

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: P840935

Luminaire Tested: **ARCH4-110-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11544 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 112.6
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



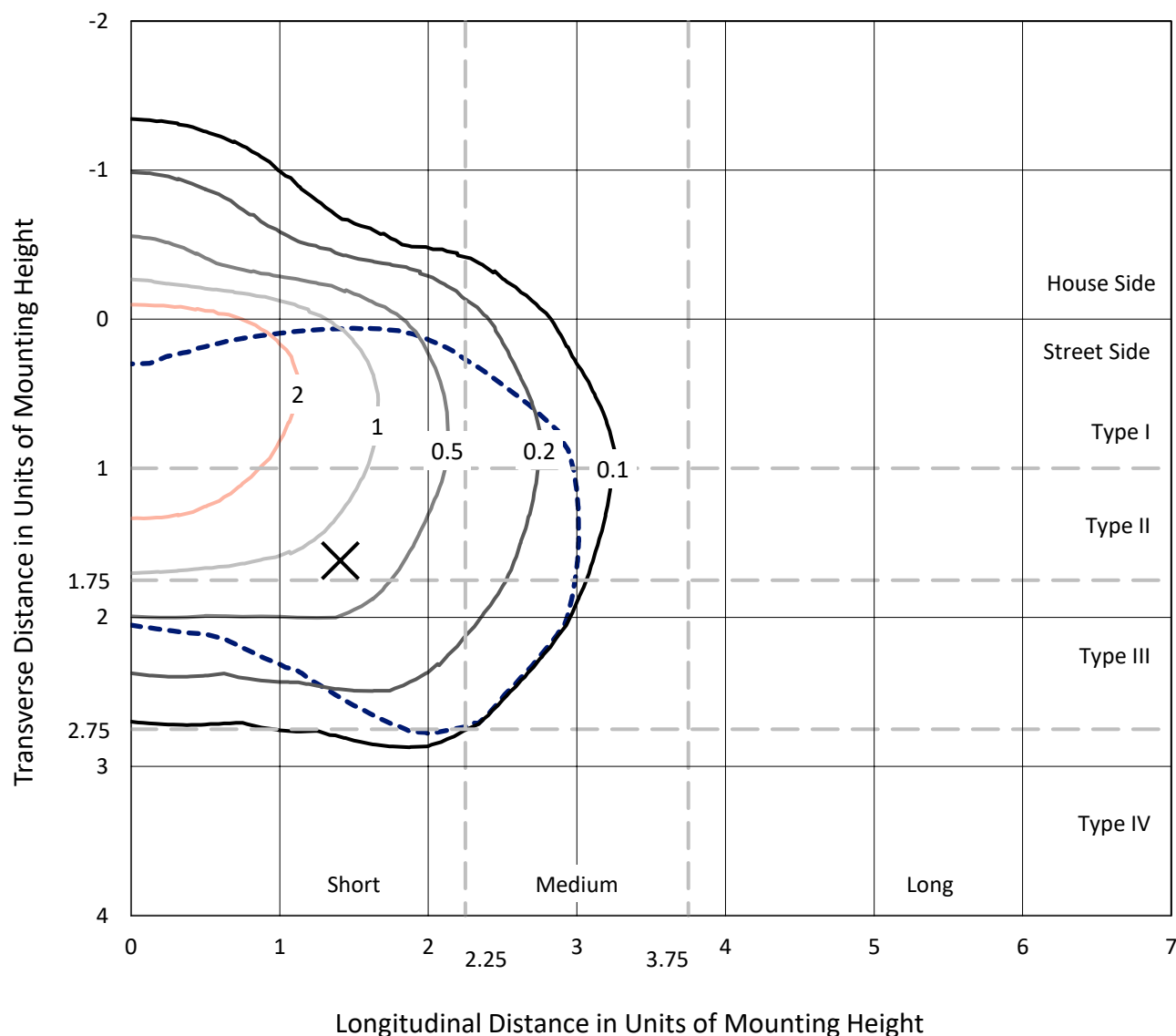
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

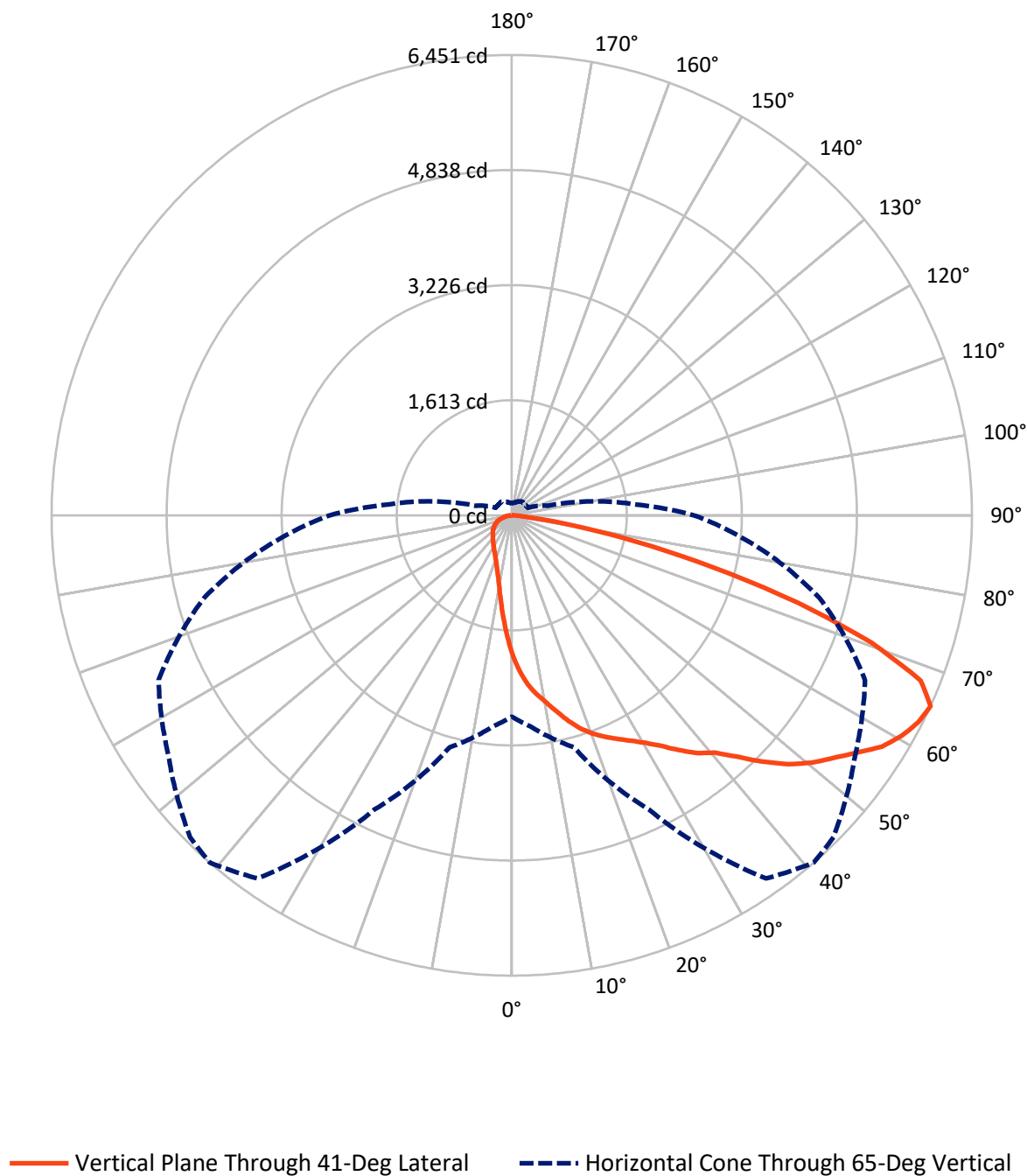


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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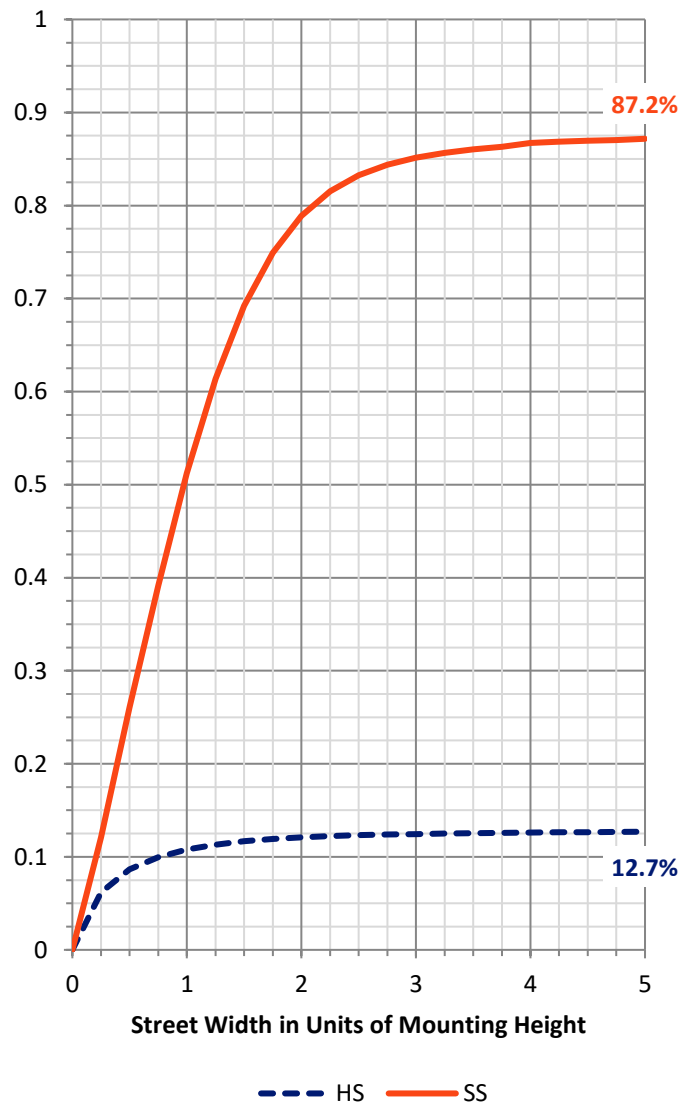
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1482.1	0.0	1482.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10061.9	0.0	10061.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	11544.0	0.0	11544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	1.6
10°-20°	549.6	4.8
20°-30°	945.5	8.2
30°-40°	1433.9	12.4
40°-50°	2100.7	18.2
50°-60°	2652.8	23.0
60°-70°	2487.5	21.5
70°-80°	1108.7	9.6
80°-90°	82.1	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°	11544.0	100.0
0°-180°	11544.0	100.0

Coefficient of Utilization



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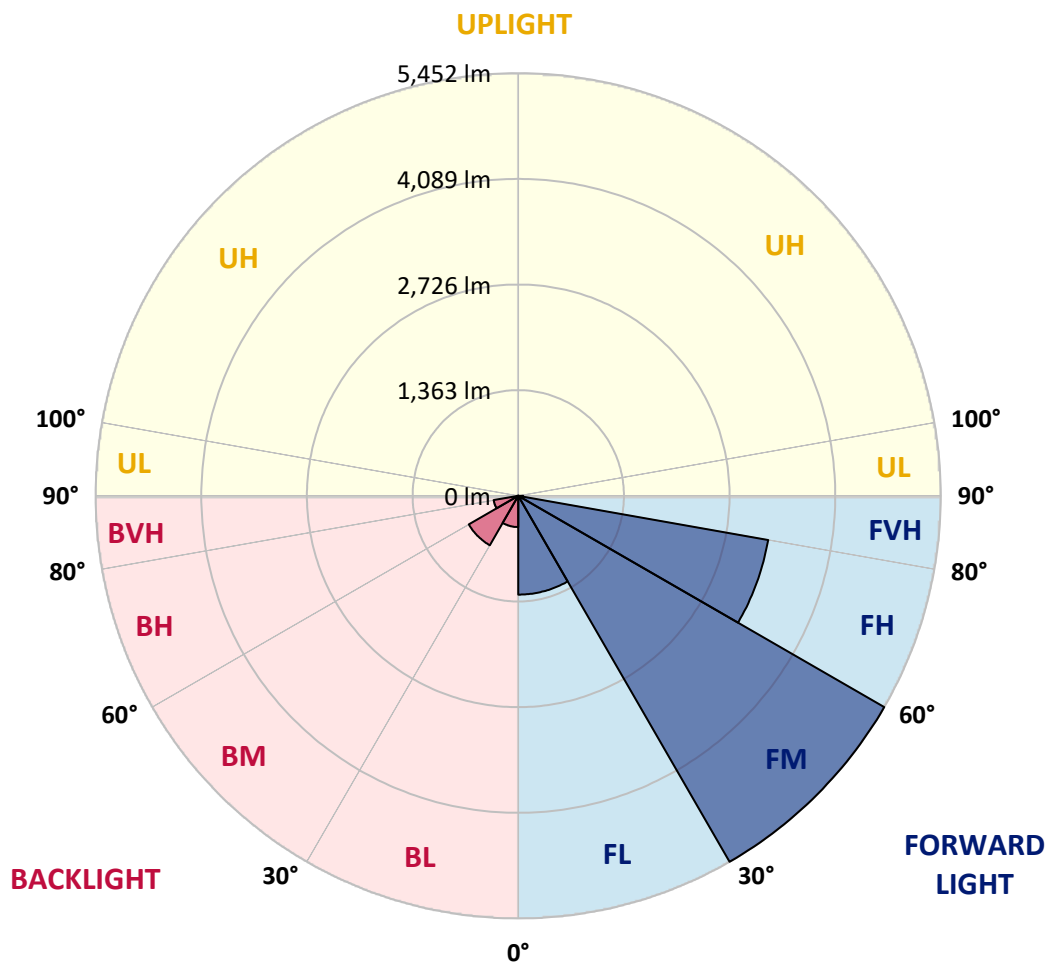
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1274.9	11.0			
FM	(30°-60°)	5451.5	47.2			
FH	(60°-80°)	3274.2	28.4			G2/5000
FVH	(80°-90°)	61.3	0.5			G1/100
BL	(0°-30°)	403.4	3.5	B1/500		
BM	(30°-60°)	735.9	6.4	B1/1000		
BH	(60°-80°)	322.0	2.8	B1/500		G1/500
BVH	(80°-90°)	20.8	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°	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0
2.5°	2268.9	2261.6	2256.7	2230.0	2230.0	2193.4	2195.9	2161.8	2120.4	2054.7	1984.1
5°	2483.1	2473.4	2461.2	2434.5	2424.7	2388.2	2383.3	2334.6	2264.0	2149.6	2023.0
7.5°	2670.6	2660.9	2643.8	2604.9	2578.1	2534.3	2522.1	2458.8	2380.9	2239.7	2062.0
10°	2841.0	2833.7	2811.8	2763.1	2726.6	2673.0	2651.1	2565.9	2468.5	2312.7	2093.6
12.5°	3013.9	3004.1	2974.9	2933.5	2889.7	2826.4	2799.6	2690.1	2565.9	2393.1	2139.9
15°	3174.5	3159.9	3138.0	3094.2	3055.2	2994.4	2965.2	2836.1	2685.2	2483.1	2200.7
17.5°	3279.2	3267.0	3247.6	3223.2	3191.6	3145.3	3116.1	2989.5	2804.5	2570.8	2264.0
20°	3342.5	3337.6	3330.3	3315.7	3301.1	3269.5	3247.6	3128.3	2933.5	2656.0	2324.9
22.5°	3391.2	3386.3	3383.9	3383.9	3386.3	3374.2	3359.5	3257.3	3057.7	2746.1	2380.9
25°	3466.7	3464.2	3459.4	3454.5	3471.5	3474.0	3469.1	3398.5	3213.5	2865.4	2451.5
27.5°	3571.3	3564.0	3554.3	3549.4	3566.5	3578.6	3588.4	3539.7	3379.0	2987.1	2531.8
30°	3732.0	3710.1	3685.8	3668.7	3680.9	3700.4	3722.3	3693.1	3549.4	3138.0	2614.6
32.5°	3921.9	3895.1	3839.1	3807.5	3839.1	3853.7	3870.8	3856.2	3727.1	3301.1	2697.4
35°	4153.2	4121.5	4063.1	4016.8	4072.8	4041.2	4033.9	4019.3	3895.1	3461.8	2789.9
37.5°	4537.8	4491.6	4399.1	4296.8	4296.8	4228.6	4201.9	4158.0	4046.1	3605.4	2880.0
40°	4983.3	4922.5	4803.2	4652.2	4513.5	4372.3	4355.2	4323.6	4223.8	3771.0	2982.2
42.5°	5472.6	5355.8	5190.3	5007.7	4783.7	4623.0	4584.1	4494.0	4396.6	3938.9	3084.5
45°	6015.5	5772.1	5531.1	5438.6	5068.5	4922.5	4849.4	4686.3	4576.8	4114.2	3191.6
47.5°	6103.2	5913.3	5752.6	5738.0	5333.9	5212.2	5129.4	4895.7	4771.5	4301.7	3303.6
50°	6054.5	5940.1	5957.1	5898.7	5528.6	5448.3	5385.0	5119.7	4963.8	4481.8	3405.8
52.5°	5850.0	5913.3	6010.7	5903.5	5713.7	5647.9	5616.3	5360.7	5144.0	4647.4	3498.3
55°	5606.5	5650.4	5859.7	5991.2	5927.9	5869.5	5840.3	5640.6	5321.7	4786.1	3583.5
57.5°	5251.1	5231.6	5462.9	5976.6	6151.9	6117.8	6086.1	5915.7	5487.3	4885.9	3637.1
60°	4718.0	4676.6	4968.7	5684.4	6224.9	6278.5	6263.8	6098.3	5613.8	4883.5	3615.2
62.5°	3795.3	3897.6	4301.7	5207.3	6256.5	6392.9	6366.1	6112.9	5655.2	4742.3	3476.4
65°	2821.5	2967.6	3364.4	4550.0	6212.7	6451.3	6378.3	5874.3	5462.9	4462.4	3172.1
67.5°	2032.8	2161.8	2451.5	3744.2	5791.6	6183.5	6098.3	5484.8	5019.8	4065.5	2750.9
70°	1390.1	1482.6	1679.8	2726.6	4944.4	5346.1	5292.5	4903.0	4321.2	3593.3	2234.8
72.5°	981.1	1020.0	1146.6	1799.1	3756.4	4194.6	4131.3	4033.9	3471.5	2987.1	1738.2
75°	735.2	759.5	827.7	1163.7	2534.3	2906.7	2848.3	2904.3	2592.7	2261.6	1265.9
77.5°	277.5	301.9	469.8	742.5	1499.6	1784.5	1726.0	1760.1	1441.2	1141.8	630.5
80°	75.5	80.3	155.8	353.0	681.6	888.6	808.2	693.8	535.6	525.8	333.5
82.5°	31.6	36.5	70.6	189.9	243.4	243.4	204.5	253.2	204.5	245.9	160.7
85°	12.2	14.6	17.0	48.7	31.6	34.1	36.5	48.7	41.4	51.1	36.5
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	2.4	4.9	7.3	7.3	7.3
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°	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0	1967.0
2.5°	1954.9	1928.1	1889.1	1825.8	1760.1	1723.6	1677.3	1670.0	1621.3	1616.5	1597.0
5°	1967.0	1911.0	1811.2	1689.5	1570.2	1477.7	1409.5	1373.0	1302.4	1302.4	1283.0
7.5°	1976.8	1889.1	1728.5	1548.3	1385.2	1261.0	1168.5	1129.6	1066.3	1061.4	1046.8
10°	1979.2	1862.4	1638.4	1404.7	1205.1	1078.5	988.4	944.6	888.6	883.7	874.0
12.5°	1998.7	1847.7	1558.0	1280.5	1076.0	939.7	852.1	815.5	771.7	766.9	757.1
15°	2030.3	1847.7	1489.9	1175.8	961.6	835.0	759.5	725.5	693.8	688.9	684.1
17.5°	2062.0	1842.9	1421.7	1078.5	866.7	752.2	686.5	659.7	635.4	633.0	628.1
20°	2091.2	1840.4	1353.6	995.7	793.6	684.1	633.0	608.6	589.1	589.1	586.7
22.5°	2120.4	1835.6	1287.8	917.8	730.3	633.0	589.1	562.4	547.8	547.8	545.3
25°	2164.2	1835.6	1227.0	852.1	679.2	594.0	550.2	530.7	518.5	516.1	516.1
27.5°	2215.4	1850.2	1173.4	793.6	635.4	555.1	521.0	501.5	486.9	482.0	484.5
30°	2271.3	1862.4	1124.7	742.5	594.0	525.8	489.3	469.8	455.2	450.4	452.8
32.5°	2327.3	1877.0	1080.9	696.3	552.6	499.1	462.5	440.6	426.0	423.6	423.6
35°	2388.2	1891.6	1037.1	657.3	518.5	472.3	438.2	413.9	404.1	399.3	401.7
37.5°	2449.1	1915.9	995.7	620.8	494.2	447.9	416.3	391.9	384.6	382.2	382.2
40°	2522.1	1952.4	978.6	596.4	472.3	426.0	399.3	374.9	367.6	367.6	367.6
42.5°	2583.0	1981.6	964.0	569.7	455.2	406.6	382.2	362.7	357.9	355.4	357.9
45°	2643.8	2008.4	944.6	545.3	433.3	387.1	367.6	348.1	343.3	343.3	343.3
47.5°	2704.7	2023.0	917.8	521.0	413.9	370.0	353.0	336.0	331.1	331.1	331.1
50°	2753.4	2035.2	878.8	494.2	391.9	355.4	338.4	321.3	316.5	316.5	316.5
52.5°	2802.1	2037.6	837.5	462.5	370.0	338.4	323.8	306.7	301.9	299.4	299.4
55°	2845.9	2035.2	788.8	426.0	345.7	318.9	306.7	292.1	282.4	272.7	277.5
57.5°	2877.5	2032.8	732.8	389.5	321.3	299.4	294.6	275.1	255.6	231.3	236.1
60°	2865.4	2006.0	671.9	343.3	294.6	280.0	280.0	253.2	219.1	206.9	209.4
62.5°	2787.4	1930.5	608.6	294.6	267.8	260.5	258.1	228.8	202.1	189.9	192.3
65°	2553.7	1740.6	516.1	250.7	241.0	238.6	238.6	211.8	187.5	172.8	175.3
67.5°	2198.3	1460.7	421.2	211.8	214.2	219.1	219.1	194.8	170.4	155.8	158.2
70°	1762.5	1141.8	336.0	182.6	185.0	192.3	197.2	175.3	153.4	138.8	138.8
72.5°	1326.8	866.7	270.2	153.4	165.5	165.5	172.8	155.8	133.9	119.3	121.7
75°	961.6	620.8	214.2	129.0	143.6	141.2	141.2	131.5	114.4	104.7	104.7
77.5°	455.2	326.2	170.4	92.5	112.0	109.6	112.0	104.7	97.4	87.6	90.1
80°	224.0	160.7	109.6	65.7	77.9	80.3	87.6	82.8	80.3	73.0	73.0
82.5°	107.1	63.3	51.1	46.3	53.6	56.0	60.9	60.9	63.3	58.4	58.4
85°	29.2	17.0	21.9	29.2	34.1	36.5	41.4	43.8	43.8	41.4	43.8
87.5°	7.3	7.3	9.7	14.6	17.0	19.5	21.9	21.9	9.7	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)