

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1210841

Luminaire Tested: **ARCH3-90-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

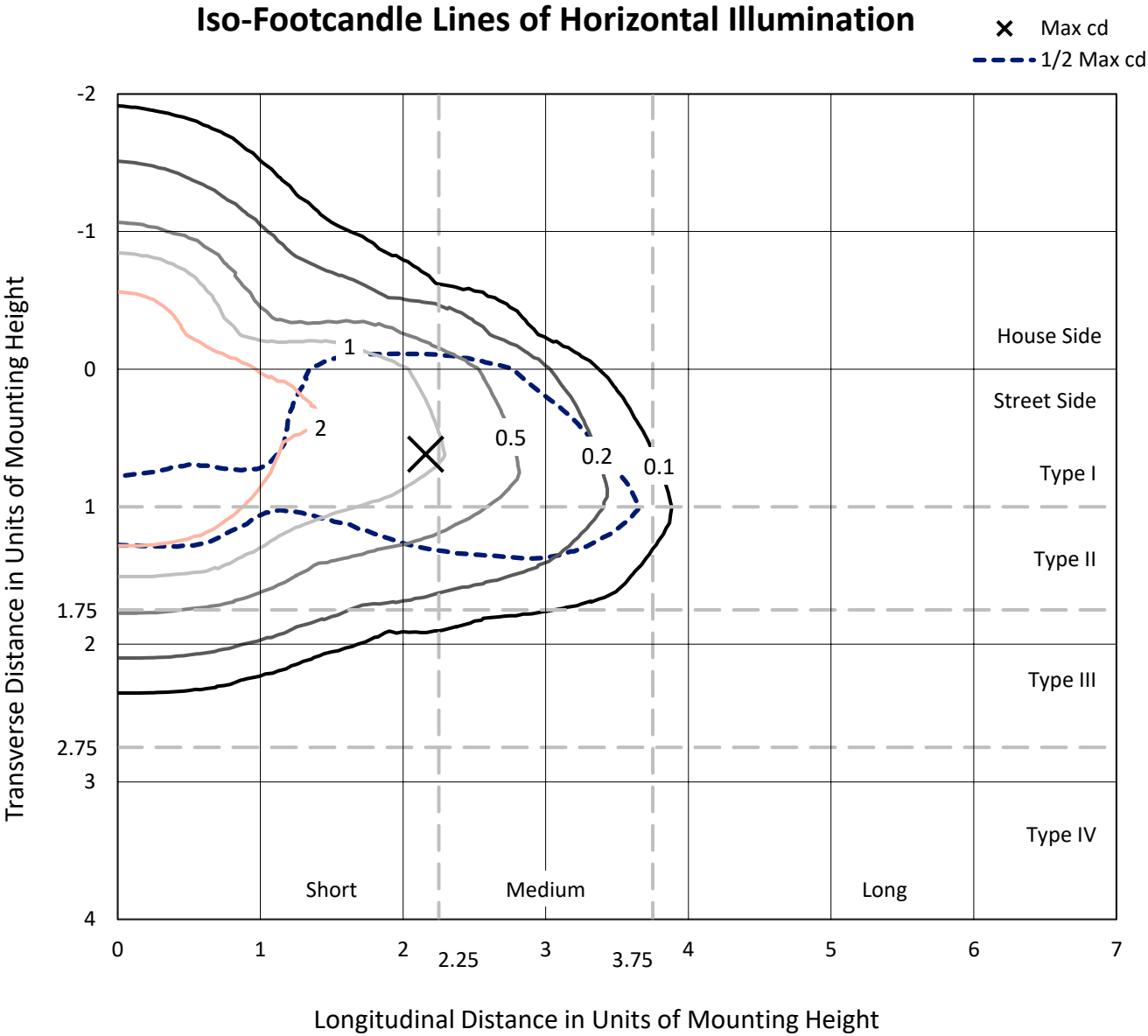
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13690 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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: 24 FT

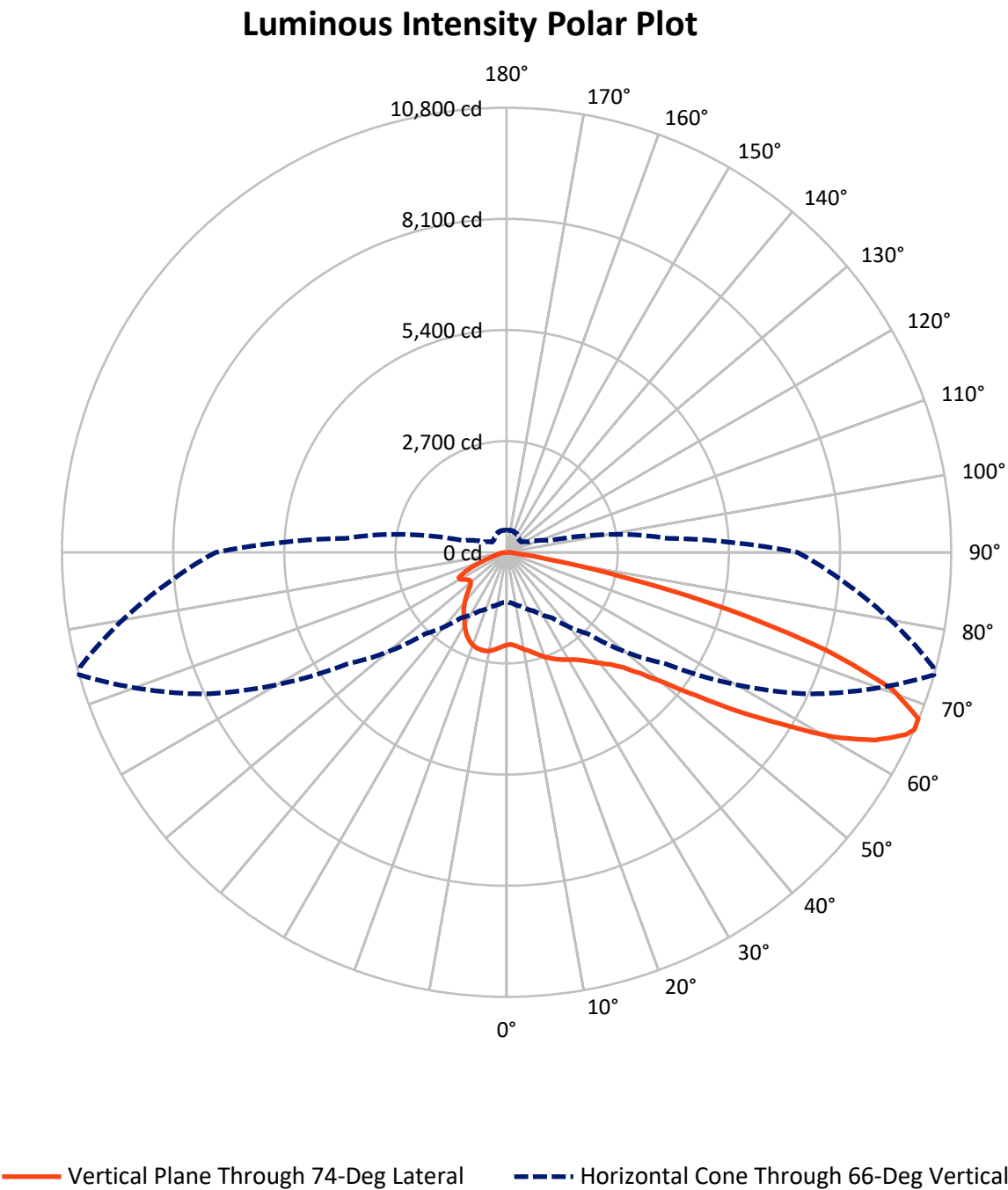


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Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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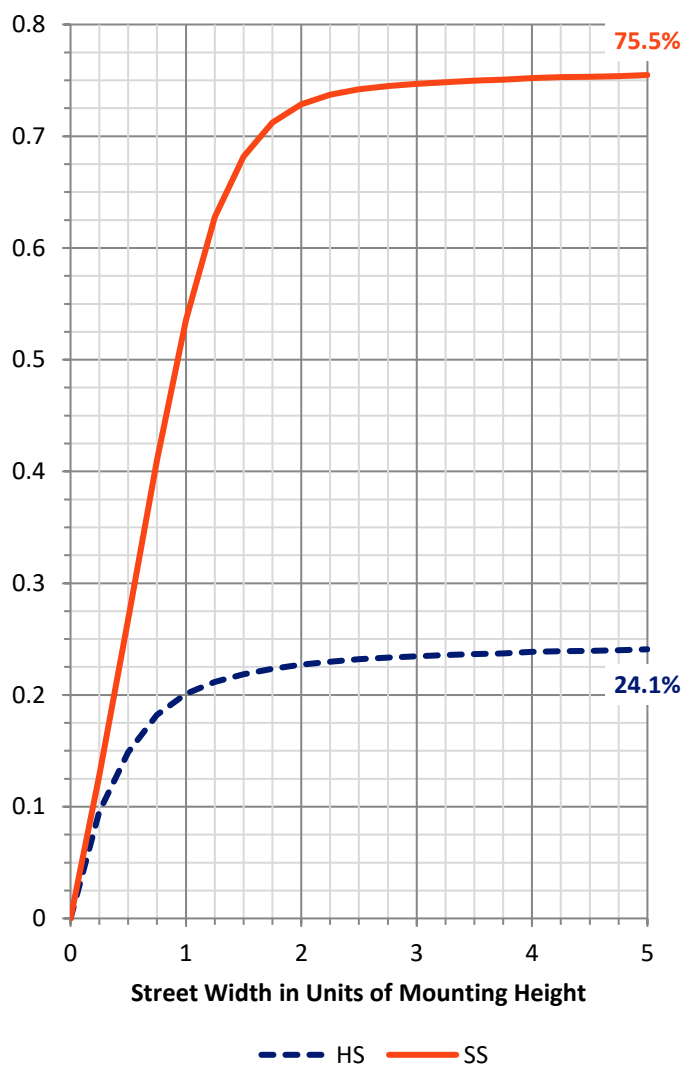
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3333.9	0.0	3333.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10356.1	0.0	10356.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	13690.0	0.0	13690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	1.6
10°-20°	658.3	4.8
20°-30°	1235.4	9.0
30°-40°	1900.3	13.9
40°-50°	2556.1	18.7
50°-60°	3022.9	22.1
60°-70°	2796.3	20.4
70°-80°	1176.4	8.6
80°-90°	130.2	1.0
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°	13690.0	100.0
0°-180°	13690.0	100.0

Coefficient of Utilization



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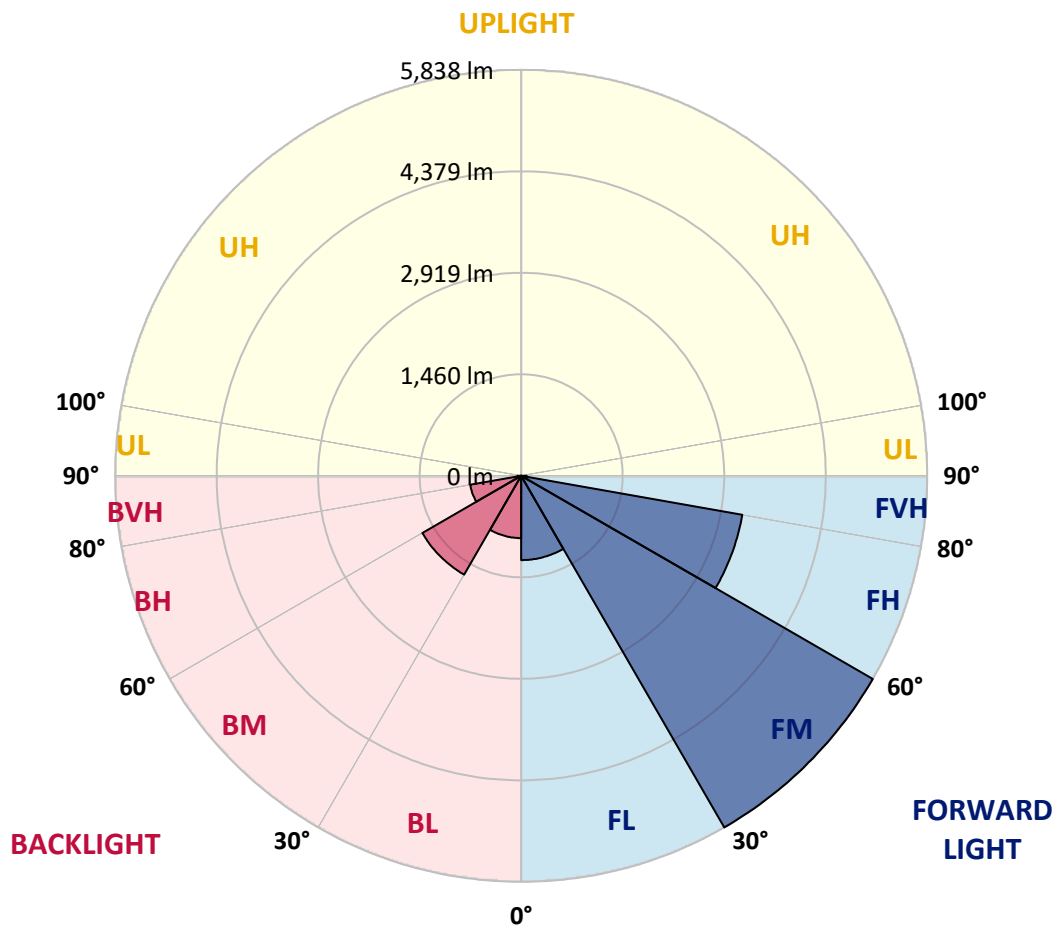
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1211.7	8.9			
FM	(30°-60°)	5838.0	42.6			
FH	(60°-80°)	3228.5	23.6			G2/5000
FVH	(80°-90°)	77.9	0.6			G1/100
BL	(0°-30°)	896.1	6.5	B2/1000		
BM	(30°-60°)	1641.3	12.0	B2/2500		
BH	(60°-80°)	744.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	52.3	0.4			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°	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2
2.5°	2237.2	2233.7	2240.7	2251.3	2256.6	2247.8	2244.2	2242.5	2242.5	2237.2	2246.0
5°	2131.5	2129.7	2145.6	2165.0	2202.0	2228.4	2263.6	2284.8	2277.7	2267.1	2274.2
7.5°	1994.1	1990.6	2010.0	2046.9	2098.0	2156.2	2242.5	2309.4	2335.8	2332.3	2330.6
10°	2046.9	2043.4	2041.7	2031.1	2048.7	2105.1	2194.9	2312.9	2402.8	2404.5	2406.3
12.5°	2230.2	2239.0	2230.2	2196.7	2157.9	2136.8	2189.6	2321.8	2459.2	2469.7	2513.8
15°	2480.3	2471.5	2453.9	2415.1	2355.2	2291.8	2253.1	2362.3	2540.2	2549.0	2645.9
17.5°	2700.5	2707.5	2697.0	2660.0	2589.5	2506.7	2388.7	2432.7	2626.5	2651.2	2786.8
20°	2940.1	2968.3	2954.2	2908.4	2850.2	2726.9	2578.9	2534.9	2721.6	2739.2	2933.0
22.5°	3216.6	3246.6	3220.2	3176.1	3128.6	2977.1	2786.8	2660.0	2800.9	2837.9	3073.9
25°	3547.8	3576.0	3551.3	3482.6	3422.7	3237.8	3010.5	2800.9	2878.4	2918.9	3188.5
27.5°	3810.3	3831.4	3854.3	3813.8	3722.2	3530.2	3243.1	2947.1	2955.9	2998.2	3294.1
30°	4044.6	4097.4	4116.8	4122.1	4044.6	3829.7	3480.9	3098.6	3022.9	3066.9	3399.8
32.5°	4365.2	4444.5	4412.7	4444.5	4398.7	4111.5	3727.5	3255.4	3109.2	3149.7	3500.2
35°	4833.8	4897.2	4814.4	4789.7	4715.7	4396.9	3965.3	3417.5	3223.7	3267.7	3595.4
37.5°	5337.6	5409.8	5290.0	5191.4	5050.4	4678.7	4169.6	3630.6	3382.2	3417.5	3683.5
40°	5778.0	5837.9	5733.9	5603.6	5367.5	4927.1	4345.8	3780.3	3540.8	3584.8	3785.6
42.5°	6184.9	6223.6	6107.4	5982.3	5667.0	5150.8	4536.1	3938.9	3725.7	3768.0	3868.4
45°	6597.1	6627.0	6465.0	6287.1	5917.1	5355.2	4745.7	4160.8	3997.0	4053.4	4002.3
47.5°	6671.1	6679.9	6651.7	6531.9	6114.4	5550.7	5004.6	4458.5	4411.0	4472.6	4233.1
50°	6158.5	6237.7	6412.1	6530.2	6193.7	5714.5	5263.6	4884.8	4981.7	5061.0	4712.2
52.5°	5163.2	5238.9	5642.3	6089.8	6003.4	5751.5	5541.9	5425.7	5786.8	5881.9	5364.0
55°	4113.3	4180.2	4606.5	5251.3	5388.7	5582.4	5839.6	6116.2	6813.8	6877.2	6079.2
57.5°	3387.5	3424.5	3729.3	4349.3	4569.5	5041.6	5999.9	6937.1	7858.4	7955.3	6701.0
60°	2778.0	2818.5	3045.8	3556.6	3849.0	4268.3	5873.1	7747.4	9105.6	9105.6	7499.0
62.5°	2091.0	2126.2	2337.6	2737.5	3229.0	3613.0	5467.9	8284.7	10046.3	10004.0	8076.8
65°	1435.7	1463.9	1617.1	1883.1	2325.3	3079.2	4914.8	8291.7	10669.9	10613.5	8323.4
66°	1204.9	1229.6	1359.9	1574.8	1946.5	2793.9	4719.3	8142.0	10800.2	10720.9	8219.5
67.5°	951.3	968.9	1055.2	1182.0	1426.9	2261.9	4411.0	7717.5	10787.9	10740.3	7955.3
70°	680.0	692.3	755.7	782.1	843.8	1308.8	3503.8	6759.2	9923.0	9937.0	6915.9
72.5°	526.7	546.1	584.8	590.1	576.0	695.8	2126.2	5638.8	8117.3	8112.1	5133.2
75°	424.5	435.1	454.5	465.1	461.5	449.2	900.2	4206.6	5587.7	5652.9	2874.9
77.5°	334.7	332.9	350.6	364.6	375.2	352.3	412.2	2466.2	2929.5	2846.7	1079.8
80°	246.6	246.6	271.3	276.6	292.4	295.9	274.8	951.3	1005.9	914.3	280.1
82.5°	162.1	162.1	188.5	192.0	207.9	230.8	199.1	285.4	278.3	264.2	126.8
85°	88.1	84.6	93.4	105.7	114.5	135.6	119.8	142.7	146.2	144.4	84.6
87.5°	17.6	15.9	24.7	28.2	31.7	42.3	38.8	58.1	81.0	79.3	37.0
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°	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2	2244.2
2.5°	2258.3	2256.6	2276.0	2298.9	2325.3	2341.1	2348.2	2360.5	2351.7	2355.2	2365.8
5°	2291.8	2297.1	2325.3	2355.2	2367.6	2358.7	2339.4	2332.3	2316.5	2312.9	2309.4
7.5°	2341.1	2349.9	2378.1	2385.2	2348.2	2286.5	2242.5	2217.8	2191.4	2184.4	2180.8
10°	2422.2	2427.4	2434.5	2362.3	2270.7	2187.9	2133.3	2110.4	2092.8	2078.7	2082.2
12.5°	2524.3	2520.8	2466.2	2316.5	2186.1	2101.6	2064.6	2050.5	2038.1	2029.3	2027.6
15°	2652.9	2628.3	2471.5	2253.1	2106.8	2036.4	2010.0	2004.7	1990.6	1990.6	1988.8
17.5°	2783.3	2719.9	2468.0	2186.1	2031.1	1992.3	1976.5	1973.0	1969.4	1967.7	1973.0
20°	2913.6	2800.9	2439.8	2103.3	1978.2	1955.3	1951.8	1953.6	1950.1	1955.3	1951.8
22.5°	3028.1	2853.8	2386.9	2015.2	1941.3	1939.5	1930.7	1934.2	1946.5	1948.3	1953.6
25°	3116.2	2873.1	2309.4	1934.2	1914.8	1911.3	1921.9	1936.0	1946.5	1948.3	1957.1
27.5°	3188.5	2862.6	2212.5	1870.8	1869.0	1888.4	1920.1	1925.4	1927.2	1927.2	1920.1
30°	3243.1	2839.7	2089.2	1800.3	1809.1	1856.7	1886.6	1886.6	1872.6	1869.0	1879.6
32.5°	3255.4	2809.7	1955.3	1728.1	1742.2	1798.6	1835.6	1823.2	1807.4	1807.4	1814.4
35°	3266.0	2769.2	1847.9	1629.5	1650.6	1717.5	1752.8	1728.1	1710.5	1705.2	1703.4
37.5°	3262.4	2753.3	1751.0	1504.4	1532.6	1597.7	1620.6	1597.7	1571.3	1559.0	1574.8
40°	3266.0	2742.8	1629.5	1367.0	1395.2	1433.9	1463.9	1446.3	1421.6	1389.9	1405.7
42.5°	3287.1	2756.9	1495.6	1233.1	1233.1	1254.2	1305.3	1293.0	1233.1	1220.8	1234.9
45°	3399.8	2832.6	1361.7	1099.2	1079.8	1093.9	1146.8	1093.9	1056.9	1056.9	1069.3
47.5°	3672.9	2973.5	1243.7	981.2	935.4	963.6	977.7	928.3	900.2	893.1	905.4
50°	4229.5	3255.4	1173.2	884.3	827.9	849.1	840.3	838.5	810.3	813.8	820.9
52.5°	5075.1	3805.0	1152.1	836.7	766.3	771.6	762.8	766.3	761.0	778.6	783.9
55°	5996.4	4384.6	1178.5	843.8	724.0	687.0	690.5	708.2	729.3	757.5	762.8
57.5°	6685.2	4675.2	1247.2	891.4	671.2	614.8	623.6	657.1	697.6	720.5	732.8
60°	7197.8	4640.0	1347.6	903.7	607.7	549.6	565.5	614.8	650.0	669.4	681.7
62.5°	7365.1	4419.8	1372.3	813.8	524.9	488.0	526.7	577.8	593.7	614.8	623.6
65°	7227.7	4108.0	1192.6	660.6	461.5	442.2	498.5	537.3	558.4	569.0	570.8
66°	7065.7	3921.3	1095.7	600.7	438.6	428.1	488.0	519.7	540.8	539.0	540.8
67.5°	6709.8	3530.2	938.9	516.1	405.2	406.9	470.3	491.5	498.5	493.2	493.2
70°	5499.6	2485.6	672.9	391.1	355.8	380.5	422.8	428.1	443.9	436.9	436.9
72.5°	3391.0	1220.8	451.0	299.5	317.1	355.8	354.1	371.7	408.7	419.3	426.3
75°	1666.4	495.0	297.7	253.7	283.6	297.7	294.2	338.2	391.1	436.9	452.7
77.5°	632.4	246.6	207.9	222.0	229.0	223.7	234.3	306.5	391.1	473.9	489.7
80°	195.5	170.9	163.8	183.2	172.6	163.8	176.2	253.7	331.2	359.4	359.4
82.5°	118.0	133.9	126.8	125.1	116.3	118.0	126.8	181.4	255.4	267.8	267.8
85°	82.8	88.1	72.2	68.7	66.9	65.2	65.2	105.7	151.5	149.7	155.0
87.5°	31.7	35.2	26.4	26.4	24.7	17.6	14.1	17.6	17.6	12.3	8.8
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)