

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: P841006

Luminaire Tested: **ARCH4-120-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17995 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

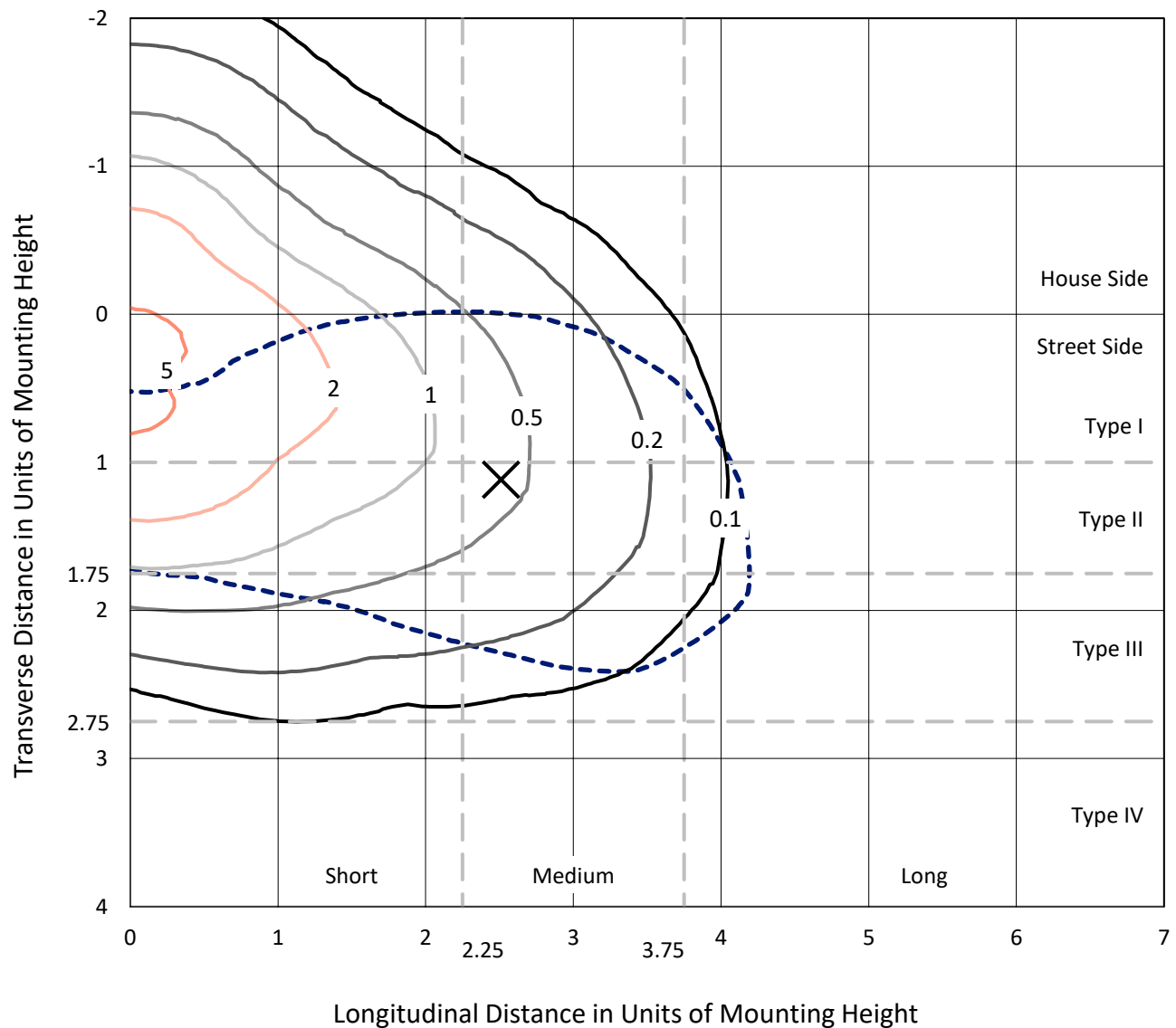
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

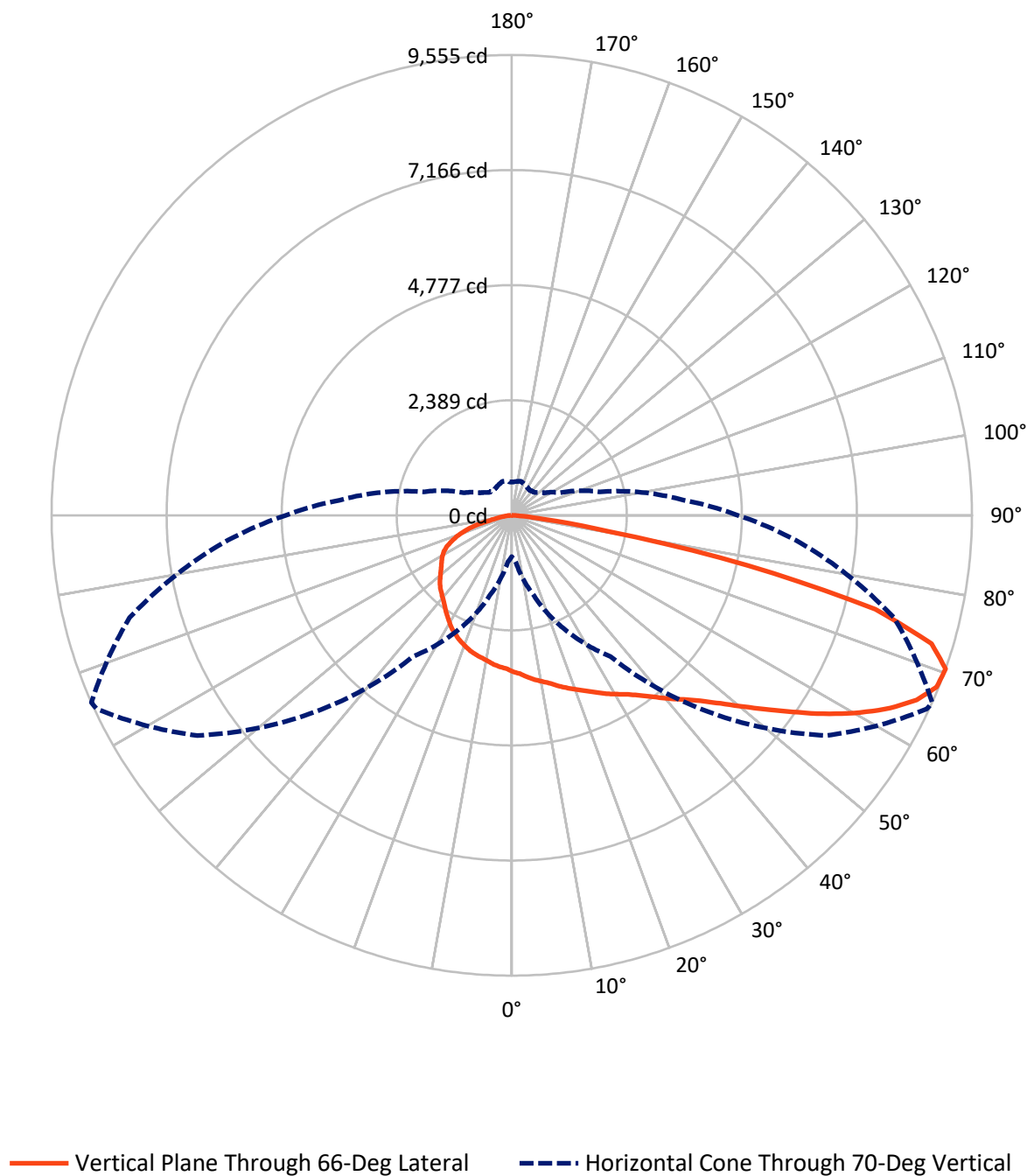
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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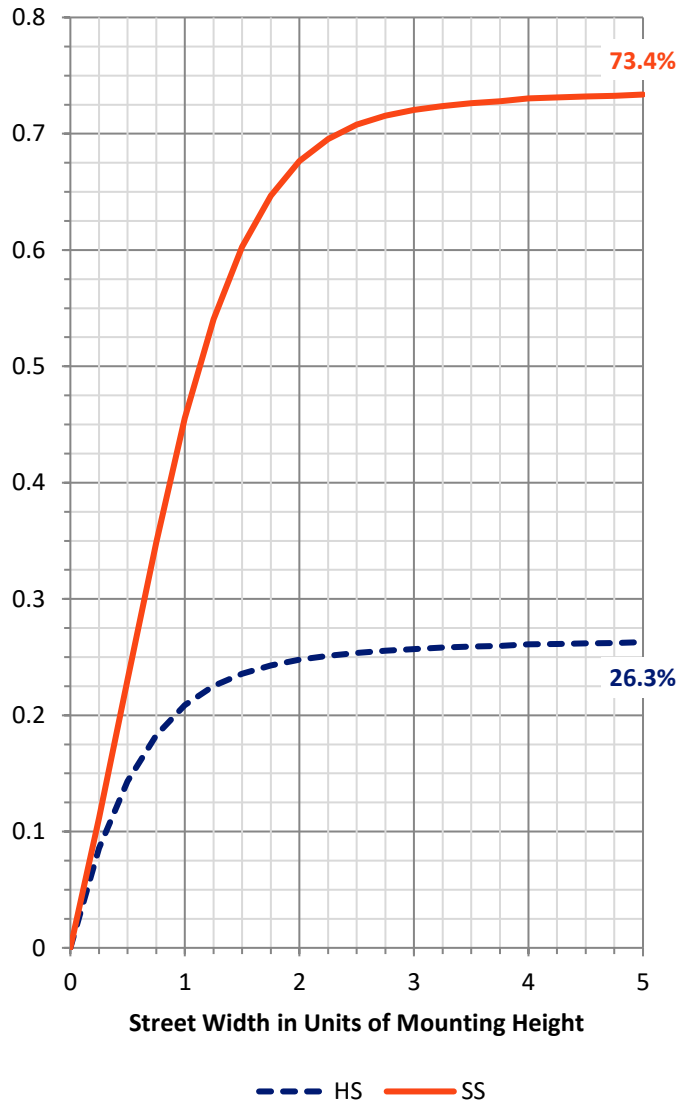
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4768.3	0.0	4768.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	13226.7	0.0	13226.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	17995.0	0.0	17995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	1.7
10°-20°	936.1	5.2
20°-30°	1569.2	8.7
30°-40°	2349.6	13.1
40°-50°	3141.4	17.5
50°-60°	3667.7	20.4
60°-70°	3647.0	20.3
70°-80°	2159.1	12.0
80°-90°	212.8	1.2
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°	17995.0	100.0
0°-180°	17995.0	100.0

Coefficient of Utilization



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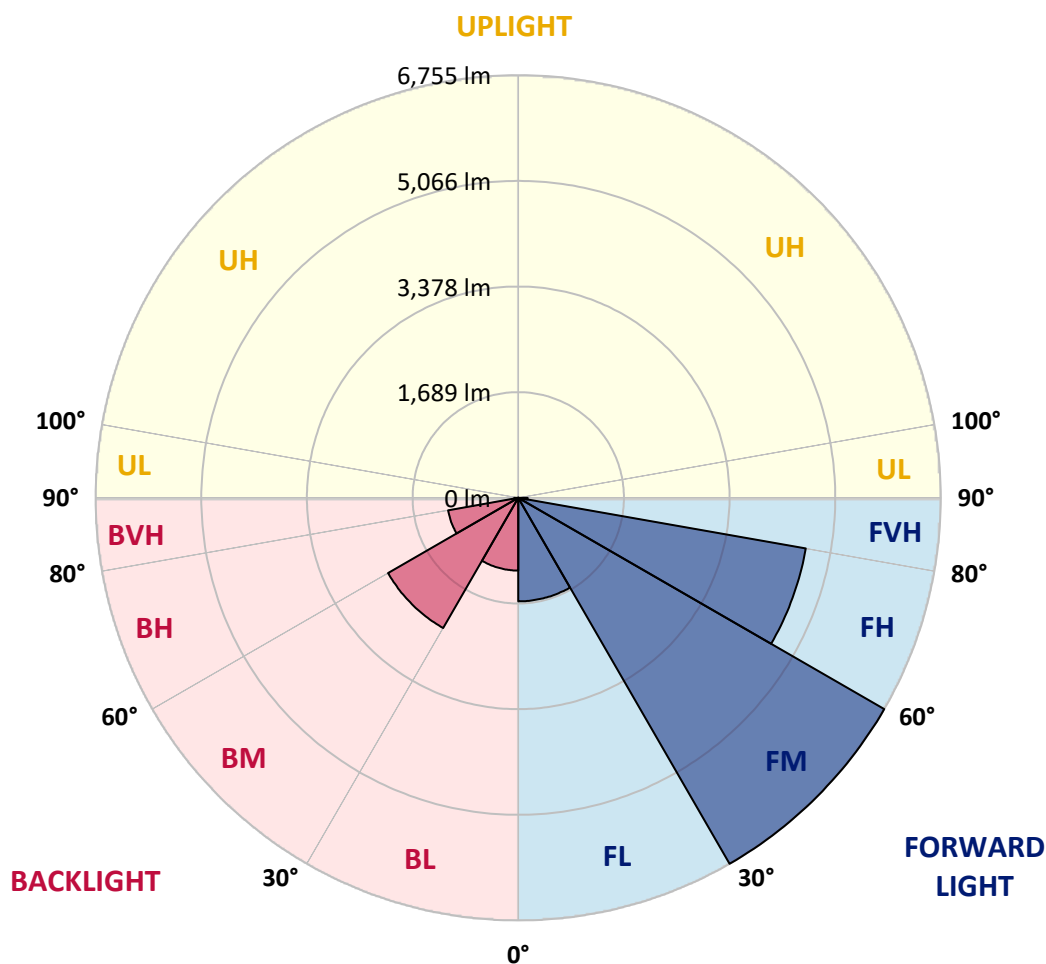
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1655.1	9.2			
FM	(30°-60°)	6755.1	37.5			
FH	(60°-80°)	4667.0	25.9			G2/5000
FVH	(80°-90°)	149.6	0.8			G2/225
BL	(0°-30°)	1162.3	6.5	B3/2500		
BM	(30°-60°)	2403.7	13.4	B2/2500		
BH	(60°-80°)	1139.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	63.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7
2.5°	3367.1	3361.8	3359.1	3348.5	3324.6	3335.2	3311.4	3295.4	3292.8	3255.6	3234.4
5°	3505.1	3502.4	3497.1	3481.2	3444.0	3449.3	3409.5	3380.4	3372.4	3314.0	3268.9
7.5°	3621.8	3616.5	3613.8	3592.6	3552.8	3550.2	3502.4	3460.0	3446.7	3367.1	3298.1
10°	3712.0	3704.1	3709.4	3688.1	3645.7	3637.7	3576.7	3521.0	3507.7	3406.9	3311.4
12.5°	3789.0	3783.7	3791.6	3773.0	3738.6	3730.6	3669.6	3597.9	3582.0	3465.3	3340.6
15°	3873.9	3855.3	3871.2	3863.3	3839.4	3836.7	3781.0	3701.4	3680.2	3539.6	3385.7
17.5°	3919.0	3908.4	3926.9	3929.6	3919.0	3937.6	3884.5	3789.0	3770.4	3608.5	3425.5
20°	3950.8	3934.9	3956.1	3972.0	3980.0	4017.2	3974.7	3881.8	3860.6	3674.9	3462.6
22.5°	4059.6	4025.1	4027.8	4038.4	4043.7	4096.8	4070.2	3980.0	3958.8	3757.1	3507.7
25°	4332.9	4263.9	4218.8	4187.0	4149.8	4194.9	4179.0	4091.4	4072.9	3855.3	3563.4
27.5°	4757.4	4669.9	4579.7	4486.8	4340.9	4322.3	4295.8	4216.2	4194.9	3953.5	3619.2
30°	5240.3	5152.8	5046.7	4898.1	4624.8	4481.5	4420.5	4332.9	4309.0	4041.0	3672.2
32.5°	5720.6	5643.7	5537.5	5357.1	4967.1	4675.2	4545.2	4455.0	4431.1	4136.6	3735.9
35°	6094.7	6047.0	5978.0	5752.4	5306.7	4903.4	4725.6	4616.8	4590.3	4287.8	3852.6
37.5°	6397.2	6362.7	6304.3	6068.2	5553.4	5131.6	4932.6	4807.9	4778.7	4452.3	3977.4
40°	6843.0	6752.7	6705.0	6362.7	5768.4	5338.5	5166.1	5036.0	5004.2	4627.4	4078.2
42.5°	7222.4	7156.1	7097.7	6625.4	5972.7	5516.3	5386.3	5266.9	5224.4	4799.9	4187.0
45°	7286.1	7312.6	7283.4	6755.4	6296.4	5691.4	5609.2	5532.2	5492.4	5033.4	4351.5
47.5°	7288.7	7288.7	7116.3	6829.7	6697.0	5887.8	5848.0	5874.5	5832.0	5330.6	4547.8
50°	7097.7	7132.2	7042.0	6848.3	6803.2	6084.1	6139.8	6283.1	6240.7	5646.3	4760.1
52.5°	6702.3	6816.4	6813.8	6819.1	6649.3	6251.3	6447.6	6774.0	6702.3	6001.9	4985.6
55°	6004.5	6232.7	6437.0	6612.1	6516.6	6352.1	6824.4	7296.7	7222.4	6399.9	5213.8
57.5°	5407.5	5553.4	5808.2	6304.3	6360.1	6439.7	7177.3	7843.3	7776.9	6840.3	5452.6
60°	4725.6	4927.3	5182.0	5887.8	6169.0	6553.7	7564.7	8376.6	8312.9	7286.1	5683.5
62.5°	3677.5	3937.6	4447.0	5248.3	5890.4	6625.4	7869.8	8846.2	8817.0	7708.0	5890.4
65°	2563.1	2794.0	3507.7	4462.9	5447.3	6593.5	8113.9	9265.5	9238.9	8052.9	6036.3
67.5°	1496.5	1764.5	2571.1	3592.6	4664.6	6373.3	8193.5	9512.2	9512.2	8262.5	6076.1
70°	854.4	979.1	1695.5	2618.8	3576.7	5765.7	7970.6	9509.6	9554.7	8214.7	5911.6
72.5°	597.0	652.7	1140.9	1761.8	2425.2	4664.6	7386.9	9050.5	9111.6	7763.7	5349.1
75°	464.3	504.1	804.0	1202.0	1528.3	3168.1	6110.6	7631.0	7792.9	6617.4	4324.9
77.5°	352.9	382.1	469.6	750.9	979.1	1820.2	4033.1	5004.2	5014.8	4051.6	2319.0
80°	257.4	286.6	313.1	459.0	520.1	851.7	1523.0	2090.8	2032.5	1960.8	1255.0
82.5°	153.9	183.1	191.0	249.4	254.7	363.5	533.3	673.9	647.4	862.3	589.0
85°	66.3	92.9	98.2	114.1	108.8	148.6	212.3	177.8	159.2	183.1	127.4
87.5°	15.9	26.5	26.5	29.2	23.9	37.1	39.8	29.2	26.5	31.8	31.8
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°	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7
2.5°	3229.1	3221.2	3223.8	3178.7	3165.4	3152.2	3144.2	3138.9	3133.6	3141.6	3149.5
5°	3253.0	3234.4	3213.2	3146.9	3120.3	3091.1	3069.9	3051.3	3043.4	3043.4	3051.3
7.5°	3271.6	3239.7	3194.6	3107.1	3059.3	3019.5	2985.0	2961.1	2947.9	2947.9	2955.8
10°	3274.2	3229.1	3157.5	3051.3	2987.7	2929.3	2889.5	2863.0	2844.4	2844.4	2849.7
12.5°	3290.1	3229.1	3136.2	3008.9	2929.3	2857.6	2809.9	2770.1	2762.1	2762.1	2767.4
15°	3316.7	3242.4	3123.0	2971.7	2876.2	2794.0	2740.9	2698.4	2682.5	2693.1	2695.8
17.5°	3340.6	3250.3	3099.1	2924.0	2809.9	2719.7	2661.3	2624.2	2602.9	2626.8	2626.8
20°	3356.5	3250.3	3064.6	2863.0	2738.2	2637.4	2581.7	2536.6	2520.7	2549.9	2552.5
22.5°	3380.4	3247.7	3027.5	2801.9	2661.3	2555.2	2499.4	2465.0	2457.0	2488.8	2499.4
25°	3406.9	3253.0	2987.7	2732.9	2576.4	2472.9	2430.5	2414.5	2419.8	2459.6	2472.9
27.5°	3436.1	3263.6	2947.9	2656.0	2483.5	2390.7	2366.8	2374.7	2396.0	2446.4	2462.3
30°	3462.6	3266.3	2892.1	2565.8	2377.4	2289.8	2300.4	2334.9	2366.8	2417.2	2435.8
32.5°	3497.1	3268.9	2833.8	2467.6	2263.3	2199.6	2247.4	2303.1	2334.9	2382.7	2403.9
35°	3582.0	3314.0	2788.7	2372.1	2157.2	2122.7	2202.3	2273.9	2292.5	2334.9	2353.5
37.5°	3680.2	3388.3	2764.8	2273.9	2053.7	2045.7	2146.6	2218.2	2223.5	2250.0	2268.6
40°	3741.2	3420.2	2738.2	2191.7	1960.8	1966.1	2069.6	2125.3	2114.7	2133.3	2146.6
42.5°	3802.2	3430.8	2682.5	2122.7	1873.3	1878.6	1958.2	1998.0	2003.3	2043.1	2061.6
45°	3905.7	3460.0	2621.5	2059.0	1793.7	1775.1	1822.8	1875.9	1944.9	2021.8	2043.1
47.5°	4043.7	3521.0	2557.8	1982.0	1716.7	1655.7	1674.3	1767.1	1838.8	1910.4	1923.7
50°	4184.3	3582.0	2499.4	1889.2	1639.8	1528.3	1536.3	1621.2	1679.6	1735.3	1743.2
52.5°	4322.3	3635.1	2449.0	1801.6	1552.2	1377.1	1408.9	1496.5	1536.3	1562.8	1570.8
55°	4460.3	3680.2	2403.9	1727.3	1451.4	1257.7	1286.9	1369.1	1408.9	1422.2	1427.5
57.5°	4603.5	3733.2	2369.4	1663.6	1337.3	1151.5	1170.1	1228.5	1265.6	1281.6	1276.3
60°	4722.9	3778.4	2350.9	1597.3	1223.2	1053.4	1048.1	1101.1	1154.2	1170.1	1164.8
62.5°	4815.8	3807.5	2321.7	1512.4	1122.4	955.2	928.7	997.7	1053.4	1064.0	1071.9
65°	4866.2	3810.2	2250.0	1403.6	1018.9	849.1	830.5	899.5	934.0	944.6	944.6
67.5°	4858.3	3767.7	2109.4	1257.7	923.4	753.5	737.6	780.1	830.5	838.5	830.5
70°	4693.8	3592.6	1883.9	1103.8	809.3	668.6	639.5	681.9	729.7	700.5	687.2
72.5°	4226.8	3138.9	1552.2	934.0	681.9	562.5	549.2	591.7	594.3	599.7	586.4
75°	3335.2	2337.6	1162.2	727.0	551.9	472.3	469.6	461.7	472.3	493.5	477.6
77.5°	1751.2	1167.5	628.8	445.8	400.7	379.4	360.9	358.2	390.0	403.3	387.4
80°	949.9	655.4	360.9	268.0	244.1	246.8	270.6	265.3	299.8	307.8	294.5
82.5°	413.9	310.4	177.8	161.9	161.9	159.2	167.2	185.7	222.9	222.9	177.8
85°	90.2	76.9	69.0	79.6	90.2	90.2	90.2	90.2	63.7	34.5	23.9
87.5°	29.2	29.2	29.2	31.8	34.5	34.5	29.2	21.2	13.3	2.7	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)