

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: P835817

Luminaire Tested: **ARCH3-100-727-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

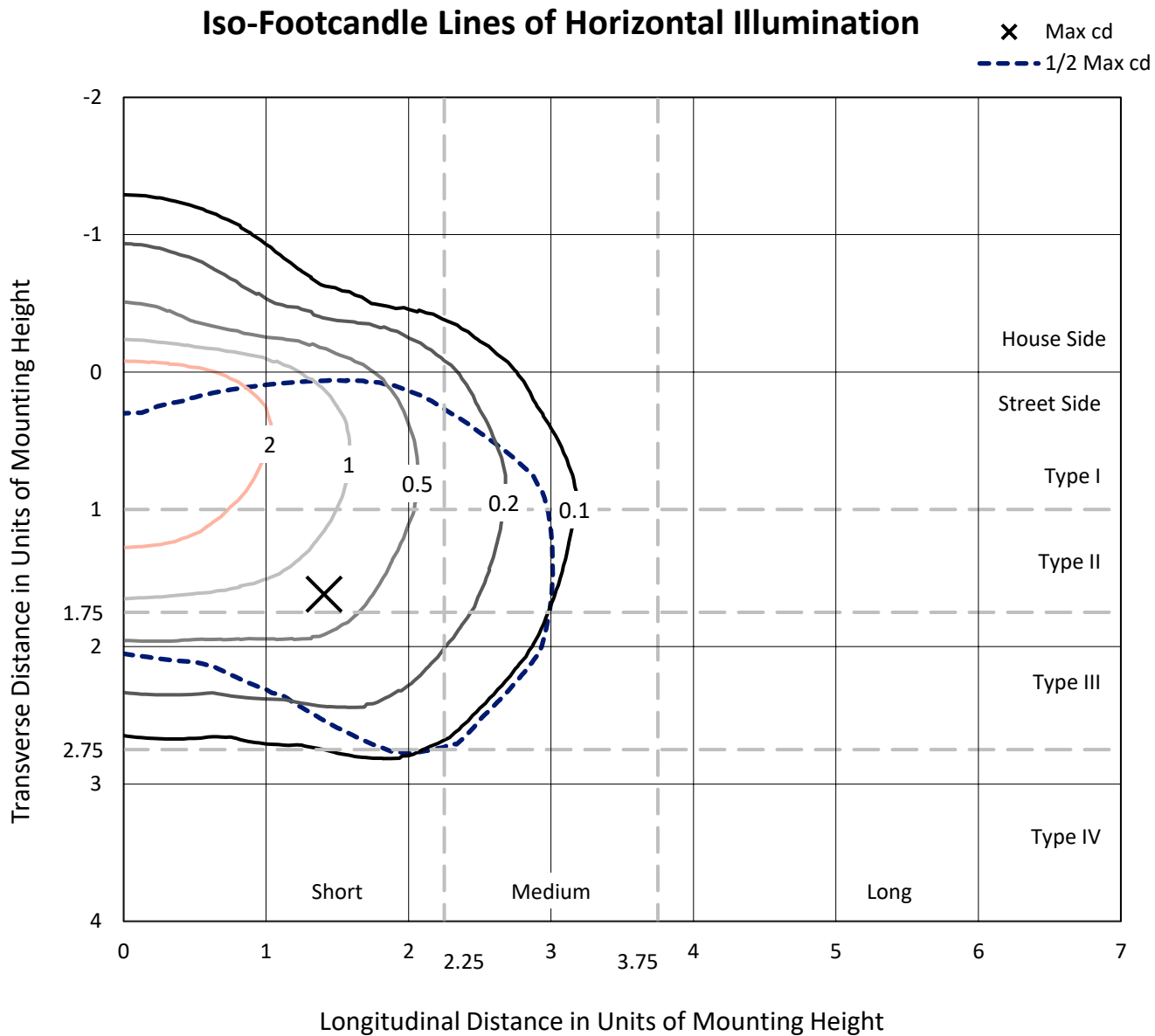
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10402 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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

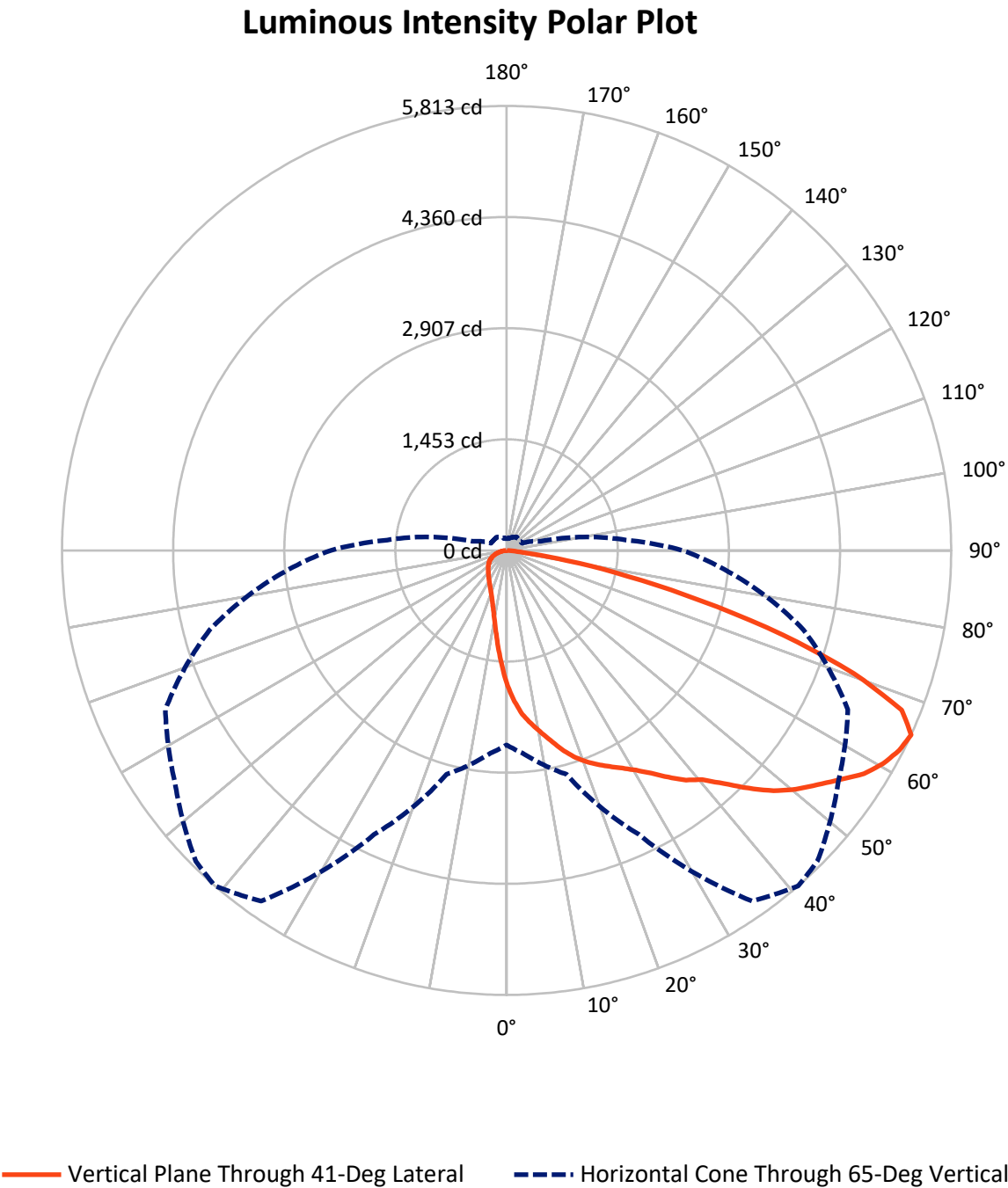


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Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Short - N/A

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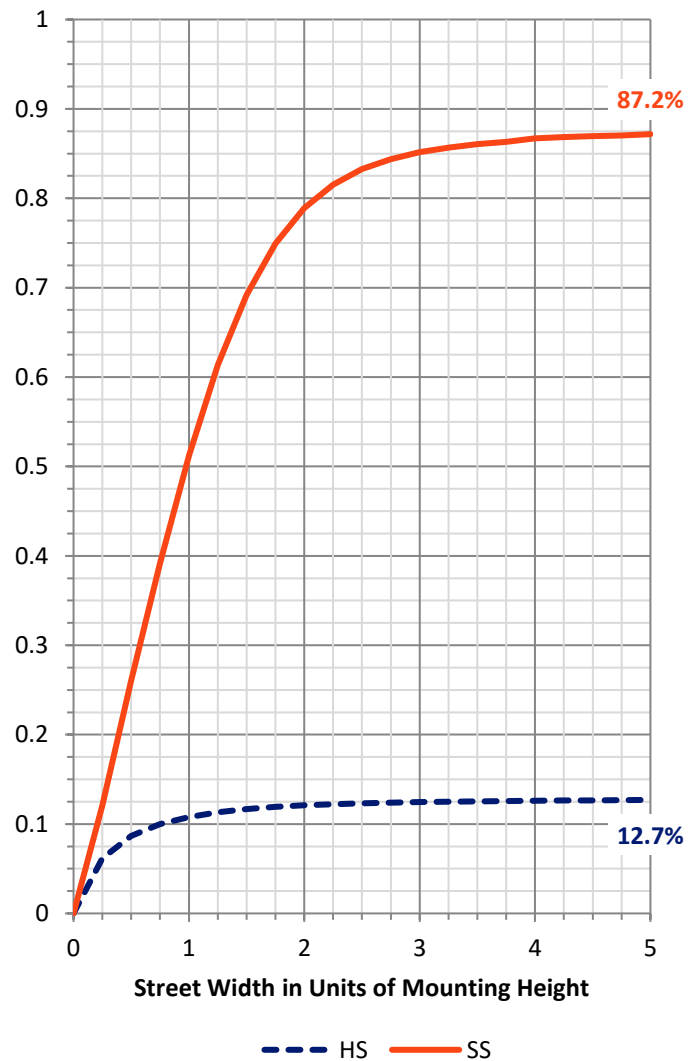
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.5	0.0	1335.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9066.5	0.0	9066.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	10402.0	0.0	10402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	1.6
10°-20°	495.2	4.8
20°-30°	851.9	8.2
30°-40°	1292.1	12.4
40°-50°	1892.9	18.2
50°-60°	2390.4	23.0
60°-70°	2241.4	21.5
70°-80°	999.0	9.6
80°-90°	74.0	0.7
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°	10402.0	100.0
0°-180°	10402.0	100.0

Coefficient of Utilization



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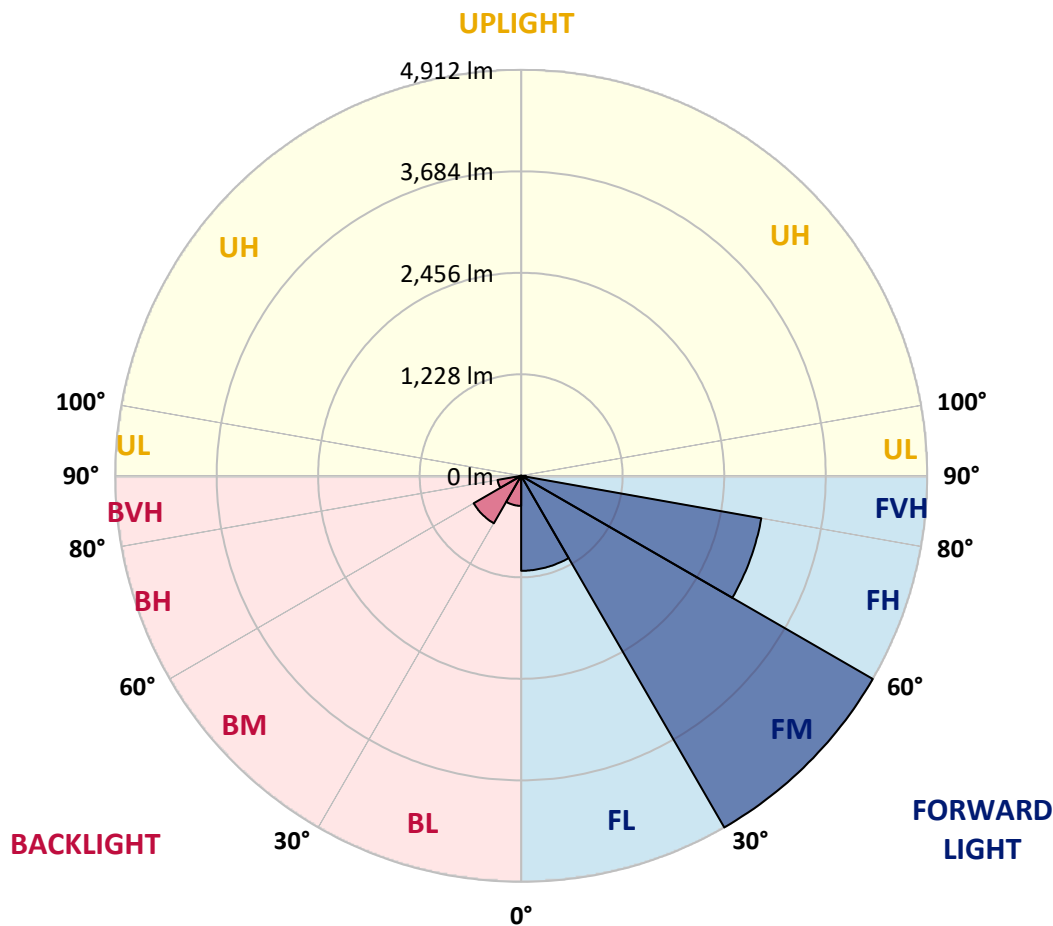
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1148.8	11.0			
FM	(30°-60°)	4912.2	47.2			
FH	(60°-80°)	2950.3	28.4			G2/5000
FVH	(80°-90°)	55.3	0.5			G1/100
BL	(0°-30°)	363.5	3.5	B1/500		
BM	(30°-60°)	663.1	6.4	B1/1000		
BH	(60°-80°)	290.1	2.8	B1/500		G1/500
BVH	(80°-90°)	18.7	0.2			G1/100
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°	41°	45°	55°	65°	75°	85°
0°	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4
2.5°	2044.5	2037.9	2033.5	2009.4	2009.4	1976.5	1978.6	1947.9	1910.6	1851.4	1787.8
5°	2237.5	2228.7	2217.8	2193.6	2184.8	2151.9	2147.6	2103.7	2040.1	1937.0	1822.9
7.5°	2406.4	2397.6	2382.3	2347.2	2323.0	2283.6	2272.6	2215.6	2145.4	2018.1	1858.0
10°	2560.0	2553.4	2533.6	2489.8	2456.9	2408.6	2388.9	2312.1	2224.3	2083.9	1886.5
12.5°	2715.7	2706.9	2680.6	2643.3	2603.8	2546.8	2522.7	2424.0	2312.1	2156.3	1928.2
15°	2860.5	2847.3	2827.6	2788.1	2753.0	2698.2	2671.8	2555.6	2419.6	2237.5	1983.0
17.5°	2954.8	2943.8	2926.3	2904.4	2875.8	2834.2	2807.8	2693.8	2527.1	2316.5	2040.1
20°	3011.8	3007.5	3000.9	2987.7	2974.6	2946.0	2926.3	2818.8	2643.3	2393.2	2094.9
22.5°	3055.7	3051.3	3049.1	3049.1	3051.3	3040.4	3027.2	2935.1	2755.2	2474.4	2145.4
25°	3123.7	3121.5	3117.1	3112.7	3128.1	3130.3	3125.9	3062.3	2895.6	2581.9	2209.0
27.5°	3218.0	3211.5	3202.7	3198.3	3213.7	3224.6	3233.4	3189.5	3044.7	2691.6	2281.4
30°	3362.8	3343.1	3321.1	3305.8	3316.8	3334.3	3354.0	3327.7	3198.3	2827.6	2355.9
32.5°	3533.9	3509.8	3459.3	3430.8	3459.3	3472.5	3487.9	3474.7	3358.4	2974.6	2430.5
35°	3742.3	3713.8	3661.2	3619.5	3669.9	3641.4	3634.8	3621.7	3509.8	3119.3	2513.9
37.5°	4088.9	4047.2	3963.9	3871.7	3871.7	3810.3	3786.2	3746.7	3645.8	3248.8	2595.1
40°	4490.3	4435.5	4328.0	4192.0	4067.0	3939.7	3924.4	3895.9	3805.9	3397.9	2687.2
42.5°	4931.3	4826.0	4676.8	4512.3	4310.5	4165.7	4130.6	4049.4	3961.7	3549.3	2779.3
45°	5420.4	5201.1	4983.9	4900.6	4567.1	4435.5	4369.7	4222.7	4124.0	3707.2	2875.8
47.5°	5499.4	5328.3	5183.5	5170.4	4806.2	4696.5	4622.0	4411.4	4299.5	3876.1	2976.7
50°	5455.5	5352.4	5367.8	5315.1	4981.7	4909.3	4852.3	4613.2	4472.8	4038.5	3068.9
52.5°	5271.3	5328.3	5416.1	5319.5	5148.4	5089.2	5060.7	4830.4	4635.1	4187.6	3152.2
55°	5051.9	5091.4	5280.0	5398.5	5341.5	5288.8	5262.5	5082.6	4795.3	4312.7	3229.0
57.5°	4731.6	4714.1	4922.5	5385.3	5543.3	5512.6	5484.1	5330.5	4944.4	4402.6	3277.3
60°	4251.2	4213.9	4477.2	5122.1	5609.1	5657.4	5644.2	5495.0	5058.5	4400.4	3257.5
62.5°	3419.9	3512.0	3876.1	4692.2	5637.6	5760.5	5736.3	5508.2	5095.8	4273.2	3132.5
65°	2542.4	2674.0	3031.6	4099.9	5598.1	5813.1	5747.3	5293.2	4922.5	4020.9	2858.3
67.5°	1831.7	1947.9	2209.0	3373.8	5218.6	5571.8	5495.0	4942.2	4523.2	3663.3	2478.8
70°	1252.6	1335.9	1513.6	2456.9	4455.2	4817.2	4768.9	4418.0	3893.7	3237.8	2013.7
72.5°	884.0	919.1	1033.2	1621.1	3384.8	3779.6	3722.6	3634.8	3128.1	2691.6	1566.2
75°	662.5	684.4	745.8	1048.6	2283.6	2619.2	2566.5	2617.0	2336.2	2037.9	1140.7
77.5°	250.1	272.0	423.4	669.1	1351.3	1607.9	1555.3	1586.0	1298.6	1028.8	568.1
80°	68.0	72.4	140.4	318.1	614.2	800.7	728.3	625.2	482.6	473.8	300.5
82.5°	28.5	32.9	63.6	171.1	219.4	219.4	184.3	228.1	184.3	221.6	144.8
85°	11.0	13.2	15.4	43.9	28.5	30.7	32.9	43.9	37.3	46.1	32.9
87.5°	0.0	0.0	0.0	2.2	2.2	4.4	2.2	4.4	6.6	6.6	6.6
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°	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4	1772.4
2.5°	1761.5	1737.3	1702.3	1645.2	1586.0	1553.1	1511.4	1504.8	1461.0	1456.6	1439.0
5°	1772.4	1722.0	1632.1	1522.4	1414.9	1331.5	1270.1	1237.2	1173.6	1173.6	1156.0
7.5°	1781.2	1702.3	1557.5	1395.1	1248.2	1136.3	1052.9	1017.8	960.8	956.4	943.3
10°	1783.4	1678.1	1476.3	1265.7	1085.8	971.8	890.6	851.1	800.7	796.3	787.5
12.5°	1801.0	1665.0	1403.9	1153.8	969.6	846.7	767.8	734.9	695.4	691.0	682.2
15°	1829.5	1665.0	1342.5	1059.5	866.5	752.4	684.4	653.7	625.2	620.8	616.4
17.5°	1858.0	1660.6	1281.1	971.8	780.9	677.8	618.6	594.5	572.5	570.3	566.0
20°	1884.3	1658.4	1219.7	897.2	715.1	616.4	570.3	548.4	530.9	530.9	528.7
22.5°	1910.6	1654.0	1160.4	827.0	658.1	570.3	530.9	506.7	493.6	493.6	491.4
25°	1950.1	1654.0	1105.6	767.8	612.0	535.2	495.8	478.2	467.2	465.0	465.0
27.5°	1996.2	1667.2	1057.3	715.1	572.5	500.1	469.4	451.9	438.7	434.3	436.5
30°	2046.6	1678.1	1013.5	669.1	535.2	473.8	440.9	423.4	410.2	405.8	408.0
32.5°	2097.1	1691.3	974.0	627.4	498.0	449.7	416.8	397.0	383.9	381.7	381.7
35°	2151.9	1704.4	934.5	592.3	467.2	425.6	394.9	372.9	364.1	359.8	361.9
37.5°	2206.8	1726.4	897.2	559.4	445.3	403.6	375.1	353.2	346.6	344.4	344.4
40°	2272.6	1759.3	881.8	537.4	425.6	383.9	359.8	337.8	331.2	331.2	331.2
42.5°	2327.4	1785.6	868.7	513.3	410.2	366.3	344.4	326.8	322.5	320.3	322.5
45°	2382.3	1809.7	851.1	491.4	390.5	348.8	331.2	313.7	309.3	309.3	309.3
47.5°	2437.1	1822.9	827.0	469.4	372.9	333.4	318.1	302.7	298.3	298.3	298.3
50°	2481.0	1833.9	791.9	445.3	353.2	320.3	304.9	289.6	285.2	285.2	285.2
52.5°	2524.9	1836.1	754.6	416.8	333.4	304.9	291.8	276.4	272.0	269.8	269.8
55°	2564.3	1833.9	710.7	383.9	311.5	287.4	276.4	263.2	254.5	245.7	250.1
57.5°	2592.9	1831.7	660.3	351.0	289.6	269.8	265.4	247.9	230.3	208.4	212.8
60°	2581.9	1807.5	605.4	309.3	265.4	252.3	252.3	228.1	197.4	186.5	188.7
62.5°	2511.7	1739.5	548.4	265.4	241.3	234.7	232.5	206.2	182.1	171.1	173.3
65°	2301.1	1568.4	465.0	225.9	217.2	215.0	215.0	190.8	168.9	155.7	157.9
67.5°	1980.8	1316.2	379.5	190.8	193.0	197.4	197.4	175.5	153.6	140.4	142.6
70°	1588.2	1028.8	302.7	164.5	166.7	173.3	177.7	157.9	138.2	125.0	125.0
72.5°	1195.5	780.9	243.5	138.2	149.2	149.2	155.7	140.4	120.6	107.5	109.7
75°	866.5	559.4	193.0	116.3	129.4	127.2	127.2	118.5	103.1	94.3	94.3
77.5°	410.2	293.9	153.6	83.4	100.9	98.7	100.9	94.3	87.7	79.0	81.2
80°	201.8	144.8	98.7	59.2	70.2	72.4	79.0	74.6	72.4	65.8	65.8
82.5°	96.5	57.0	46.1	41.7	48.3	50.5	54.8	54.8	57.0	52.6	52.6
85°	26.3	15.4	19.7	26.3	30.7	32.9	37.3	39.5	39.5	37.3	39.5
87.5°	6.6	6.6	8.8	13.2	15.4	17.5	19.7	19.7	8.8	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)