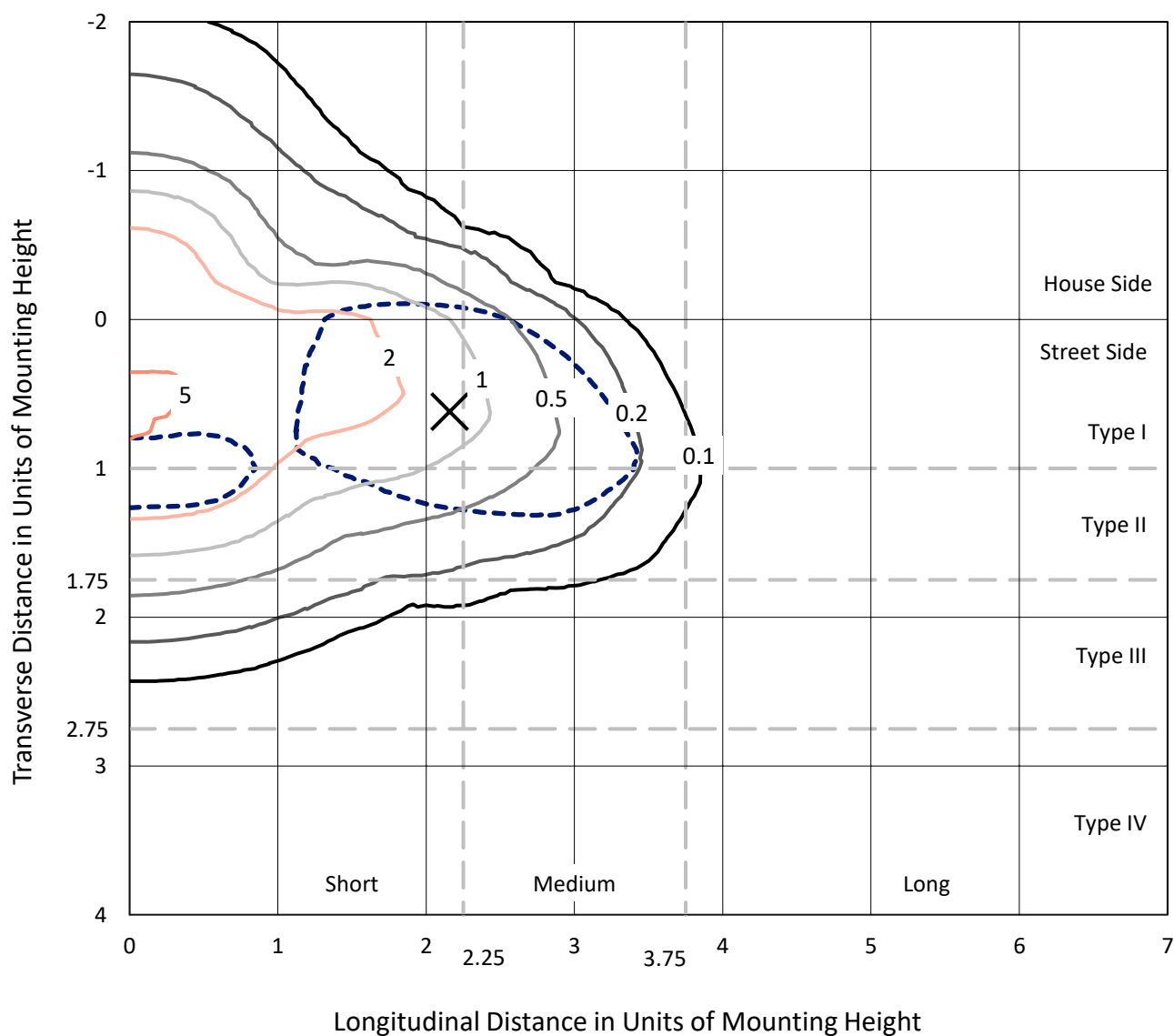
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



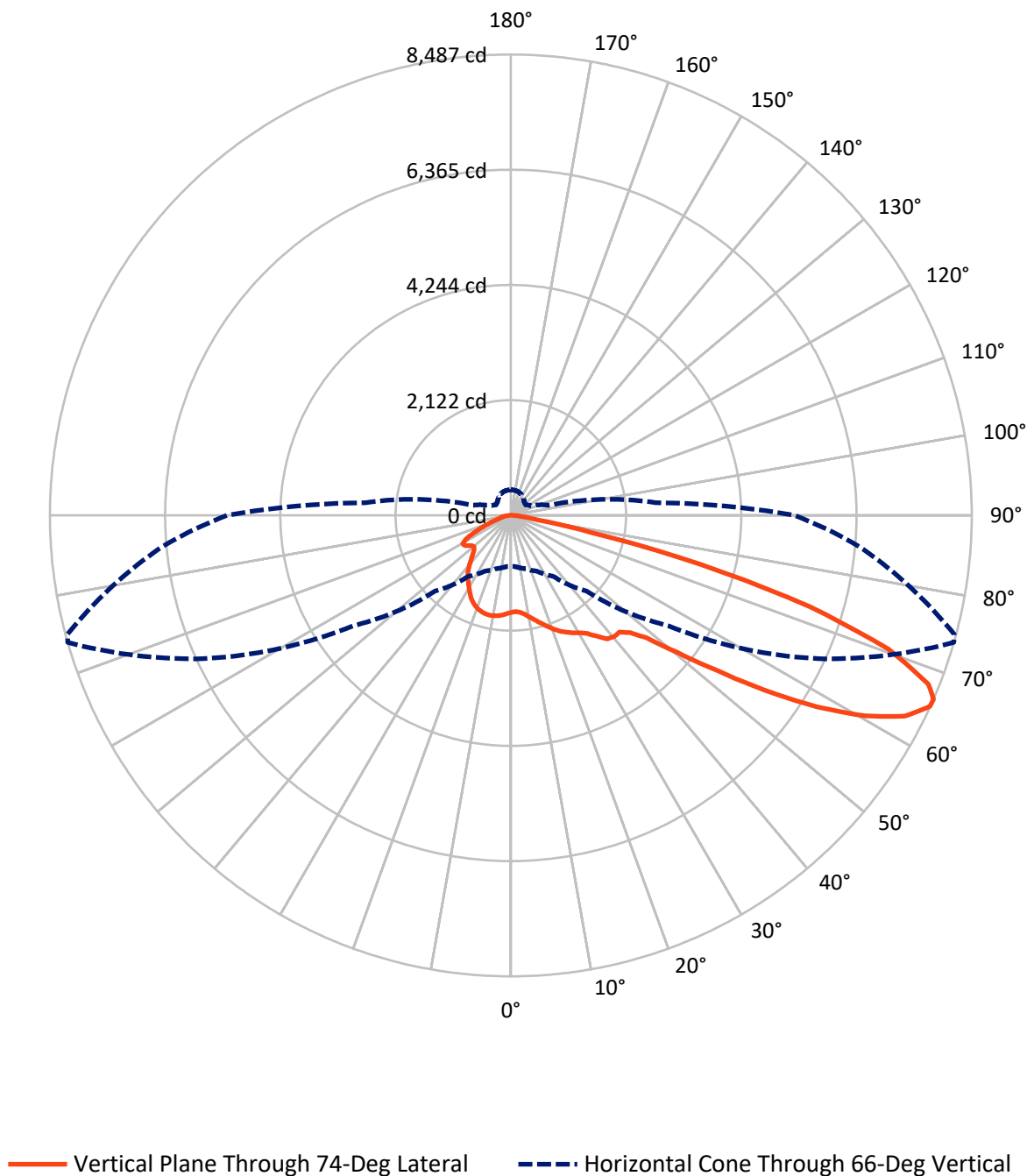
Based on 20 foot mounting height. Maximum calculated value = 5.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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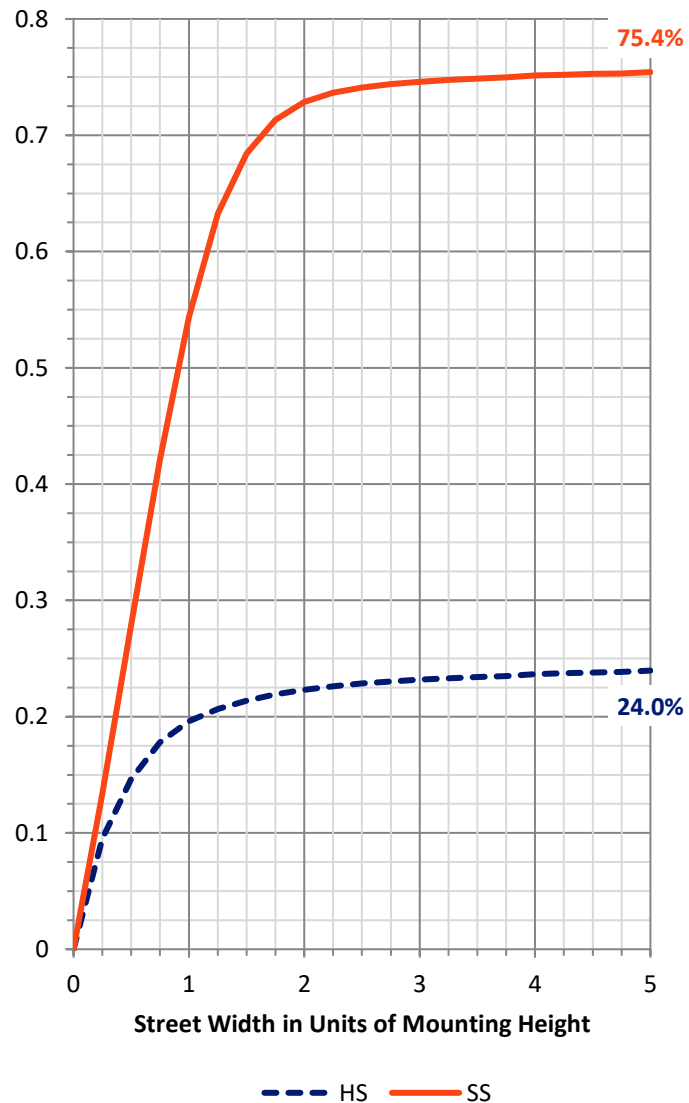
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2539.9	0.0	2539.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	7895.2	0.0	7895.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	10435.1	0.0	10435.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.6
10°-20°	518.8	5.0
20°-30°	966.6	9.3
30°-40°	1450.2	13.9
40°-50°	1911.1	18.3
50°-60°	2329.5	22.3
60°-70°	2129.1	20.4
70°-80°	832.2	8.0
80°-90°	129.6	1.2
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°	10435.1	100.0
0°-180°	10435.1	100.0

Coefficient of Utilization



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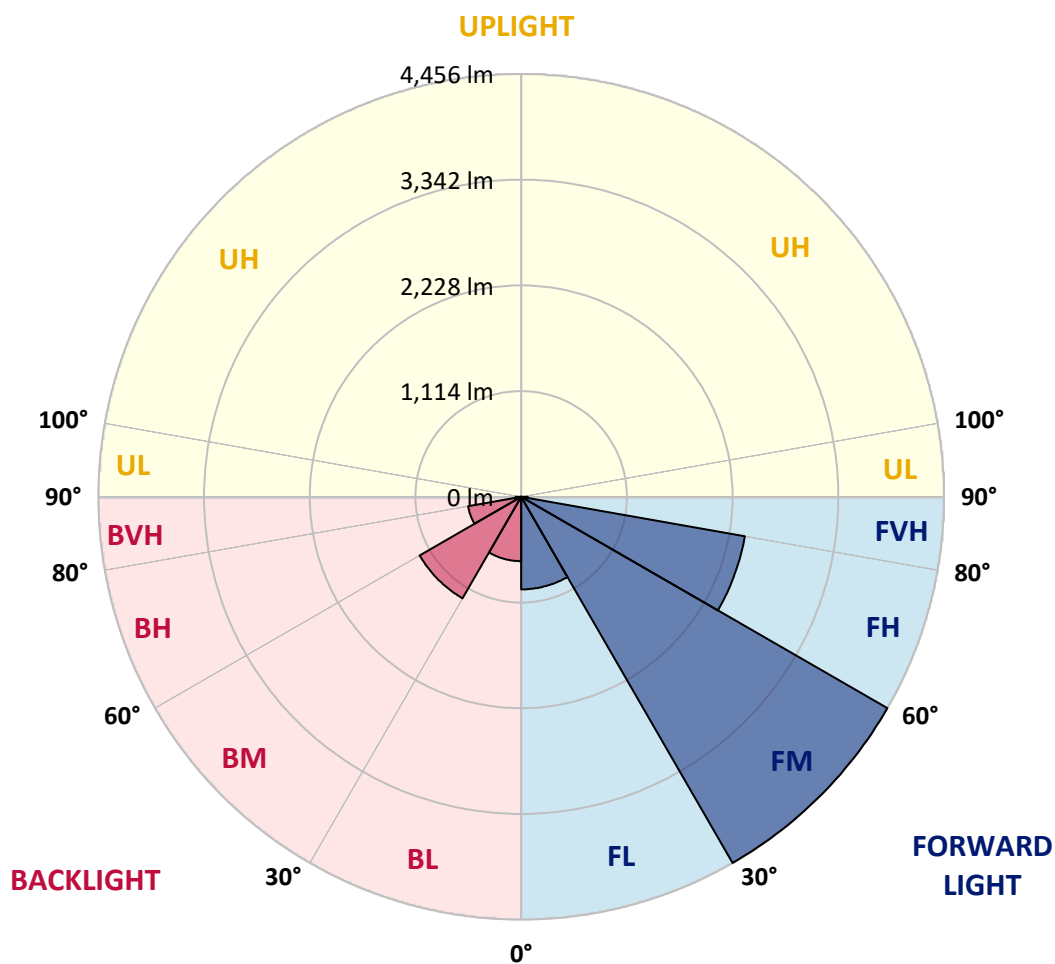
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.5	9.3			
FM	(30°-60°)	4455.9	42.7			
FH	(60°-80°)	2393.6	22.9			G2/5000
FVH	(80°-90°)	70.1	0.7			G1/100
BL	(0°-30°)	677.9	6.5	B2/1000		
BM	(30°-60°)	1234.8	11.8	B2/2500		
BH	(60°-80°)	567.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	59.5	0.6			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°	74°	75°	85°
0°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1768.0	1767.0	1763.2	1764.6	1766.5	1767.5	1771.4	1769.0	1772.8	1778.2	1782.0
5°	1716.7	1717.7	1723.5	1736.1	1759.3	1779.6	1794.6	1796.1	1792.7	1799.0	1801.9
7.5°	1638.8	1634.9	1647.5	1669.8	1699.8	1745.3	1801.4	1834.3	1836.7	1842.5	1845.0
10°	1667.3	1668.3	1665.9	1659.6	1675.1	1716.7	1789.8	1864.8	1902.1	1908.4	1909.8
12.5°	1833.3	1830.4	1812.5	1786.9	1764.6	1750.1	1799.9	1894.3	1975.1	1980.0	1995.0
15°	2042.9	2023.1	2011.9	1978.1	1927.7	1872.1	1855.6	1940.3	2055.0	2069.0	2097.1
17.5°	2237.5	2225.9	2214.2	2175.0	2107.3	2037.1	1966.4	2001.8	2144.1	2163.4	2204.6
20°	2439.8	2436.9	2421.4	2386.1	2315.4	2218.6	2107.3	2086.5	2230.2	2253.9	2322.2
22.5°	2646.9	2648.4	2632.9	2587.4	2529.8	2410.7	2265.1	2175.5	2313.9	2344.9	2431.5
25°	2838.1	2834.7	2812.0	2795.0	2742.3	2621.3	2447.0	2279.1	2383.6	2417.0	2532.2
27.5°	2984.7	2972.2	2996.4	2989.1	2937.8	2817.8	2618.8	2393.3	2449.5	2488.7	2619.8
30°	3150.3	3139.1	3165.3	3187.5	3134.3	3014.7	2786.3	2489.6	2506.6	2551.6	2702.6
32.5°	3382.1	3377.7	3375.3	3391.8	3352.1	3205.4	2955.2	2626.1	2592.7	2636.8	2786.3
35°	3706.8	3692.3	3644.9	3616.3	3574.2	3391.3	3147.4	2812.0	2734.0	2779.5	2881.7
37.5°	4058.7	4051.9	3964.8	3859.8	3748.0	3554.9	3326.4	2995.4	2885.5	2925.2	2957.2
40°	4448.8	4397.5	4324.4	4163.7	3938.2	3654.1	3354.5	2976.5	2930.5	2980.9	2971.7
42.5°	4775.5	4707.2	4625.5	4465.7	4131.8	3770.3	3394.2	2973.1	2937.3	2994.9	2948.9
45°	5029.6	4997.6	4869.9	4706.3	4330.2	3877.2	3501.6	3106.7	3078.2	3139.1	2996.8
47.5°	5072.2	5038.3	4995.2	4877.1	4465.3	3998.7	3650.7	3362.3	3369.5	3453.7	3190.9
50°	4688.9	4680.6	4751.8	4831.1	4534.5	4076.1	3831.2	3744.1	3951.7	4002.6	3680.2
52.5°	3948.8	3939.2	4172.0	4457.0	4364.6	4117.8	4050.5	4306.5	4723.2	4807.9	4318.6
55°	3132.4	3193.3	3410.6	3869.0	3907.2	3949.3	4278.4	4956.5	5682.5	5724.6	5011.2
57.5°	2642.1	2623.2	2784.9	3208.8	3335.6	3592.1	4372.3	5668.4	6649.0	6613.2	5684.9
60°	2224.9	2232.1	2318.3	2634.8	2799.9	3075.7	4308.0	6309.7	7499.4	7456.3	6255.0
62.5°	1684.3	1667.8	1754.0	2014.3	2353.1	2625.6	4084.8	6612.2	8139.2	8093.7	6532.8
65°	1101.6	1121.9	1191.1	1353.7	1670.2	2192.5	3715.6	6434.6	8481.4	8439.3	6514.9
66°	937.0	945.2	1015.4	1131.1	1370.2	1969.8	3541.3	6242.9	8487.2	8451.8	6417.7
67.5°	717.8	729.9	788.9	860.5	1005.7	1526.5	3232.1	5849.9	8293.1	8261.2	6141.8
70°	526.6	530.4	577.4	593.9	618.1	844.1	2424.8	5046.0	7375.9	7366.3	5076.0
72.5°	401.7	406.5	433.7	447.7	439.9	509.6	1372.1	4111.0	5759.4	5749.8	3499.2
75°	346.5	345.1	353.3	352.3	347.5	364.4	602.1	2770.8	3607.1	3626.0	1710.4
77.5°	284.6	286.0	291.8	286.5	282.6	285.1	366.9	1437.4	1525.0	1484.9	517.4
80°	228.0	229.9	235.7	232.3	227.0	232.3	267.2	520.3	511.6	454.9	208.6
82.5°	179.6	174.2	179.1	181.5	177.1	183.9	200.4	237.6	221.7	215.9	146.2
85°	116.2	117.1	108.4	121.0	117.1	119.1	137.5	162.1	155.4	153.9	100.7
87.5°	38.7	42.1	46.0	46.9	48.4	50.3	59.0	71.6	90.0	93.4	41.6
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°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1789.3	1796.6	1806.2	1817.9	1826.1	1831.9	1828.5	1829.0	1827.5	1822.7	1821.7
5°	1810.1	1821.2	1837.2	1840.6	1831.4	1813.0	1790.7	1768.5	1756.4	1743.3	1742.8
7.5°	1854.6	1860.0	1863.8	1836.7	1786.4	1739.9	1691.0	1657.7	1642.6	1633.5	1641.7
10°	1913.7	1914.2	1881.3	1801.9	1716.7	1653.3	1613.1	1587.5	1573.0	1567.6	1570.1
12.5°	1990.2	1979.0	1892.4	1759.8	1649.4	1588.0	1554.6	1538.6	1527.5	1523.6	1525.5
15°	2082.6	2046.3	1890.0	1708.5	1586.5	1538.1	1514.9	1502.8	1495.0	1492.1	1495.5
17.5°	2174.1	2103.9	1874.5	1651.8	1539.1	1505.2	1489.7	1476.2	1472.8	1470.8	1473.7
20°	2264.1	2154.2	1847.9	1590.9	1504.2	1487.3	1470.3	1462.1	1466.0	1467.9	1473.3
22.5°	2346.4	2184.7	1805.3	1527.9	1476.2	1466.5	1460.7	1458.7	1465.5	1469.4	1474.2
25°	2406.9	2193.4	1748.2	1473.3	1442.8	1446.6	1452.9	1450.0	1452.0	1452.4	1455.8
27.5°	2454.3	2190.5	1666.4	1420.5	1402.1	1419.5	1434.1	1422.0	1416.6	1411.8	1414.7
30°	2495.9	2183.7	1577.3	1358.1	1345.0	1374.5	1391.0	1368.2	1353.7	1344.5	1353.2
32.5°	2531.2	2182.8	1494.5	1277.2	1278.7	1310.1	1327.1	1301.0	1279.2	1270.5	1269.0
35°	2568.0	2185.7	1417.6	1195.0	1186.2	1228.4	1237.1	1212.9	1185.3	1175.6	1176.6
37.5°	2590.8	2188.1	1337.7	1090.4	1085.6	1125.8	1134.0	1116.1	1096.2	1085.1	1081.7
40°	2571.9	2159.1	1227.9	983.9	967.5	1001.9	1023.6	1020.2	991.2	957.8	956.4
42.5°	2560.8	2131.0	1111.7	880.9	865.9	884.2	923.0	902.6	847.9	841.7	837.3
45°	2649.3	2147.9	1014.9	794.7	761.3	790.8	827.1	778.7	755.5	747.3	754.1
47.5°	2899.1	2243.8	943.8	733.2	687.7	715.3	728.9	711.9	692.1	689.2	692.1
50°	3444.5	2495.9	911.8	699.4	637.4	653.9	648.5	656.8	641.8	644.7	647.6
52.5°	4136.6	2948.4	928.3	695.0	602.6	589.5	585.6	603.5	606.4	620.0	624.8
55°	4859.2	3347.2	985.4	710.5	563.8	517.9	524.2	555.6	584.2	602.6	606.9
57.5°	5471.5	3541.3	1048.8	710.5	512.1	461.2	475.8	521.7	567.2	582.7	584.7
60°	5727.5	3510.8	1068.6	662.6	458.3	415.3	439.9	501.4	544.0	552.7	557.6
62.5°	5692.6	3333.7	985.4	565.3	402.2	380.9	419.6	479.6	509.6	519.8	522.2
65°	5429.4	2933.9	808.7	451.6	354.8	356.2	402.7	452.0	476.2	488.3	493.2
66°	5226.1	2679.3	721.6	417.7	337.8	348.5	395.9	438.0	461.2	470.4	474.8
67.5°	4791.0	2225.4	616.1	363.5	318.9	337.8	381.4	416.7	435.1	445.8	449.1
70°	3492.9	1356.6	442.8	290.4	291.4	317.0	345.1	369.8	404.6	419.6	424.5
72.5°	2067.1	678.1	322.3	245.9	269.1	295.2	308.8	336.9	381.9	408.0	414.8
75°	944.3	332.5	235.2	217.8	241.0	256.5	272.0	310.7	365.9	405.6	412.4
77.5°	320.4	214.4	191.2	195.5	201.3	212.0	235.2	284.6	348.0	392.0	403.2
80°	173.3	169.9	158.3	165.5	167.0	176.7	201.8	251.7	316.0	354.3	356.7
82.5°	138.9	131.6	125.8	128.7	131.6	144.2	162.1	208.1	268.1	218.8	221.2
85°	89.5	78.9	81.8	86.1	89.1	100.2	111.8	154.4	193.1	102.1	97.3
87.5°	26.6	24.2	29.0	32.4	31.9	32.4	43.1	80.8	113.7	47.9	32.9
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)