

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: P799220

Luminaire Tested: **ARCH2-100-722-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799220
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: ARCH2-100-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

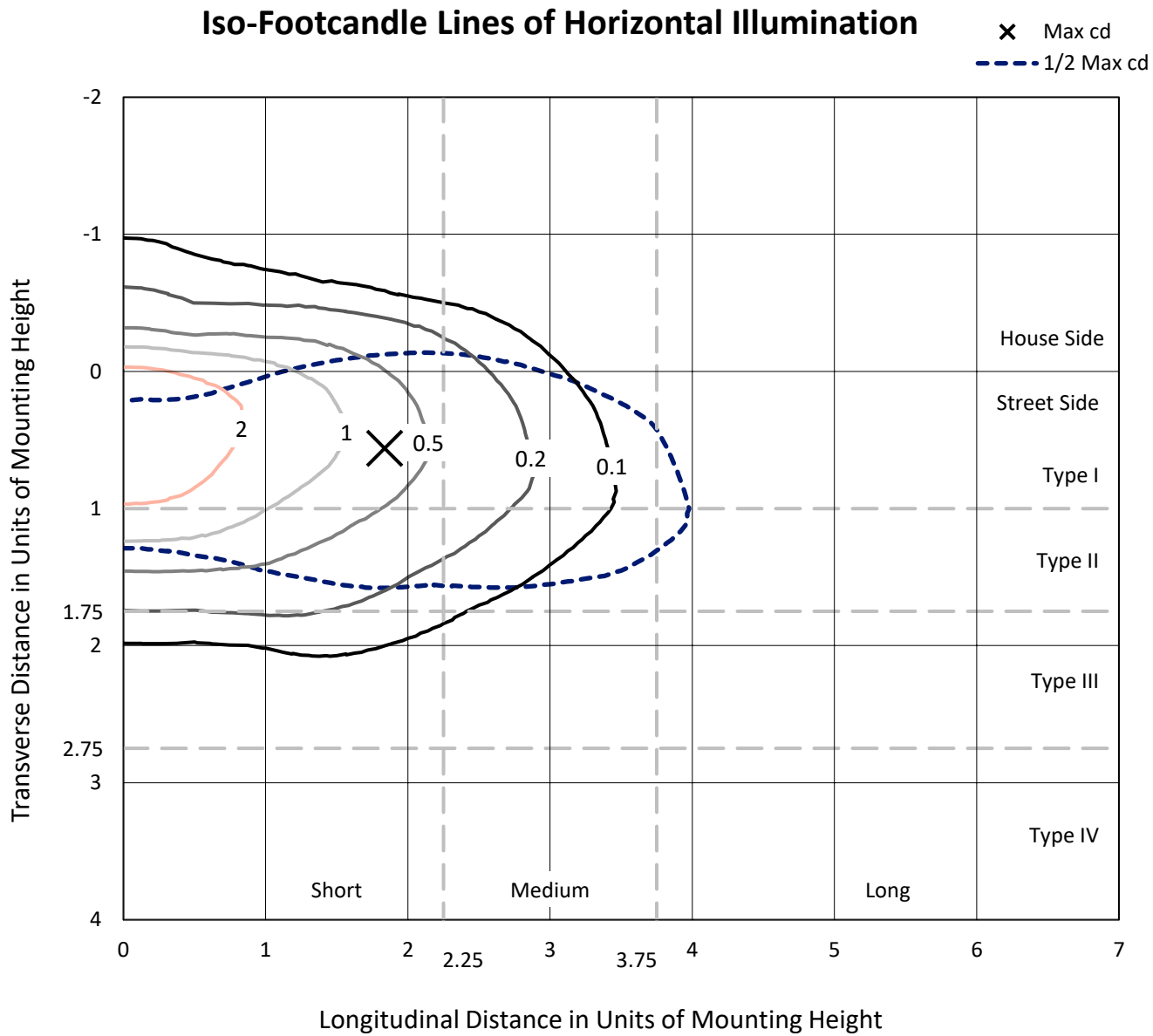
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7408 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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



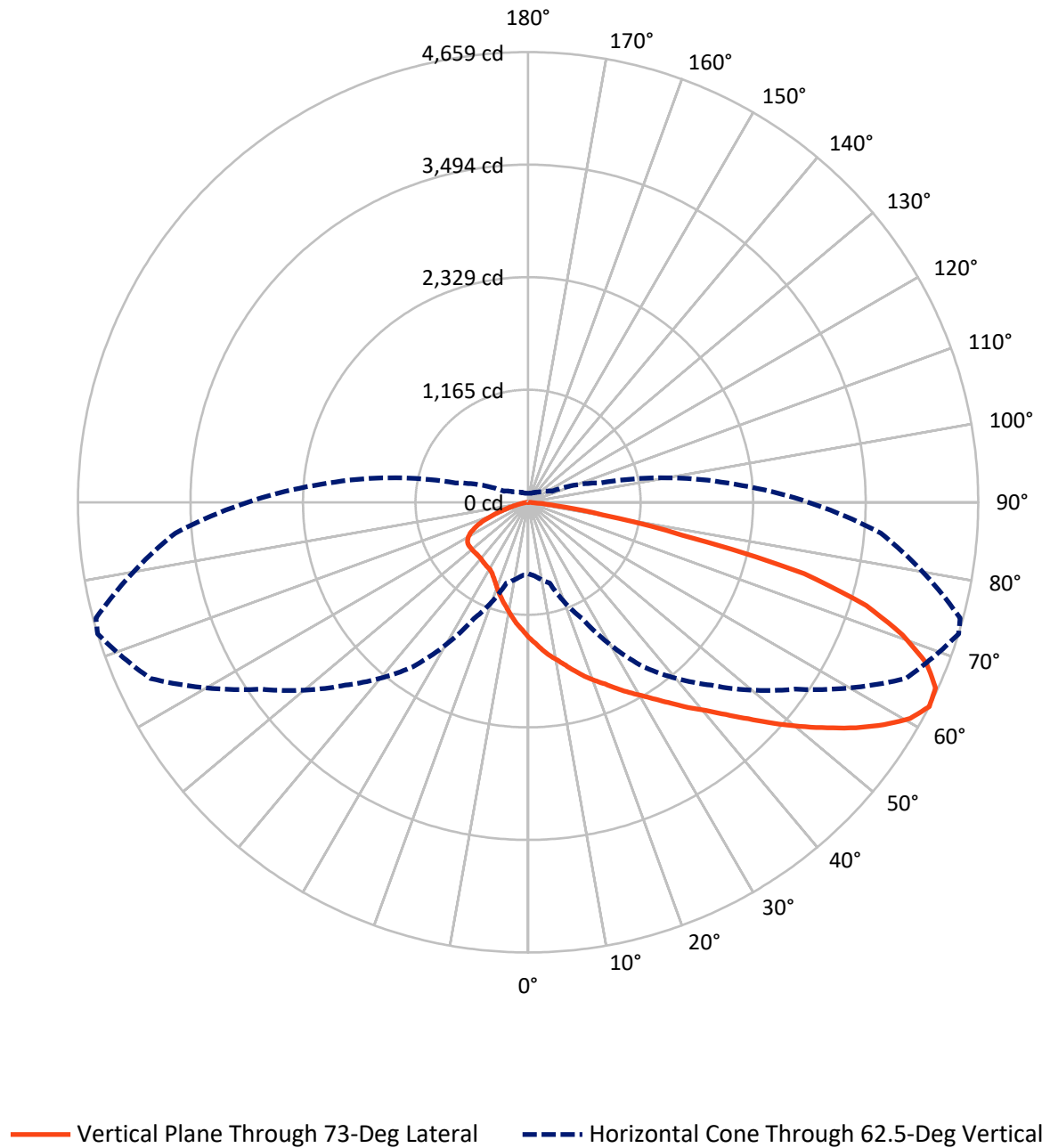
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Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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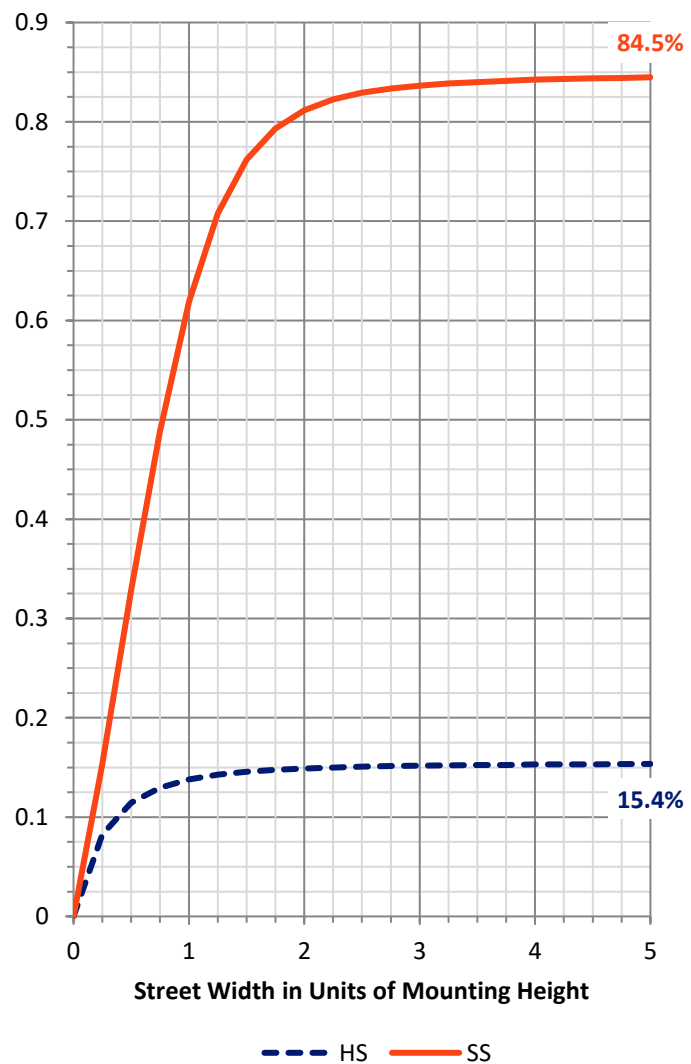
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1148.3	0.0	1148.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6259.6	0.0	6259.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	7408.0	0.0	7408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	1.8
10°-20°	408.9	5.5
20°-30°	680.6	9.2
30°-40°	1027.0	13.9
40°-50°	1435.5	19.4
50°-60°	1585.6	21.4
60°-70°	1381.2	18.6
70°-80°	697.7	9.4
80°-90°	56.0	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°	7408.0	100.0
0°-180°	7408.0	100.0

Coefficient of Utilization



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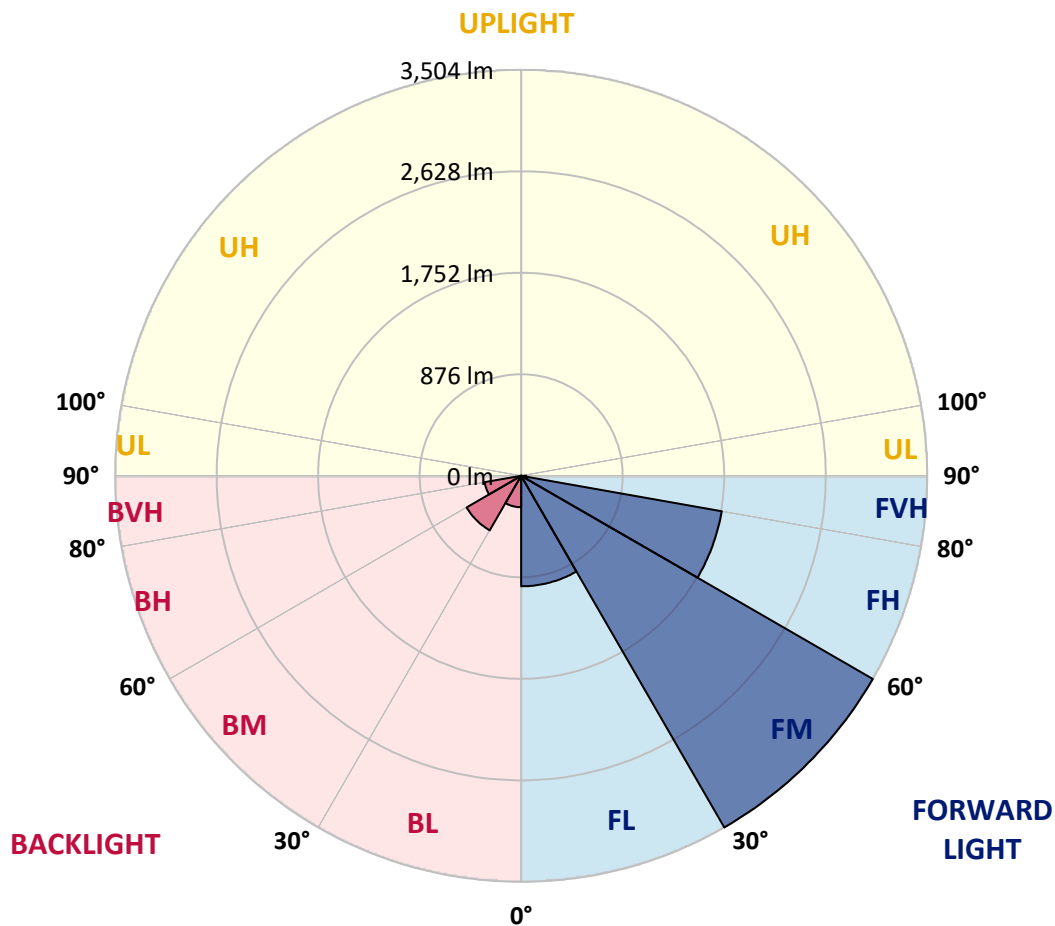
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	953.6	12.9			
FM	(30°-60°)	3504.3	47.3			
FH	(60°-80°)	1758.4	23.7			G1/1800
FVH	(80°-90°)	43.3	0.6			G1/100
BL	(0°-30°)	271.4	3.7	B1/500		
BM	(30°-60°)	543.7	7.3	B1/1000		
BH	(60°-80°)	320.5	4.3	B1/500		G1/500
BVH	(80°-90°)	12.7	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7
2.5°	1596.4	1614.2	1604.5	1610.9	1578.7	1557.7	1533.5	1486.7	1460.8	1457.6	1426.9
5°	1830.5	1849.8	1833.7	1828.9	1772.4	1723.9	1669.1	1586.7	1531.9	1522.2	1454.4
7.5°	2064.5	2082.3	2062.9	2048.4	1972.5	1887.0	1806.3	1685.2	1599.7	1583.5	1477.0
10°	2229.2	2245.3	2230.8	2216.3	2137.2	2050.0	1935.4	1777.2	1661.0	1635.2	1491.5
12.5°	2353.5	2363.2	2356.7	2343.8	2269.5	2175.9	2066.1	1880.5	1730.4	1698.1	1514.1
15°	2455.2	2471.3	2463.2	2453.6	2382.5	2288.9	2184.0	1988.7	1811.1	1770.8	1548.0
17.5°	2523.0	2534.3	2535.9	2535.9	2472.9	2380.9	2279.2	2087.1	1891.8	1840.2	1580.3
20°	2553.6	2566.5	2574.6	2587.5	2535.9	2456.8	2353.5	2171.1	1967.7	1909.6	1610.9
22.5°	2568.2	2579.5	2600.4	2629.5	2587.5	2521.3	2426.1	2248.5	2043.5	1982.2	1646.5
25°	2579.5	2594.0	2624.7	2679.5	2650.5	2594.0	2511.7	2337.3	2133.9	2071.0	1698.1
27.5°	2610.1	2627.9	2656.9	2723.1	2687.6	2660.2	2602.1	2432.6	2229.2	2164.6	1761.1
30°	2716.7	2731.2	2729.6	2771.5	2728.0	2719.9	2679.5	2524.6	2321.2	2256.6	1835.3
32.5°	2910.4	2924.9	2889.4	2873.2	2778.0	2779.6	2763.5	2623.0	2431.0	2364.8	1920.9
35°	3118.6	3134.7	3087.9	3060.5	2900.7	2853.9	2861.9	2745.7	2553.6	2487.4	2027.4
37.5°	3304.2	3323.6	3283.2	3242.9	3081.5	2973.3	2971.7	2882.9	2694.1	2626.3	2145.2
40°	3405.9	3428.5	3452.7	3430.1	3260.6	3141.2	3089.5	3023.4	2832.9	2763.5	2272.8
42.5°	3454.3	3517.3	3560.9	3546.3	3407.5	3286.5	3225.1	3170.2	3002.4	2934.6	2424.5
45°	3318.7	3320.4	3412.4	3491.5	3465.6	3384.9	3373.6	3334.9	3196.1	3131.5	2595.6
47.5°	3149.3	3136.3	3200.9	3341.3	3414.0	3435.0	3501.2	3517.3	3417.2	3352.6	2769.9
50°	2742.5	2750.6	2960.4	3162.2	3304.2	3439.8	3591.5	3704.5	3644.8	3583.5	2953.9
52.5°	2230.8	2250.2	2490.7	2934.6	3158.9	3391.4	3644.8	3891.8	3877.3	3819.1	3138.0
55°	1788.5	1819.2	2074.2	2555.2	2973.3	3283.2	3667.4	4062.9	4117.8	4064.5	3318.7
57.5°	1367.2	1399.5	1614.2	2108.1	2736.0	3107.3	3651.3	4213.0	4342.1	4308.2	3485.0
60°	1029.8	1062.1	1199.3	1709.4	2439.0	2910.4	3570.6	4311.5	4543.9	4508.4	3606.1
62.5°	737.7	763.5	865.2	1330.1	2077.4	2676.3	3372.0	4313.1	4658.5	4629.5	3664.2
65°	531.1	531.1	613.4	949.1	1738.5	2395.4	3071.8	4114.5	4634.3	4626.2	3623.8
67.5°	382.6	385.8	452.0	663.4	1386.6	2054.8	2682.8	3761.0	4447.1	4487.4	3478.6
70°	271.2	279.3	309.9	463.3	1047.6	1622.2	2266.3	3297.8	4109.7	4180.7	3197.7
72.5°	209.8	214.7	235.7	322.8	765.1	1205.8	1806.3	2781.2	3659.3	3740.0	2815.1
75°	161.4	166.3	182.4	237.3	548.8	845.8	1283.3	2158.2	2950.7	3094.4	2261.5
77.5°	117.8	124.3	135.6	172.7	319.6	537.5	778.0	1213.9	1628.7	1696.5	1184.8
80°	54.9	63.0	79.1	111.4	172.7	253.4	276.0	468.1	782.9	818.4	642.4
82.5°	30.7	38.7	45.2	67.8	87.2	90.4	93.6	117.8	295.4	326.1	269.6
85°	14.5	19.4	21.0	29.1	29.1	25.8	30.7	22.6	48.4	58.1	56.5
87.5°	0.0	1.6	3.2	8.1	6.5	4.8	4.8	4.8	4.8	6.5	4.8
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°	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7	1402.7
2.5°	1412.4	1391.4	1343.0	1301.0	1273.6	1249.4	1217.1	1202.6	1176.7	1181.6	1167.1
5°	1420.5	1381.7	1296.2	1217.1	1159.0	1107.3	1050.8	1018.5	983.0	979.8	968.5
7.5°	1425.3	1365.6	1242.9	1131.5	1042.8	963.7	887.8	845.8	802.2	792.6	782.9
10°	1420.5	1341.4	1188.0	1042.8	924.9	826.5	740.9	687.6	642.4	631.1	621.5
12.5°	1425.3	1328.5	1136.4	960.4	820.0	708.6	611.8	556.9	514.9	503.6	497.2
15°	1436.6	1320.4	1092.8	886.2	726.4	602.1	506.9	460.0	426.1	414.8	411.6
17.5°	1446.3	1312.3	1046.0	813.5	632.8	508.5	426.1	387.4	358.3	347.0	343.8
20°	1459.2	1301.0	999.2	744.1	550.4	434.2	361.6	327.7	305.1	297.0	295.4
22.5°	1470.5	1293.0	955.6	674.7	474.6	374.5	313.2	285.7	269.6	261.5	261.5
25°	1499.6	1296.2	918.5	610.2	418.1	327.7	276.0	255.0	242.1	237.3	237.3
27.5°	1533.5	1309.1	889.4	555.3	369.6	292.2	250.2	232.4	226.0	219.5	221.1
30°	1581.9	1334.9	870.0	510.1	334.1	264.7	229.2	216.3	209.8	208.2	208.2
32.5°	1643.2	1376.9	868.4	481.0	308.3	243.7	214.7	203.4	200.2	198.5	198.5
35°	1715.9	1414.0	858.7	468.1	292.2	229.2	203.4	195.3	193.7	193.7	193.7
37.5°	1803.0	1475.4	852.3	450.4	284.1	221.1	195.3	188.9	188.9	188.9	188.9
40°	1893.4	1525.4	842.6	434.2	280.9	216.3	190.5	182.4	182.4	182.4	182.4
42.5°	2001.6	1598.0	839.4	426.1	276.0	213.1	184.0	174.3	175.9	175.9	177.6
45°	2132.3	1680.4	837.8	418.1	274.4	209.8	177.6	166.3	167.9	166.3	166.3
47.5°	2264.7	1775.6	842.6	413.2	272.8	206.6	172.7	158.2	158.2	156.6	156.6
50°	2403.5	1862.8	845.8	408.4	269.6	200.2	164.6	151.7	148.5	145.3	146.9
52.5°	2534.3	1943.5	847.4	400.3	259.9	190.5	158.2	143.7	138.8	134.0	135.6
55°	2665.0	2021.0	850.7	390.6	247.0	180.8	150.1	135.6	129.1	122.7	122.7
57.5°	2782.8	2088.7	842.6	366.4	232.4	171.1	142.0	125.9	116.2	109.8	109.8
60°	2863.6	2137.2	818.4	330.9	213.1	159.8	134.0	116.2	104.9	100.1	100.1
62.5°	2902.3	2145.2	774.8	272.8	188.9	148.5	124.3	106.5	96.9	93.6	93.6
65°	2865.2	2109.7	707.0	205.0	163.0	135.6	114.6	98.5	88.8	80.7	80.7
67.5°	2736.0	2009.7	613.4	155.0	138.8	122.7	104.9	90.4	79.1	72.6	72.6
70°	2476.1	1801.4	474.6	124.3	117.8	106.5	95.2	80.7	71.0	63.0	63.0
72.5°	2135.6	1527.0	334.1	100.1	100.1	90.4	80.7	71.0	61.3	54.9	54.9
75°	1638.4	1129.9	224.4	80.7	82.3	75.9	66.2	58.1	51.7	46.8	46.8
77.5°	894.3	558.5	137.2	59.7	61.3	58.1	51.7	46.8	43.6	38.7	38.7
80°	434.2	245.4	79.1	42.0	43.6	42.0	38.7	33.9	33.9	30.7	30.7
82.5°	182.4	92.0	42.0	29.1	29.1	25.8	24.2	24.2	24.2	22.6	22.6
85°	45.2	17.8	17.8	16.1	16.1	16.1	14.5	14.5	14.5	11.3	12.9
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	4.8	1.6	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)