

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: P1209339

Luminaire Tested: UPW-SA2-110-750-U-SL3-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-750-U-SL3-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10209 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



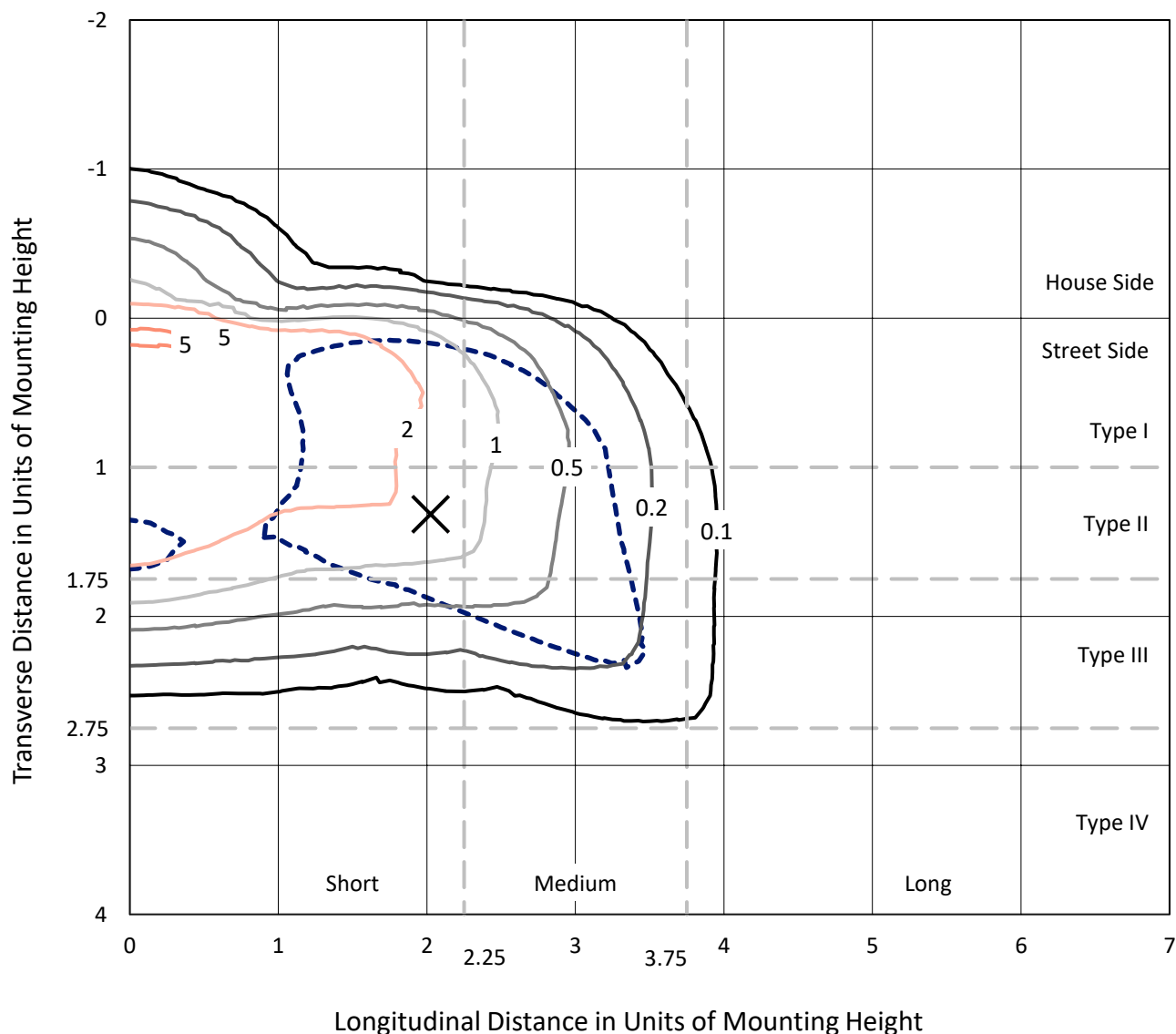
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



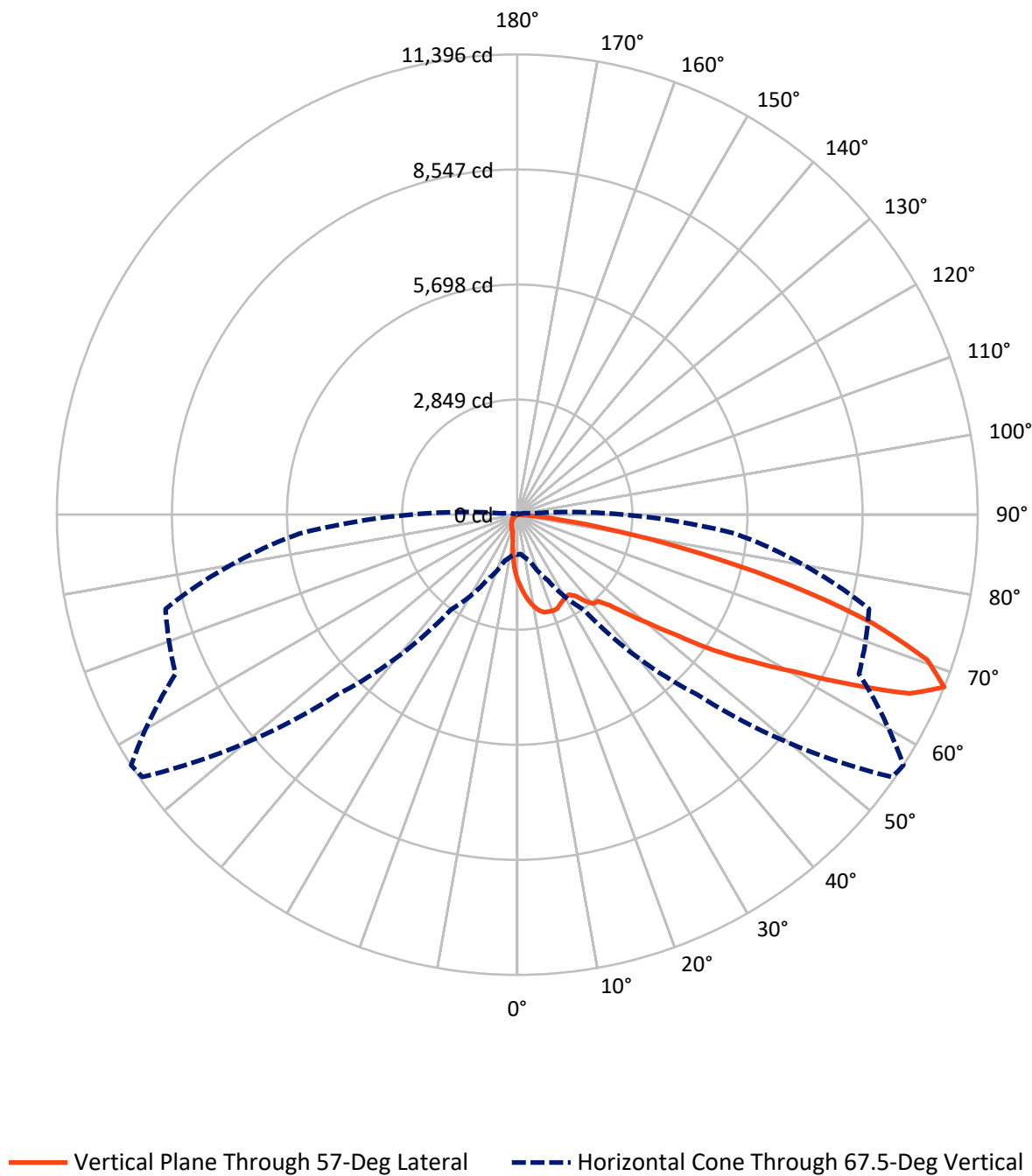
Based on 20 foot mounting height. Maximum calculated value = 5.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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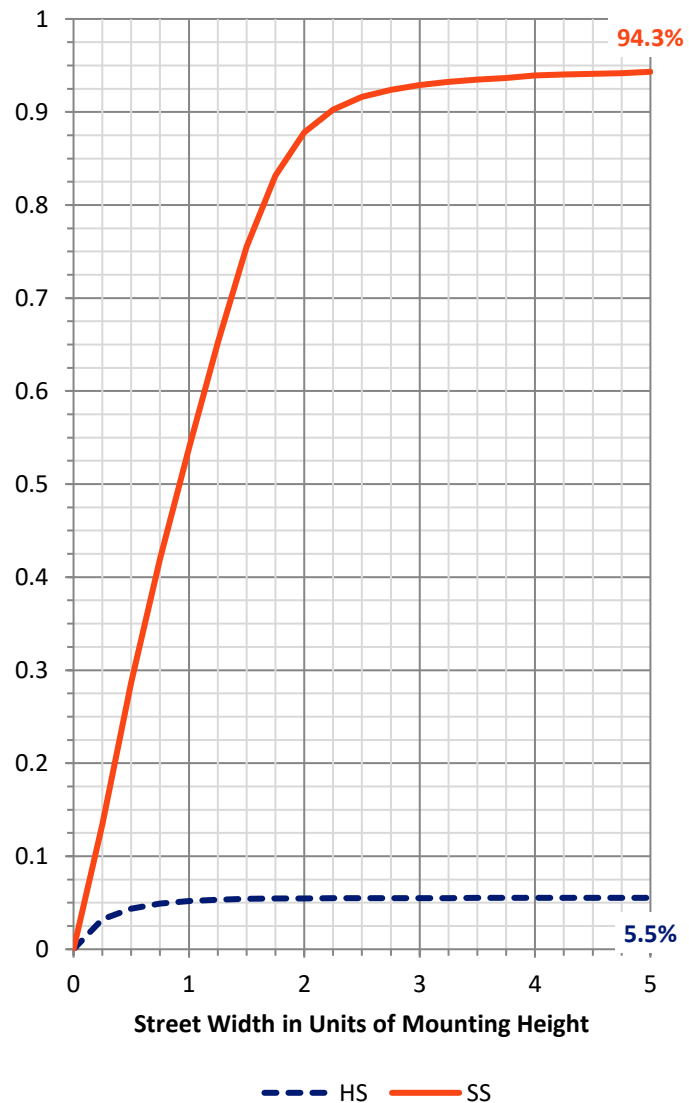
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	568.2	0.0	568.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9640.8	0.0	9640.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	10209.0	0.0	10209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.4
10°-20°	379.7	3.7
20°-30°	555.8	5.4
30°-40°	835.7	8.2
40°-50°	1363.5	13.4
50°-60°	2580.7	25.3
60°-70°	2949.2	28.9
70°-80°	1287.2	12.6
80°-90°	111.2	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°	10209.0	100.0
0°-180°	10209.0	100.0

Coefficient of Utilization



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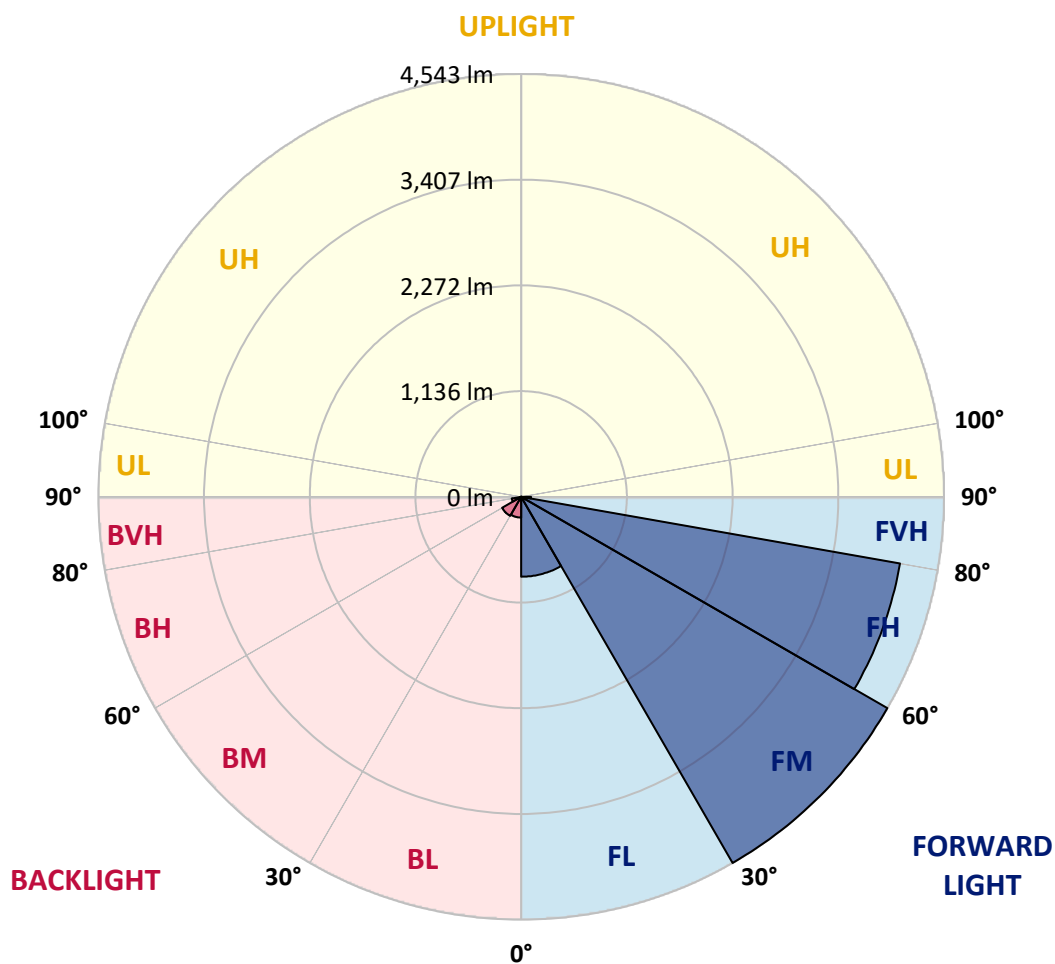
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	858.5	8.4			
FM	(30°-60°)	4543.2	44.5			
FH	(60°-80°)	4133.5	40.5			G2/5000
FVH	(80°-90°)	105.6	1.0			G2/225
BL	(0°-30°)	223.0	2.2	B1/500		
BM	(30°-60°)	236.7	2.3	B1/1000		
BH	(60°-80°)	103.0	1.0	B0/110		G0/110
BVH	(80°-90°)	5.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2
2.5°	1917.3	1933.2	1939.5	1912.6	1887.2	1868.2	1830.2	1806.4	1770.0	1725.6	1663.8
5°	2199.4	2197.8	2182.0	2161.4	2150.3	2090.1	2026.7	2001.3	1942.7	1831.8	1711.3
7.5°	2305.6	2315.1	2326.2	2313.5	2294.5	2262.8	2188.3	2169.3	2083.7	1939.5	1770.0
10°	2256.4	2272.3	2291.3	2324.6	2388.0	2399.0	2342.0	2321.4	2218.4	2059.9	1819.1
12.5°	2029.8	2053.6	2085.3	2193.1	2340.4	2432.3	2445.0	2438.7	2351.5	2167.7	1854.0
15°	1728.8	1703.4	1785.8	1934.8	2177.2	2388.0	2502.0	2506.8	2462.4	2269.1	1892.0
17.5°	1502.2	1525.9	1562.4	1674.9	1926.8	2229.5	2494.1	2524.2	2544.8	2376.9	1936.4
20°	1464.1	1465.7	1481.6	1543.4	1674.9	2039.3	2467.2	2538.5	2646.2	2483.0	1955.4
22.5°	1500.6	1491.1	1499.0	1511.7	1594.1	1846.0	2410.1	2525.8	2706.5	2614.5	1995.0
25°	1548.1	1559.2	1545.0	1529.1	1576.7	1758.9	2343.6	2462.4	2796.8	2731.8	2012.4
27.5°	1681.2	1687.6	1649.5	1592.5	1609.9	1719.3	2240.6	2411.7	2933.0	2863.3	2040.9
30°	1898.3	1892.0	1812.8	1719.3	1679.7	1744.6	2175.6	2356.3	3005.9	2964.7	2026.7
32.5°	2059.9	2047.3	1969.6	1873.0	1803.2	1841.3	2175.6	2362.6	3153.3	3142.2	2053.6
35°	2205.7	2194.6	2098.0	2020.3	1960.1	1995.0	2297.6	2465.6	3364.1	3471.8	2148.7
37.5°	2364.2	2334.1	2258.0	2123.3	2104.3	2239.0	2560.7	2700.1	3698.4	3777.6	2151.9
40°	2614.5	2589.2	2467.2	2327.7	2224.7	2421.2	2766.7	2899.8	3934.5	4023.2	2139.2
42.5°	2958.4	2898.2	2747.7	2544.8	2380.0	2519.5	2790.4	2928.3	4113.6	4405.1	2261.2
45°	3332.4	3314.9	3105.8	2844.3	2670.0	2652.6	3042.4	3194.5	4511.3	5021.5	2525.8
47.5°	3872.7	3736.4	3460.7	3181.8	3032.9	2915.6	3429.0	3660.4	4996.2	5742.5	2920.4
50°	4441.6	4362.3	3942.4	3557.4	3375.1	3332.4	4040.7	4249.8	5617.3	6553.8	3578.0
52.5°	5411.3	5229.1	4661.8	4176.9	3861.6	3820.4	4706.2	4974.0	6317.7	7522.0	4241.9
55°	6064.2	5951.7	5381.2	5015.2	4601.6	4476.4	5649.0	5942.2	7175.0	8366.6	4905.8
57.5°	6273.3	6135.5	5622.1	5533.3	5438.3	5509.6	6626.7	6870.7	7769.2	9025.7	5493.7
60°	5435.1	5430.3	5137.2	5368.5	5839.2	6663.1	7781.9	7889.6	8250.9	9429.8	5859.8
62.5°	3909.1	3896.5	3955.1	4528.7	5406.6	7444.3	9371.2	9250.8	8669.2	9654.8	6057.8
65°	2026.7	2036.2	2330.9	3086.8	4349.7	7384.1	10825.8	10673.7	8927.5	9517.0	5918.4
67.5°	988.8	980.9	1172.6	1795.3	2872.8	6305.0	11325.0	11396.3	9333.2	9011.5	5414.5
70°	492.8	499.1	638.6	947.6	1568.7	4528.7	10458.2	10760.9	8959.2	7935.6	4611.1
72.5°	347.0	351.8	434.2	562.5	733.7	2749.2	8680.3	9201.6	7477.6	6312.9	3250.0
75°	248.8	256.7	318.5	419.9	407.2	1380.2	6709.1	7018.1	5420.8	3898.1	1722.4
77.5°	180.6	191.7	248.8	323.3	282.1	580.0	4646.0	4638.1	3058.2	1852.4	697.2
80°	118.8	126.8	183.8	239.3	201.2	269.4	2722.3	2563.8	1353.2	709.9	253.5
82.5°	66.6	69.7	123.6	166.4	139.4	126.8	1217.0	1121.9	457.9	259.9	118.8
85°	4.8	7.9	72.9	104.6	74.5	63.4	340.7	309.0	147.4	118.8	63.4
87.5°	0.0	0.0	9.5	19.0	12.7	9.5	82.4	71.3	44.4	69.7	31.7
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°	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2	1624.2
2.5°	1638.5	1594.1	1527.5	1462.6	1399.2	1342.1	1300.9	1259.7	1242.3	1202.7	1270.8
5°	1648.0	1568.7	1410.3	1256.6	1123.5	980.9	887.4	820.8	787.5	757.4	759.0
7.5°	1657.5	1537.0	1293.0	1033.1	841.4	690.9	606.9	576.8	564.1	548.3	548.3
10°	1646.4	1486.3	1125.0	812.9	618.0	537.2	491.2	480.1	486.5	484.9	489.6
12.5°	1646.4	1426.1	953.9	633.8	507.1	459.5	446.9	445.3	454.8	461.1	464.3
15°	1625.8	1334.2	782.8	519.7	443.7	426.3	421.5	421.5	427.8	434.2	432.6
17.5°	1608.3	1242.3	640.2	446.9	405.7	400.9	397.7	394.6	402.5	408.8	410.4
20°	1565.6	1114.0	527.7	402.5	380.3	374.0	372.4	369.2	377.1	383.5	388.2
22.5°	1503.8	968.2	451.6	369.2	358.1	350.2	345.4	347.0	354.9	361.3	358.1
25°	1421.4	839.8	396.1	345.4	329.6	324.8	318.5	321.7	323.3	329.6	334.3
27.5°	1331.0	714.6	359.7	326.4	310.6	301.1	293.1	291.6	293.1	301.1	297.9
30°	1197.9	605.3	334.3	304.2	286.8	274.1	264.6	259.9	258.3	259.9	261.5
32.5°	1096.5	532.4	316.9	286.8	264.6	248.8	237.7	228.2	225.0	221.8	221.8
35°	1031.6	492.8	299.5	263.0	242.4	226.6	209.2	198.1	191.7	188.6	190.1
37.5°	892.1	424.7	278.9	245.6	221.8	202.8	185.4	168.0	163.2	166.4	166.4
40°	774.9	364.5	259.9	225.0	198.1	180.6	161.6	141.0	137.9	147.4	149.0
42.5°	730.5	337.5	242.4	206.0	177.5	163.2	137.9	122.0	122.0	129.9	131.5
45°	784.4	329.6	226.6	188.6	160.0	144.2	118.8	104.6	104.6	112.5	114.1
47.5°	955.5	342.3	210.7	171.1	147.4	126.8	98.2	91.9	91.9	95.1	96.7
50°	1318.4	383.5	194.9	153.7	134.7	107.8	85.6	79.2	77.6	79.2	79.2
52.5°	1779.5	465.9	177.5	137.9	118.8	90.3	74.5	68.1	63.4	63.4	61.8
55°	2245.3	554.6	160.0	122.0	103.0	77.6	63.4	57.0	49.1	46.0	44.4
57.5°	2655.7	625.9	139.4	107.8	88.7	66.6	55.5	42.8	31.7	25.4	25.4
60°	2910.9	644.9	120.4	93.5	72.9	57.0	44.4	28.5	15.8	12.7	11.1
62.5°	2958.4	584.7	103.0	79.2	61.8	47.5	31.7	15.8	6.3	1.6	1.6
65°	2830.1	461.1	88.7	66.6	50.7	38.0	20.6	7.9	0.0	0.0	0.0
67.5°	2614.5	362.9	74.5	55.5	42.8	30.1	12.7	1.6	0.0	0.0	0.0
70°	2280.2	290.0	65.0	47.5	36.4	25.4	7.9	0.0	0.0	0.0	0.0
72.5°	1679.7	191.7	57.0	42.8	31.7	19.0	4.8	0.0	0.0	0.0	0.0
75°	919.1	122.0	52.3	39.6	30.1	15.8	3.2	0.0	0.0	0.0	0.0
77.5°	372.4	85.6	46.0	38.0	30.1	15.8	3.2	0.0	0.0	0.0	0.0
80°	141.0	60.2	39.6	33.3	28.5	15.8	3.2	0.0	0.0	0.0	0.0
82.5°	74.5	49.1	38.0	33.3	26.9	14.3	1.6	0.0	0.0	0.0	0.0
85°	36.4	15.8	19.0	19.0	22.2	12.7	1.6	0.0	0.0	0.0	0.0
87.5°	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)