

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: P835985

Luminaire Tested: **ARCH3-120-740-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835985
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: ARCH3-120-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19383 lumens
Efficiency: N/A
Efficacy: 158.0 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

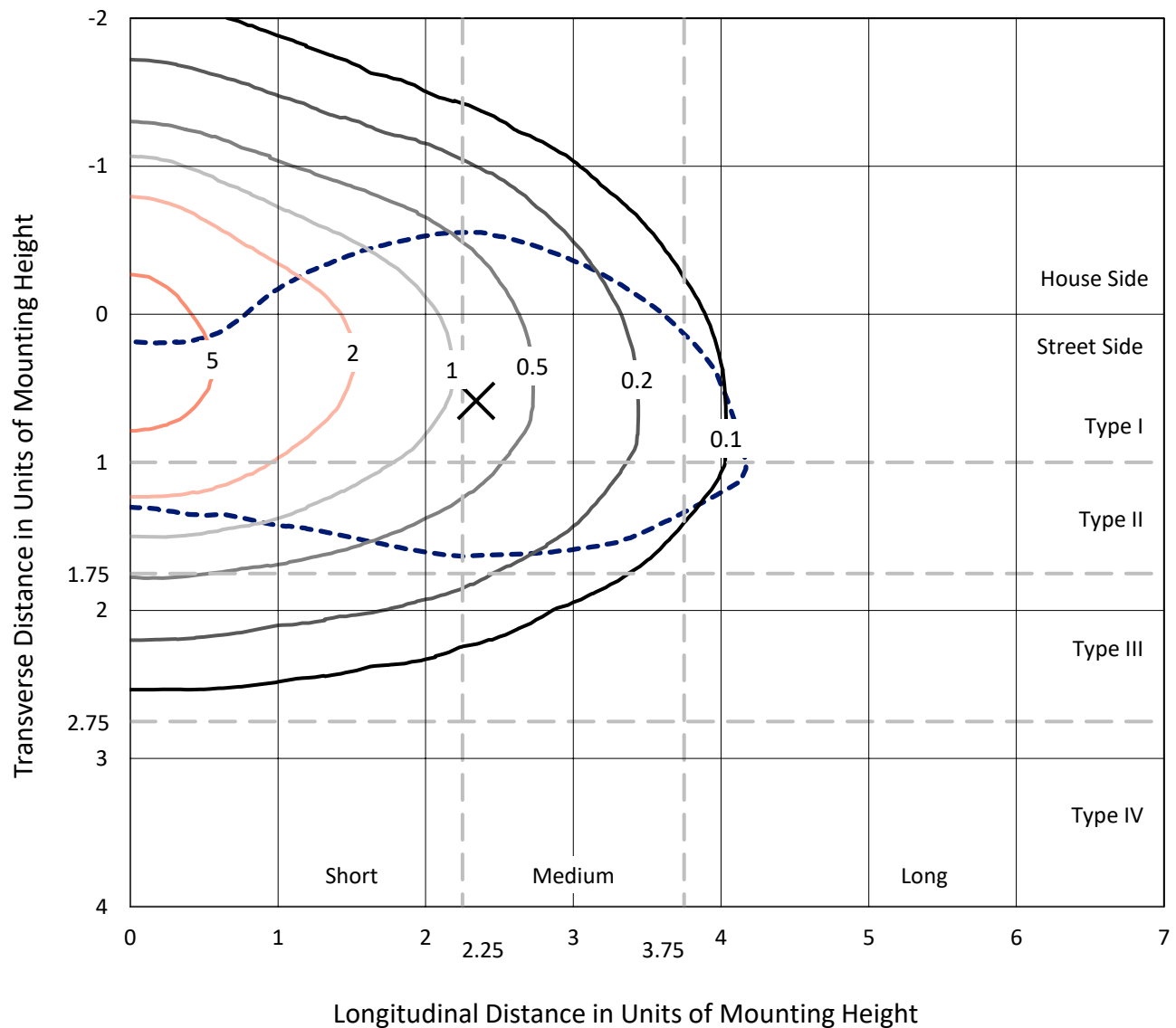
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

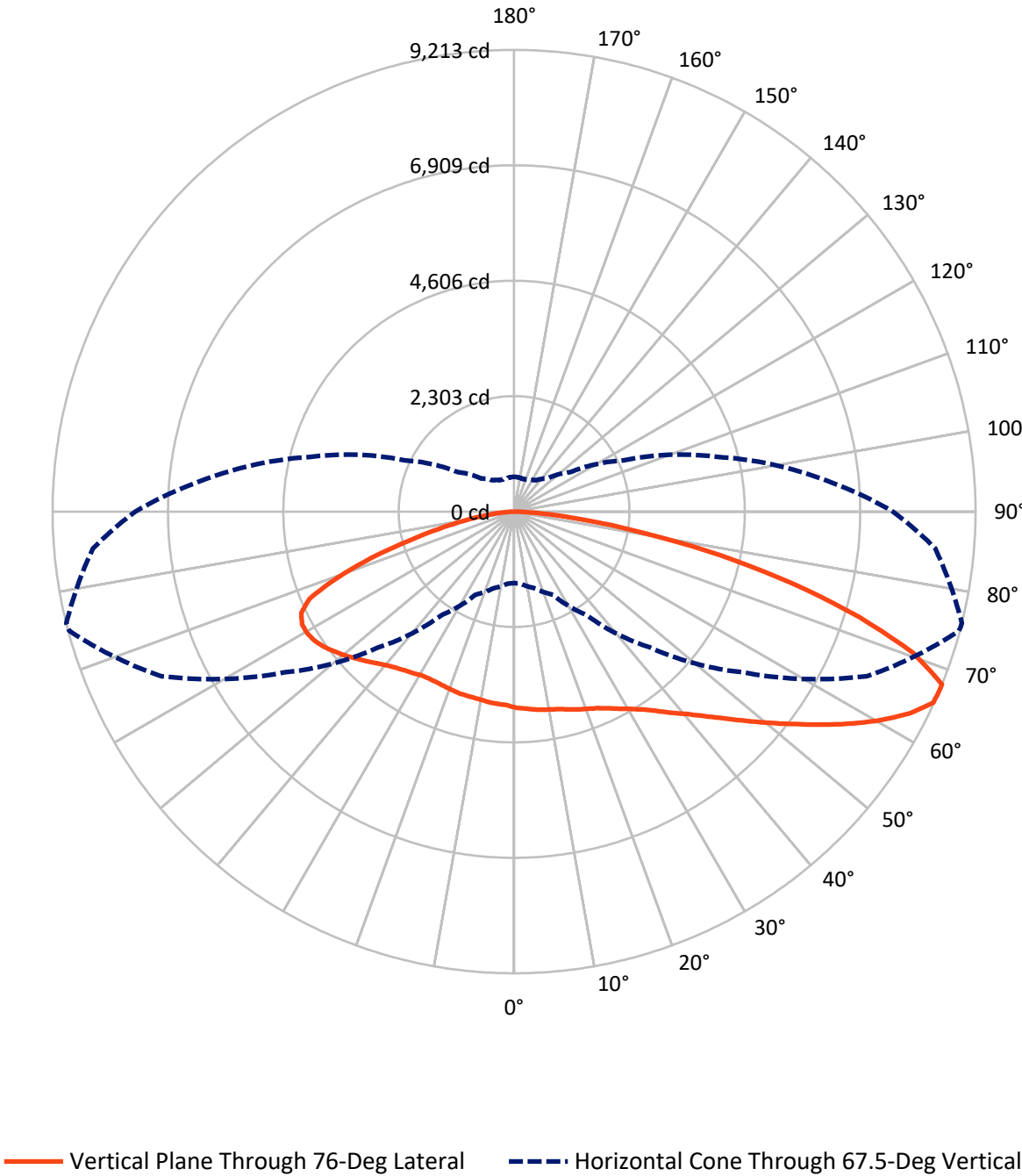
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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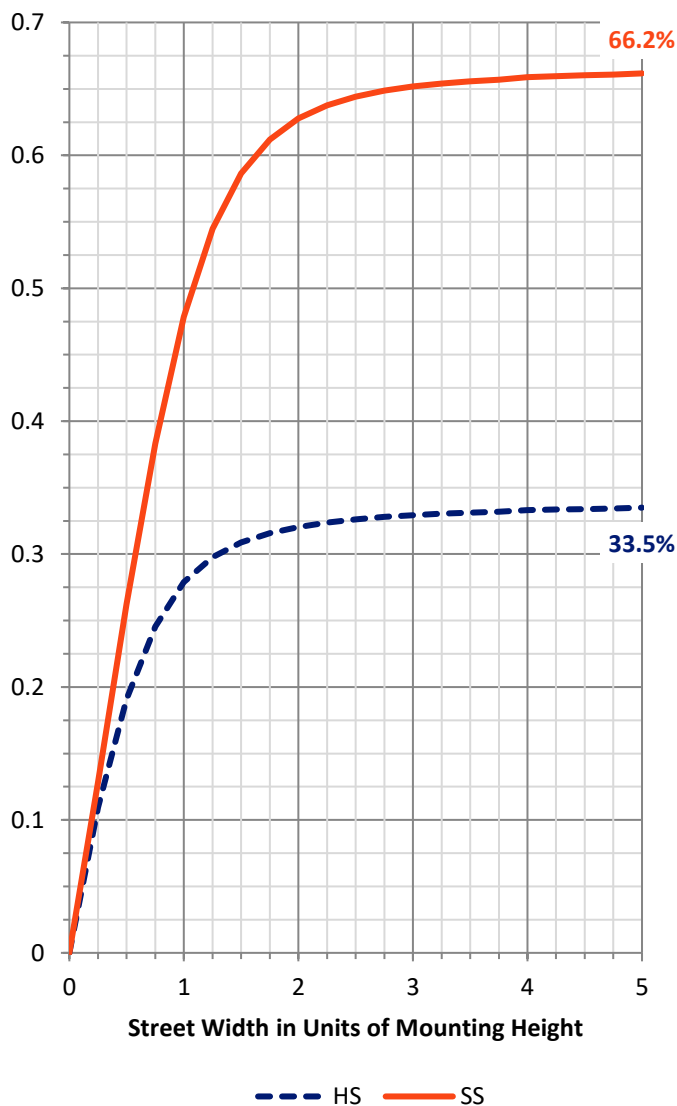
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6549.6	0.0	6549.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	12833.4	0.0	12833.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	19383.0	0.0	19383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.5	1.9
10°-20°	1154.2	6.0
20°-30°	1961.1	10.1
30°-40°	2790.3	14.4
40°-50°	3524.1	18.2
50°-60°	3815.5	19.7
60°-70°	3548.8	18.3
70°-80°	1906.0	9.8
80°-90°	305.4	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°	19383.0	100.0
0°-180°	19383.0	100.0

Coefficient of Utilization



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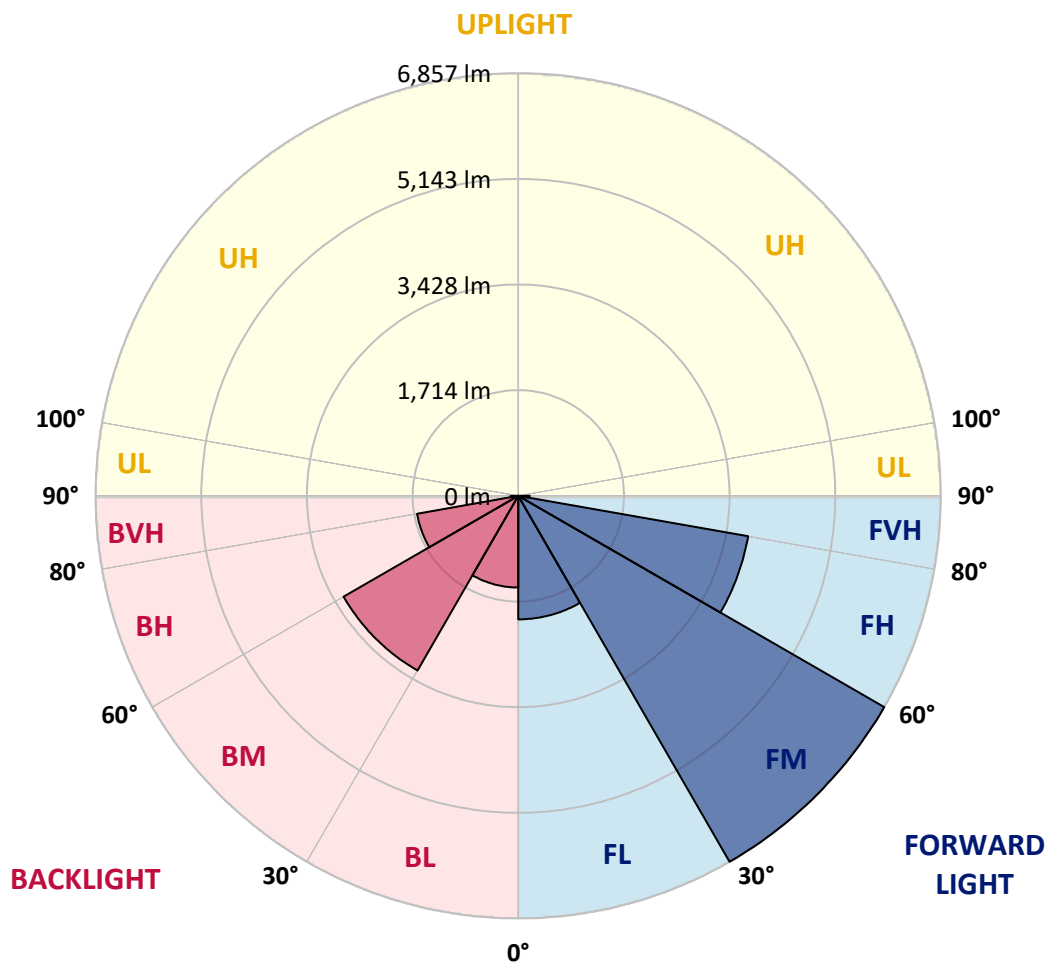
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2004.4	10.3			
FM	(30°-60°)	6857.0	35.4			
FH	(60°-80°)	3787.3	19.5			G2/5000
FVH	(80°-90°)	184.8	1.0			G2/225
BL	(0°-30°)	1488.4	7.7	B3/2500		
BM	(30°-60°)	3272.9	16.9	B3/5000		
BH	(60°-80°)	1667.6	8.6	B3/2500		G3/2500
BVH	(80°-90°)	120.7	0.6			G2/225
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°	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3
2.5°	4034.1	4026.9	3998.1	4001.7	4001.7	3998.1	3954.9	3936.9	3936.9	3933.3	3893.7
5°	4178.0	4167.2	4134.8	4127.6	4113.2	4095.3	4026.9	3987.3	3969.3	3965.7	3911.7
7.5°	4347.2	4332.8	4293.2	4271.6	4235.6	4188.8	4102.5	4041.3	3998.1	3994.5	3918.9
10°	4516.3	4501.9	4455.1	4415.5	4365.2	4289.6	4178.0	4088.1	4019.7	4012.5	3922.5
12.5°	4717.8	4703.4	4645.8	4595.5	4519.9	4419.1	4271.6	4149.2	4055.7	4044.9	3933.3
15°	4930.1	4908.5	4851.0	4793.4	4699.8	4570.3	4393.9	4232.0	4113.2	4095.3	3965.7
17.5°	5106.5	5077.7	5030.9	4973.3	4869.0	4717.8	4516.3	4314.8	4167.2	4152.8	3998.1
20°	5257.6	5236.0	5185.6	5131.7	5020.1	4854.6	4631.5	4397.5	4217.6	4199.6	4023.3
22.5°	5401.6	5372.8	5344.0	5304.4	5182.0	4998.5	4764.6	4498.3	4282.4	4260.8	4055.7
25°	5567.1	5534.7	5523.9	5502.3	5358.4	5171.2	4926.5	4624.3	4372.4	4347.2	4113.2
27.5°	5772.2	5736.2	5714.6	5714.6	5541.9	5347.6	5099.3	4771.8	4476.7	4455.1	4185.2
30°	5988.1	5945.0	5912.6	5912.6	5718.2	5523.9	5268.4	4919.3	4595.5	4570.3	4278.8
32.5°	6178.9	6135.7	6099.7	6096.1	5894.6	5700.2	5444.7	5081.3	4739.4	4707.0	4393.9
35°	6326.4	6286.8	6254.4	6261.6	6070.9	5880.2	5642.7	5297.2	4919.3	4883.4	4545.1
37.5°	6416.4	6402.0	6384.0	6409.2	6232.8	6052.9	5847.8	5505.9	5124.5	5092.1	4732.2
40°	6463.2	6452.4	6524.3	6556.7	6369.6	6207.7	6052.9	5721.8	5347.6	5311.6	4948.1
42.5°	6531.5	6621.5	6650.3	6643.1	6470.4	6326.4	6240.0	5955.8	5610.3	5577.9	5207.2
45°	6286.8	6265.2	6423.6	6509.9	6477.6	6402.0	6416.4	6236.4	5916.2	5883.8	5505.9
47.5°	5959.4	5930.6	6020.5	6232.8	6358.8	6430.8	6574.7	6527.9	6268.8	6240.0	5855.0
50°	5268.4	5308.0	5642.7	5927.0	6175.3	6423.6	6707.9	6841.0	6657.5	6628.7	6229.3
52.5°	4501.9	4541.5	4890.6	5545.5	5952.2	6369.6	6805.0	7154.1	7078.5	7046.1	6628.7
55°	3944.1	4030.5	4426.3	4901.4	5635.5	6200.5	6862.6	7474.4	7532.0	7503.2	7064.1
57.5°	3389.9	3454.7	3753.4	4174.4	5203.6	5905.4	6859.0	7773.1	8007.0	7978.2	7506.8
60°	2738.6	2821.3	3058.8	3512.3	4627.9	5552.7	6758.3	8007.0	8464.0	8442.4	7935.0
62.5°	2292.3	2317.5	2486.7	2878.9	3886.5	5106.5	6531.5	8132.9	8877.9	8863.5	8320.1
65°	1846.1	1849.7	2004.4	2331.9	3170.4	4552.3	6146.5	8086.2	9190.9	9198.1	8597.2
67.5°	1425.1	1443.1	1583.4	1831.7	2519.0	3832.6	5595.9	7769.5	9194.5	9212.5	8438.8
70°	986.0	1000.4	1212.7	1453.9	1946.9	3055.2	4851.0	6931.0	8438.8	8453.2	7564.3
72.5°	694.5	701.7	928.4	1162.4	1522.2	2303.1	3659.8	5732.6	7193.7	7204.5	6362.4
75°	518.2	525.4	655.0	881.7	1166.0	1594.2	2501.1	4390.3	5747.0	5747.0	5023.7
77.5°	367.1	370.7	424.6	608.2	777.3	1076.0	1504.2	2875.3	4217.6	4224.8	3659.8
80°	248.3	251.9	277.1	410.2	485.8	583.0	816.9	1507.8	2659.4	2670.2	2324.7
82.5°	129.6	136.7	154.7	208.7	244.7	323.9	421.0	766.5	1471.8	1500.6	1396.3
85°	50.4	50.4	57.6	68.4	90.0	126.0	194.3	291.5	665.7	687.3	615.4
87.5°	18.0	18.0	21.6	21.6	25.2	28.8	32.4	43.2	75.6	75.6	72.0
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°	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3
2.5°	3879.3	3879.3	3861.3	3868.5	3864.9	3857.7	3850.5	3861.3	3850.5	3825.4	3821.8
5°	3886.5	3879.3	3850.5	3846.9	3836.2	3821.8	3803.8	3811.0	3793.0	3771.4	3767.8
7.5°	3890.1	3875.7	3836.2	3821.8	3800.2	3771.4	3742.6	3742.6	3717.4	3695.8	3692.2
10°	3882.9	3864.9	3811.0	3782.2	3742.6	3699.4	3659.8	3649.0	3620.2	3595.0	3595.0
12.5°	3886.5	3861.3	3793.0	3746.2	3692.2	3638.2	3587.8	3573.5	3548.3	3523.1	3519.5
15°	3908.1	3872.1	3785.8	3724.6	3645.4	3584.2	3530.3	3519.5	3497.9	3479.9	3479.9
17.5°	3929.7	3882.9	3775.0	3688.6	3591.4	3523.1	3472.7	3472.7	3458.3	3447.5	3447.5
20°	3940.5	3886.5	3753.4	3638.2	3526.7	3454.7	3407.9	3415.1	3411.5	3407.9	3407.9
22.5°	3965.7	3893.7	3735.4	3591.4	3458.3	3382.7	3339.5	3350.3	3346.7	3346.7	3350.3
25°	4005.3	3911.7	3721.0	3548.3	3393.5	3310.8	3264.0	3271.2	3271.2	3271.2	3271.2
27.5°	4059.3	3947.7	3717.4	3508.7	3328.7	3235.2	3177.6	3177.6	3163.2	3166.8	3170.4
30°	4142.0	4016.1	3724.6	3472.7	3260.4	3141.6	3073.2	3062.4	3058.8	3066.0	3069.6
32.5°	4242.8	4109.6	3767.8	3447.5	3188.4	3037.3	2950.9	2947.3	2936.5	2936.5	2936.5
35°	4368.8	4199.6	3807.4	3443.9	3116.4	2925.7	2832.1	2821.3	2796.1	2785.3	2785.3
37.5°	4530.7	4340.0	3854.1	3418.7	3055.2	2817.7	2706.2	2670.2	2641.4	2637.8	2637.8
40°	4728.6	4498.3	3922.5	3389.9	2990.5	2706.2	2558.6	2497.5	2501.1	2515.5	2515.5
42.5°	4962.5	4692.6	4008.9	3375.5	2896.9	2591.0	2385.9	2313.9	2339.1	2353.5	2357.1
45°	5236.0	4922.9	4106.1	3357.5	2810.5	2461.5	2202.4	2112.4	2123.2	2126.8	2130.4
47.5°	5552.7	5178.4	4206.8	3343.1	2713.4	2299.5	2000.8	1882.1	1878.5	1856.9	1864.1
50°	5883.8	5448.3	4311.2	3317.9	2594.6	2108.8	1788.5	1648.2	1619.4	1587.0	1590.6
52.5°	6236.4	5725.4	4408.3	3278.4	2447.1	1914.5	1587.0	1435.9	1378.3	1342.3	1349.5
55°	6625.1	6009.7	4501.9	3217.2	2292.3	1720.2	1407.1	1252.3	1180.4	1151.6	1155.2
57.5°	6981.4	6283.2	4570.3	3141.6	2123.2	1543.8	1248.7	1097.6	1050.8	1047.2	1050.8
60°	7326.8	6513.5	4599.1	3037.3	1950.5	1381.9	1101.2	986.0	953.6	971.6	975.2
62.5°	7618.3	6661.1	4584.7	2896.9	1774.1	1227.1	982.4	899.7	878.1	914.1	917.7
65°	7787.5	6707.9	4483.9	2695.4	1583.4	1076.0	870.9	780.9	770.1	791.7	802.5
67.5°	7564.3	6416.4	4210.4	2418.3	1371.1	935.6	762.9	690.9	672.9	690.9	690.9
70°	6704.3	5559.9	3562.7	1979.3	1137.2	798.9	662.2	611.8	597.4	611.8	608.2
72.5°	5585.1	4624.3	2806.9	1543.8	896.1	672.9	575.8	529.0	514.6	500.2	493.0
75°	4332.8	3512.3	2036.8	1133.6	676.5	539.8	482.2	439.0	403.0	417.4	410.2
77.5°	3174.0	2465.1	1443.1	784.5	485.8	417.4	377.9	345.5	320.3	349.1	345.5
80°	2044.0	1594.2	964.4	525.4	334.7	291.5	277.1	259.1	284.3	370.7	377.9
82.5°	1248.7	1011.2	575.8	341.9	219.5	194.3	179.9	179.9	291.5	320.3	323.9
85°	557.8	536.2	313.1	176.3	122.4	111.6	100.8	129.6	118.8	86.4	90.0
87.5°	90.0	93.6	68.4	61.2	46.8	46.8	36.0	25.2	18.0	10.8	10.8
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)