

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: P799236

Luminaire Tested: **ARCH2-100-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

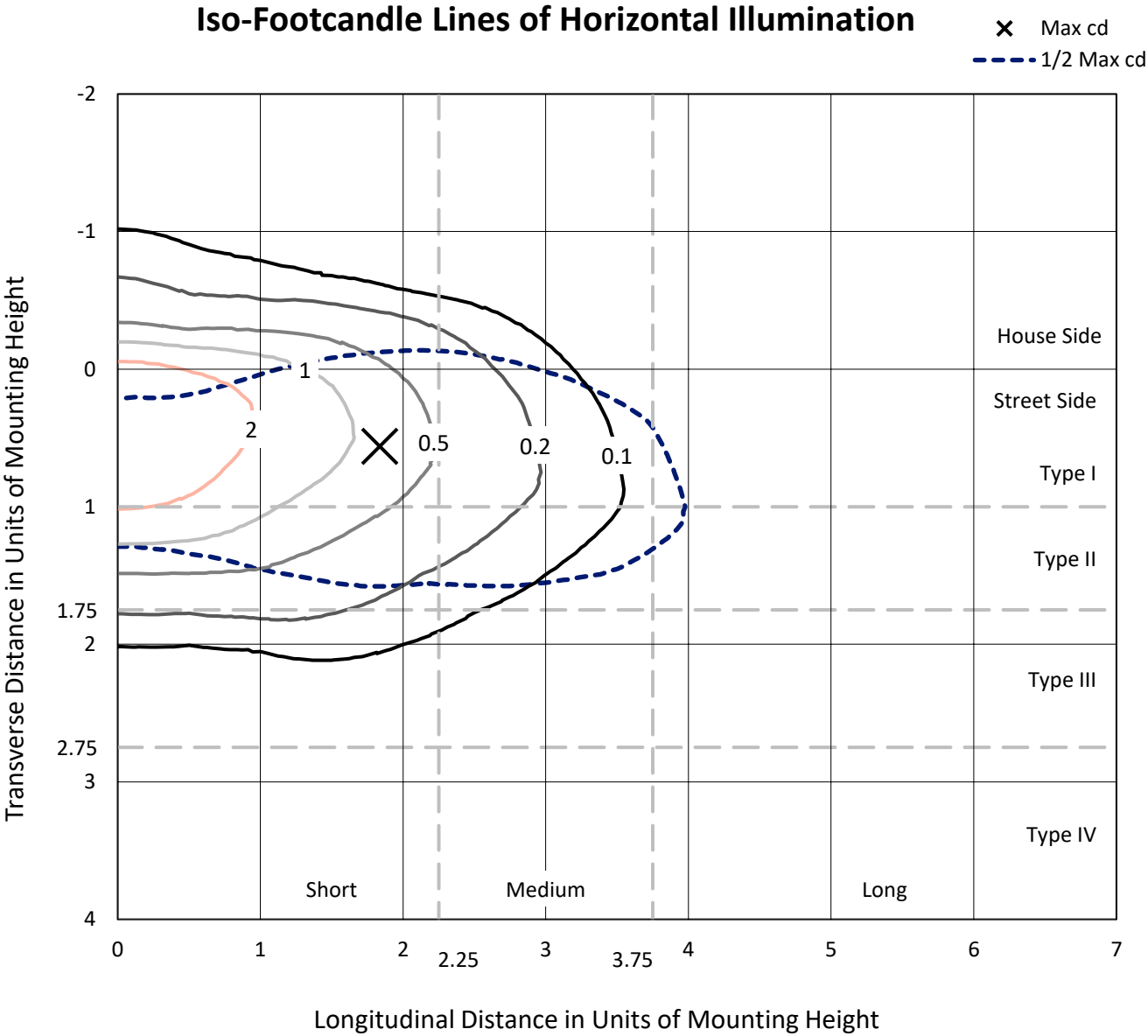
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8170 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.3
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



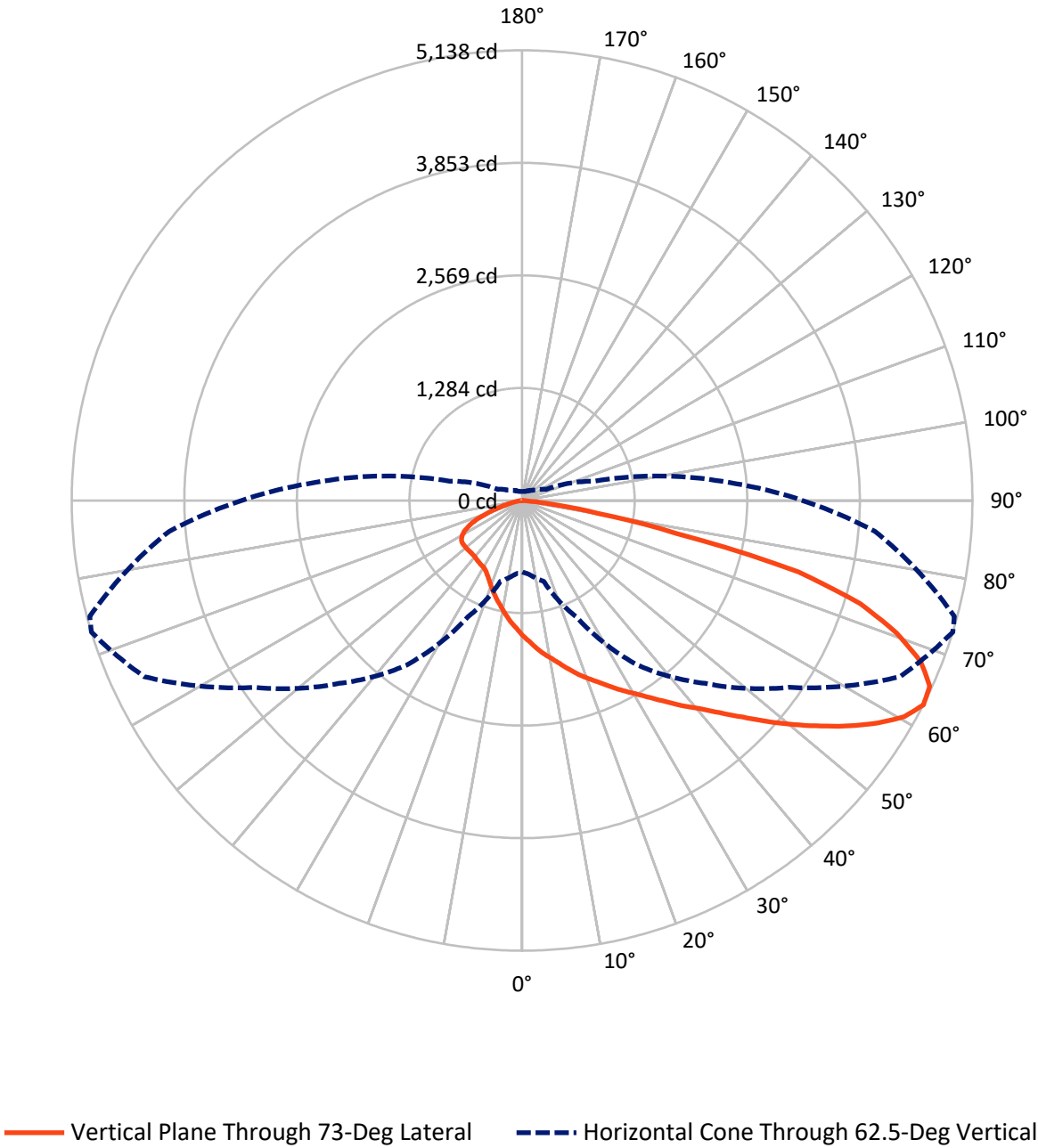
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Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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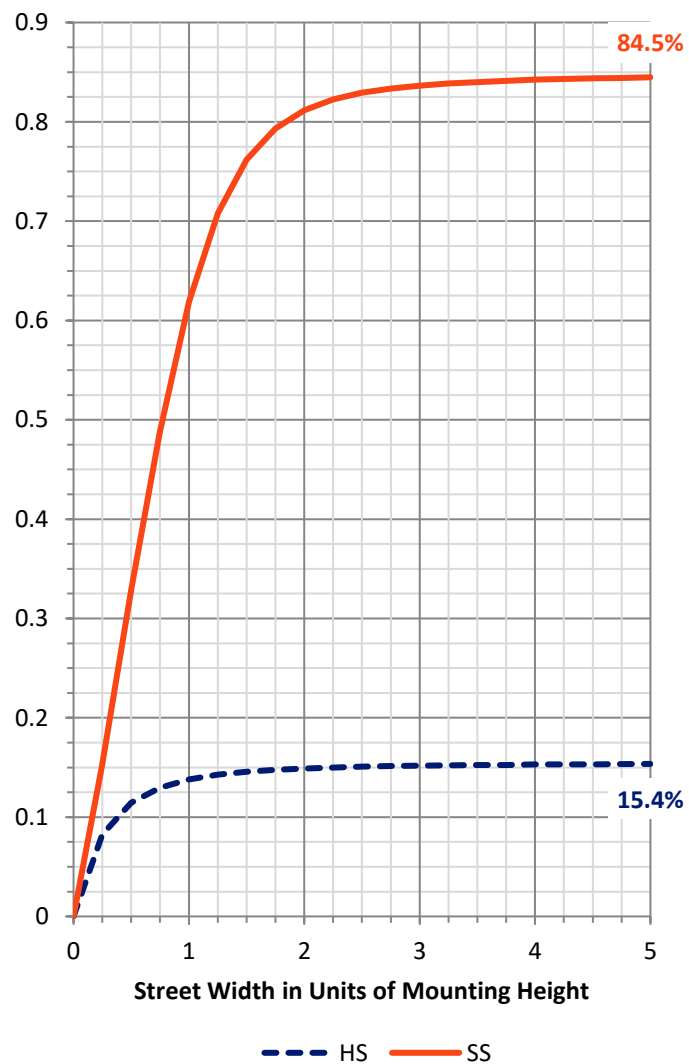
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1266.5	0.0	1266.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6903.5	0.0	6903.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	8170.0	0.0	8170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	1.8
10°-20°	451.0	5.5
20°-30°	750.7	9.2
30°-40°	1132.6	13.9
40°-50°	1583.1	19.4
50°-60°	1748.7	21.4
60°-70°	1523.3	18.6
70°-80°	769.5	9.4
80°-90°	61.8	0.8
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°	8170.0	100.0
0°-180°	8170.0	100.0

Coefficient of Utilization



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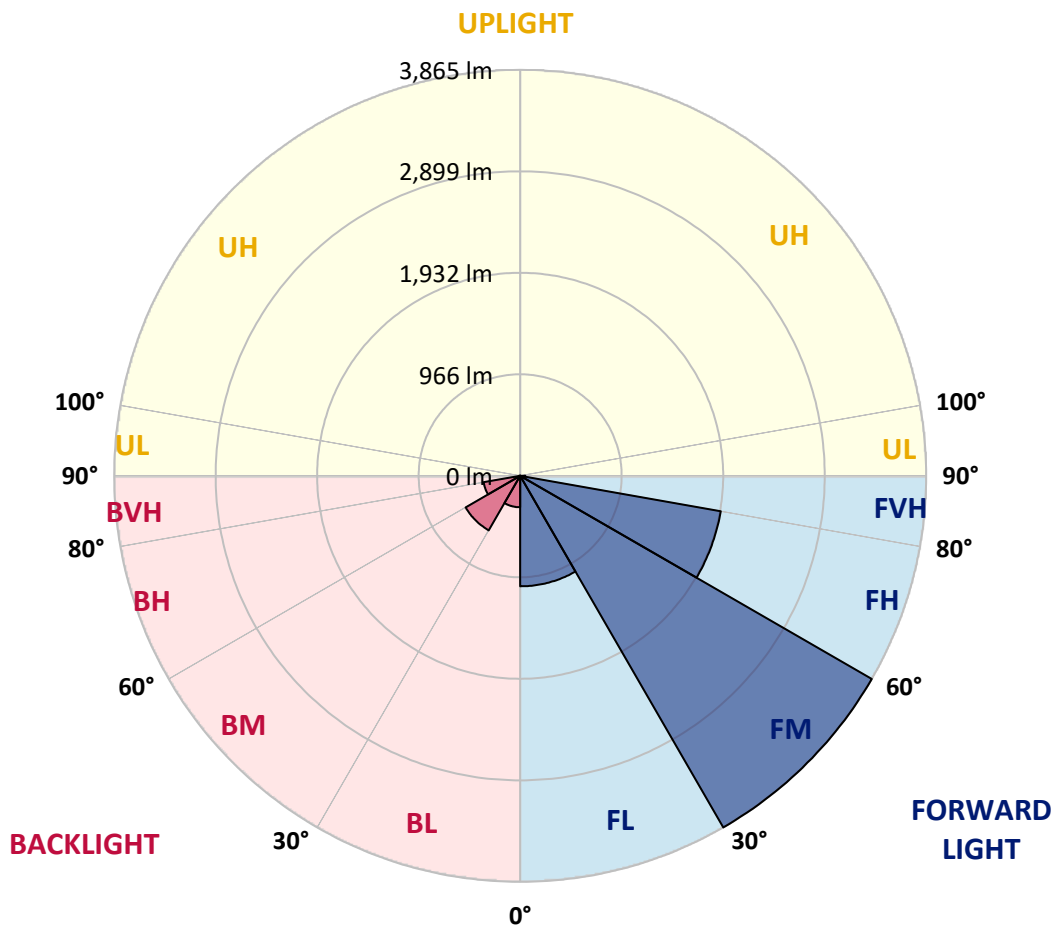
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.7	12.9			
FM	(30°-60°)	3864.7	47.3			
FH	(60°-80°)	1939.3	23.7			G2/5000
FVH	(80°-90°)	47.8	0.6			G1/100
BL	(0°-30°)	299.3	3.7	B1/500		
BM	(30°-60°)	599.7	7.3	B1/1000		
BH	(60°-80°)	353.5	4.3	B1/500		G1/500
BVH	(80°-90°)	14.0	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0
2.5°	1760.6	1780.2	1769.5	1776.7	1741.1	1717.9	1691.2	1639.6	1611.1	1607.5	1573.7
5°	2018.8	2040.1	2022.3	2017.0	1954.7	1901.3	1840.7	1750.0	1689.4	1678.7	1604.0
7.5°	2276.9	2296.5	2275.1	2259.1	2175.4	2081.1	1992.1	1858.5	1764.2	1746.4	1628.9
10°	2458.5	2476.3	2460.3	2444.2	2357.0	2260.9	2134.5	1960.0	1831.8	1803.4	1644.9
12.5°	2595.6	2606.2	2599.1	2584.9	2503.0	2399.7	2278.7	2074.0	1908.4	1872.8	1669.8
15°	2707.7	2725.5	2716.6	2705.9	2627.6	2524.3	2408.6	2193.2	1997.4	1952.9	1707.2
17.5°	2782.5	2794.9	2796.7	2796.7	2727.3	2625.8	2513.7	2301.8	2086.4	2029.4	1742.8
20°	2816.3	2830.5	2839.4	2853.7	2796.7	2709.5	2595.6	2394.4	2170.1	2106.0	1776.7
22.5°	2832.3	2844.8	2867.9	2900.0	2853.7	2780.7	2675.7	2479.8	2253.8	2186.1	1815.8
25°	2844.8	2860.8	2894.6	2955.2	2923.1	2860.8	2770.0	2577.8	2353.4	2284.0	1872.8
27.5°	2878.6	2898.2	2930.2	3003.2	2964.1	2933.8	2869.7	2682.8	2458.5	2387.3	1942.2
30°	2996.1	3012.1	3010.3	3056.6	3008.6	2999.7	2955.2	2784.3	2559.9	2488.7	2024.1
32.5°	3209.7	3225.7	3186.6	3168.8	3063.7	3065.5	3047.7	2892.8	2681.0	2608.0	2118.5
35°	3439.4	3457.2	3405.6	3375.3	3199.0	3147.4	3156.3	3028.1	2816.3	2743.3	2236.0
37.5°	3644.1	3665.5	3621.0	3576.5	3398.4	3279.2	3277.4	3179.5	2971.2	2896.4	2365.9
40°	3756.3	3781.2	3807.9	3783.0	3596.0	3464.3	3407.3	3334.3	3124.3	3047.7	2506.5
42.5°	3809.7	3879.1	3927.2	3911.1	3758.0	3624.5	3556.9	3496.3	3311.2	3236.4	2673.9
45°	3660.1	3661.9	3763.4	3850.6	3822.1	3733.1	3720.6	3677.9	3524.8	3453.6	2862.6
47.5°	3473.2	3459.0	3530.2	3685.0	3765.2	3788.3	3861.3	3879.1	3768.7	3697.5	3054.8
50°	3024.6	3033.5	3264.9	3487.4	3644.1	3793.6	3961.0	4085.6	4019.7	3952.1	3257.8
52.5°	2460.3	2481.6	2746.9	3236.4	3483.9	3740.2	4019.7	4292.1	4276.1	4212.0	3460.7
55°	1972.5	2006.3	2287.6	2818.1	3279.2	3621.0	4044.6	4480.8	4541.3	4482.6	3660.1
57.5°	1507.8	1543.4	1780.2	2325.0	3017.5	3426.9	4026.8	4646.4	4788.8	4751.4	3843.5
60°	1135.8	1171.4	1322.7	1885.2	2689.9	3209.7	3937.8	4755.0	5011.3	4972.1	3977.0
62.5°	813.6	842.0	954.2	1466.9	2291.1	2951.6	3718.9	4756.7	5137.7	5105.7	4041.1
65°	585.7	585.7	676.5	1046.8	1917.3	2641.8	3387.7	4537.8	5111.0	5102.1	3996.6
67.5°	421.9	425.5	498.5	731.7	1529.2	2266.2	2958.7	4147.9	4904.5	4949.0	3836.4
70°	299.1	308.0	341.8	510.9	1155.4	1789.1	2499.4	3637.0	4532.4	4610.8	3526.6
72.5°	231.4	236.8	259.9	356.0	843.8	1329.8	1992.1	3067.3	4035.7	4124.8	3104.7
75°	178.0	183.4	201.2	261.7	605.3	932.8	1415.3	2380.1	3254.2	3412.7	2494.1
77.5°	130.0	137.1	149.5	190.5	352.5	592.8	858.1	1338.7	1796.2	1871.0	1306.7
80°	60.5	69.4	87.2	122.8	190.5	279.5	304.4	516.3	863.4	902.6	708.5
82.5°	33.8	42.7	49.8	74.8	96.1	99.7	103.3	130.0	325.8	359.6	297.3
85°	16.0	21.4	23.1	32.0	32.0	28.5	33.8	24.9	53.4	64.1	62.3
87.5°	0.0	1.8	3.6	8.9	7.1	5.3	5.3	5.3	5.3	7.1	5.3
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°	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0	1547.0
2.5°	1557.7	1534.5	1481.1	1434.9	1404.6	1377.9	1342.3	1326.3	1297.8	1303.1	1287.1
5°	1566.6	1523.9	1429.5	1342.3	1278.2	1221.2	1158.9	1123.3	1084.2	1080.6	1068.1
7.5°	1571.9	1506.1	1370.8	1247.9	1150.0	1062.8	979.1	932.8	884.8	874.1	863.4
10°	1566.6	1479.4	1310.2	1150.0	1020.1	911.5	817.1	758.4	708.5	696.1	685.4
12.5°	1571.9	1465.1	1253.3	1059.2	904.3	781.5	674.7	614.2	567.9	555.4	548.3
15°	1584.4	1456.2	1205.2	977.3	801.1	664.0	559.0	507.4	470.0	457.5	454.0
17.5°	1595.1	1447.3	1153.6	897.2	697.8	560.8	470.0	427.3	395.2	382.7	379.2
20°	1609.3	1434.9	1102.0	820.7	607.1	478.9	398.8	361.4	336.5	327.6	325.8
22.5°	1621.8	1426.0	1053.9	744.1	523.4	413.0	345.4	315.1	297.3	288.4	288.4
25°	1653.8	1429.5	1012.9	672.9	461.1	361.4	304.4	281.3	267.0	261.7	261.7
27.5°	1691.2	1443.8	980.9	612.4	407.7	322.2	275.9	256.4	249.2	242.1	243.9
30°	1744.6	1472.2	959.5	562.5	368.5	292.0	252.8	238.5	231.4	229.6	229.6
32.5°	1812.3	1518.5	957.8	530.5	340.0	268.8	236.8	224.3	220.7	219.0	219.0
35°	1892.4	1559.5	947.1	516.3	322.2	252.8	224.3	215.4	213.6	213.6	213.6
37.5°	1988.5	1627.1	940.0	496.7	313.3	243.9	215.4	208.3	208.3	208.3	208.3
40°	2088.2	1682.3	929.3	478.9	309.8	238.5	210.1	201.2	201.2	201.2	201.2
42.5°	2207.5	1762.4	925.7	470.0	304.4	235.0	202.9	192.3	194.0	194.0	195.8
45°	2351.7	1853.2	923.9	461.1	302.6	231.4	195.8	183.4	185.1	183.4	183.4
47.5°	2497.6	1958.2	929.3	455.7	300.9	227.9	190.5	174.5	174.5	172.7	172.7
50°	2650.7	2054.4	932.8	450.4	297.3	220.7	181.6	167.3	163.8	160.2	162.0
52.5°	2794.9	2143.4	934.6	441.5	286.6	210.1	174.5	158.4	153.1	147.8	149.5
55°	2939.1	2228.8	938.2	430.8	272.4	199.4	165.6	149.5	142.4	135.3	135.3
57.5°	3069.1	2303.6	929.3	404.1	256.4	188.7	156.7	138.9	128.2	121.1	121.1
60°	3158.1	2357.0	902.6	364.9	235.0	176.2	147.8	128.2	115.7	110.4	110.4
62.5°	3200.8	2365.9	854.5	300.9	208.3	163.8	137.1	117.5	106.8	103.3	103.3
65°	3159.9	2326.7	779.7	226.1	179.8	149.5	126.4	108.6	97.9	89.0	89.0
67.5°	3017.5	2216.4	676.5	170.9	153.1	135.3	115.7	99.7	87.2	80.1	80.1
70°	2730.8	1986.7	523.4	137.1	130.0	117.5	105.0	89.0	78.3	69.4	69.4
72.5°	2355.2	1684.1	368.5	110.4	110.4	99.7	89.0	78.3	67.6	60.5	60.5
75°	1806.9	1246.2	247.4	89.0	90.8	83.7	73.0	64.1	57.0	51.6	51.6
77.5°	986.2	616.0	151.3	65.9	67.6	64.1	57.0	51.6	48.1	42.7	42.7
80°	478.9	270.6	87.2	46.3	48.1	46.3	42.7	37.4	37.4	33.8	33.8
82.5°	201.2	101.5	46.3	32.0	32.0	28.5	26.7	26.7	26.7	24.9	24.9
85°	49.8	19.6	19.6	17.8	17.8	17.8	16.0	16.0	16.0	12.5	14.2
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	5.3	1.8	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)