

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: P1461896

Luminaire Tested: USSL-150-8540-U-T4RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461896
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-T4RE
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE IV ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18876.1 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

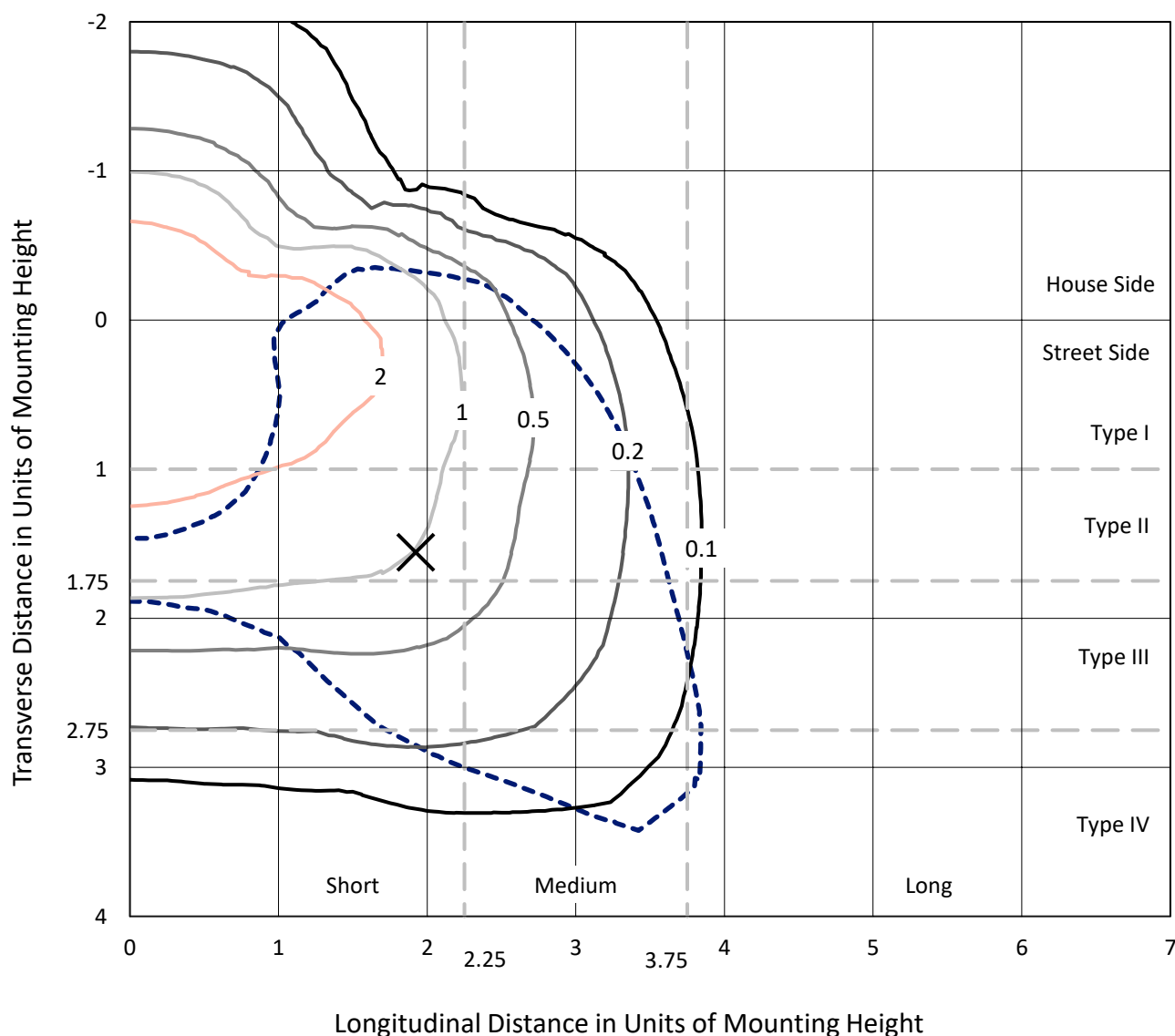
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

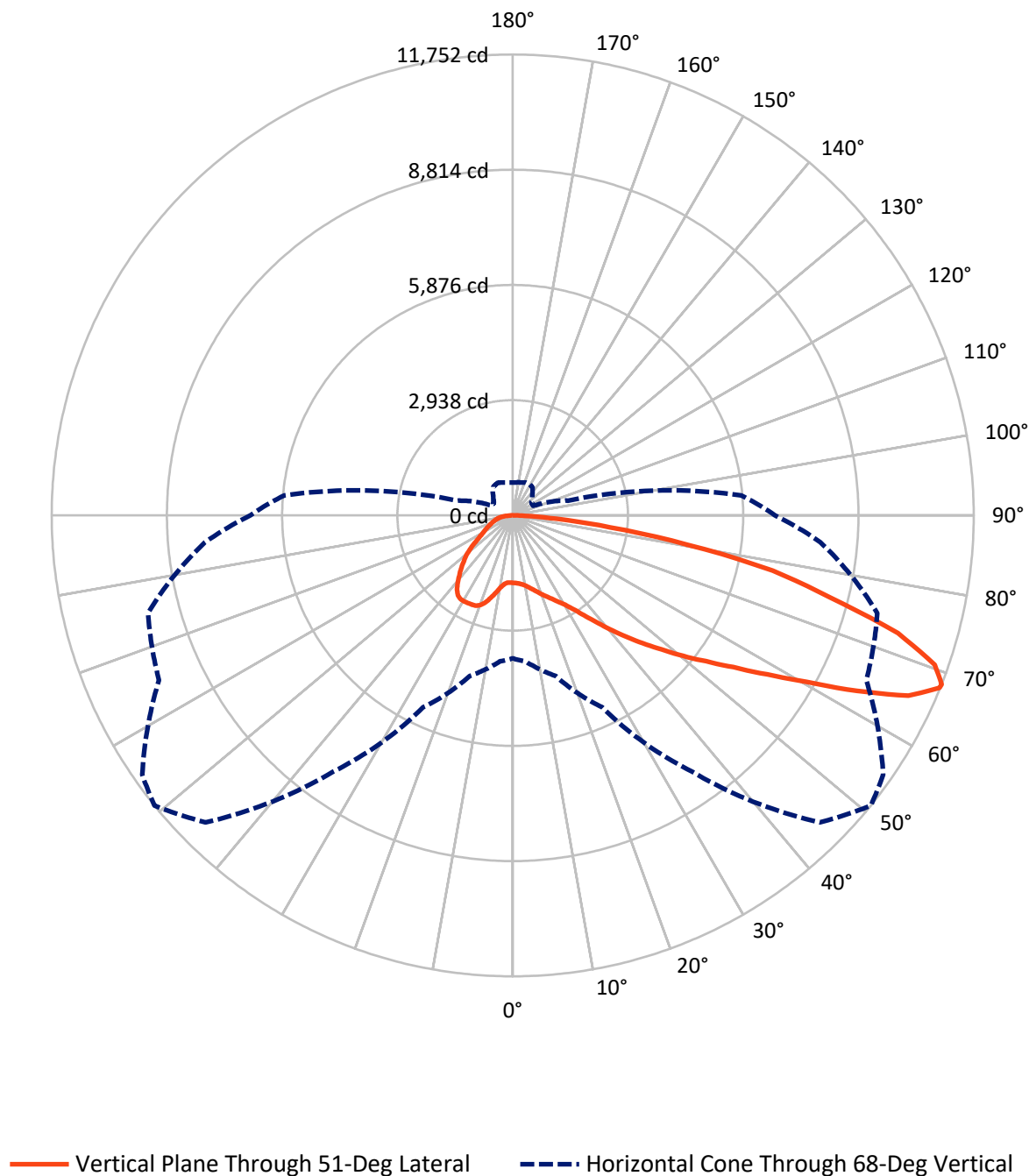


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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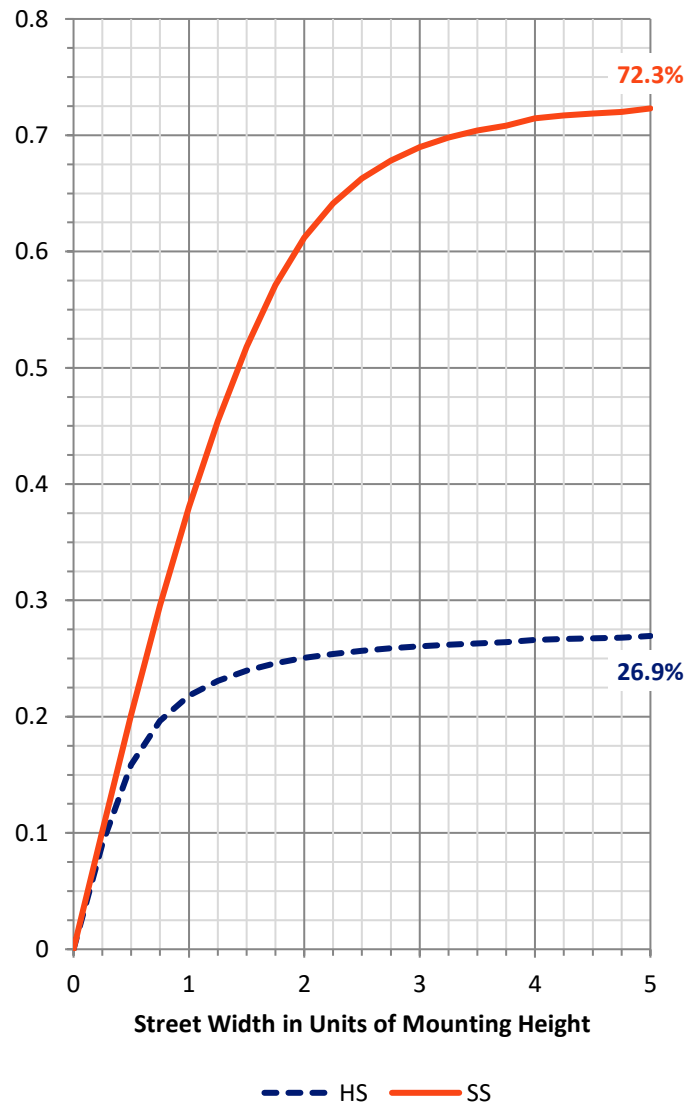
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5160.3	0.0	5160.3
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	13715.8	0.0	13715.8
	% Fixture	72.7	0.0	72.7
Total	Lumens	18876.1	0.0	18876.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	0.9
10°-20°	593.1	3.1
20°-30°	1142.6	6.1
30°-40°	1828.5	9.7
40°-50°	2858.7	15.1
50°-60°	4117.2	21.8
60°-70°	4929.6	26.1
70°-80°	2813.0	14.9
80°-90°	423.4	2.2
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°	18876.1	100.0
0°-180°	18876.1	100.0

Coefficient of Utilization



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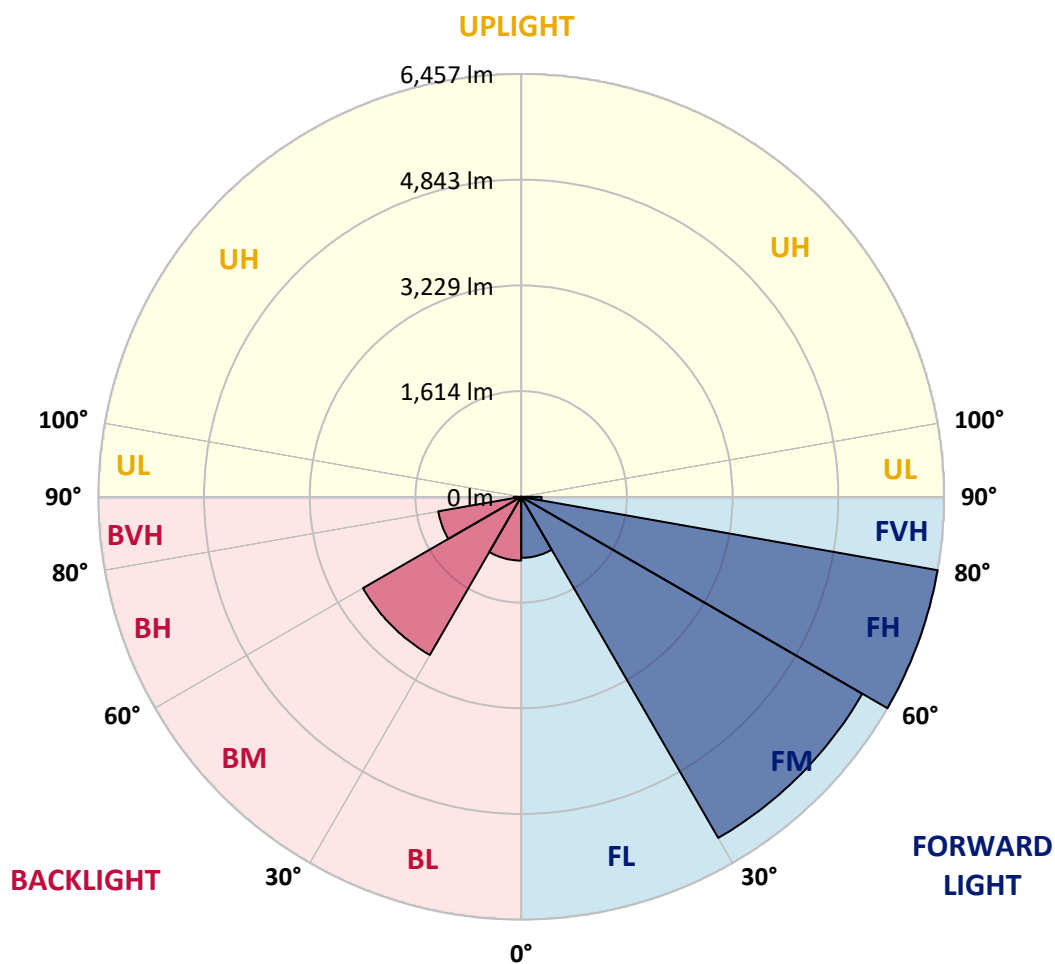
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.2	4.9			
FM	(30°-60°)	6015.4	31.9			
FH	(60°-80°)	6457.5	34.2			G3/7500
FVH	(80°-90°)	310.7	1.6			G3/500
BL	(0°-30°)	973.6	5.2	B2/1000		
BM	(30°-60°)	2789.1	14.8	B3/5000		
BH	(60°-80°)	1285.1	6.8	B3/2500		G3/2500
BVH	(80°-90°)	112.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0
2.5°	1737.5	1736.6	1733.1	1738.3	1733.1	1732.2	1727.8	1730.4	1723.4	1724.3	1724.3
5°	1768.2	1766.5	1765.6	1763.0	1756.8	1755.9	1747.1	1751.5	1745.4	1741.0	1735.7
7.5°	1821.0	1817.5	1811.3	1805.2	1794.6	1783.2	1776.2	1780.6	1772.6	1767.4	1760.3
10°	1902.8	1899.3	1888.7	1877.3	1859.7	1837.7	1822.8	1820.1	1811.3	1803.4	1795.5
12.5°	1995.1	1991.6	1984.5	1971.4	1941.5	1910.7	1887.8	1881.7	1860.6	1849.1	1846.5
15°	2079.5	2073.4	2073.4	2055.8	2031.1	1995.1	1967.0	1957.3	1921.2	1909.8	1908.9
17.5°	2145.5	2139.3	2138.4	2133.1	2109.4	2076.9	2052.3	2042.6	2008.3	1988.1	1991.6
20°	2224.6	2218.4	2216.7	2213.2	2199.1	2169.2	2152.5	2144.6	2102.4	2075.1	2089.2
22.5°	2338.9	2334.5	2326.6	2310.8	2291.4	2273.0	2251.8	2249.2	2214.9	2192.1	2220.2
25°	2473.4	2462.9	2459.4	2433.9	2409.2	2382.9	2365.3	2368.8	2337.1	2317.8	2354.7
27.5°	2641.4	2629.1	2617.6	2592.1	2545.5	2520.0	2499.8	2503.3	2472.5	2471.7	2542.0
30°	2830.4	2826.9	2805.8	2768.9	2710.8	2679.2	2648.4	2655.4	2639.6	2650.2	2768.0
32.5°	3044.1	3045.0	3017.7	2975.5	2915.7	2875.3	2852.4	2855.9	2866.5	2915.7	3057.3
35°	3316.7	3300.8	3301.7	3253.4	3165.4	3130.3	3121.5	3126.7	3163.7	3329.0	3503.1
37.5°	3617.4	3604.2	3604.2	3568.1	3483.7	3423.9	3441.5	3456.5	3584.0	3892.6	4077.2
40°	3941.0	3922.5	3952.4	3940.1	3841.6	3821.4	3811.7	3864.5	4096.6	4522.2	4772.8
42.5°	4181.9	4184.5	4202.1	4220.6	4170.4	4195.9	4219.7	4280.4	4619.8	5213.3	5465.6
45°	4408.7	4410.5	4425.4	4453.6	4472.9	4543.3	4649.7	4736.7	5200.1	5817.4	6086.4
47.5°	4651.4	4642.6	4667.2	4736.7	4764.0	4946.9	5104.3	5256.4	5714.5	6417.0	6668.5
50°	4911.7	4912.6	4938.9	5030.4	5115.7	5396.2	5632.7	5800.6	6275.5	7016.7	7201.3
52.5°	5302.1	5268.7	5294.2	5361.0	5500.8	5878.9	6178.7	6373.9	6837.3	7584.7	7782.6
55°	5738.2	5744.4	5782.2	5827.9	6019.6	6494.4	6827.6	7050.1	7448.4	8270.6	8459.6
57.5°	6156.8	6124.2	6228.9	6376.6	6598.2	7261.1	7650.7	7824.8	8114.0	9091.8	9207.9
60°	6264.0	6271.9	6453.1	6832.9	7317.4	8244.2	8616.1	8703.2	8965.2	10130.2	9840.1
62.5°	5782.2	5805.9	6220.1	6978.0	7976.9	9381.1	9850.6	9855.9	9892.8	10623.5	9873.5
65°	4720.0	4769.2	5327.6	6456.6	8272.3	10496.9	11081.6	11038.5	10289.4	10438.9	9263.3
67.5°	3821.4	3884.7	4398.2	5616.0	8046.3	11060.5	11737.6	11518.6	10059.0	9827.8	8139.5
68°	3645.5	3733.4	4238.2	5396.2	7975.1	11069.3	11751.6	11527.4	9946.5	9622.9	7872.2
70°	3033.5	3126.7	3609.5	4799.1	7682.3	10770.4	11411.4	11226.7	9339.8	8648.6	6812.7
72.5°	1902.8	1959.0	2535.0	3822.3	7000.9	9674.8	10268.3	10222.6	8361.1	7071.2	5164.0
75°	816.9	844.1	1258.3	2306.4	5395.3	8170.3	8342.7	8373.4	6629.8	5004.9	3270.9
77.5°	535.5	536.4	582.1	1020.0	3265.7	6555.1	6777.5	6265.8	4445.7	2666.0	1530.8
80°	450.2	448.4	445.8	488.9	1445.5	4406.1	4516.9	4008.7	2261.5	1081.5	526.7
82.5°	380.7	371.9	353.5	366.7	563.6	2251.0	2501.6	2199.1	1038.4	390.4	236.5
85°	267.3	257.6	233.0	252.4	284.9	979.5	1114.9	969.0	368.4	227.7	139.8
87.5°	115.2	96.7	100.2	118.7	127.5	291.9	306.0	215.4	125.7	94.1	56.3
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°	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0	1719.0
2.5°	1720.8	1720.8	1718.1	1717.2	1713.7	1713.7	1709.3	1709.3	1710.2	1706.7	1707.6
5°	1734.0	1731.3	1728.7	1724.3	1721.6	1721.6	1724.3	1727.8	1730.4	1731.3	1730.4
7.5°	1755.9	1755.9	1754.2	1753.3	1760.3	1774.4	1792.0	1801.7	1821.9	1828.0	1835.1
10°	1795.5	1794.6	1799.0	1816.6	1846.5	1883.4	1916.0	1944.1	1974.0	1978.4	1985.4
12.5°	1841.2	1851.8	1875.5	1920.4	1980.2	2029.4	2077.8	2122.6	2149.0	2166.6	2162.2
15°	1913.3	1930.9	1984.5	2063.7	2123.5	2191.2	2243.9	2282.6	2309.9	2319.6	2328.3
17.5°	2008.3	2039.1	2122.6	2214.0	2283.5	2334.5	2372.3	2382.9	2395.2	2400.4	2404.0
20°	2122.6	2182.4	2287.0	2368.8	2415.4	2429.5	2436.5	2433.0	2439.1	2447.1	2451.4
22.5°	2265.0	2344.2	2461.1	2501.6	2491.9	2470.8	2467.3	2472.5	2487.5	2491.9	2498.9
25°	2434.7	2511.2	2618.5	2587.7	2512.1	2484.9	2508.6	2511.2	2513.0	2511.2	2517.4
27.5°	2632.6	2709.1	2742.5	2602.7	2503.3	2515.6	2535.9	2507.7	2472.5	2448.8	2455.8
30°	2849.8	2905.2	2820.7	2578.1	2506.8	2532.3	2500.7	2409.2	2352.1	2320.4	2324.8
32.5°	3129.4	3126.7	2855.0	2565.8	2529.7	2491.0	2372.3	2268.6	2201.7	2163.9	2165.7
35°	3484.6	3381.7	2882.3	2600.9	2524.4	2380.2	2241.3	2129.6	2076.9	2046.1	2049.6
37.5°	3957.7	3671.9	2943.0	2651.9	2436.5	2240.4	2105.0	2038.2	2010.9	1988.9	1994.2
40°	4575.8	4072.0	3124.1	2663.4	2273.0	2079.5	2025.0	1991.6	1965.2	1940.6	1949.4
42.5°	5100.7	4480.8	3477.6	2582.5	2069.0	1952.9	1972.2	1946.7	1906.3	1862.3	1866.7
45°	5623.9	4844.9	3895.2	2406.6	1859.7	1858.8	1903.7	1865.8	1809.6	1741.9	1743.6
47.5°	6064.4	5201.9	4316.4	2192.1	1668.9	1739.2	1795.5	1745.4	1652.2	1567.8	1559.9
50°	6468.0	5607.2	4668.1	1950.3	1506.2	1591.5	1621.4	1537.0	1463.1	1414.8	1410.4
52.5°	6900.6	6089.0	4949.5	1736.6	1330.4	1386.6	1412.1	1385.8	1354.1	1325.1	1318.9
55°	7457.2	6717.7	5243.2	1586.2	1143.1	1195.8	1247.7	1292.5	1273.2	1258.3	1249.5
57.5°	8114.0	7517.9	5334.6	1392.8	976.9	1029.6	1159.8	1228.4	1213.4	1202.9	1199.3
60°	8608.2	8091.2	4820.2	1082.4	841.5	923.2	1104.4	1181.8	1151.0	1123.7	1115.8
62.5°	8589.7	7942.6	3748.4	821.3	750.9	852.0	1048.1	1109.7	1063.1	1038.4	1027.9
65°	7946.1	7246.2	2639.6	680.6	670.0	783.4	972.5	1020.0	976.9	947.9	942.6
67.5°	6939.3	6173.5	1639.0	590.9	599.7	712.2	892.5	937.3	886.3	859.9	861.7
68°	6687.0	5846.4	1456.1	572.4	583.8	701.7	875.8	914.5	867.9	843.2	841.5
70°	5714.5	4829.0	961.9	521.4	535.5	651.6	813.3	841.5	802.8	782.6	778.2
72.5°	4221.4	3274.5	554.8	460.7	480.1	589.1	728.9	757.9	750.9	756.2	765.0
75°	2610.6	1890.5	409.7	407.1	427.3	538.1	660.3	714.0	729.8	754.4	760.6
77.5°	1245.9	911.8	338.5	351.7	377.2	473.9	600.6	685.0	686.7	690.2	694.6
80°	410.6	348.2	285.8	289.3	326.2	416.8	543.4	604.9	563.6	553.1	539.9
82.5°	217.2	224.2	230.4	233.0	271.7	343.8	426.5	447.6	411.5	289.3	285.8
85°	126.6	133.7	147.7	160.0	186.4	237.4	307.7	308.6	262.0	129.3	113.4
87.5°	42.2	51.0	50.1	59.8	70.3	95.0	130.1	134.5	108.2	44.8	25.5
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)