

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: P836930

Luminaire Tested: **ARCH3-90-750-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15445 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 93.1
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

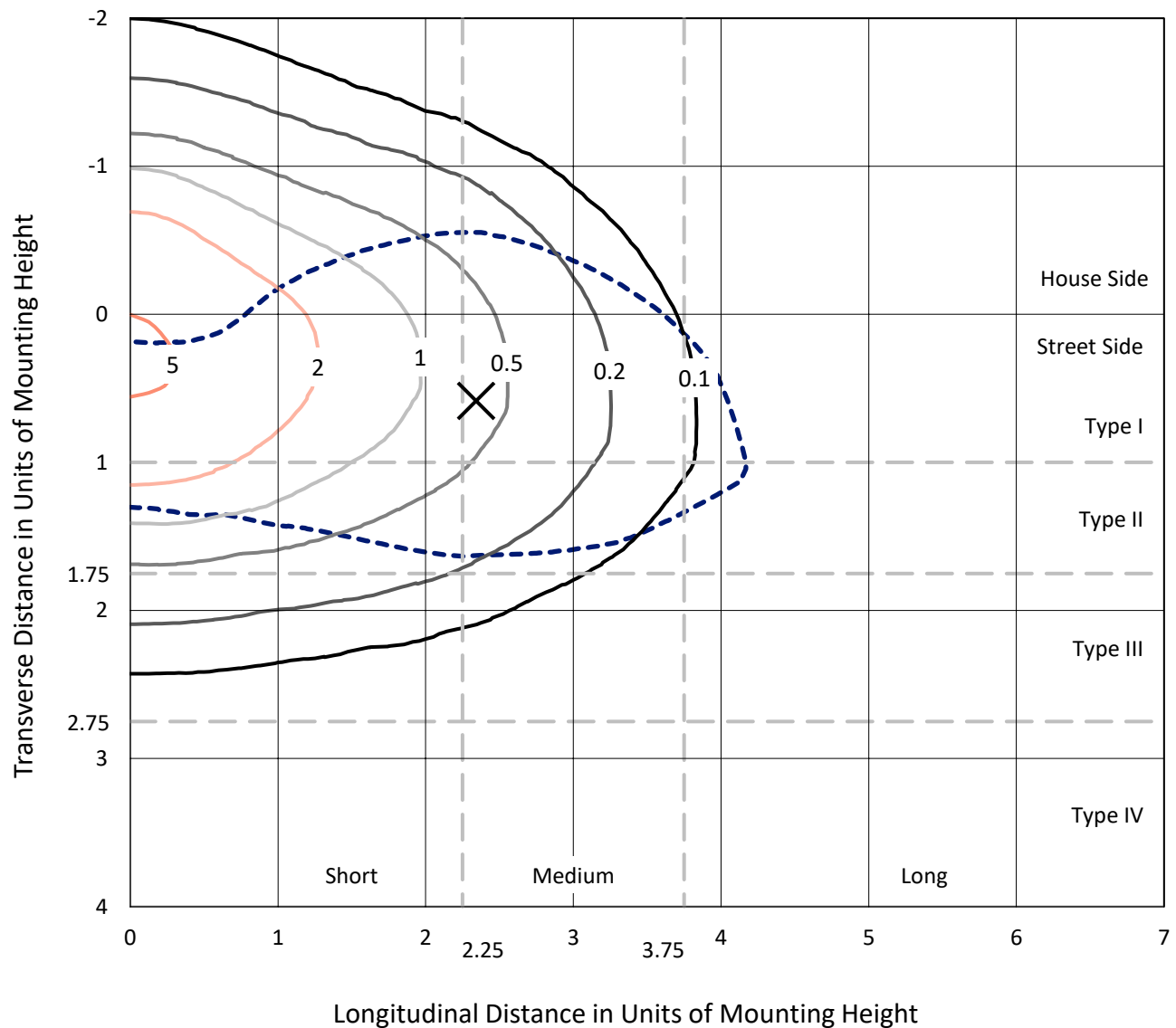


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Iso-Footcandle Lines of Horizontal Illumination

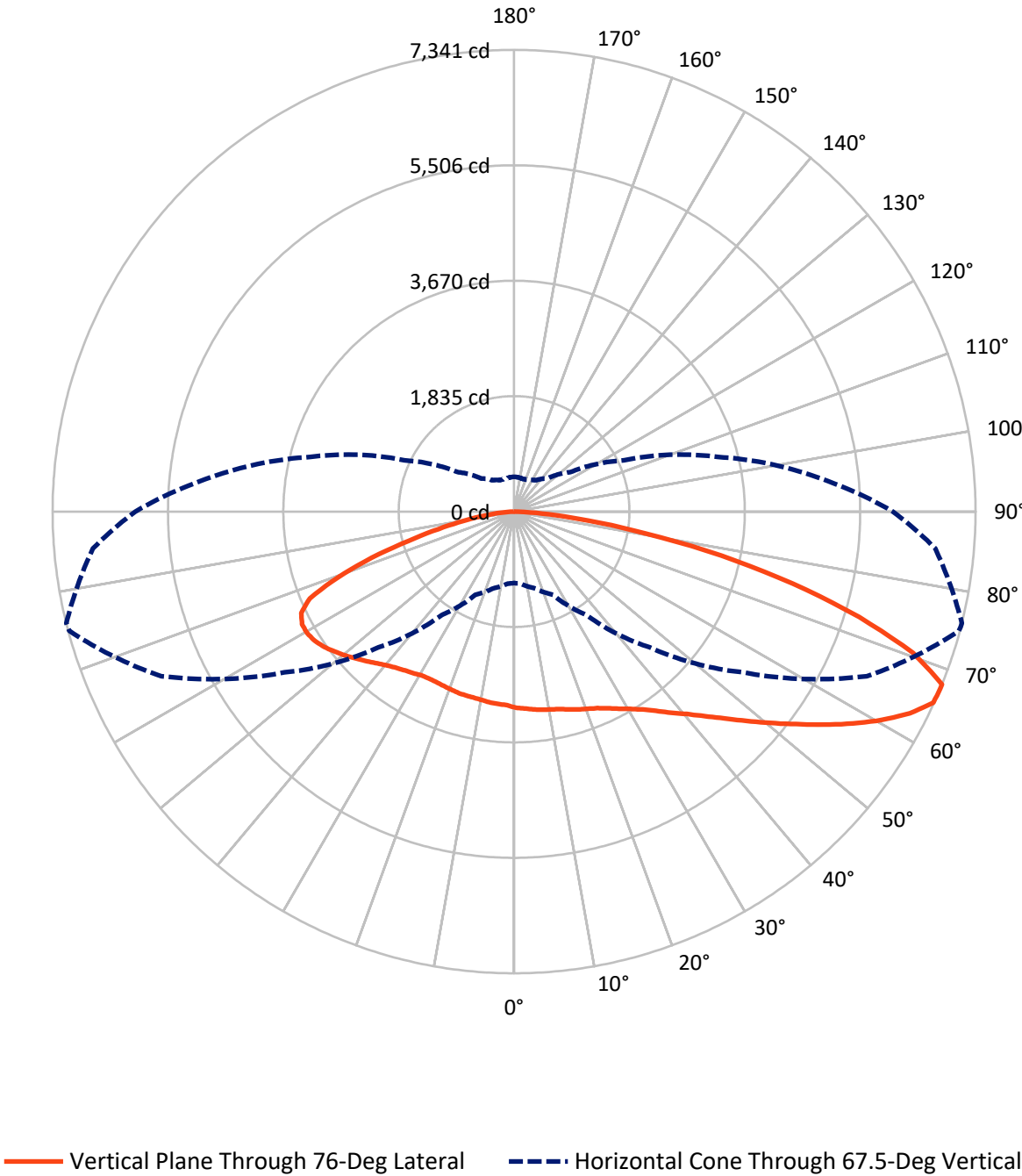
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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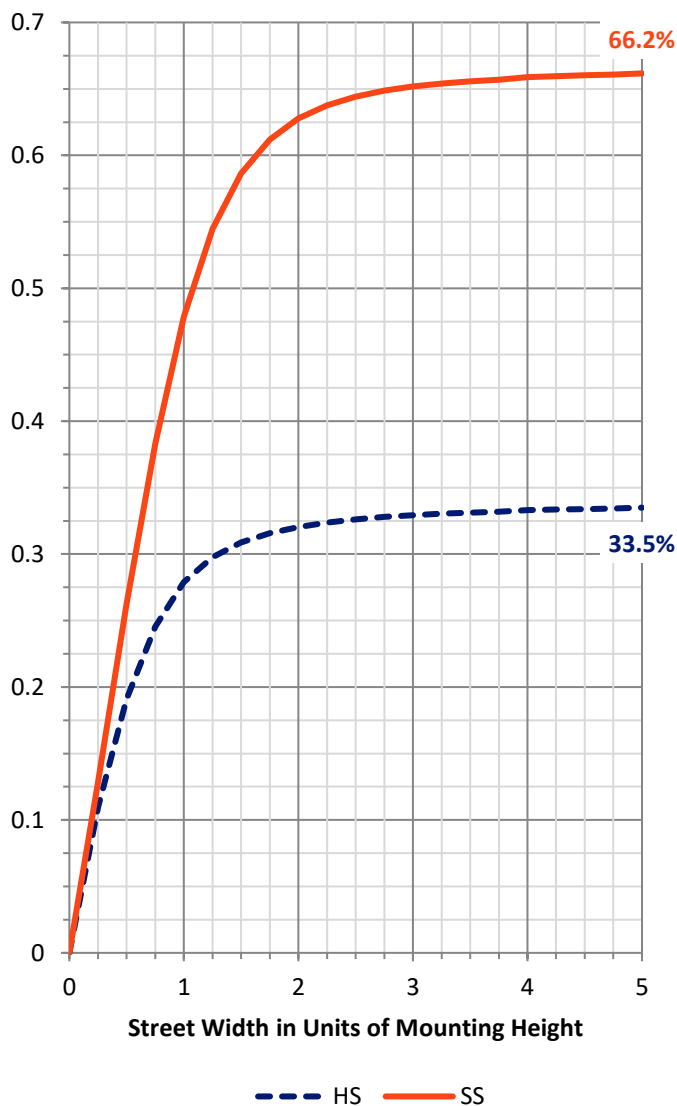
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5218.9	0.0	5218.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	10226.1	0.0	10226.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	15445.0	0.0	15445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	1.9
10°-20°	919.7	6.0
20°-30°	1562.6	10.1
30°-40°	2223.4	14.4
40°-50°	2808.1	18.2
50°-60°	3040.3	19.7
60°-70°	2827.8	18.3
70°-80°	1518.8	9.8
80°-90°	243.4	1.6
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°	15445.0	100.0
0°-180°	15445.0	100.0

Coefficient of Utilization



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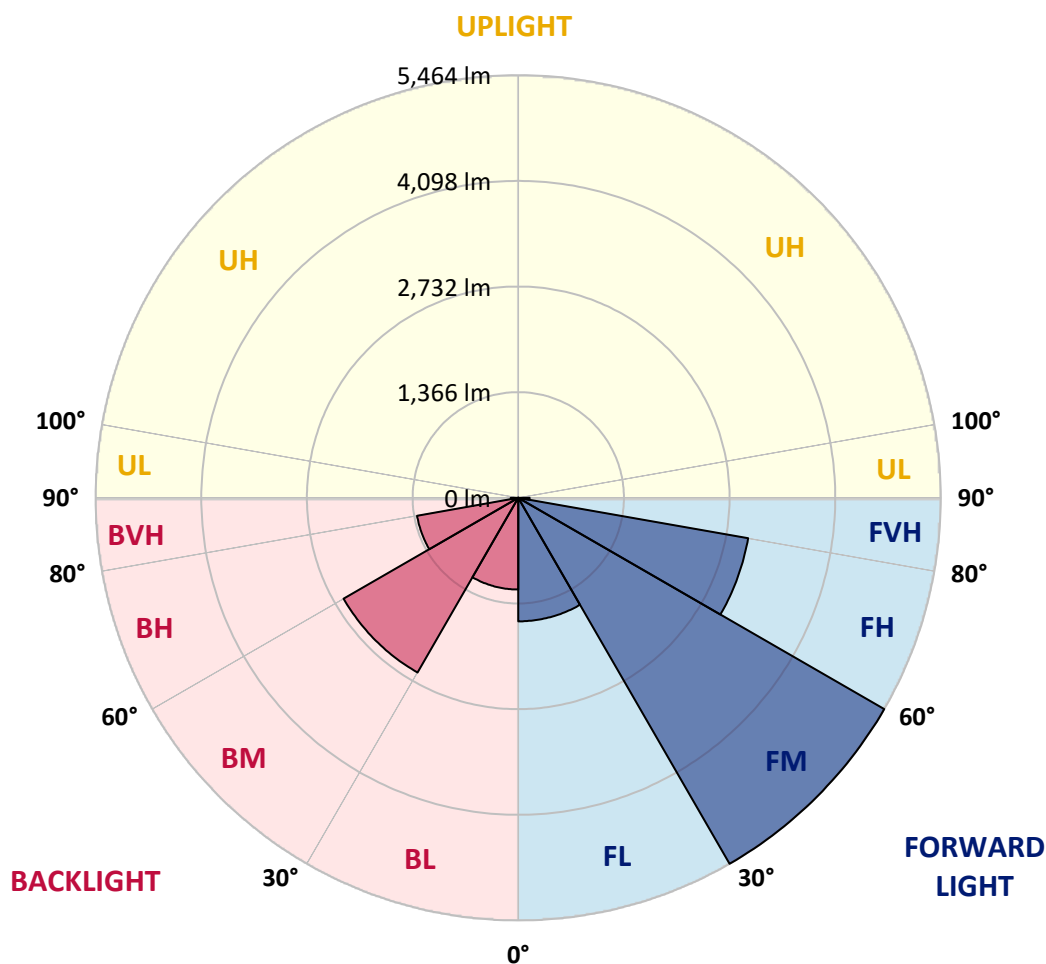
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1597.2	10.3			
FM	(30°-60°)	5463.8	35.4			
FH	(60°-80°)	3017.8	19.5			G2/5000
FVH	(80°-90°)	147.2	1.0			G2/225
BL	(0°-30°)	1186.0	7.7	B3/2500		
BM	(30°-60°)	2608.0	16.9	B3/5000		
BH	(60°-80°)	1328.8	8.6	B3/2500		G3/2500
BVH	(80°-90°)	96.2	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9
2.5°	3214.5	3208.7	3185.8	3188.7	3188.7	3185.8	3151.4	3137.1	3137.1	3134.2	3102.7
5°	3329.2	3320.6	3294.8	3289.0	3277.6	3263.2	3208.7	3177.2	3162.9	3160.0	3117.0
7.5°	3464.0	3452.5	3420.9	3403.7	3375.1	3337.8	3269.0	3220.2	3185.8	3182.9	3122.7
10°	3598.7	3587.3	3550.0	3518.4	3478.3	3418.1	3329.2	3257.5	3203.0	3197.3	3125.6
12.5°	3759.3	3747.8	3702.0	3661.8	3601.6	3521.3	3403.7	3306.2	3231.7	3223.1	3134.2
15°	3928.5	3911.3	3865.4	3819.5	3745.0	3641.7	3501.2	3372.2	3277.6	3263.2	3160.0
17.5°	4069.0	4046.1	4008.8	3962.9	3879.7	3759.3	3598.7	3438.2	3320.6	3309.1	3185.8
20°	4189.4	4172.2	4132.1	4089.1	4000.2	3868.3	3690.5	3504.1	3360.7	3346.4	3205.9
22.5°	4304.1	4281.2	4258.3	4226.7	4129.2	3983.0	3796.6	3584.4	3412.3	3395.1	3231.7
25°	4436.0	4410.2	4401.6	4384.4	4269.7	4120.6	3925.6	3684.8	3484.0	3464.0	3277.6
27.5°	4599.5	4570.8	4553.6	4553.6	4416.0	4261.1	4063.3	3802.3	3567.2	3550.0	3334.9
30°	4771.5	4737.1	4711.3	4711.3	4556.5	4401.6	4198.0	3919.9	3661.8	3641.7	3409.5
32.5°	4923.5	4889.1	4860.4	4857.6	4697.0	4542.1	4338.5	4048.9	3776.5	3750.7	3501.2
35°	5041.1	5009.5	4983.7	4989.5	4837.5	4685.5	4496.3	4221.0	3919.9	3891.2	3621.7
37.5°	5112.8	5101.3	5087.0	5107.0	4966.5	4823.2	4659.7	4387.3	4083.3	4057.5	3770.8
40°	5150.1	5141.5	5198.8	5224.6	5075.5	4946.5	4823.2	4559.3	4261.1	4232.5	3942.8
42.5°	5204.5	5276.2	5299.2	5293.4	5155.8	5041.1	4972.3	4745.7	4470.5	4444.6	4149.3
45°	5009.5	4992.3	5118.5	5187.3	5161.5	5101.3	5112.8	4969.4	4714.2	4688.4	4387.3
47.5°	4748.6	4725.7	4797.4	4966.5	5066.9	5124.2	5238.9	5201.7	4995.2	4972.3	4665.4
50°	4198.0	4229.6	4496.3	4722.8	4920.7	5118.5	5345.0	5451.1	5304.9	5282.0	4963.7
52.5°	3587.3	3618.8	3897.0	4418.8	4742.9	5075.5	5422.5	5700.6	5640.4	5614.6	5282.0
55°	3142.8	3211.6	3527.0	3905.6	4490.5	4940.7	5468.4	5955.8	6001.7	5978.8	5628.9
57.5°	2701.2	2752.8	2990.8	3326.3	4146.4	4705.6	5465.5	6193.8	6380.2	6357.3	5981.6
60°	2182.2	2248.1	2437.4	2798.7	3687.6	4424.6	5385.2	6380.2	6744.4	6727.2	6322.9
62.5°	1826.6	1846.7	1981.5	2294.0	3096.9	4069.0	5204.5	6480.6	7074.2	7062.7	6629.7
65°	1471.0	1473.9	1597.2	1858.1	2526.3	3627.4	4897.7	6443.3	7323.6	7329.4	6850.5
67.5°	1135.5	1149.9	1261.7	1459.6	2007.3	3053.9	4459.0	6191.0	7326.5	7340.8	6724.3
70°	785.7	797.2	966.4	1158.5	1551.3	2434.5	3865.4	5522.8	6724.3	6735.8	6027.5
72.5°	553.4	559.2	739.8	926.2	1213.0	1835.2	2916.3	4568.0	5732.2	5740.8	5069.8
75°	412.9	418.7	521.9	702.5	929.1	1270.3	1992.9	3498.4	4579.4	4579.4	4003.1
77.5°	292.5	295.4	338.4	484.6	619.4	857.4	1198.6	2291.1	3360.7	3366.5	2916.3
80°	197.9	200.7	220.8	326.9	387.1	464.5	650.9	1201.5	2119.1	2127.7	1852.4
82.5°	103.2	109.0	123.3	166.3	195.0	258.1	335.5	610.8	1172.8	1195.8	1112.6
85°	40.1	40.1	45.9	54.5	71.7	100.4	154.8	232.3	530.5	547.7	490.3
87.5°	14.3	14.3	17.2	17.2	20.1	22.9	25.8	34.4	60.2	60.2	57.4
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°	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9
2.5°	3091.2	3091.2	3076.8	3082.6	3079.7	3074.0	3068.2	3076.8	3068.2	3048.2	3045.3
5°	3096.9	3091.2	3068.2	3065.4	3056.8	3045.3	3031.0	3036.7	3022.4	3005.2	3002.3
7.5°	3099.8	3088.3	3056.8	3045.3	3028.1	3005.2	2982.2	2982.2	2962.1	2944.9	2942.1
10°	3094.0	3079.7	3036.7	3013.8	2982.2	2947.8	2916.3	2907.7	2884.7	2864.6	2864.6
12.5°	3096.9	3076.8	3022.4	2985.1	2942.1	2899.1	2858.9	2847.4	2827.4	2807.3	2804.4
15°	3114.1	3085.4	3016.6	2967.9	2904.8	2856.0	2813.0	2804.4	2787.2	2772.9	2772.9
17.5°	3131.3	3094.0	3008.0	2939.2	2861.8	2807.3	2767.2	2767.2	2755.7	2747.1	2747.1
20°	3139.9	3096.9	2990.8	2899.1	2810.2	2752.8	2715.5	2721.3	2718.4	2715.5	2715.5
22.5°	3160.0	3102.7	2976.5	2861.8	2755.7	2695.5	2661.1	2669.7	2666.8	2666.8	2669.7
25°	3191.5	3117.0	2965.0	2827.4	2704.1	2638.1	2600.8	2606.6	2606.6	2606.6	2606.6
27.5°	3234.6	3145.7	2962.1	2795.8	2652.5	2577.9	2532.0	2532.0	2520.5	2523.4	2526.3
30°	3300.5	3200.1	2967.9	2767.2	2598.0	2503.3	2448.9	2440.3	2437.4	2443.1	2446.0
32.5°	3380.8	3274.7	3002.3	2747.1	2540.6	2420.2	2351.4	2348.5	2339.9	2339.9	2339.9
35°	3481.2	3346.4	3033.8	2744.2	2483.3	2331.3	2256.7	2248.1	2228.1	2219.5	2219.5
37.5°	3610.2	3458.2	3071.1	2724.1	2434.5	2245.3	2156.4	2127.7	2104.8	2101.9	2101.9
40°	3767.9	3584.4	3125.6	2701.2	2382.9	2156.4	2038.8	1990.1	1992.9	2004.4	2004.4
42.5°	3954.3	3739.2	3194.4	2689.7	2308.3	2064.6	1901.2	1843.8	1863.9	1875.4	1878.2
45°	4172.2	3922.8	3271.8	2675.4	2239.5	1961.4	1754.9	1683.2	1691.8	1694.7	1697.6
47.5°	4424.6	4126.4	3352.1	2663.9	2162.1	1832.3	1594.3	1499.7	1496.8	1479.6	1485.4
50°	4688.4	4341.4	3435.3	2643.8	2067.5	1680.4	1425.2	1313.3	1290.4	1264.6	1267.4
52.5°	4969.4	4562.2	3512.7	2612.3	1949.9	1525.5	1264.6	1144.1	1098.3	1069.6	1075.3
55°	5279.1	4788.7	3587.3	2563.6	1826.6	1370.7	1121.2	997.9	940.5	917.6	920.5
57.5°	5563.0	5006.7	3641.7	2503.3	1691.8	1230.2	995.0	874.6	837.3	834.4	837.3
60°	5838.3	5190.2	3664.7	2420.2	1554.2	1101.1	877.5	785.7	759.9	774.2	777.1
62.5°	6070.5	5307.8	3653.2	2308.3	1413.7	977.8	782.8	716.9	699.7	728.3	731.2
65°	6205.3	5345.0	3572.9	2147.8	1261.7	857.4	693.9	622.3	613.6	630.9	639.5
67.5°	6027.5	5112.8	3355.0	1927.0	1092.5	745.6	607.9	550.6	536.2	550.6	550.6
70°	5342.2	4430.3	2838.8	1577.1	906.1	636.6	527.6	487.5	476.0	487.5	484.6
72.5°	4450.4	3684.8	2236.7	1230.2	714.0	536.2	458.8	421.5	410.1	398.6	392.8
75°	3452.5	2798.7	1623.0	903.3	539.1	430.1	384.2	349.8	321.2	332.6	326.9
77.5°	2529.1	1964.2	1149.9	625.1	387.1	332.6	301.1	275.3	255.2	278.1	275.3
80°	1628.7	1270.3	768.5	418.7	266.7	232.3	220.8	206.5	226.5	295.4	301.1
82.5°	995.0	805.8	458.8	272.4	174.9	154.8	143.4	143.4	232.3	255.2	258.1
85°	444.5	427.3	249.5	140.5	97.5	88.9	80.3	103.2	94.6	68.8	71.7
87.5°	71.7	74.6	54.5	48.7	37.3	37.3	28.7	20.1	14.3	8.6	8.6
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)