

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: P836558

Luminaire Tested: **ARCH3-40-740-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-740-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5367 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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



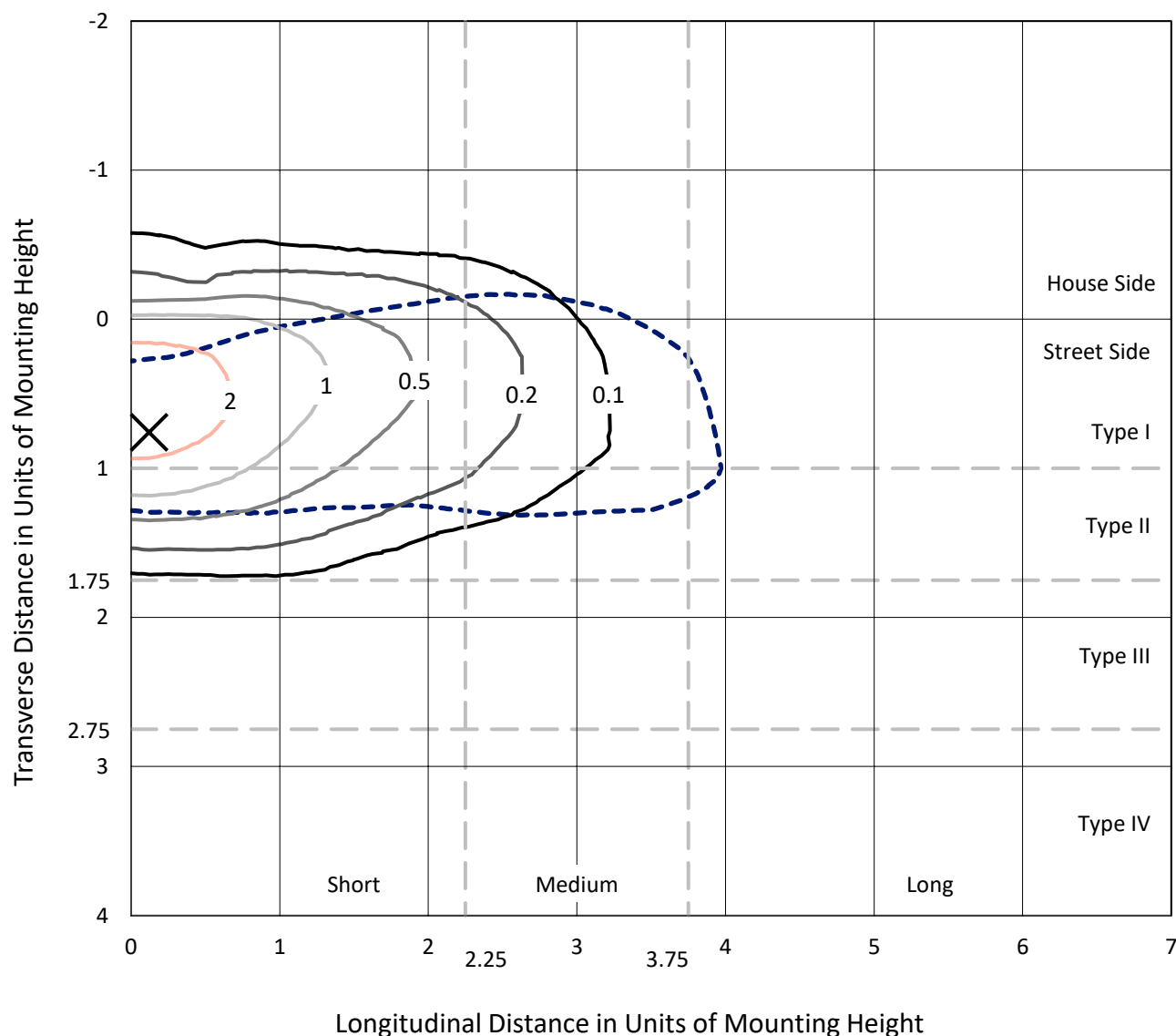
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

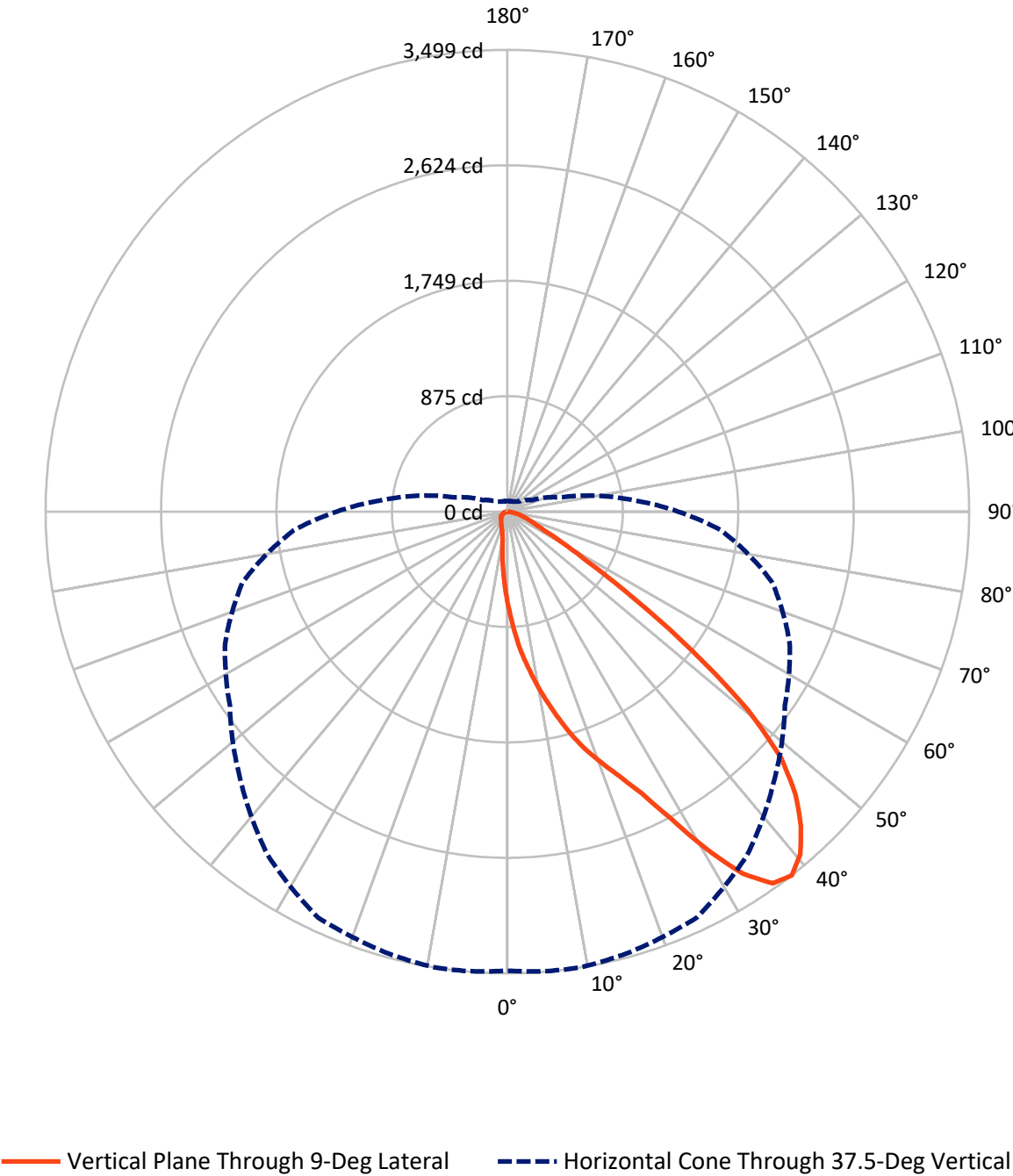


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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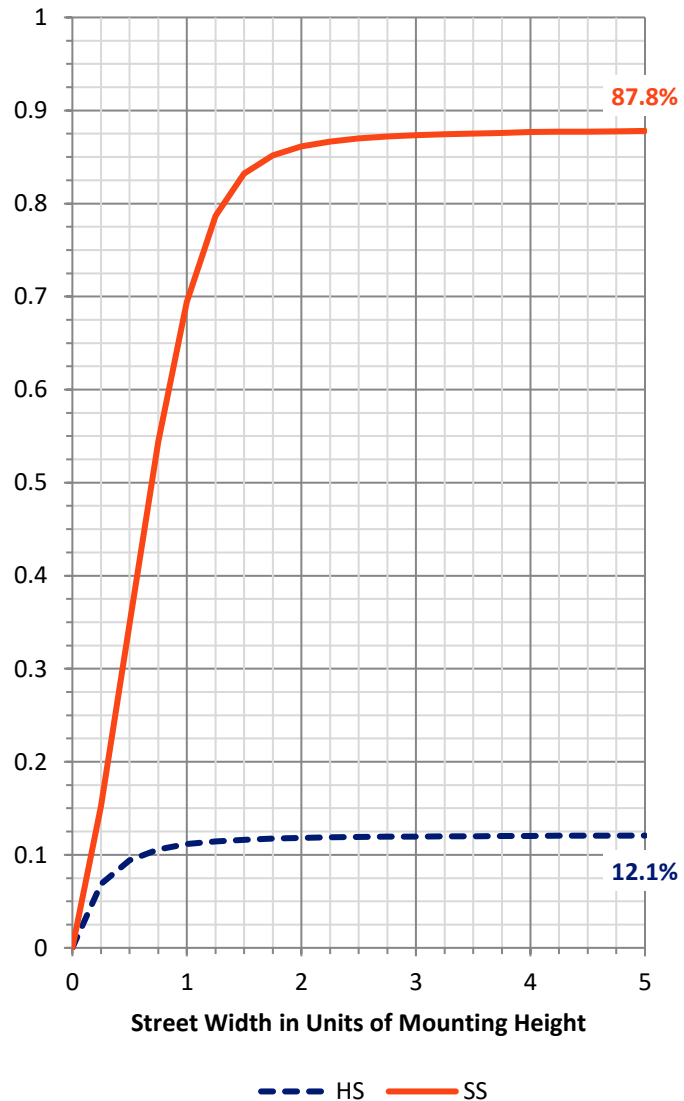
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.7	0.0	652.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4714.3	0.0	4714.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	5367.0	0.0	5367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	1.3
10°-20°	247.9	4.6
20°-30°	509.3	9.5
30°-40°	900.2	16.8
40°-50°	1195.8	22.3
50°-60°	1134.2	21.1
60°-70°	865.3	16.1
70°-80°	419.5	7.8
80°-90°	23.6	0.4
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°	5367.0	100.0
0°-180°	5367.0	100.0

Coefficient of Utilization



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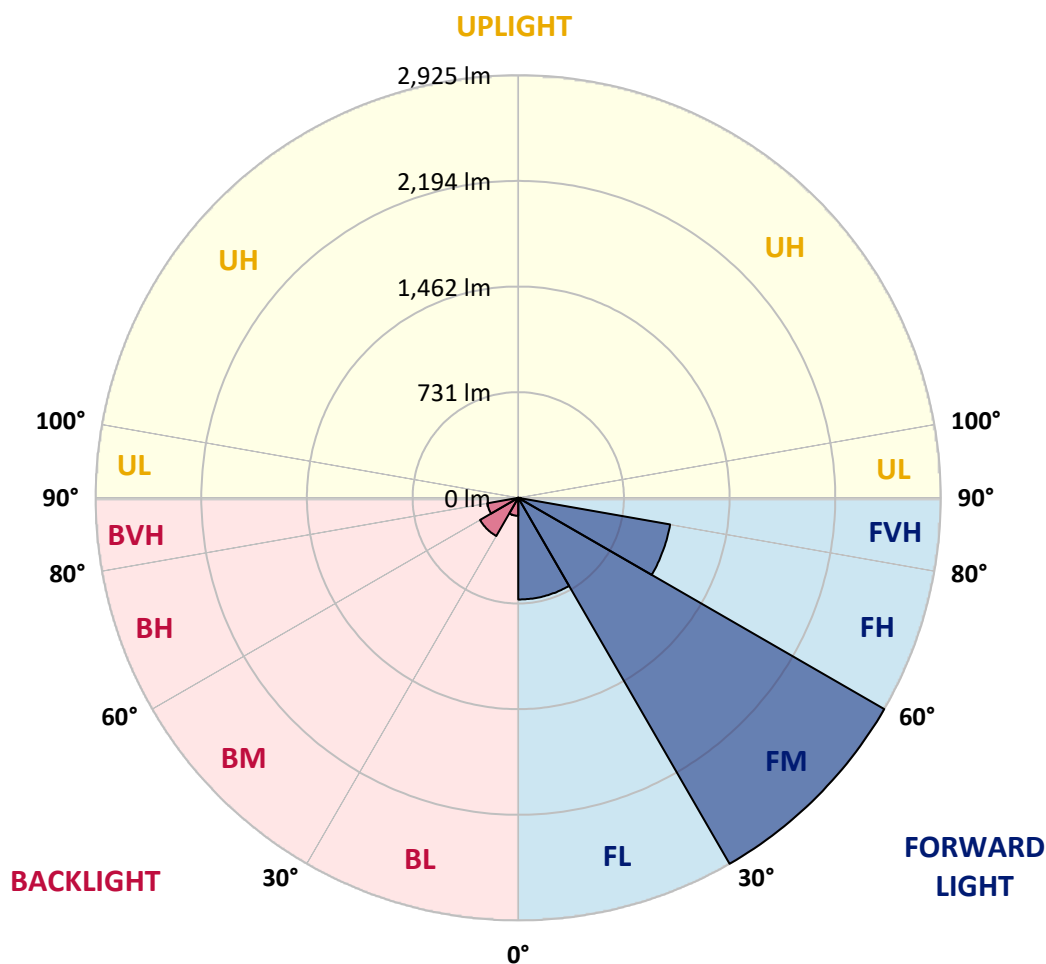
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.9	13.1			
FM	(30°-60°)	2924.8	54.5			
FH	(60°-80°)	1066.9	19.9			G1/1800
FVH	(80°-90°)	18.7	0.3			G1/100
BL	(0°-30°)	124.6	2.3	B1/500		
BM	(30°-60°)	305.4	5.7	B1/1000		
BH	(60°-80°)	217.8	4.1	B1/500		G1/500
BVH	(80°-90°)	4.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5
2.5°	879.1	863.7	881.3	879.1	863.7	853.8	822.9	813.0	776.7	750.2	727.1
5°	1059.8	1044.3	1059.8	1055.4	1033.3	1009.1	958.4	925.4	860.4	803.1	751.3
7.5°	1209.6	1209.6	1216.2	1217.3	1190.9	1153.4	1090.6	1041.0	949.6	861.5	778.9
10°	1371.5	1372.6	1387.0	1377.0	1341.8	1291.1	1211.8	1149.0	1038.8	923.2	805.3
12.5°	1544.5	1545.6	1550.0	1545.6	1503.7	1438.7	1342.9	1260.3	1133.6	993.7	841.6
15°	1717.4	1718.5	1724.1	1716.3	1670.1	1594.1	1485.0	1383.7	1233.8	1073.0	885.7
17.5°	1879.4	1881.6	1886.0	1876.1	1827.6	1737.3	1626.0	1503.7	1340.7	1157.8	935.3
20°	2024.8	2027.0	2030.3	2017.1	1968.6	1878.3	1758.2	1630.4	1449.8	1244.8	989.3
22.5°	2171.3	2173.5	2179.0	2161.4	2107.4	2003.9	1886.0	1753.8	1565.4	1340.7	1052.1
25°	2358.6	2360.8	2365.2	2339.9	2266.1	2144.9	2020.4	1884.9	1691.0	1448.6	1129.2
27.5°	2632.9	2630.7	2630.7	2584.4	2457.7	2300.2	2155.9	2018.2	1826.5	1564.3	1214.0
30°	2972.2	2966.7	2963.4	2900.6	2719.9	2475.4	2294.7	2142.7	1956.5	1686.6	1305.4
32.5°	3276.3	3276.3	3269.7	3203.6	3011.9	2711.1	2442.3	2263.9	2082.1	1810.0	1400.2
35°	3455.8	3463.5	3460.2	3410.7	3270.8	2964.5	2641.7	2409.3	2214.3	1938.9	1513.6
37.5°	3480.1	3495.5	3498.8	3469.0	3395.2	3171.6	2863.1	2566.8	2359.7	2077.7	1623.8
40°	3382.0	3415.1	3415.1	3410.7	3384.2	3269.7	3049.3	2749.7	2509.5	2222.0	1735.1
42.5°	3231.1	3265.2	3260.8	3277.4	3270.8	3246.5	3154.0	2920.4	2659.3	2370.7	1836.4
45°	3033.9	3069.2	3060.3	3090.1	3103.3	3129.7	3143.0	3039.4	2807.0	2532.7	1949.9
47.5°	2717.7	2777.2	2790.4	2843.3	2898.4	2981.0	3043.8	3082.4	2944.7	2706.7	2073.3
50°	2250.6	2334.4	2360.8	2472.1	2623.0	2793.7	2895.1	3029.5	3041.6	2885.2	2206.6
52.5°	1611.7	1708.6	1749.4	1932.3	2242.9	2540.4	2723.2	2912.7	3079.1	3055.9	2350.9
55°	1042.1	1124.8	1164.4	1336.3	1749.4	2216.5	2520.5	2761.8	3058.1	3212.4	2516.1
57.5°	642.3	689.6	716.1	863.7	1243.7	1801.2	2255.0	2623.0	2994.2	3347.9	2688.0
60°	432.9	460.5	473.7	543.1	845.0	1346.2	1890.4	2477.6	2910.5	3439.3	2844.4
62.5°	287.5	296.3	309.6	352.5	557.4	945.2	1452.0	2217.6	2847.7	3444.8	2960.1
65°	222.5	226.9	232.4	251.2	343.7	661.0	1021.2	1796.8	2754.1	3328.0	2996.4
67.5°	175.2	179.6	186.2	196.1	249.0	448.4	695.1	1316.5	2562.4	3145.2	2937.0
70°	137.7	141.0	145.4	154.2	193.9	325.0	459.4	874.7	2175.7	2971.1	2749.7
72.5°	109.1	112.4	116.8	125.6	157.5	238.0	315.1	545.3	1677.8	2758.5	2389.4
75°	85.9	88.1	91.4	100.2	126.7	185.1	213.7	326.1	1140.2	2369.6	1861.8
77.5°	43.0	52.9	60.6	69.4	92.5	127.8	142.1	180.7	481.4	1216.2	887.9
80°	25.3	30.8	33.0	38.6	60.6	77.1	77.1	72.7	152.0	467.1	362.4
82.5°	14.3	19.8	20.9	22.0	36.4	44.1	35.3	26.4	30.8	156.4	105.8
85°	4.4	6.6	7.7	8.8	12.1	13.2	12.1	11.0	8.8	15.4	9.9
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	2.2	2.2	3.3	3.3	3.3
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°	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5
2.5°	713.9	699.5	672.0	646.7	622.4	604.8	588.3	572.8	561.8	553.0	551.9
5°	723.8	695.1	642.3	592.7	547.5	510.1	478.1	452.8	434.0	420.8	419.7
7.5°	737.0	692.9	612.5	538.7	471.5	417.5	371.3	337.1	312.9	302.9	295.2
10°	748.0	690.7	582.8	484.7	396.6	328.3	273.2	239.1	221.4	214.8	211.5
12.5°	766.7	692.9	557.4	435.1	331.6	251.2	209.3	190.6	182.9	177.4	176.3
15°	794.3	702.8	533.2	386.7	265.5	202.7	178.5	166.3	158.6	157.5	156.4
17.5°	821.8	711.7	511.2	337.1	220.3	176.3	159.7	149.8	144.3	143.2	143.2
20°	853.8	722.7	486.9	289.7	188.4	158.6	145.4	137.7	131.1	130.0	130.0
22.5°	891.2	738.1	463.8	247.9	167.4	145.4	134.4	125.6	120.1	119.0	119.0
25°	941.9	761.2	445.1	217.0	153.1	134.4	124.5	116.8	112.4	110.2	110.2
27.5°	998.1	793.2	431.8	198.3	143.2	125.6	115.7	109.1	104.7	102.5	102.5
30°	1060.9	828.4	423.0	190.6	137.7	117.9	109.1	102.5	96.9	95.8	95.8
32.5°	1130.3	869.2	417.5	191.7	136.6	112.4	102.5	95.8	91.4	89.2	89.2
35°	1207.4	914.4	414.2	198.3	138.8	108.0	96.9	90.3	85.9	83.7	83.7
37.5°	1293.3	967.2	414.2	204.9	144.3	106.9	91.4	84.8	81.5	79.3	79.3
40°	1373.7	1023.4	418.6	212.6	149.8	106.9	87.0	81.5	77.1	74.9	74.9
42.5°	1436.5	1055.4	421.9	220.3	153.1	105.8	82.6	77.1	73.8	71.6	71.6
45°	1508.1	1089.5	415.3	223.6	153.1	103.6	79.3	73.8	70.5	68.3	68.3
47.5°	1587.5	1131.4	414.2	225.8	149.8	99.1	76.0	70.5	68.3	66.1	66.1
50°	1667.9	1177.6	416.4	224.7	145.4	92.5	71.6	68.3	65.0	62.8	62.8
52.5°	1759.3	1226.1	420.8	222.5	135.5	84.8	68.3	65.0	61.7	59.5	58.4
55°	1860.7	1279.0	429.6	218.1	122.3	77.1	65.0	61.7	57.3	55.1	54.0
57.5°	1977.4	1344.0	439.6	209.3	108.0	70.5	61.7	57.3	50.7	47.4	46.3
60°	2088.7	1417.8	450.6	188.4	93.6	63.9	58.4	51.8	45.2	43.0	41.9
62.5°	2193.4	1490.5	456.1	150.9	79.3	58.4	55.1	47.4	40.8	38.6	37.5
65°	2260.6	1569.8	444.0	102.5	65.0	54.0	50.7	44.1	37.5	34.2	34.2
67.5°	2265.0	1607.3	402.1	67.2	52.9	48.5	46.3	39.7	33.0	30.8	29.7
70°	2153.7	1551.1	307.4	52.9	44.1	41.9	41.9	35.3	28.6	26.4	25.3
72.5°	1898.1	1373.7	196.1	43.0	37.5	35.3	35.3	29.7	25.3	22.0	20.9
75°	1498.2	1059.8	104.7	35.3	30.8	29.7	27.5	24.2	20.9	18.7	17.6
77.5°	688.5	467.1	48.5	25.3	23.1	23.1	20.9	17.6	16.5	14.3	14.3
80°	272.1	158.6	24.2	16.5	15.4	15.4	15.4	12.1	12.1	9.9	8.8
82.5°	74.9	33.0	12.1	9.9	9.9	9.9	8.8	7.7	7.7	6.6	6.6
85°	7.7	5.5	5.5	5.5	5.5	4.4	4.4	3.3	2.2	2.2	2.2
87.5°	3.3	3.3	3.3	3.3	3.3	2.2	1.1	0.0	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)