

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: P835807

Luminaire Tested: **ARCH3-100-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

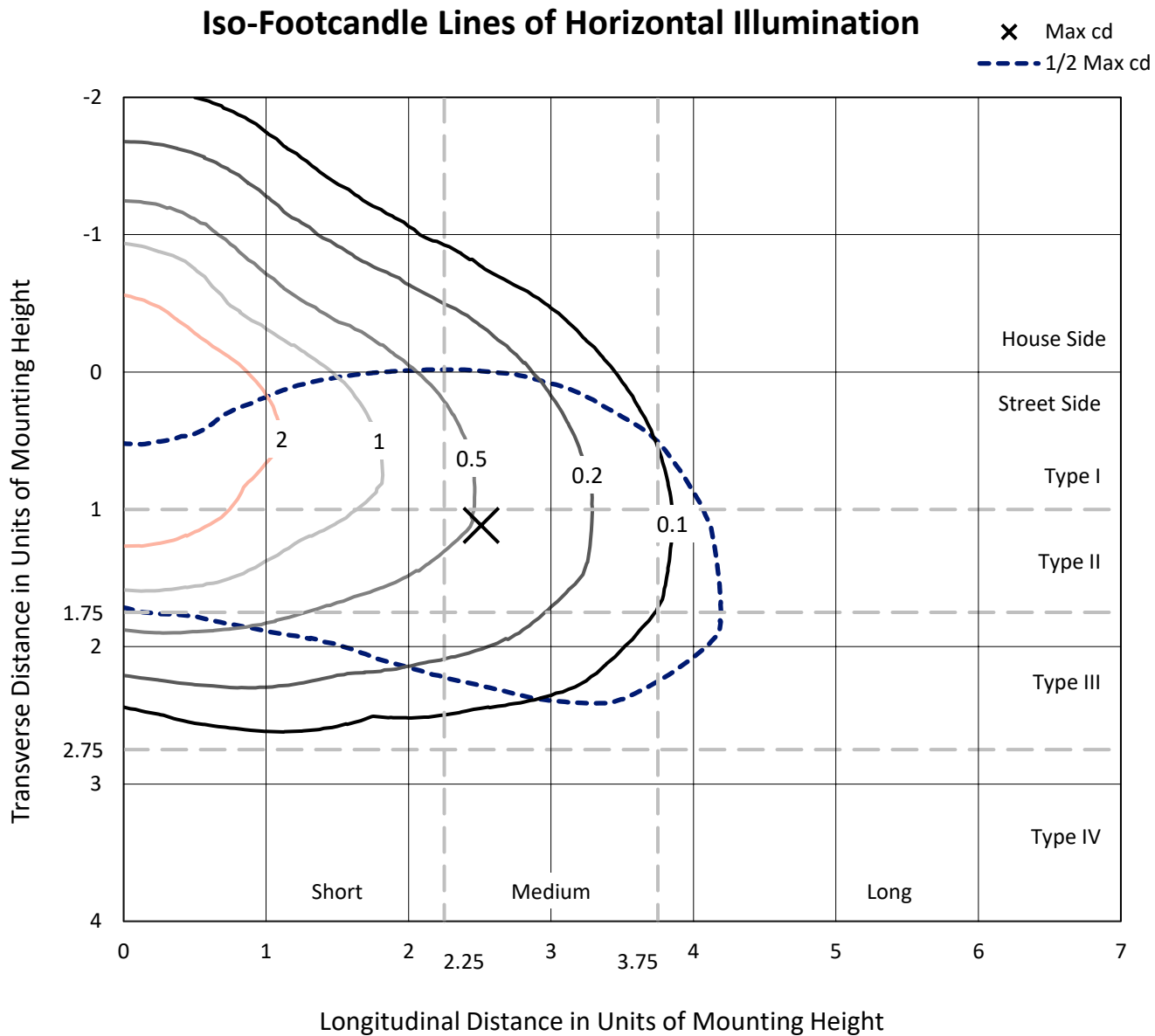
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13846 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.6
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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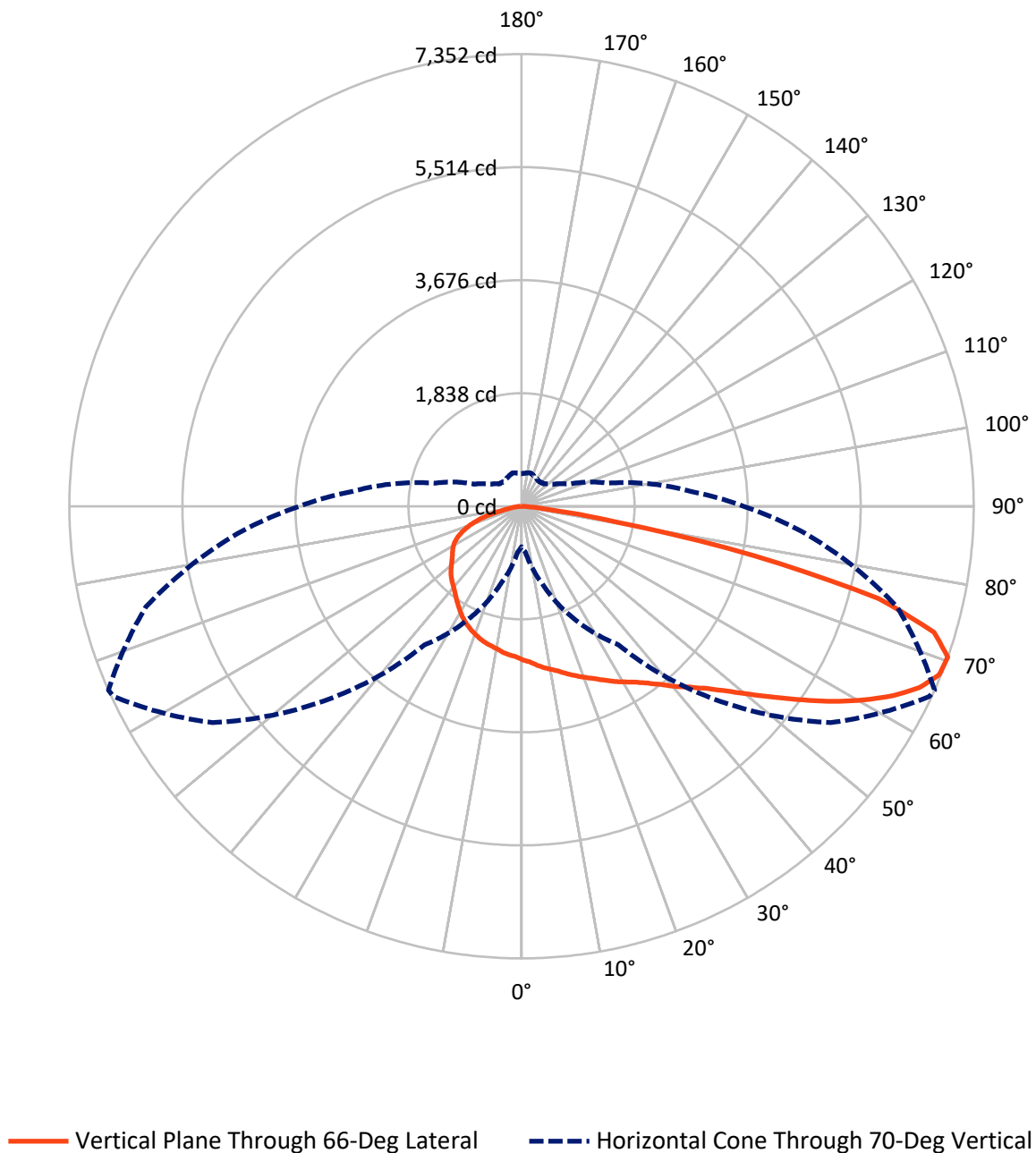


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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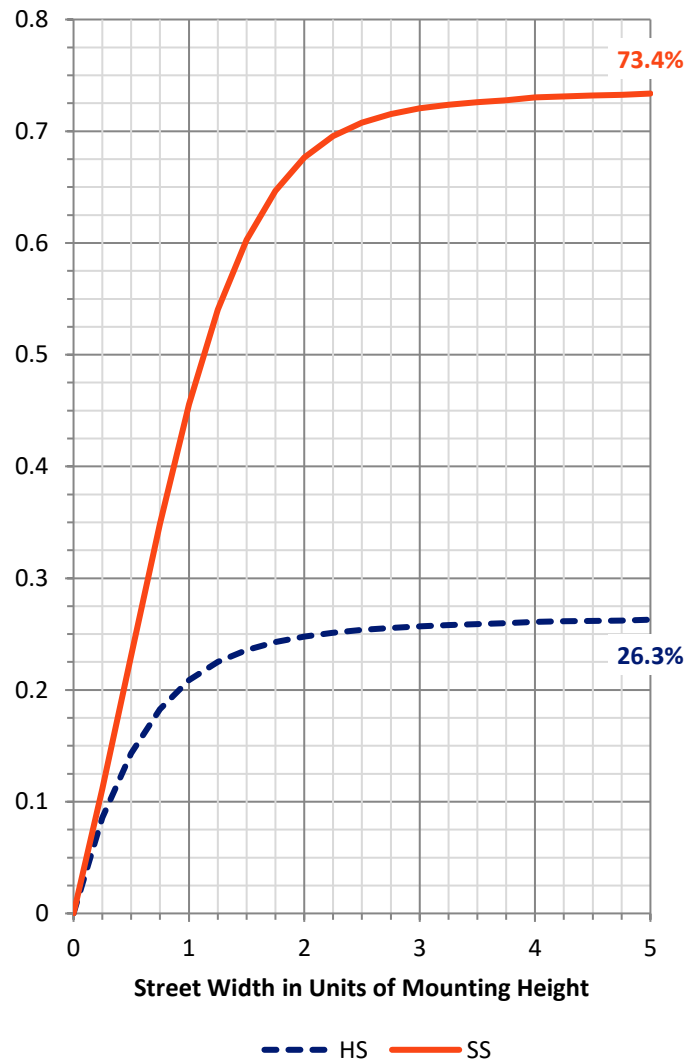
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3668.9	0.0	3668.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	10177.1	0.0	10177.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	13846.0	0.0	13846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.7
10°-20°	720.3	5.2
20°-30°	1207.4	8.7
30°-40°	1807.9	13.1
40°-50°	2417.1	17.5
50°-60°	2822.1	20.4
60°-70°	2806.1	20.3
70°-80°	1661.3	12.0
80°-90°	163.7	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°	13846.0	100.0
0°-180°	13846.0	100.0

Coefficient of Utilization



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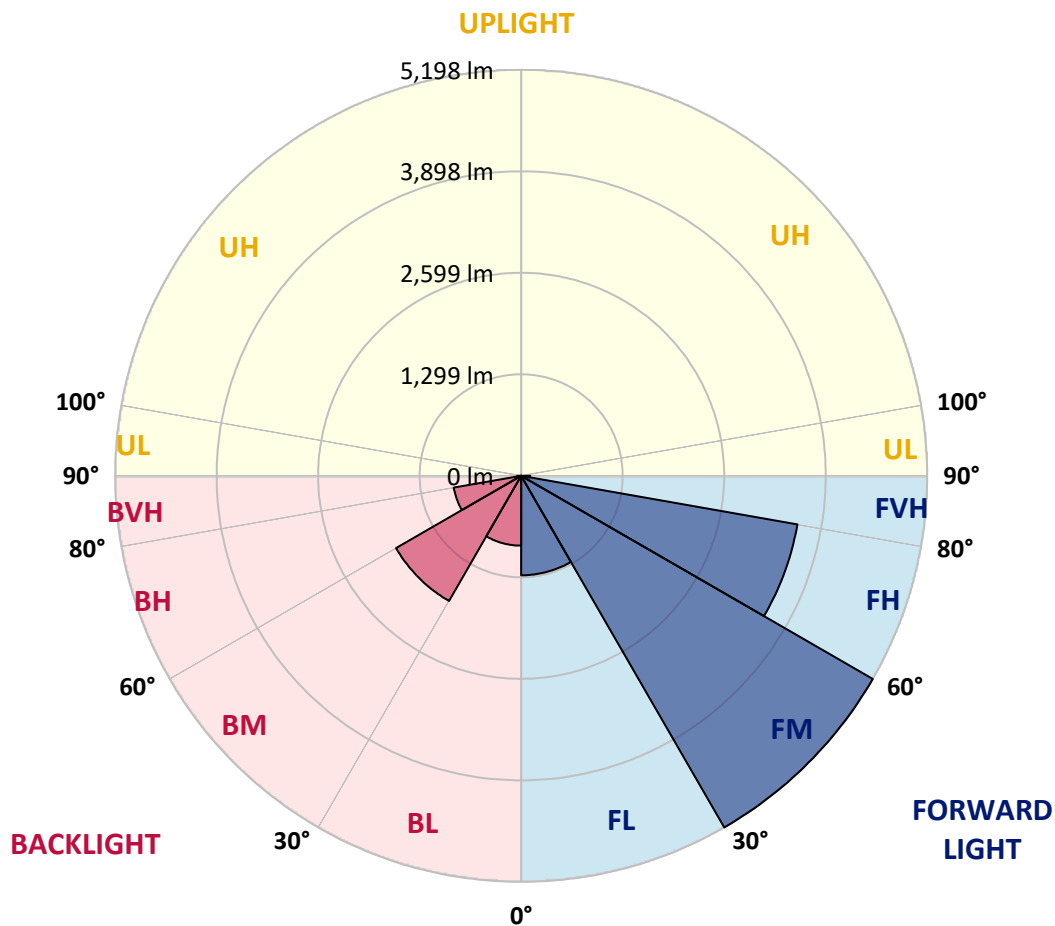
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1273.5	9.2			
FM	(30°-60°)	5197.6	37.5			
FH	(60°-80°)	3591.0	25.9			G2/5000
FVH	(80°-90°)	115.1	0.8			G2/225
BL	(0°-30°)	894.3	6.5	B2/1000		
BM	(30°-60°)	1849.5	13.4	B2/2500		
BH	(60°-80°)	876.4	6.3	B2/1000		G2/1000
BVH	(80°-90°)	48.7	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°	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9
2.5°	2590.8	2586.7	2584.6	2576.5	2558.1	2566.3	2547.9	2535.6	2533.6	2505.0	2488.7
5°	2696.9	2694.9	2690.8	2678.5	2650.0	2654.0	2623.4	2601.0	2594.8	2549.9	2515.2
7.5°	2786.7	2782.7	2780.6	2764.3	2733.7	2731.6	2694.9	2662.2	2652.0	2590.8	2537.7
10°	2856.2	2850.0	2854.1	2837.8	2805.1	2799.0	2752.0	2709.2	2699.0	2621.4	2547.9
12.5°	2915.4	2911.3	2917.4	2903.1	2876.6	2870.5	2823.5	2768.4	2756.1	2666.3	2570.3
15°	2980.7	2966.4	2978.7	2972.5	2954.2	2952.1	2909.2	2848.0	2831.7	2723.5	2605.0
17.5°	3015.4	3007.2	3021.5	3023.6	3015.4	3029.7	2988.9	2915.4	2901.1	2776.5	2635.7
20°	3039.9	3027.7	3044.0	3056.2	3062.4	3090.9	3058.3	2986.8	2970.5	2827.6	2664.3
22.5°	3123.6	3097.1	3099.1	3107.3	3111.4	3152.2	3131.8	3062.4	3046.0	2890.9	2699.0
25°	3333.9	3280.8	3246.1	3221.6	3193.0	3227.7	3215.5	3148.1	3133.8	2966.4	2741.8
27.5°	3660.5	3593.2	3523.8	3452.3	3340.0	3325.7	3305.3	3244.1	3227.7	3041.9	2784.7
30°	4032.1	3964.7	3883.1	3768.7	3558.5	3448.2	3401.3	3333.9	3315.5	3109.3	2825.5
32.5°	4401.6	4342.4	4260.8	4121.9	3821.8	3597.3	3497.2	3427.8	3409.4	3182.8	2874.5
35°	4689.5	4652.7	4599.7	4426.1	4083.1	3772.8	3636.0	3552.3	3531.9	3299.2	2964.4
37.5°	4922.2	4895.7	4850.8	4669.1	4273.0	3948.4	3795.3	3699.3	3676.9	3425.8	3060.3
40°	5265.2	5195.8	5159.1	4895.7	4438.4	4107.6	3974.9	3874.9	3850.4	3560.5	3137.9
42.5°	5557.2	5506.1	5461.2	5097.8	4595.6	4244.4	4144.4	4052.5	4019.9	3693.2	3221.6
45°	5606.2	5626.6	5604.1	5197.8	4844.7	4379.2	4315.9	4256.7	4226.1	3872.9	3348.2
47.5°	5608.2	5608.2	5475.5	5255.0	5152.9	4530.3	4499.6	4520.0	4487.4	4101.5	3499.3
50°	5461.2	5487.8	5418.3	5269.3	5234.6	4681.3	4724.2	4834.4	4801.8	4344.5	3662.6
52.5°	5157.0	5244.8	5242.8	5246.8	5116.2	4810.0	4961.0	5212.1	5157.0	4618.0	3836.1
55°	4620.1	4795.7	4952.9	5087.6	5014.1	4887.5	5250.9	5614.3	5557.2	4924.3	4011.7
57.5°	4160.7	4273.0	4469.0	4850.8	4893.7	4954.9	5522.5	6034.9	5983.9	5263.2	4195.4
60°	3636.0	3791.2	3987.2	4530.3	4746.7	5042.7	5820.5	6445.3	6396.3	5606.2	4373.1
62.5°	2829.6	3029.7	3421.7	4038.2	4532.3	5097.8	6055.3	6806.6	6784.2	5930.8	4532.3
65°	1972.2	2149.8	2699.0	3433.9	4191.4	5073.3	6243.1	7129.2	7108.8	6196.2	4644.6
67.5°	1151.4	1357.6	1978.3	2764.3	3589.1	4903.9	6304.4	7319.0	7319.0	6357.5	4675.2
70°	657.4	753.3	1304.6	2015.0	2752.0	4436.3	6132.9	7317.0	7351.7	6320.7	4548.6
72.5°	459.4	502.2	877.9	1355.6	1866.0	3589.1	5683.7	6963.8	7010.8	5973.6	4115.8
75°	357.3	387.9	618.6	924.8	1175.9	2437.6	4701.7	5871.6	5996.1	5091.7	3327.8
77.5°	271.5	294.0	361.4	577.8	753.3	1400.5	3103.2	3850.4	3858.6	3117.5	1784.3
80°	198.0	220.5	240.9	353.2	400.1	655.3	1171.9	1608.8	1563.8	1508.7	965.7
82.5°	118.4	140.9	147.0	191.9	196.0	279.7	410.4	518.6	498.1	663.5	453.2
85°	51.0	71.5	75.5	87.8	83.7	114.3	163.3	136.8	122.5	140.9	98.0
87.5°	12.2	20.4	20.4	22.5	18.4	28.6	30.6	22.5	20.4	24.5	24.5
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°	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9
2.5°	2484.6	2478.5	2480.5	2445.8	2435.6	2425.4	2419.3	2415.2	2411.1	2417.2	2423.3
5°	2503.0	2488.7	2472.3	2421.3	2400.9	2378.4	2362.1	2347.8	2341.7	2341.7	2347.8
7.5°	2517.3	2492.8	2458.1	2390.7	2353.9	2323.3	2296.8	2278.4	2268.2	2268.2	2274.3
10°	2519.3	2484.6	2429.5	2347.8	2298.8	2253.9	2223.3	2202.9	2188.6	2188.6	2192.7
12.5°	2531.6	2484.6	2413.1	2315.1	2253.9	2198.8	2162.0	2131.4	2125.3	2125.3	2129.4
15°	2552.0	2494.8	2402.9	2286.6	2213.1	2149.8	2108.9	2076.3	2064.0	2072.2	2074.2
17.5°	2570.3	2500.9	2384.6	2249.8	2162.0	2092.6	2047.7	2019.1	2002.8	2021.2	2021.2
20°	2582.6	2500.9	2358.0	2202.9	2106.9	2029.3	1986.5	1951.7	1939.5	1962.0	1964.0
22.5°	2601.0	2498.9	2329.4	2155.9	2047.7	1966.0	1923.2	1896.6	1890.5	1915.0	1923.2
25°	2621.4	2503.0	2298.8	2102.8	1982.4	1902.7	1870.1	1857.8	1861.9	1892.5	1902.7
27.5°	2643.8	2511.1	2268.2	2043.6	1910.9	1839.5	1821.1	1827.2	1843.5	1882.3	1894.6
30°	2664.3	2513.2	2225.3	1974.2	1829.3	1761.9	1770.0	1796.6	1821.1	1859.9	1874.2
32.5°	2690.8	2515.2	2180.4	1898.7	1741.5	1692.5	1729.2	1772.1	1796.6	1833.3	1849.7
35°	2756.1	2549.9	2145.7	1825.2	1659.8	1633.3	1694.5	1749.6	1763.9	1796.6	1810.9
37.5°	2831.7	2607.1	2127.3	1749.6	1580.2	1574.1	1651.6	1706.8	1710.8	1731.3	1745.5
40°	2878.6	2631.6	2106.9	1686.3	1508.7	1512.8	1592.4	1635.3	1627.1	1641.4	1651.6
42.5°	2925.6	2639.8	2064.0	1633.3	1441.4	1445.4	1506.7	1537.3	1541.4	1572.0	1586.3
45°	3005.2	2662.2	2017.1	1584.3	1380.1	1365.8	1402.6	1443.4	1496.5	1555.7	1572.0
47.5°	3111.4	2709.2	1968.1	1525.1	1320.9	1273.9	1288.2	1359.7	1414.8	1469.9	1480.1
50°	3219.6	2756.1	1923.2	1453.6	1261.7	1175.9	1182.1	1247.4	1292.3	1335.2	1341.3
52.5°	3325.7	2797.0	1884.4	1386.2	1194.3	1059.6	1084.1	1151.4	1182.1	1202.5	1208.6
55°	3431.9	2831.7	1849.7	1329.1	1116.7	967.7	990.2	1053.5	1084.1	1094.3	1098.4
57.5°	3542.1	2872.5	1823.1	1280.1	1029.0	886.0	900.3	945.2	973.8	986.1	982.0
60°	3634.0	2907.2	1808.8	1229.0	941.2	810.5	806.4	847.3	888.1	900.3	896.3
62.5°	3705.5	2929.7	1786.4	1163.7	863.6	735.0	714.6	767.6	810.5	818.7	824.8
65°	3744.2	2931.7	1731.3	1080.0	784.0	653.3	639.0	692.1	718.6	726.8	726.8
67.5°	3738.1	2899.0	1623.1	967.7	710.5	579.8	567.6	600.2	639.0	645.1	639.0
70°	3611.5	2764.3	1449.5	849.3	622.7	514.5	492.0	524.7	561.4	539.0	528.8
72.5°	3252.2	2415.2	1194.3	718.6	524.7	432.8	422.6	455.3	457.3	461.4	451.2
75°	2566.3	1798.6	894.2	559.4	424.6	363.4	361.4	355.2	363.4	379.7	367.5
77.5°	1347.4	898.3	483.9	343.0	308.3	291.9	277.7	275.6	300.1	310.3	298.1
80°	730.9	504.3	277.7	206.2	187.8	189.9	208.2	204.2	230.7	236.8	226.6
82.5°	318.5	238.9	136.8	124.5	124.5	122.5	128.6	142.9	171.5	171.5	136.8
85°	69.4	59.2	53.1	61.2	69.4	69.4	69.4	69.4	49.0	26.5	18.4
87.5°	22.5	22.5	22.5	24.5	26.5	26.5	22.5	16.3	10.2	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)