

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: P842659

Luminaire Tested: **ARCH4-80-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8832 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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

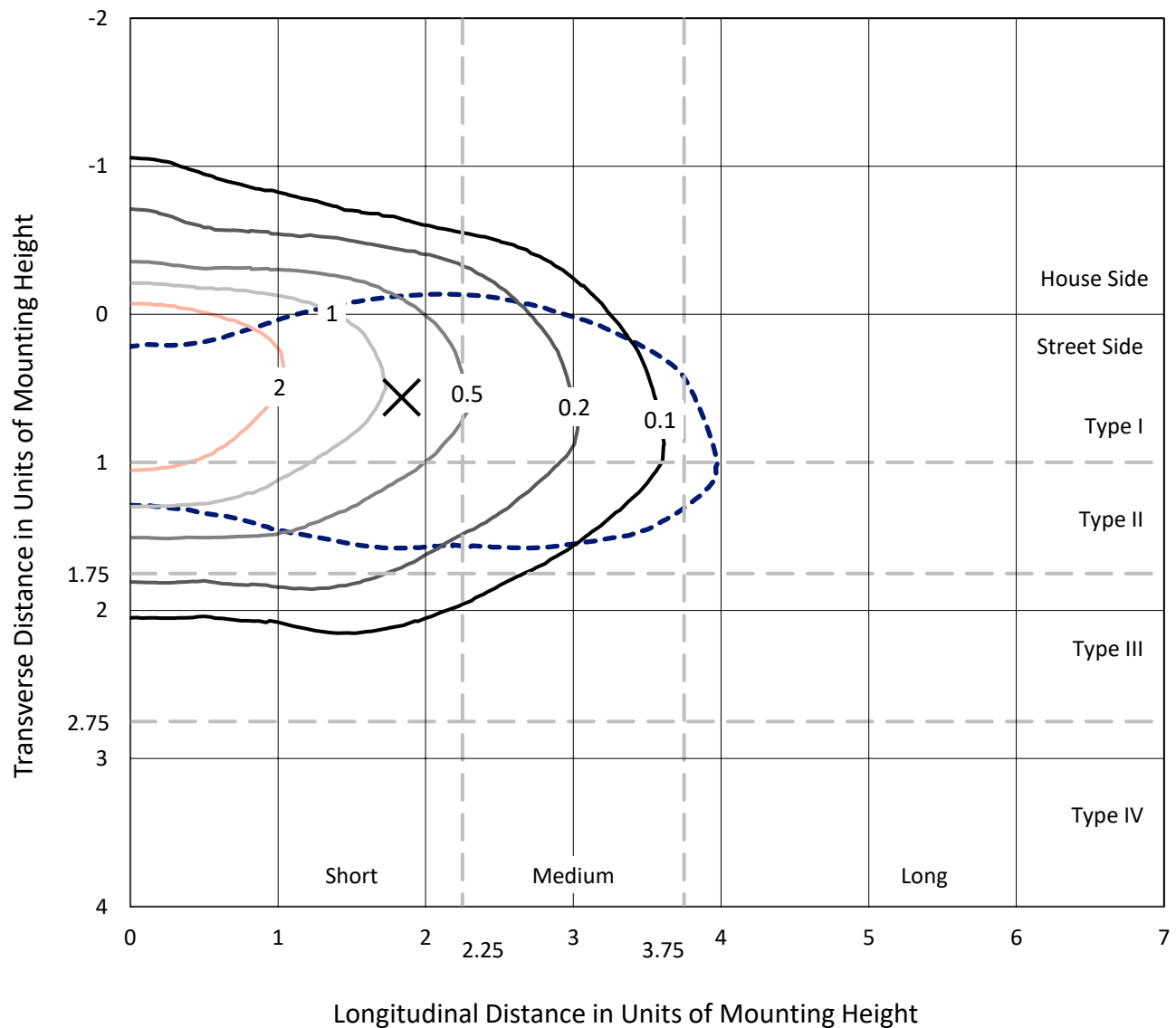


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Iso-Footcandle Lines of Horizontal Illumination

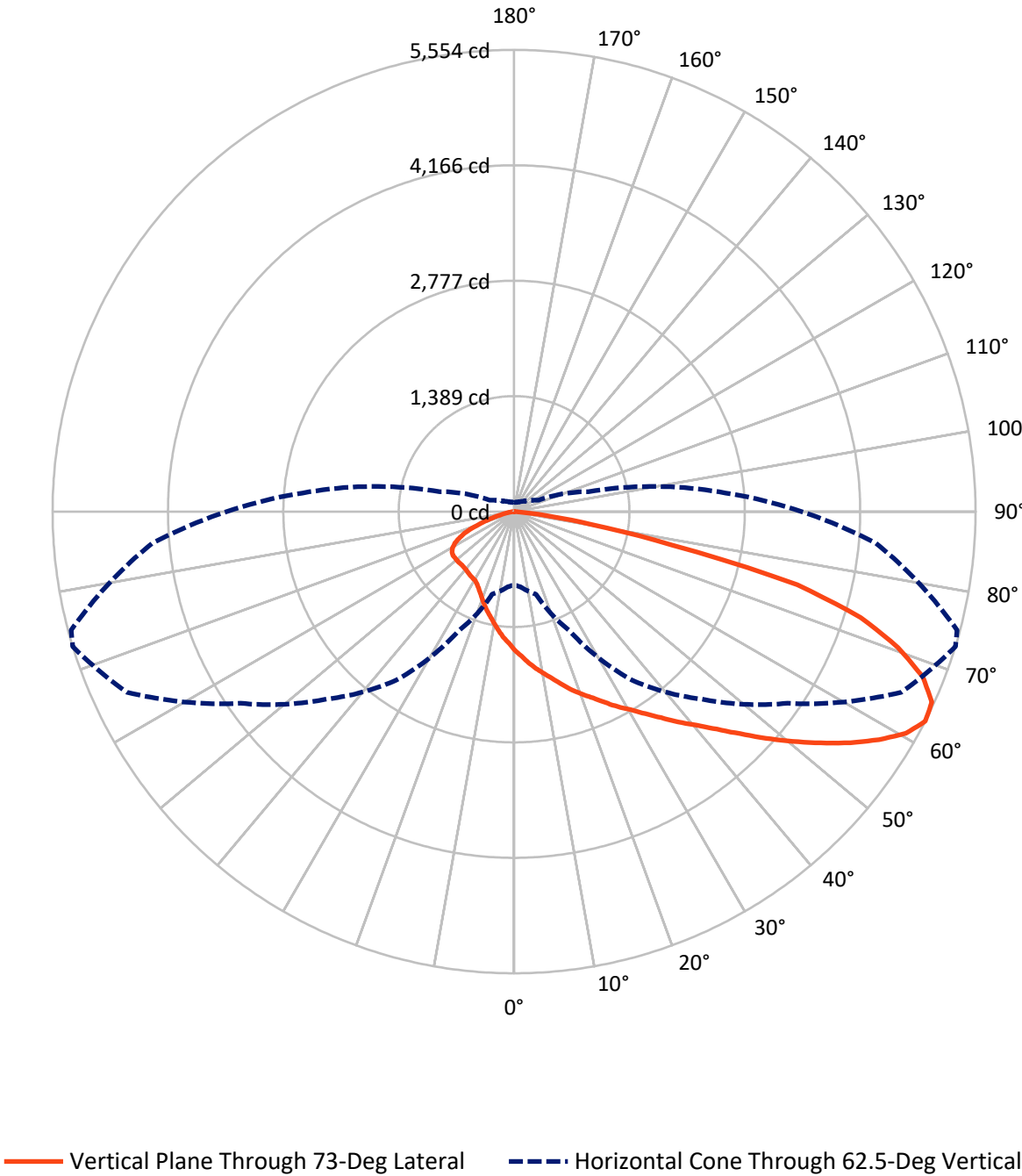
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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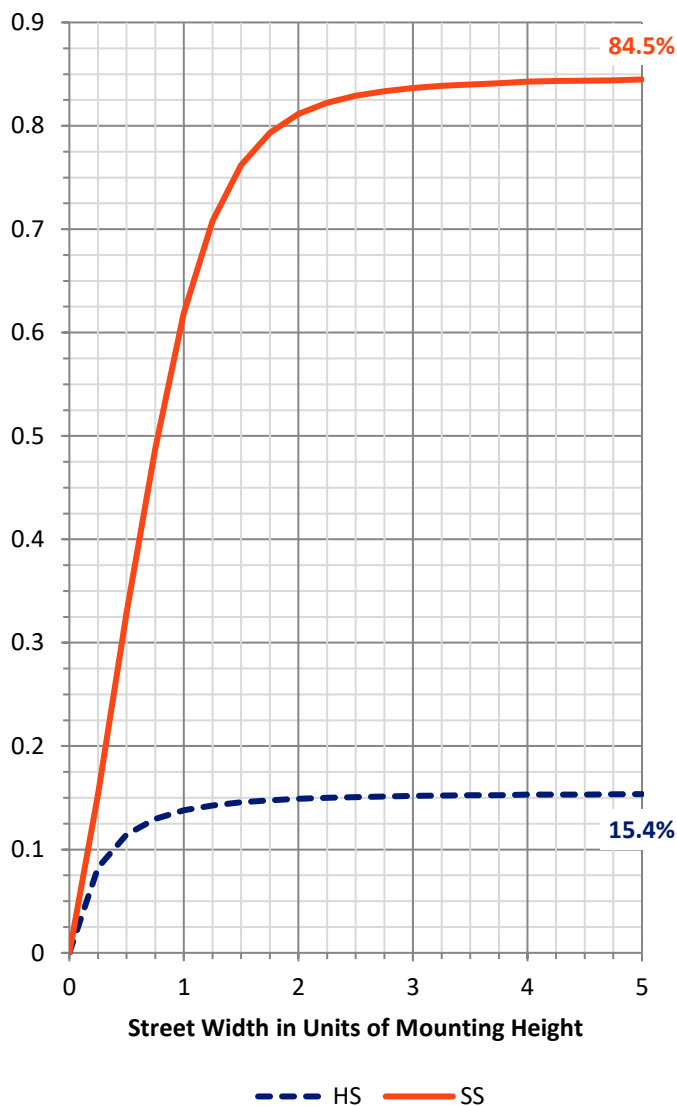
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1369.1	0.0	1369.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7462.9	0.0	7462.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	8832.0	0.0	8832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	1.8
10°-20°	487.5	5.5
20°-30°	811.5	9.2
30°-40°	1224.4	13.9
40°-50°	1711.4	19.4
50°-60°	1890.3	21.4
60°-70°	1646.7	18.6
70°-80°	831.8	9.4
80°-90°	66.8	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°	8832.0	100.0
0°-180°	8832.0	100.0

Coefficient of Utilization



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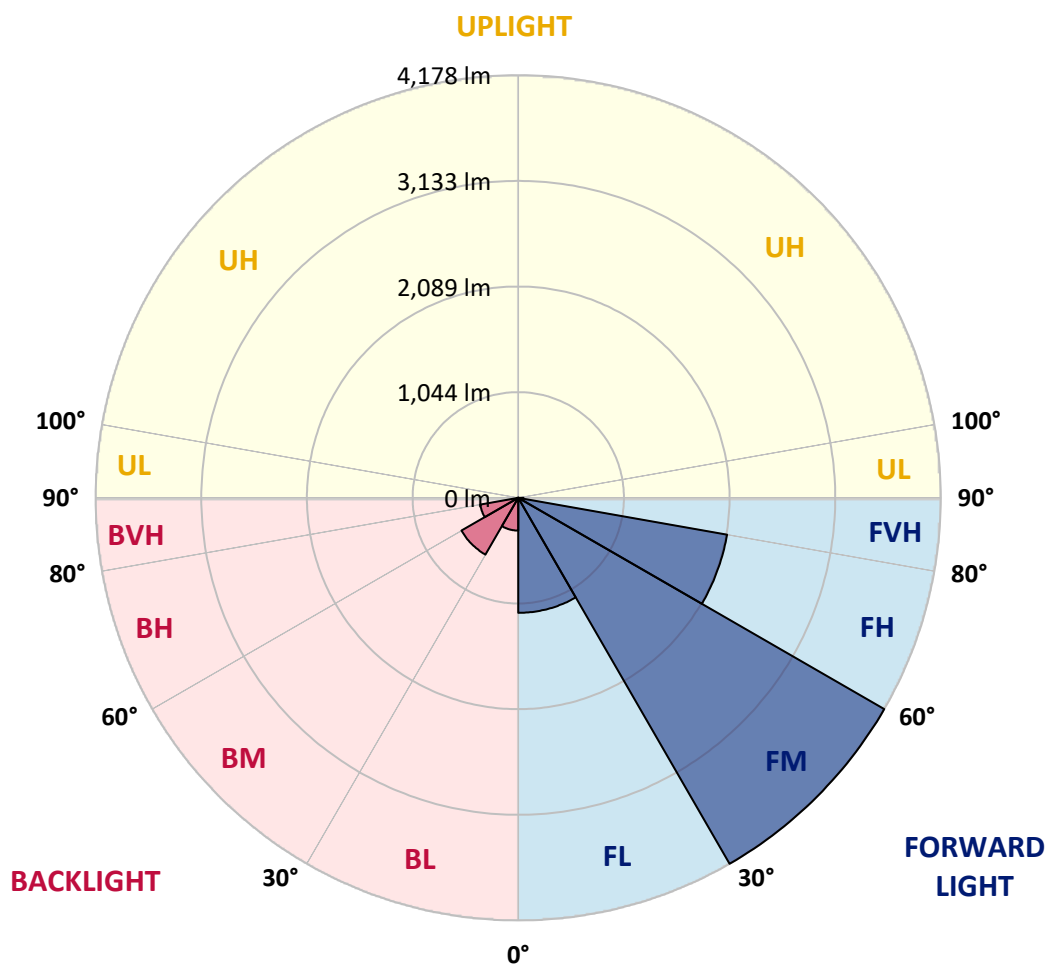
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.9	12.9			
FM	(30°-60°)	4177.9	47.3			
FH	(60°-80°)	2096.4	23.7			G2/5000
FVH	(80°-90°)	51.7	0.6			G1/100
BL	(0°-30°)	323.6	3.7	B1/500		
BM	(30°-60°)	648.3	7.3	B1/1000		
BH	(60°-80°)	382.1	4.3	B1/500		G1/500
BVH	(80°-90°)	15.1	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°	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4
2.5°	1903.3	1924.5	1912.9	1920.6	1882.1	1857.1	1828.2	1772.4	1741.6	1737.8	1701.2
5°	2182.3	2205.4	2186.2	2180.4	2113.1	2055.3	1989.9	1891.7	1826.3	1814.8	1733.9
7.5°	2461.4	2482.6	2459.5	2442.1	2351.7	2249.7	2153.5	2009.1	1907.1	1887.9	1760.9
10°	2657.7	2676.9	2659.6	2642.3	2548.0	2444.1	2307.4	2118.8	1980.3	1949.5	1778.2
12.5°	2805.9	2817.4	2809.7	2794.3	2705.8	2594.2	2463.3	2242.0	2063.0	2024.5	1805.1
15°	2927.1	2946.4	2936.7	2925.2	2840.5	2728.9	2603.8	2370.9	2159.2	2111.1	1845.6
17.5°	3007.9	3021.4	3023.3	3023.3	2948.3	2838.6	2717.3	2488.3	2255.5	2193.9	1884.0
20°	3044.5	3059.9	3069.5	3084.9	3023.3	2929.0	2805.9	2588.4	2345.9	2276.6	1920.6
22.5°	3061.8	3075.3	3100.3	3134.9	3084.9	3006.0	2892.5	2680.8	2436.4	2363.2	1963.0
25°	3075.3	3092.6	3129.2	3194.6	3160.0	3092.6	2994.5	2786.6	2544.1	2469.1	2024.5
27.5°	3111.9	3133.0	3167.7	3246.6	3204.2	3171.5	3102.2	2900.2	2657.7	2580.7	2099.6
30°	3238.9	3256.2	3254.3	3304.3	3252.3	3242.7	3194.6	3009.9	2767.4	2690.4	2188.1
32.5°	3469.8	3487.1	3444.8	3425.5	3312.0	3313.9	3294.7	3127.3	2898.2	2819.3	2290.1
35°	3718.1	3737.3	3681.5	3648.8	3458.3	3402.4	3412.1	3273.5	3044.5	2965.6	2417.1
37.5°	3939.4	3962.5	3914.4	3866.2	3673.8	3544.9	3542.9	3437.1	3211.9	3131.1	2557.6
40°	4060.6	4087.6	4116.4	4089.5	3887.4	3745.0	3683.4	3604.5	3377.4	3294.7	2709.6
42.5°	4118.3	4193.4	4245.4	4228.0	4062.5	3918.2	3845.1	3779.6	3579.5	3498.7	2890.5
45°	3956.7	3958.6	4068.3	4162.6	4131.8	4035.6	4022.1	3975.9	3810.4	3733.5	3094.5
47.5°	3754.6	3739.2	3816.2	3983.6	4070.2	4095.3	4174.2	4193.4	4074.1	3997.1	3302.4
50°	3269.7	3279.3	3529.5	3770.0	3939.4	4101.0	4281.9	4416.6	4345.4	4272.3	3521.8
52.5°	2659.6	2682.7	2969.4	3498.7	3766.2	4043.3	4345.4	4639.9	4622.6	4553.3	3741.2
55°	2132.3	2168.9	2472.9	3046.4	3544.9	3914.4	4372.4	4843.9	4909.3	4845.8	3956.7
57.5°	1630.0	1668.5	1924.5	2513.3	3262.0	3704.6	4353.1	5022.8	5176.8	5136.4	4154.9
60°	1227.8	1266.3	1429.9	2038.0	2907.9	3469.8	4256.9	5140.2	5417.4	5375.0	4299.2
62.5°	879.5	910.3	1031.5	1585.8	2476.8	3190.8	4020.2	5142.2	5554.0	5519.4	4368.5
65°	633.1	633.1	731.3	1131.6	2072.6	2855.9	3662.3	4905.5	5525.1	5515.5	4320.4
67.5°	456.1	459.9	538.8	791.0	1653.1	2449.8	3198.5	4484.0	5301.9	5350.0	4147.2
70°	323.3	332.9	369.5	552.3	1249.0	1934.1	2701.9	3931.7	4899.7	4984.4	3812.4
72.5°	250.2	256.0	281.0	384.9	912.2	1437.6	2153.5	3315.8	4362.8	4459.0	3356.3
75°	192.4	198.2	217.5	282.9	654.3	1008.4	1529.9	2573.0	3517.9	3689.2	2696.2
77.5°	140.5	148.2	161.7	205.9	381.0	640.8	927.6	1447.2	1941.8	2022.6	1412.6
80°	65.4	75.1	94.3	132.8	205.9	302.1	329.1	558.1	933.4	975.7	765.9
82.5°	36.6	46.2	53.9	80.8	103.9	107.8	111.6	140.5	352.2	388.7	321.4
85°	17.3	23.1	25.0	34.6	34.6	30.8	36.6	26.9	57.7	69.3	67.4
87.5°	0.0	1.9	3.8	9.6	7.7	5.8	5.8	5.8	5.8	7.7	5.8
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°	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4	1672.4
2.5°	1683.9	1658.9	1601.2	1551.1	1518.4	1489.5	1451.0	1433.7	1402.9	1408.7	1391.4
5°	1693.5	1647.3	1545.3	1451.0	1381.8	1320.2	1252.8	1214.3	1172.0	1168.1	1154.7
7.5°	1699.3	1628.1	1481.8	1349.0	1243.2	1148.9	1058.5	1008.4	956.5	944.9	933.4
10°	1693.5	1599.2	1416.4	1243.2	1102.7	985.3	883.3	819.8	765.9	752.5	740.9
12.5°	1699.3	1583.8	1354.8	1145.1	977.6	844.8	729.4	663.9	613.9	600.4	592.7
15°	1712.8	1574.2	1302.9	1056.5	866.0	717.8	604.3	548.5	508.1	494.6	490.7
17.5°	1724.3	1564.6	1247.1	969.9	754.4	606.2	508.1	461.9	427.2	413.8	409.9
20°	1739.7	1551.1	1191.2	887.2	656.2	517.7	431.1	390.7	363.7	354.1	352.2
22.5°	1753.2	1541.5	1139.3	804.4	565.8	446.5	373.3	340.6	321.4	311.8	311.8
25°	1787.8	1545.3	1095.0	727.4	498.4	390.7	329.1	304.1	288.7	282.9	282.9
27.5°	1828.2	1560.7	1060.4	662.0	440.7	348.3	298.3	277.1	269.4	261.7	263.7
30°	1886.0	1591.5	1037.3	608.1	398.4	315.6	273.3	257.9	250.2	248.3	248.3
32.5°	1959.1	1641.6	1035.4	573.5	367.6	290.6	256.0	242.5	238.6	236.7	236.7
35°	2045.7	1685.8	1023.8	558.1	348.3	273.3	242.5	232.9	230.9	230.9	230.9
37.5°	2149.6	1759.0	1016.1	536.9	338.7	263.7	232.9	225.2	225.2	225.2	225.2
40°	2257.4	1818.6	1004.6	517.7	334.9	257.9	227.1	217.5	217.5	217.5	217.5
42.5°	2386.3	1905.2	1000.7	508.1	329.1	254.0	219.4	207.8	209.8	209.8	211.7
45°	2542.2	2003.4	998.8	498.4	327.2	250.2	211.7	198.2	200.1	198.2	198.2
47.5°	2700.0	2116.9	1004.6	492.7	325.2	246.3	205.9	188.6	188.6	186.7	186.7
50°	2865.5	2220.8	1008.4	486.9	321.4	238.6	196.3	180.9	177.1	173.2	175.1
52.5°	3021.4	2317.1	1010.3	477.3	309.8	227.1	188.6	171.3	165.5	159.7	161.7
55°	3177.3	2409.4	1014.2	465.7	294.4	215.5	179.0	161.7	154.0	146.3	146.3
57.5°	3317.8	2490.3	1004.6	436.9	277.1	204.0	169.4	150.1	138.6	130.9	130.9
60°	3414.0	2548.0	975.7	394.5	254.0	190.5	159.7	138.6	125.1	119.3	119.3
62.5°	3460.2	2557.6	923.7	325.2	225.2	177.1	148.2	127.0	115.5	111.6	111.6
65°	3415.9	2515.3	842.9	244.4	194.4	161.7	136.6	117.4	105.8	96.2	96.2
67.5°	3262.0	2396.0	731.3	184.7	165.5	146.3	125.1	107.8	94.3	86.6	86.6
70°	2952.1	2147.7	565.8	148.2	140.5	127.0	113.5	96.2	84.7	75.1	75.1
72.5°	2546.1	1820.5	398.4	119.3	119.3	107.8	96.2	84.7	73.1	65.4	65.4
75°	1953.3	1347.1	267.5	96.2	98.1	90.4	78.9	69.3	61.6	55.8	55.8
77.5°	1066.2	665.9	163.6	71.2	73.1	69.3	61.6	55.8	52.0	46.2	46.2
80°	517.7	292.5	94.3	50.0	52.0	50.0	46.2	40.4	40.4	36.6	36.6
82.5°	217.5	109.7	50.0	34.6	34.6	30.8	28.9	28.9	28.9	26.9	26.9
85°	53.9	21.2	21.2	19.2	19.2	19.2	17.3	17.3	17.3	13.5	15.4
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	5.8	1.9	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)