

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: P799224

Luminaire Tested: **ARCH2-100-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

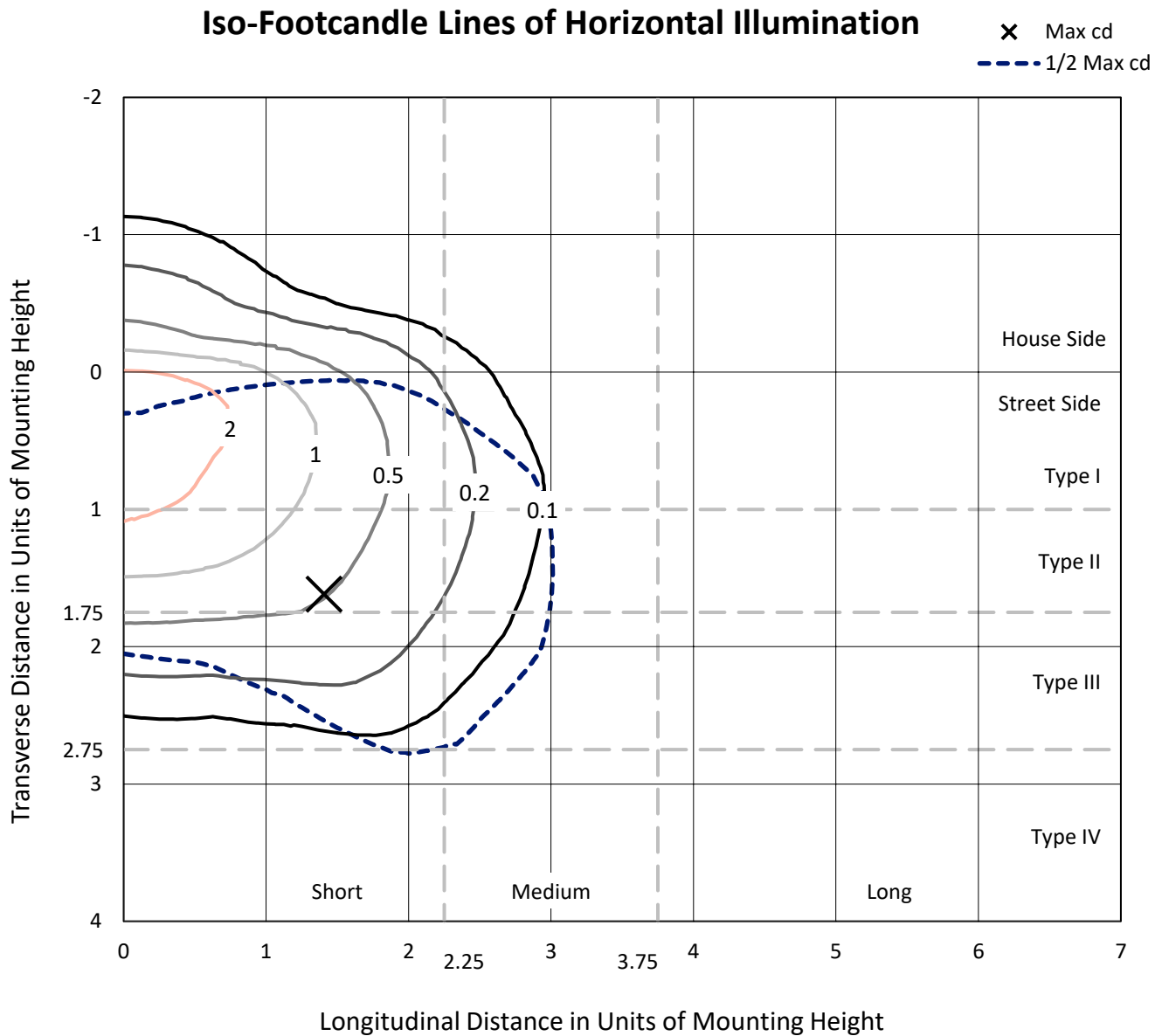
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7655 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - 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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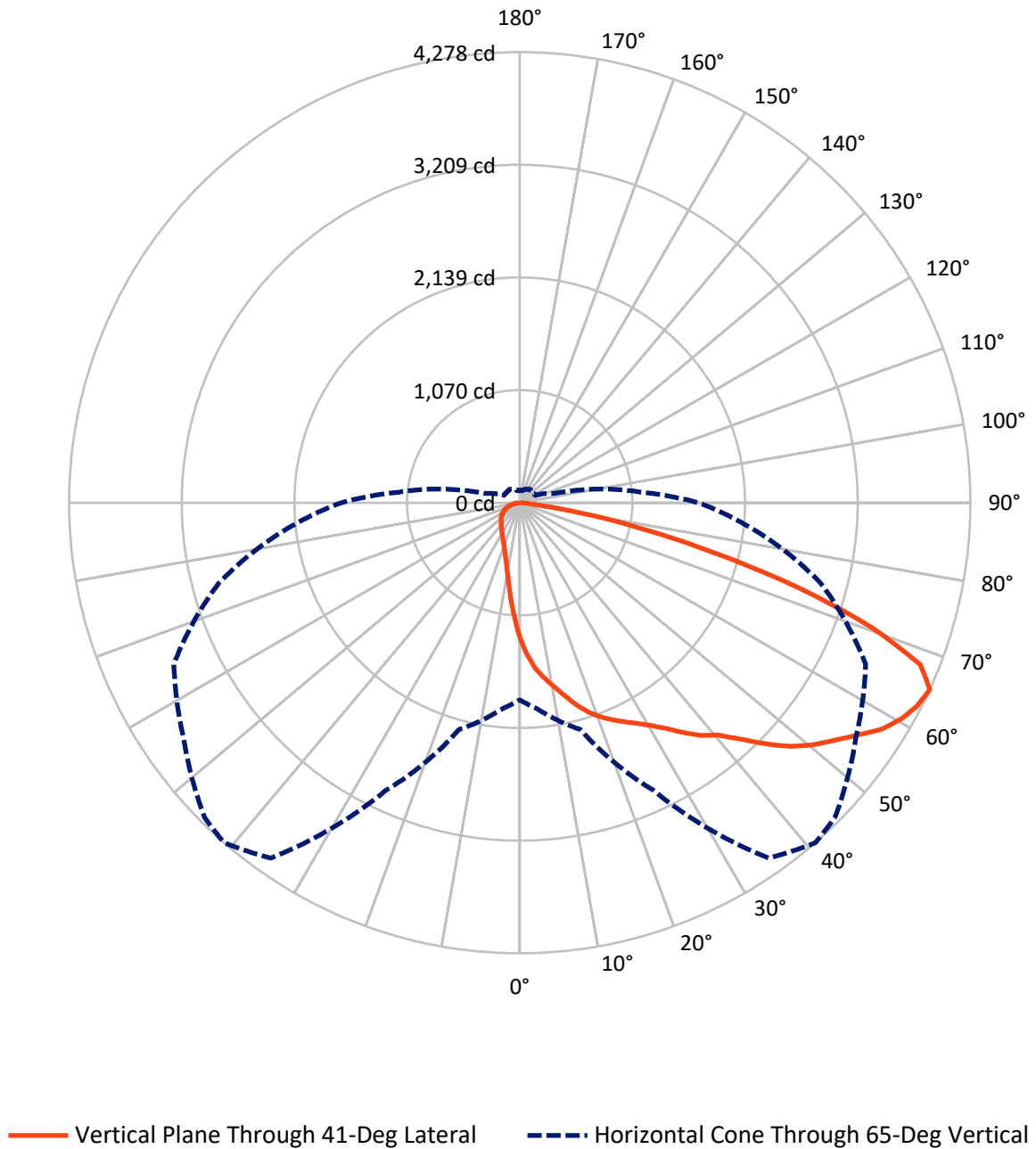


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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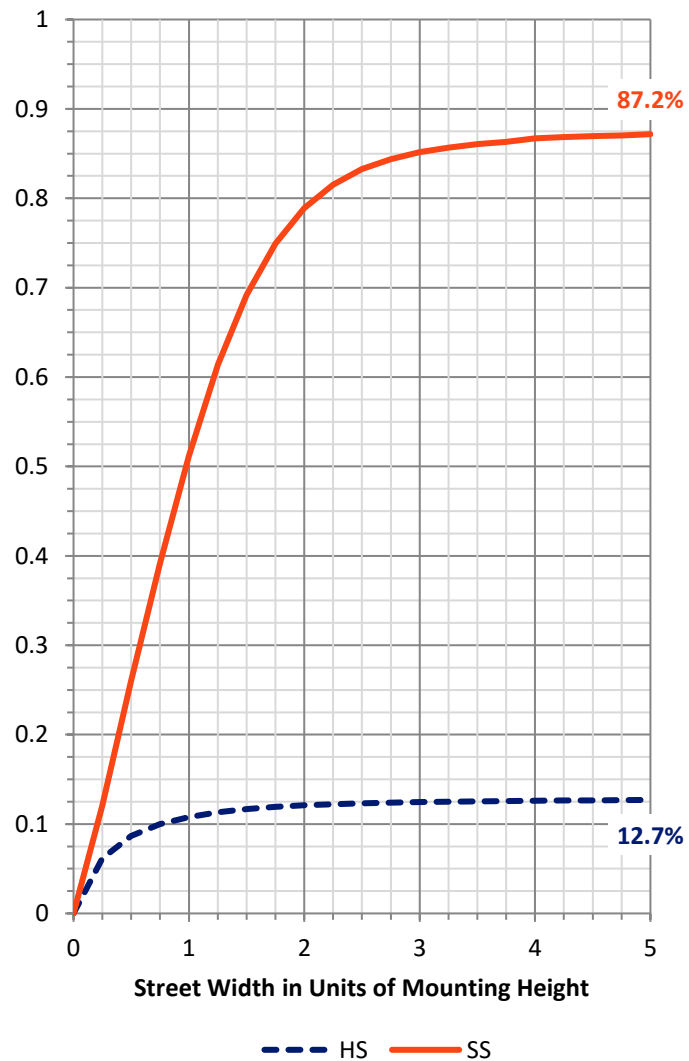
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	982.8	0.0	982.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6672.2	0.0	6672.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	7655.0	0.0	7655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.6
10°-20°	364.4	4.8
20°-30°	626.9	8.2
30°-40°	950.9	12.4
40°-50°	1393.0	18.2
50°-60°	1759.1	23.0
60°-70°	1649.5	21.5
70°-80°	735.2	9.6
80°-90°	54.5	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°	7655.0	100.0
0°-180°	7655.0	100.0

Coefficient of Utilization



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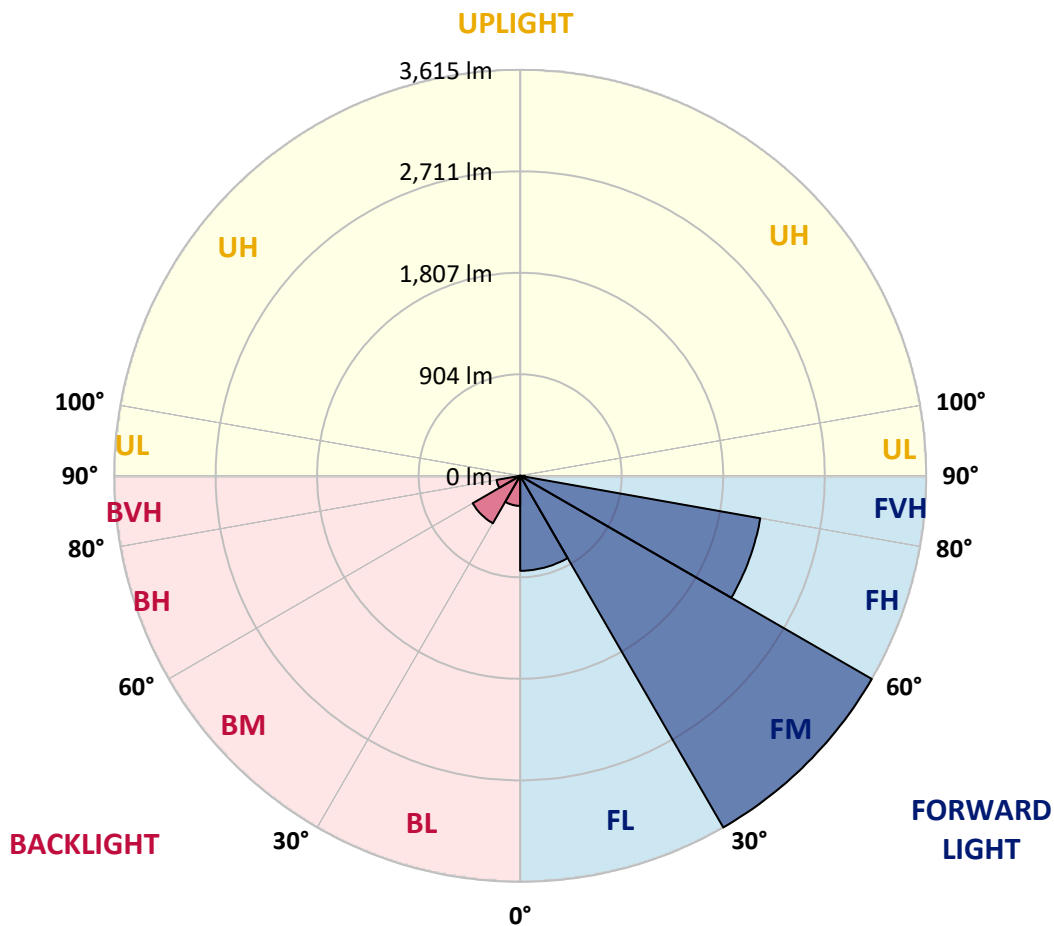
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	845.4	11.0			
FM	(30°-60°)	3615.0	47.2			
FH	(60°-80°)	2171.2	28.4			G2/5000
FVH	(80°-90°)	40.7	0.5			G1/100
BL	(0°-30°)	267.5	3.5	B1/500		
BM	(30°-60°)	488.0	6.4	B1/1000		
BH	(60°-80°)	213.5	2.8	B1/500		G1/500
BVH	(80°-90°)	13.8	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°	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4
2.5°	1504.5	1499.7	1496.5	1478.7	1478.7	1454.5	1456.1	1433.5	1406.1	1362.5	1315.7
5°	1646.6	1640.2	1632.1	1614.3	1607.9	1583.6	1580.4	1548.1	1501.3	1425.4	1341.5
7.5°	1770.9	1764.5	1753.2	1727.3	1709.6	1680.5	1672.4	1630.5	1578.8	1485.2	1367.3
10°	1883.9	1879.1	1864.5	1832.3	1808.0	1772.5	1758.0	1701.5	1636.9	1533.6	1388.3
12.5°	1998.5	1992.1	1972.7	1945.3	1916.2	1874.2	1856.5	1783.8	1701.5	1586.9	1419.0
15°	2105.1	2095.4	2080.9	2051.8	2026.0	1985.6	1966.2	1880.7	1780.6	1646.6	1459.3
17.5°	2174.5	2166.4	2153.5	2137.4	2116.4	2085.7	2066.3	1982.4	1859.7	1704.7	1501.3
20°	2216.5	2213.2	2208.4	2198.7	2189.0	2168.0	2153.5	2074.4	1945.3	1761.2	1541.7
22.5°	2248.8	2245.5	2243.9	2243.9	2245.5	2237.4	2227.8	2160.0	2027.6	1821.0	1578.8
25°	2298.8	2297.2	2294.0	2290.7	2302.0	2303.6	2300.4	2253.6	2130.9	1900.1	1625.6
27.5°	2368.2	2363.4	2356.9	2353.7	2365.0	2373.1	2379.5	2347.2	2240.7	1980.8	1678.9
30°	2474.8	2460.2	2444.1	2432.8	2440.9	2453.8	2468.3	2448.9	2353.7	2080.9	1733.8
32.5°	2600.7	2582.9	2545.8	2524.8	2545.8	2555.5	2566.8	2557.1	2471.5	2189.0	1788.7
35°	2754.0	2733.0	2694.3	2663.6	2700.8	2679.8	2674.9	2665.2	2582.9	2295.6	1850.0
37.5°	3009.1	2978.4	2917.1	2849.3	2849.3	2804.1	2786.3	2757.3	2683.0	2390.8	1909.7
40°	3304.5	3264.2	3185.1	3085.0	2993.0	2899.3	2888.0	2867.0	2800.8	2500.6	1977.5
42.5°	3629.0	3551.5	3441.7	3320.7	3172.1	3065.6	3039.8	2980.0	2915.5	2612.0	2045.3
45°	3989.0	3827.6	3667.7	3606.4	3361.0	3264.2	3215.7	3107.6	3034.9	2728.2	2116.4
47.5°	4047.1	3921.2	3814.6	3805.0	3537.0	3456.3	3401.4	3246.4	3164.1	2852.5	2190.6
50°	4014.8	3938.9	3950.2	3911.5	3666.1	3612.9	3570.9	3394.9	3291.6	2972.0	2258.4
52.5°	3879.2	3921.2	3985.8	3914.7	3788.8	3745.2	3724.2	3554.7	3411.1	3081.7	2319.8
55°	3717.8	3746.8	3885.7	3972.8	3930.9	3892.1	3872.8	3740.4	3528.9	3173.8	2376.3
57.5°	3482.1	3469.2	3622.5	3963.2	4079.4	4056.8	4035.8	3922.8	3638.7	3239.9	2411.8
60°	3128.6	3101.1	3294.8	3769.4	4127.8	4163.3	4153.6	4043.9	3722.6	3238.3	2397.3
62.5°	2516.7	2584.5	2852.5	3453.0	4148.8	4239.2	4221.5	4053.6	3750.1	3144.7	2305.3
65°	1871.0	1967.9	2231.0	3017.2	4119.7	4278.0	4229.5	3895.4	3622.5	2959.1	2103.5
67.5°	1348.0	1433.5	1625.6	2482.8	3840.5	4100.4	4043.9	3637.1	3328.7	2695.9	1824.2
70°	921.8	983.1	1113.9	1808.0	3278.7	3545.1	3509.5	3251.2	2865.4	2382.7	1481.9
72.5°	650.6	676.4	760.3	1193.0	2490.9	2781.5	2739.5	2674.9	2302.0	1980.8	1152.6
75°	487.5	503.7	548.9	771.6	1680.5	1927.5	1888.8	1925.9	1719.3	1499.7	839.4
77.5°	184.0	200.2	311.6	492.4	994.4	1183.3	1144.6	1167.2	955.7	757.1	418.1
80°	50.0	53.3	103.3	234.1	452.0	589.2	536.0	460.1	355.2	348.7	221.2
82.5°	21.0	24.2	46.8	125.9	161.4	161.4	135.6	167.9	135.6	163.0	106.5
85°	8.1	9.7	11.3	32.3	21.0	22.6	24.2	32.3	27.4	33.9	24.2
87.5°	0.0	0.0	0.0	1.6	1.6	3.2	1.6	3.2	4.8	4.8	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°	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4	1304.4
2.5°	1296.3	1278.5	1252.7	1210.7	1167.2	1142.9	1112.3	1107.4	1075.1	1071.9	1059.0
5°	1304.4	1267.2	1201.1	1120.3	1041.2	979.9	934.7	910.5	863.7	863.7	850.7
7.5°	1310.8	1252.7	1146.2	1026.7	918.5	836.2	774.9	749.0	707.1	703.8	694.2
10°	1312.4	1235.0	1086.4	931.5	799.1	715.1	655.4	626.4	589.2	586.0	579.5
12.5°	1325.4	1225.3	1033.2	849.1	713.5	623.1	565.0	540.8	511.7	508.5	502.1
15°	1346.3	1225.3	988.0	779.7	637.7	553.7	503.7	481.1	460.1	456.9	453.6
17.5°	1367.3	1222.0	942.8	715.1	574.7	498.8	455.2	437.5	421.3	419.7	416.5
20°	1386.7	1220.4	897.6	660.3	526.3	453.6	419.7	403.6	390.7	390.7	389.1
22.5°	1406.1	1217.2	854.0	608.6	484.3	419.7	390.7	372.9	363.2	363.2	361.6
25°	1435.1	1217.2	813.6	565.0	450.4	393.9	364.8	351.9	343.9	342.2	342.2
27.5°	1469.0	1226.9	778.1	526.3	421.3	368.1	345.5	332.6	322.9	319.6	321.3
30°	1506.2	1235.0	745.8	492.4	393.9	348.7	324.5	311.6	301.9	298.6	300.3
32.5°	1543.3	1244.6	716.8	461.7	366.5	330.9	306.7	292.2	282.5	280.9	280.9
35°	1583.6	1254.3	687.7	435.9	343.9	313.2	290.6	274.4	268.0	264.7	266.4
37.5°	1624.0	1270.5	660.3	411.7	327.7	297.0	276.0	259.9	255.1	253.4	253.4
40°	1672.4	1294.7	649.0	395.5	313.2	282.5	264.7	248.6	243.8	243.8	243.8
42.5°	1712.8	1314.1	639.3	377.8	301.9	269.6	253.4	240.5	237.3	235.7	237.3
45°	1753.2	1331.8	626.4	361.6	287.3	256.7	243.8	230.8	227.6	227.6	227.6
47.5°	1793.5	1341.5	608.6	345.5	274.4	245.4	234.1	222.8	219.5	219.5	219.5
50°	1825.8	1349.6	582.8	327.7	259.9	235.7	224.4	213.1	209.9	209.9	209.9
52.5°	1858.1	1351.2	555.3	306.7	245.4	224.4	214.7	203.4	200.2	198.6	198.6
55°	1887.1	1349.6	523.0	282.5	229.2	211.5	203.4	193.7	187.3	180.8	184.0
57.5°	1908.1	1348.0	485.9	258.3	213.1	198.6	195.3	182.4	169.5	153.4	156.6
60°	1900.1	1330.2	445.6	227.6	195.3	185.6	185.6	167.9	145.3	137.2	138.8
62.5°	1848.4	1280.2	403.6	195.3	177.6	172.7	171.1	151.7	134.0	125.9	127.5
65°	1693.4	1154.2	342.2	166.3	159.8	158.2	158.2	140.4	124.3	114.6	116.2
67.5°	1457.7	968.6	279.3	140.4	142.1	145.3	145.3	129.1	113.0	103.3	104.9
70°	1168.8	757.1	222.8	121.1	122.7	127.5	130.8	116.2	101.7	92.0	92.0
72.5°	879.8	574.7	179.2	101.7	109.8	109.8	114.6	103.3	88.8	79.1	80.7
75°	637.7	411.7	142.1	85.6	95.2	93.6	93.6	87.2	75.9	69.4	69.4
77.5°	301.9	216.3	113.0	61.3	74.3	72.6	74.3	69.4	64.6	58.1	59.7
80°	148.5	106.5	72.6	43.6	51.7	53.3	58.1	54.9	53.3	48.4	48.4
82.5°	71.0	42.0	33.9	30.7	35.5	37.1	40.4	40.4	42.0	38.7	38.7
85°	19.4	11.3	14.5	19.4	22.6	24.2	27.4	29.1	29.1	27.4	29.1
87.5°	4.8	4.8	6.5	9.7	11.3	12.9	14.5	14.5	6.5	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)