

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: P799415

Luminaire Tested: **ARCH2-110-740-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

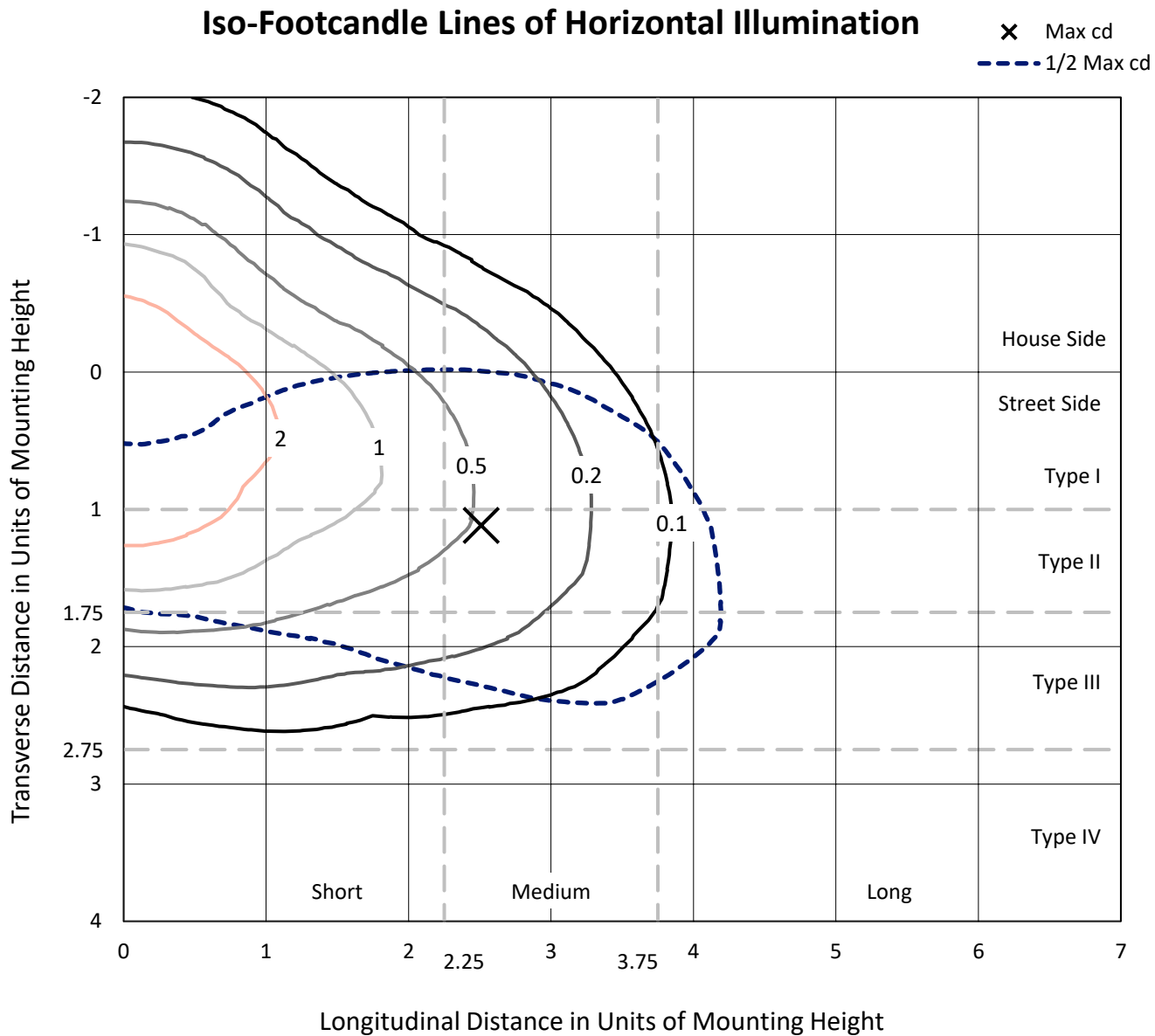
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13755 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.5
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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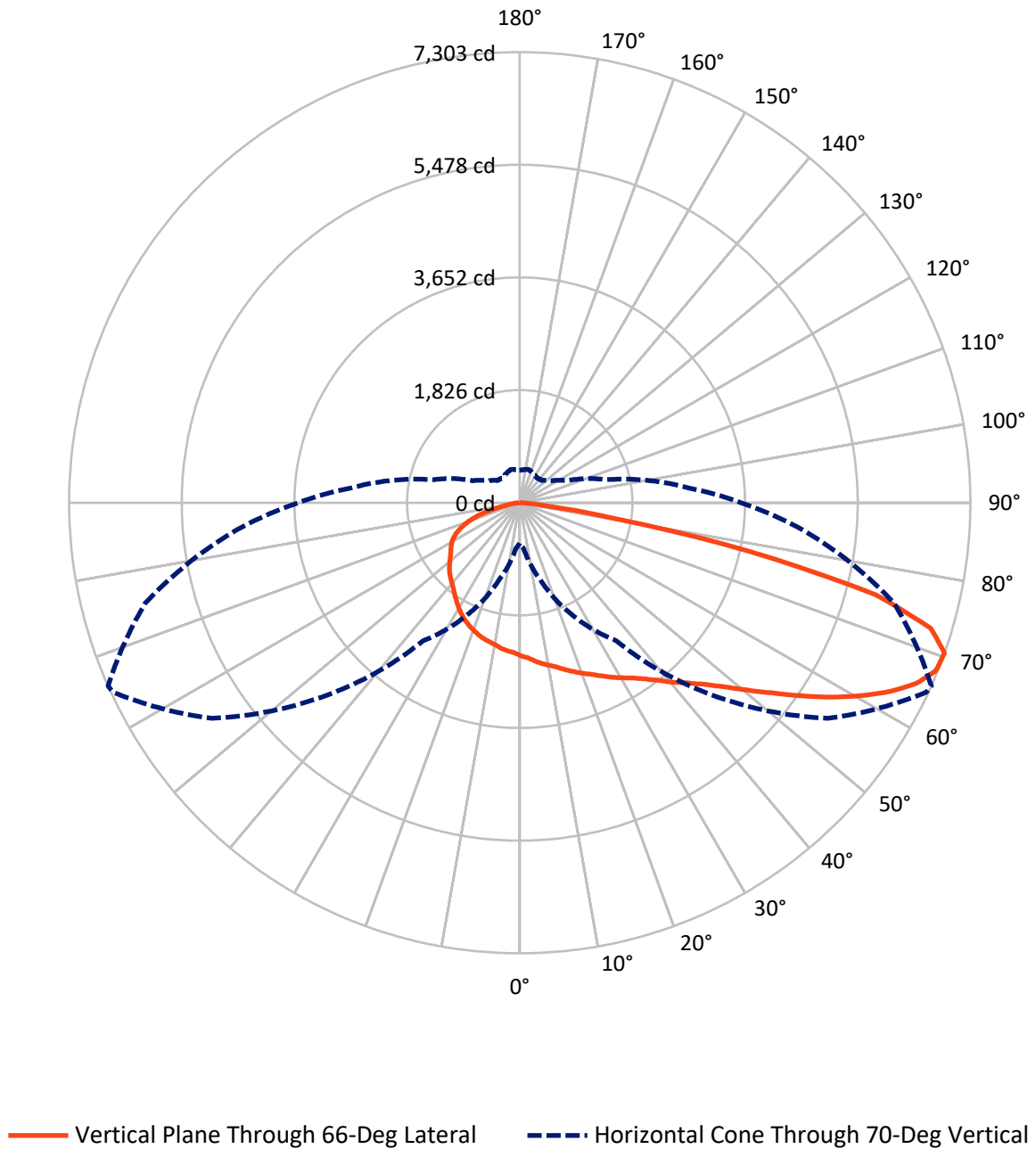


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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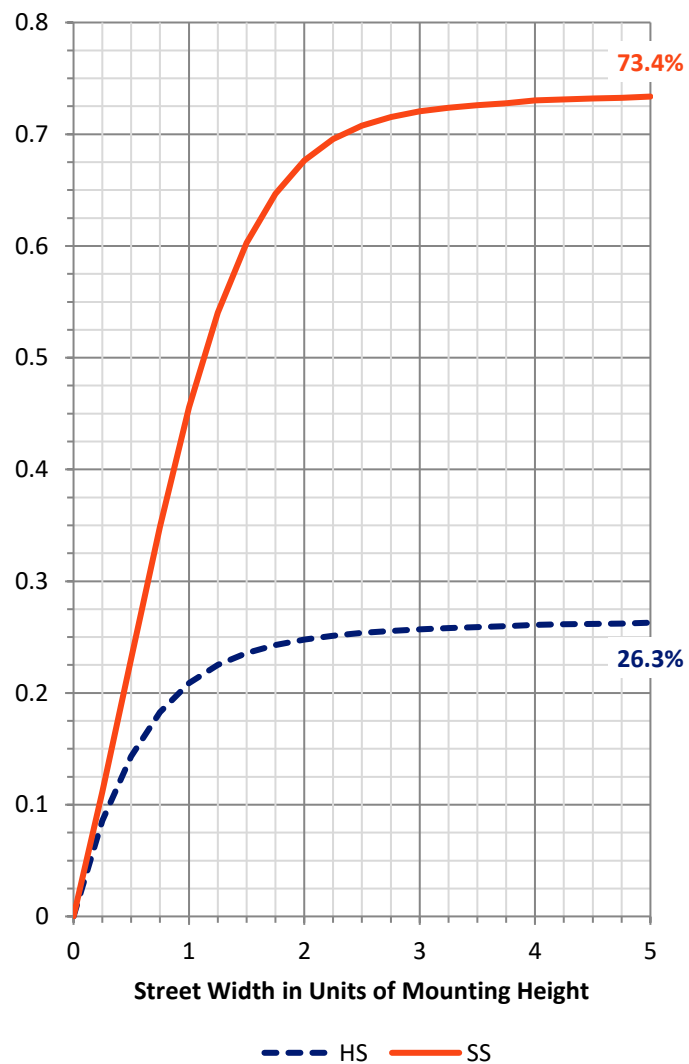
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3644.8	0.0	3644.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	10110.2	0.0	10110.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	13755.0	0.0	13755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.5	1.7
10°-20°	715.5	5.2
20°-30°	1199.5	8.7
30°-40°	1796.0	13.1
40°-50°	2401.2	17.5
50°-60°	2803.5	20.4
60°-70°	2787.7	20.3
70°-80°	1650.3	12.0
80°-90°	162.7	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°	13755.0	100.0
0°-180°	13755.0	100.0

Coefficient of Utilization



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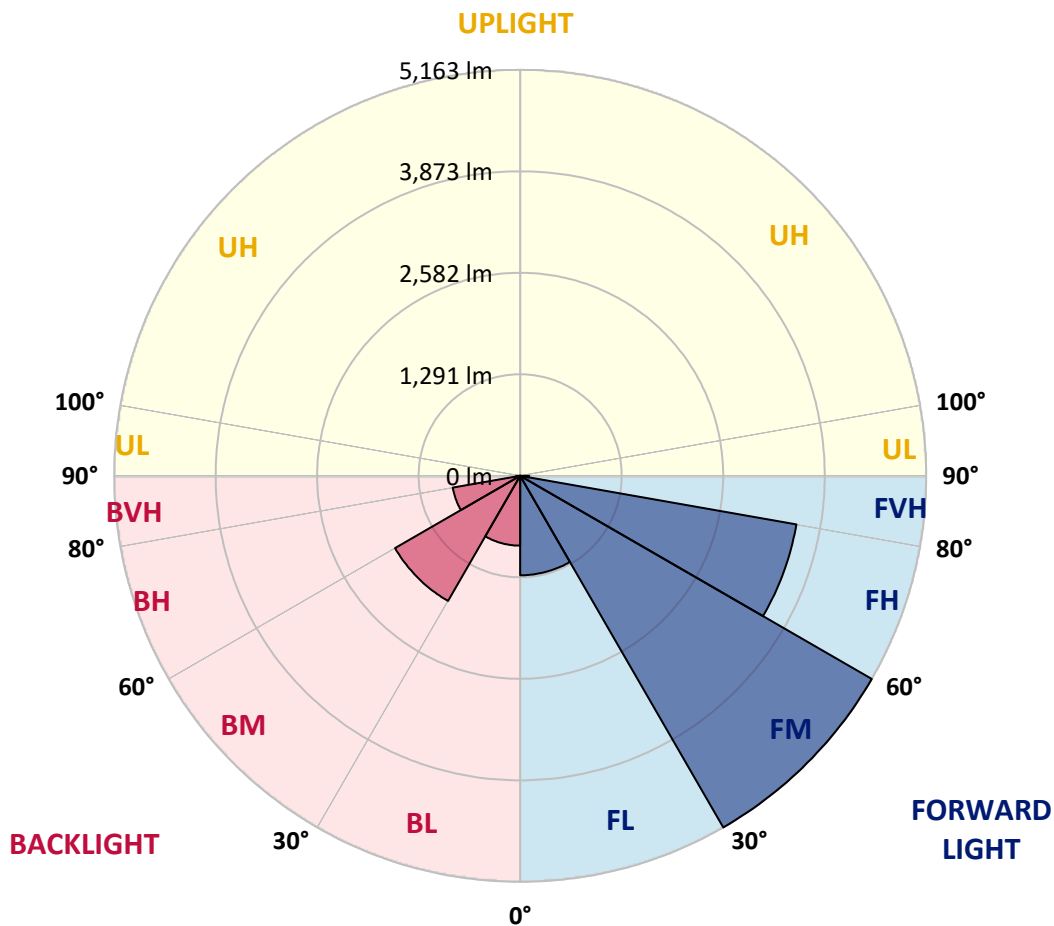
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1265.1	9.2			
FM	(30°-60°)	5163.4	37.5			
FH	(60°-80°)	3567.4	25.9			G2/5000
FVH	(80°-90°)	114.3	0.8			G2/225
BL	(0°-30°)	888.4	6.5	B2/1000		
BM	(30°-60°)	1837.3	13.4	B2/2500		
BH	(60°-80°)	870.6	6.3	B2/1000		G2/1000
BVH	(80°-90°)	48.3	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5
2.5°	2573.7	2569.7	2567.6	2559.5	2541.3	2549.4	2531.1	2519.0	2516.9	2488.5	2472.3
5°	2679.2	2677.2	2673.1	2660.9	2632.5	2636.6	2606.2	2583.9	2577.8	2533.2	2498.7
7.5°	2768.4	2764.4	2762.3	2746.1	2715.7	2713.7	2677.2	2644.7	2634.6	2573.7	2521.0
10°	2837.4	2831.3	2835.4	2819.1	2786.7	2780.6	2734.0	2691.4	2681.2	2604.2	2531.1
12.5°	2896.2	2892.2	2898.2	2884.0	2857.7	2851.6	2804.9	2750.2	2738.0	2648.8	2553.4
15°	2961.1	2946.9	2959.1	2953.0	2934.7	2932.7	2890.1	2829.3	2813.1	2705.6	2587.9
17.5°	2995.6	2987.5	3001.7	3003.7	2995.6	3009.8	2969.2	2896.2	2882.0	2758.3	2618.4
20°	3019.9	3007.8	3024.0	3036.2	3042.2	3070.6	3038.2	2967.2	2951.0	2809.0	2646.7
22.5°	3103.1	3076.7	3078.7	3086.9	3090.9	3131.5	3111.2	3042.2	3026.0	2871.9	2681.2
25°	3312.0	3259.2	3224.8	3200.4	3172.0	3206.5	3194.3	3127.4	3113.2	2946.9	2723.8
27.5°	3636.5	3569.6	3500.6	3429.6	3318.1	3303.9	3283.6	3222.7	3206.5	3022.0	2766.4
30°	4005.6	3938.7	3857.6	3744.0	3535.1	3425.6	3378.9	3312.0	3293.7	3088.9	2807.0
32.5°	4372.7	4313.9	4232.8	4094.8	3796.7	3573.6	3474.2	3405.3	3387.0	3161.9	2855.6
35°	4658.7	4622.2	4569.4	4397.0	4056.3	3748.0	3612.1	3529.0	3508.7	3277.5	2944.9
37.5°	4889.9	4863.5	4818.9	4638.4	4244.9	3922.5	3770.3	3675.0	3652.7	3403.2	3040.2
40°	5230.6	5161.7	5125.2	4863.5	4409.2	4080.7	3948.8	3849.4	3825.1	3537.1	3117.3
42.5°	5520.6	5469.9	5425.3	5064.3	4565.4	4216.5	4117.2	4025.9	3993.4	3668.9	3200.4
45°	5569.3	5589.6	5567.3	5163.7	4812.8	4350.4	4287.5	4228.7	4198.3	3847.4	3326.2
47.5°	5571.3	5571.3	5439.5	5220.5	5119.1	4500.5	4470.1	4490.3	4457.9	4074.6	3476.3
50°	5425.3	5451.7	5382.7	5234.7	5200.2	4650.6	4693.2	4802.7	4770.2	4315.9	3638.5
52.5°	5123.1	5210.3	5208.3	5212.4	5082.6	4778.3	4928.4	5177.9	5123.1	4587.7	3810.9
55°	4589.7	4764.1	4920.3	5054.2	4981.2	4855.4	5216.4	5577.4	5520.6	4891.9	3985.3
57.5°	4133.4	4244.9	4439.6	4818.9	4861.5	4922.3	5486.2	5995.2	5944.5	5228.6	4167.9
60°	3612.1	3766.3	3961.0	4500.5	4715.5	5009.5	5782.3	6402.9	6354.2	5569.3	4344.3
62.5°	2811.0	3009.8	3399.2	4011.7	4502.5	5064.3	6015.5	6761.9	6739.6	5891.8	4502.5
65°	1959.2	2135.6	2681.2	3411.4	4163.8	5040.0	6202.1	7082.3	7062.0	6155.5	4614.1
67.5°	1143.9	1348.7	1965.3	2746.1	3565.5	4871.6	6262.9	7270.9	7270.9	6315.7	4644.5
70°	653.1	748.4	1296.0	2001.8	2734.0	4407.2	6092.6	7268.9	7303.4	6279.2	4518.7
72.5°	456.3	498.9	872.1	1346.7	1853.7	3565.5	5646.4	6918.0	6964.7	5934.4	4088.8
75°	354.9	385.3	614.5	918.8	1168.2	2421.6	4670.8	5833.0	5956.7	5058.2	3305.9
77.5°	269.7	292.1	359.0	574.0	748.4	1391.3	3082.8	3825.1	3833.2	3097.0	1772.6
80°	196.7	219.0	239.3	350.9	397.5	651.0	1164.2	1598.2	1553.6	1498.8	959.3
82.5°	117.6	139.9	146.0	190.6	194.7	277.9	407.7	515.2	494.9	659.2	450.3
85°	50.7	71.0	75.0	87.2	83.2	113.6	162.3	135.9	121.7	139.9	97.4
87.5°	12.2	20.3	20.3	22.3	18.3	28.4	30.4	22.3	20.3	24.3	24.3
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°	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5	2482.5
2.5°	2468.3	2462.2	2464.2	2429.7	2419.6	2409.5	2403.4	2399.3	2395.3	2401.3	2407.4
5°	2486.5	2472.3	2456.1	2405.4	2385.1	2362.8	2346.6	2332.4	2326.3	2326.3	2332.4
7.5°	2500.7	2476.4	2441.9	2375.0	2338.5	2308.0	2281.7	2263.4	2253.3	2253.3	2259.4
10°	2502.7	2468.3	2413.5	2332.4	2283.7	2239.1	2208.7	2188.4	2174.2	2174.2	2178.2
12.5°	2514.9	2468.3	2397.3	2299.9	2239.1	2184.3	2147.8	2117.4	2111.3	2111.3	2115.4
15°	2535.2	2478.4	2387.1	2271.5	2198.5	2135.6	2095.1	2062.6	2050.5	2058.6	2060.6
17.5°	2553.4	2484.5	2368.9	2235.0	2147.8	2078.9	2034.2	2005.8	1989.6	2007.9	2007.9
20°	2565.6	2484.5	2342.5	2188.4	2093.1	2016.0	1973.4	1938.9	1926.7	1949.1	1951.1
22.5°	2583.9	2482.5	2314.1	2141.7	2034.2	1953.1	1910.5	1884.2	1878.1	1902.4	1910.5
25°	2604.2	2486.5	2283.7	2089.0	1969.3	1890.2	1857.8	1845.6	1849.7	1880.1	1890.2
27.5°	2626.5	2494.6	2253.3	2030.2	1898.4	1827.4	1809.1	1815.2	1831.4	1870.0	1882.1
30°	2646.7	2496.7	2210.7	1961.2	1817.2	1750.3	1758.4	1784.8	1809.1	1847.7	1861.8
32.5°	2673.1	2498.7	2166.1	1886.2	1730.0	1681.3	1717.8	1760.4	1784.8	1821.3	1837.5
35°	2738.0	2533.2	2131.6	1813.2	1648.9	1622.5	1683.4	1738.1	1752.3	1784.8	1799.0
37.5°	2813.1	2590.0	2113.3	1738.1	1569.8	1563.7	1640.8	1695.5	1699.6	1719.9	1734.1
40°	2859.7	2614.3	2093.1	1675.3	1498.8	1502.9	1582.0	1624.6	1616.4	1630.6	1640.8
42.5°	2906.3	2622.4	2050.5	1622.5	1431.9	1435.9	1496.8	1527.2	1531.3	1561.7	1575.9
45°	2985.4	2644.7	2003.8	1573.8	1371.0	1356.8	1393.3	1433.9	1486.6	1545.5	1561.7
47.5°	3090.9	2691.4	1955.1	1515.0	1312.2	1265.6	1279.8	1350.8	1405.5	1460.3	1470.4
50°	3198.4	2738.0	1910.5	1444.0	1253.4	1168.2	1174.3	1239.2	1283.8	1326.4	1332.5
52.5°	3303.9	2778.6	1872.0	1377.1	1186.5	1052.6	1077.0	1143.9	1174.3	1194.6	1200.7
55°	3409.3	2813.1	1837.5	1320.3	1109.4	961.3	983.7	1046.5	1077.0	1087.1	1091.1
57.5°	3518.9	2853.6	1811.1	1271.7	1022.2	880.2	894.4	939.0	967.4	979.6	975.5
60°	3610.1	2888.1	1796.9	1221.0	935.0	805.2	801.1	841.7	882.2	894.4	890.4
62.5°	3681.1	2910.4	1774.6	1156.0	857.9	730.1	709.9	762.6	805.2	813.3	819.4
65°	3719.6	2912.4	1719.9	1072.9	778.8	649.0	634.8	687.5	713.9	722.0	722.0
67.5°	3713.6	2880.0	1612.4	961.3	705.8	576.0	563.8	596.3	634.8	640.9	634.8
70°	3587.8	2746.1	1440.0	843.7	618.6	511.1	488.8	521.2	557.7	535.4	525.3
72.5°	3230.9	2399.3	1186.5	713.9	521.2	430.0	419.8	452.3	454.3	458.4	448.2
75°	2549.4	1786.8	888.3	555.7	421.9	361.0	359.0	352.9	361.0	377.2	365.1
77.5°	1338.6	892.4	480.7	340.7	306.3	290.0	275.8	273.8	298.1	308.3	296.1
80°	726.1	501.0	275.8	204.8	186.6	188.6	206.9	202.8	229.2	235.3	225.1
82.5°	316.4	237.3	135.9	123.7	123.7	121.7	127.8	142.0	170.4	170.4	135.9
85°	69.0	58.8	52.7	60.8	69.0	69.0	69.0	69.0	48.7	26.4	18.3
87.5°	22.3	22.3	22.3	24.3	26.4	26.4	22.3	16.2	10.1	2.0	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)