

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: P841087

Luminaire Tested: **ARCH4-130-727-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841087
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: ARCH4-130-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21304 lumens
Efficiency: N/A
Efficacy: 161.4 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): 132
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



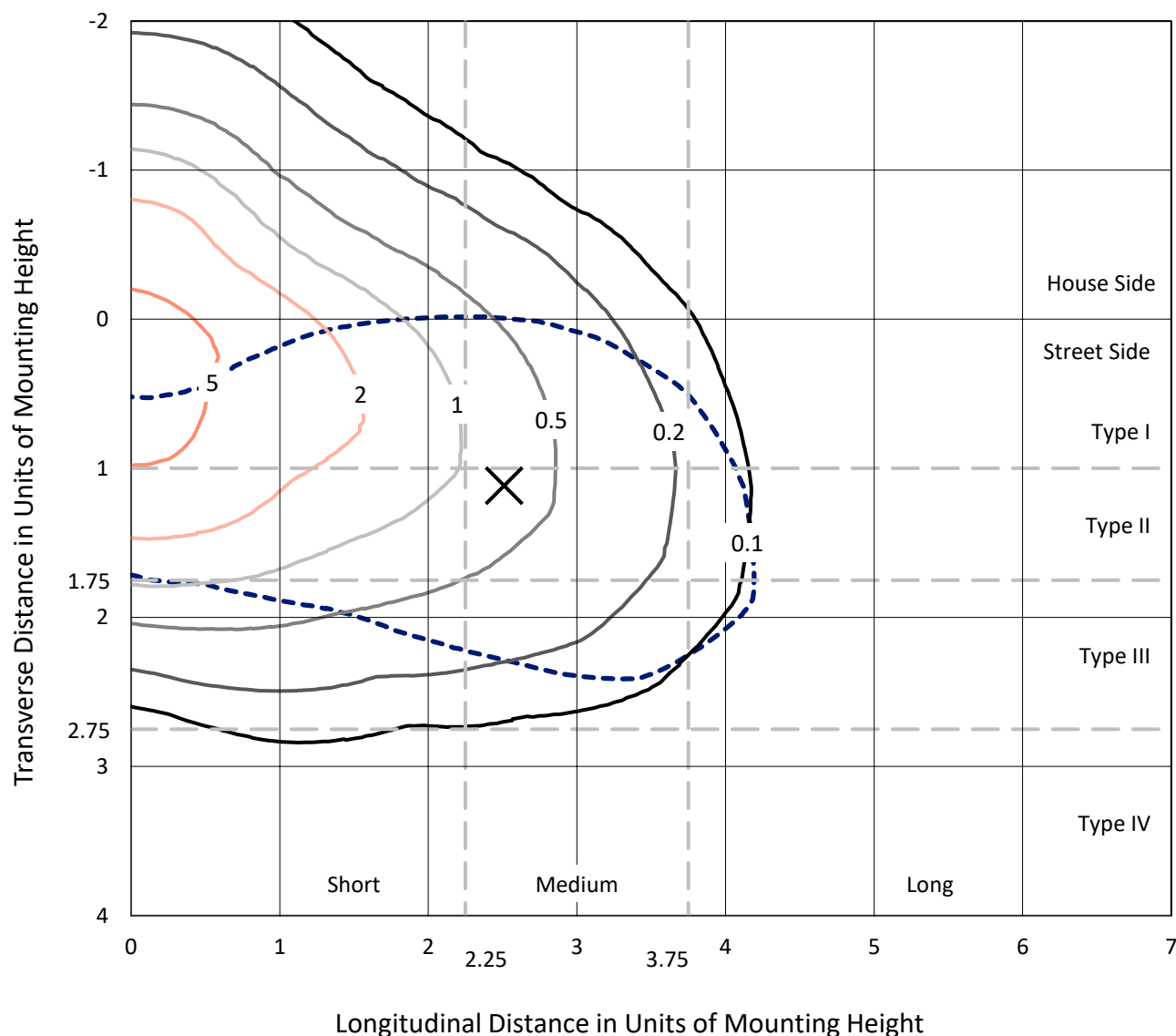
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

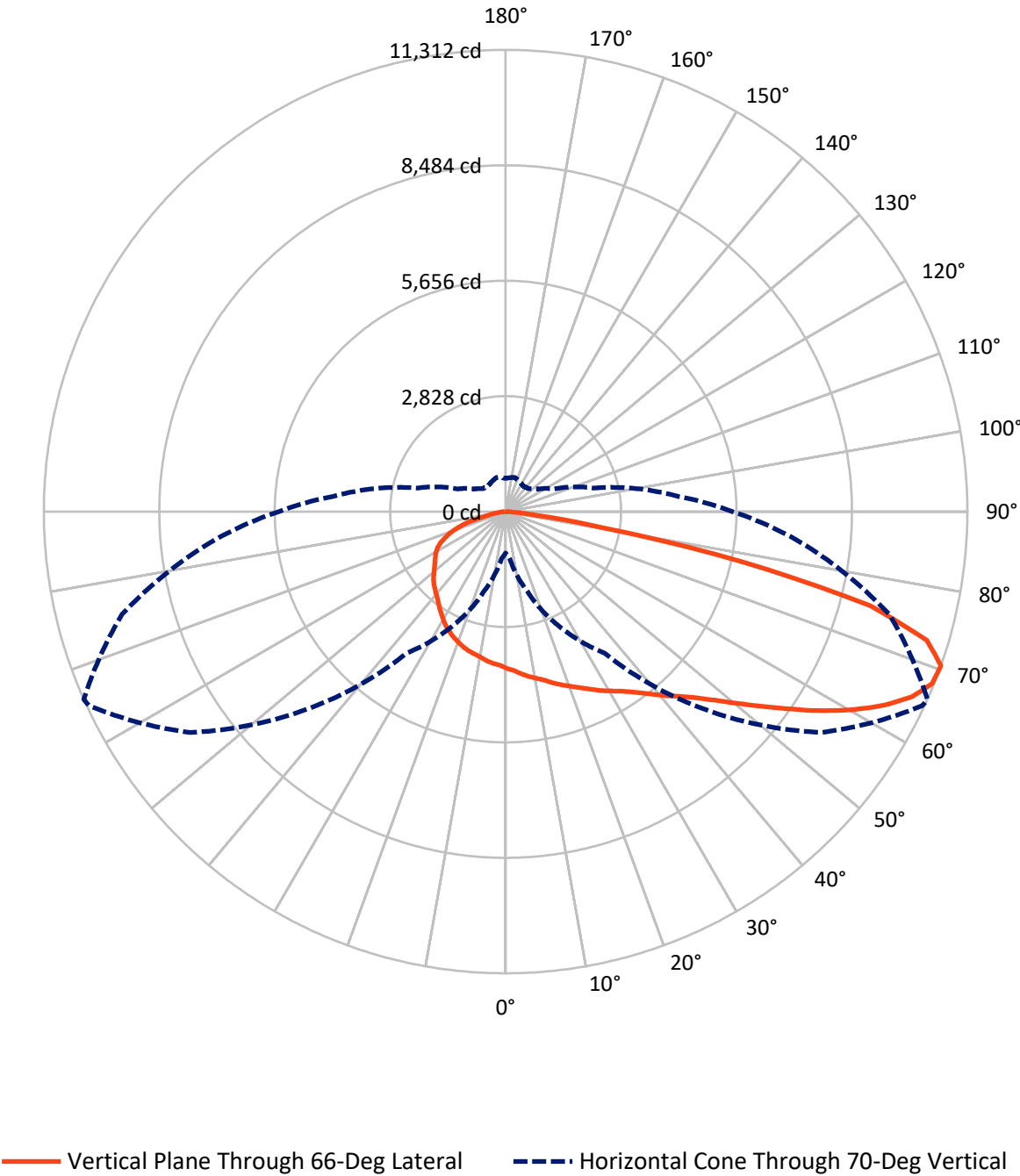


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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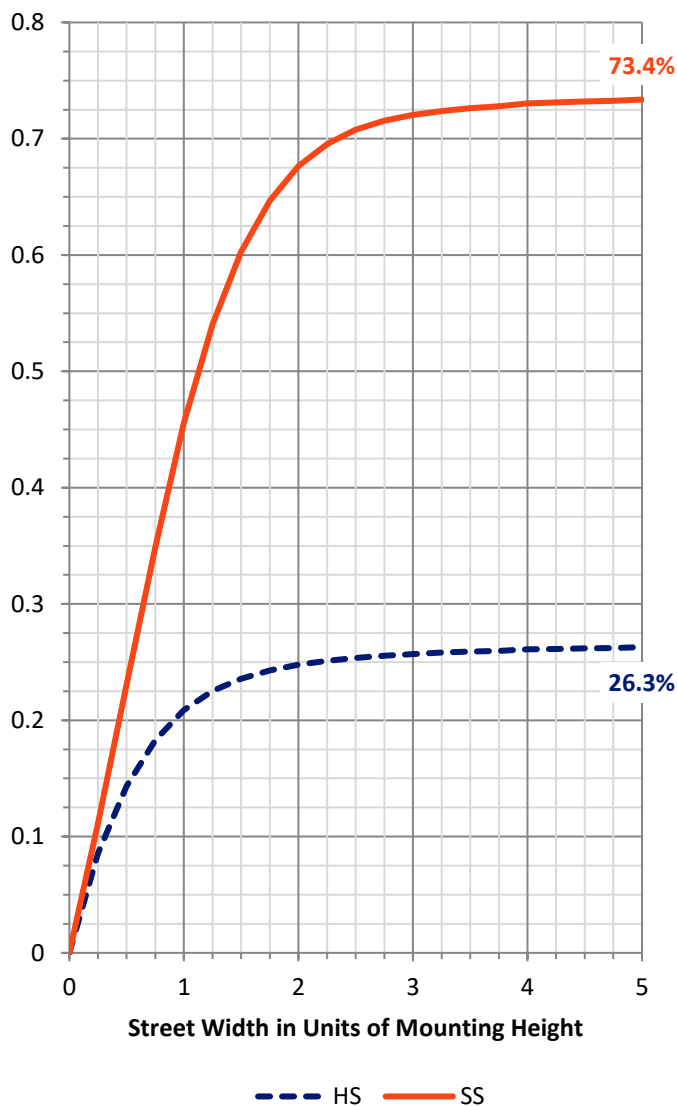
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5645.1	0.0	5645.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15658.9	0.0	15658.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	21304.0	0.0	21304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.5	1.7
10°-20°	1108.2	5.2
20°-30°	1857.8	8.7
30°-40°	2781.7	13.1
40°-50°	3719.1	17.5
50°-60°	4342.2	20.4
60°-70°	4317.6	20.3
70°-80°	2556.1	12.0
80°-90°	251.9	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°	21304.0	100.0
0°-180°	21304.0	100.0

Coefficient of Utilization



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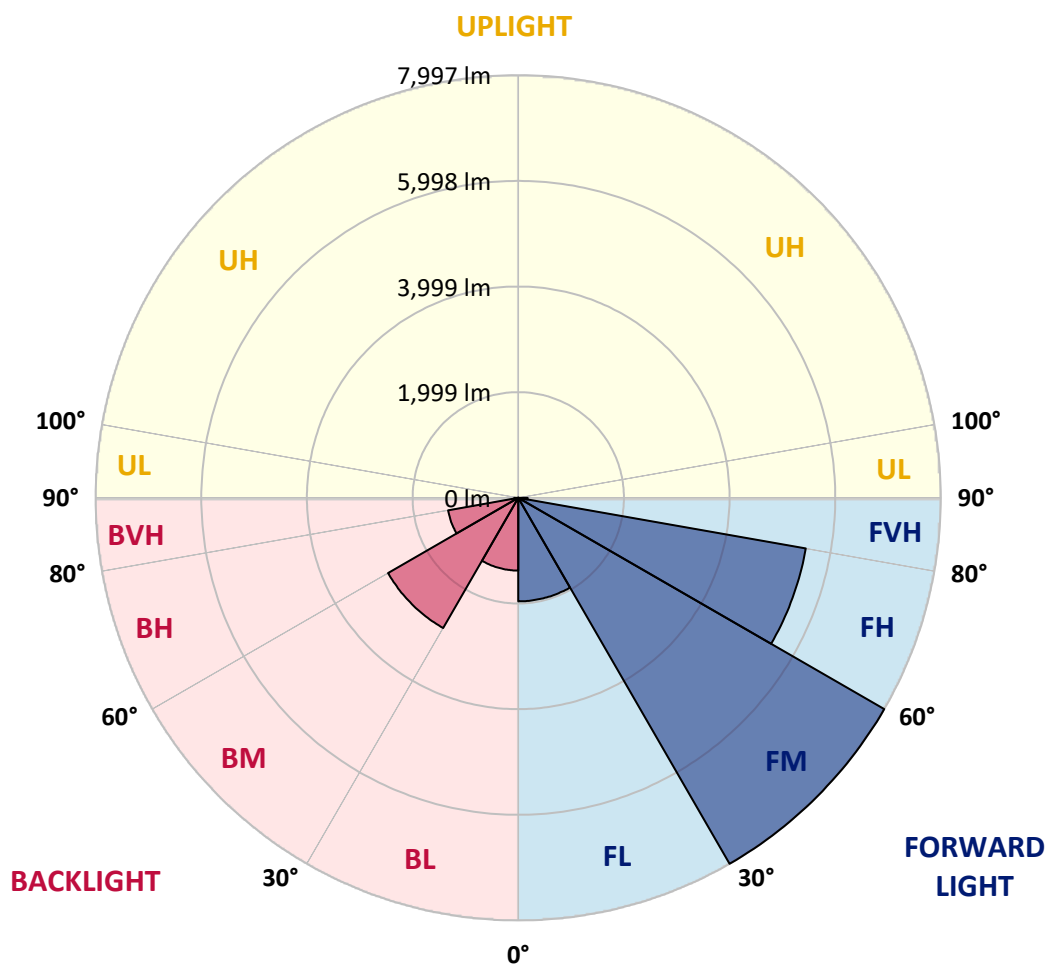
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1959.4	9.2			
FM	(30°-60°)	7997.2	37.5			
FH	(60°-80°)	5525.2	25.9			G3/7500
FVH	(80°-90°)	177.1	0.8			G2/225
BL	(0°-30°)	1376.0	6.5	B3/2500		
BM	(30°-60°)	2845.7	13.4	B3/5000		
BH	(60°-80°)	1348.5	6.3	B3/2500		G3/2500
BVH	(80°-90°)	74.9	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°	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9
2.5°	3986.2	3980.0	3976.8	3964.3	3936.0	3948.5	3920.3	3901.4	3898.3	3854.3	3829.2
5°	4149.6	4146.4	4140.2	4121.3	4077.3	4083.6	4036.5	4001.9	3992.5	3923.4	3870.0
7.5°	4287.8	4281.5	4278.4	4253.2	4206.1	4203.0	4146.4	4096.2	4080.5	3986.2	3904.6
10°	4394.6	4385.2	4391.5	4366.3	4316.1	4306.7	4234.4	4168.4	4152.7	4033.4	3920.3
12.5°	4485.7	4479.4	4488.8	4466.9	4426.0	4416.6	4344.3	4259.5	4240.7	4102.5	3954.8
15°	4586.2	4564.2	4583.1	4573.7	4545.4	4542.2	4476.3	4382.0	4356.9	4190.4	4008.2
17.5°	4639.6	4627.1	4649.0	4652.2	4639.6	4661.6	4598.8	4485.7	4463.7	4272.1	4055.4
20°	4677.3	4658.5	4683.6	4702.4	4711.9	4755.8	4705.6	4595.6	4570.5	4350.6	4099.3
22.5°	4806.1	4765.3	4768.4	4781.0	4787.3	4850.1	4818.7	4711.9	4686.7	4448.0	4152.7
25°	5129.7	5048.0	4994.6	4956.9	4912.9	4966.3	4947.5	4843.8	4821.8	4564.2	4218.7
27.5°	5632.3	5528.6	5421.8	5311.8	5139.1	5117.1	5085.7	4991.4	4966.3	4680.5	4284.7
30°	6204.0	6100.3	5974.7	5798.7	5475.2	5305.6	5233.3	5129.7	5101.4	4784.1	4347.5
32.5°	6772.5	6681.4	6555.8	6342.2	5880.4	5534.9	5381.0	5274.2	5245.9	4897.2	4422.9
35°	7215.4	7158.9	7077.2	6810.2	6282.5	5805.0	5594.6	5465.8	5434.4	5076.3	4561.1
37.5°	7573.5	7532.7	7463.6	7184.0	6574.6	6075.2	5839.6	5691.9	5657.4	5271.0	4708.7
40°	8101.3	7994.5	7937.9	7532.7	6829.1	6320.2	6116.0	5962.1	5924.4	5478.3	4828.1
42.5°	8550.5	8471.9	8402.8	7843.7	7070.9	6530.7	6376.7	6235.4	6185.1	5682.5	4956.9
45°	8625.9	8657.3	8622.7	7997.6	7454.2	6738.0	6640.6	6549.5	6502.4	5958.9	5151.6
47.5°	8629.0	8629.0	8424.8	8085.6	7928.5	6970.4	6923.3	6954.7	6904.5	6310.8	5384.1
50°	8402.8	8443.7	8336.9	8107.6	8054.2	7202.9	7268.8	7438.5	7388.2	6684.6	5635.4
52.5°	7934.8	8069.9	8066.7	8073.0	7872.0	7400.8	7633.2	8019.6	7934.8	7105.5	5902.4
55°	7108.6	7378.8	7620.7	7828.0	7714.9	7520.1	8079.3	8638.4	8550.5	7576.7	6172.6
57.5°	6401.9	6574.6	6876.2	7463.6	7529.6	7623.8	8497.1	9285.5	9207.0	8098.1	6455.3
60°	5594.6	5833.3	6134.9	6970.4	7303.4	7758.9	8955.7	9916.9	9841.5	8625.9	6728.6
62.5°	4353.8	4661.6	5264.7	6213.4	6973.6	7843.7	9316.9	10472.9	10438.4	9125.3	6973.6
65°	3034.4	3307.7	4152.7	5283.6	6449.0	7806.0	9605.9	10969.2	10937.8	9533.7	7146.3
67.5°	1771.7	2088.9	3043.9	4253.2	5522.3	7545.3	9700.2	11261.4	11261.4	9781.8	7193.5
70°	1011.5	1159.1	2007.3	3100.4	4234.4	6825.9	9436.3	11258.2	11311.6	9725.3	6998.7
72.5°	706.8	772.7	1350.7	2085.8	2871.1	5522.3	8745.2	10714.8	10787.0	9191.3	6332.8
75°	549.7	596.8	951.8	1423.0	1809.4	3750.6	7234.3	9034.2	9225.8	7834.3	5120.2
77.5°	417.8	452.3	556.0	889.0	1159.1	2154.9	4774.7	5924.4	5937.0	4796.7	2745.5
80°	304.7	339.3	370.7	543.4	615.7	1008.3	1803.1	2475.3	2406.2	2321.4	1485.8
82.5°	182.2	216.7	226.2	295.3	301.6	430.4	631.4	797.9	766.5	1020.9	697.4
85°	78.5	109.9	116.2	135.1	128.8	175.9	251.3	210.5	188.5	216.7	150.8
87.5°	18.8	31.4	31.4	34.6	28.3	44.0	47.1	34.6	31.4	37.7	37.7
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°	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9	3844.9
2.5°	3822.9	3813.5	3816.6	3763.2	3747.5	3731.8	3722.4	3716.1	3709.8	3719.2	3728.7
5°	3851.2	3829.2	3804.1	3725.5	3694.1	3659.6	3634.4	3612.4	3603.0	3603.0	3612.4
7.5°	3873.2	3835.5	3782.1	3678.4	3621.9	3574.7	3533.9	3505.6	3489.9	3489.9	3499.3
10°	3876.3	3822.9	3738.1	3612.4	3537.0	3467.9	3420.8	3389.4	3367.4	3367.4	3373.7
12.5°	3895.1	3822.9	3713.0	3562.2	3467.9	3383.1	3326.6	3279.5	3270.0	3270.0	3276.3
15°	3926.6	3838.6	3697.2	3518.2	3405.1	3307.7	3244.9	3194.6	3175.8	3188.4	3191.5
17.5°	3954.8	3848.0	3669.0	3461.7	3326.6	3219.8	3150.7	3106.7	3081.6	3109.8	3109.8
20°	3973.7	3848.0	3628.1	3389.4	3241.8	3122.4	3056.4	3003.0	2984.2	3018.7	3021.9
22.5°	4001.9	3844.9	3584.2	3317.2	3150.7	3025.0	2959.1	2918.2	2908.8	2946.5	2959.1
25°	4033.4	3851.2	3537.0	3235.5	3050.2	2927.6	2877.4	2858.5	2864.8	2911.9	2927.6
27.5°	4067.9	3863.7	3489.9	3144.4	2940.2	2830.3	2802.0	2811.4	2836.5	2896.2	2915.1
30°	4099.3	3866.9	3424.0	3037.6	2814.6	2710.9	2723.5	2764.3	2802.0	2861.7	2883.7
32.5°	4140.2	3870.0	3354.9	2921.4	2679.5	2604.1	2660.6	2726.6	2764.3	2820.8	2846.0
35°	4240.7	3923.4	3301.5	2808.3	2553.8	2513.0	2607.2	2692.0	2714.0	2764.3	2786.3
37.5°	4356.9	4011.4	3273.2	2692.0	2431.3	2421.9	2541.3	2626.1	2632.4	2663.8	2685.8
40°	4429.2	4049.1	3241.8	2594.7	2321.4	2327.7	2450.2	2516.1	2503.6	2525.6	2541.3
42.5°	4501.4	4061.6	3175.8	2513.0	2217.7	2224.0	2318.2	2365.4	2371.6	2418.8	2440.7
45°	4623.9	4096.2	3103.6	2437.6	2123.5	2101.5	2158.0	2220.9	2302.5	2393.6	2418.8
47.5°	4787.3	4168.4	3028.2	2346.5	2032.4	1960.1	1982.1	2092.1	2176.9	2261.7	2277.4
50°	4953.7	4240.7	2959.1	2236.6	1941.3	1809.4	1818.8	1919.3	1988.4	2054.4	2063.8
52.5°	5117.1	4303.5	2899.4	2132.9	1837.6	1630.3	1668.0	1771.7	1818.8	1850.2	1859.6
55°	5280.4	4356.9	2846.0	2045.0	1718.3	1489.0	1523.5	1620.9	1668.0	1683.7	1690.0
57.5°	5450.1	4419.7	2805.1	1969.6	1583.2	1363.3	1385.3	1454.4	1498.4	1517.2	1510.9
60°	5591.4	4473.1	2783.1	1891.0	1448.1	1247.1	1240.8	1303.6	1366.4	1385.3	1379.0
62.5°	5701.4	4507.7	2748.6	1790.5	1328.7	1130.8	1099.4	1181.1	1247.1	1259.6	1269.1
65°	5761.0	4510.8	2663.8	1661.7	1206.2	1005.2	983.2	1064.9	1105.7	1118.3	1118.3
67.5°	5751.6	4460.6	2497.3	1489.0	1093.2	892.1	873.3	923.5	983.2	992.6	983.2
70°	5556.9	4253.2	2230.3	1306.8	958.1	791.6	757.0	807.3	863.8	829.3	813.6
72.5°	5004.0	3716.1	1837.6	1105.7	807.3	665.9	650.2	700.5	703.6	709.9	694.2
75°	3948.5	2767.4	1375.9	860.7	653.4	559.1	556.0	546.6	559.1	584.3	565.4
77.5°	2073.2	1382.1	744.5	527.7	474.3	449.2	427.2	424.1	461.8	477.5	458.6
80°	1124.6	775.9	427.2	317.3	289.0	292.1	320.4	314.1	355.0	364.4	348.7
82.5°	490.0	367.5	210.5	191.6	191.6	188.5	197.9	219.9	263.9	263.9	210.5
85°	106.8	91.1	81.7	94.2	106.8	106.8	106.8	106.8	75.4	40.8	28.3
87.5°	34.6	34.6	34.6	37.7	40.8	40.8	34.6	25.1	15.7	3.1	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)