

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: P841098

Luminaire Tested: **ARCH4-130-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21522 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
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



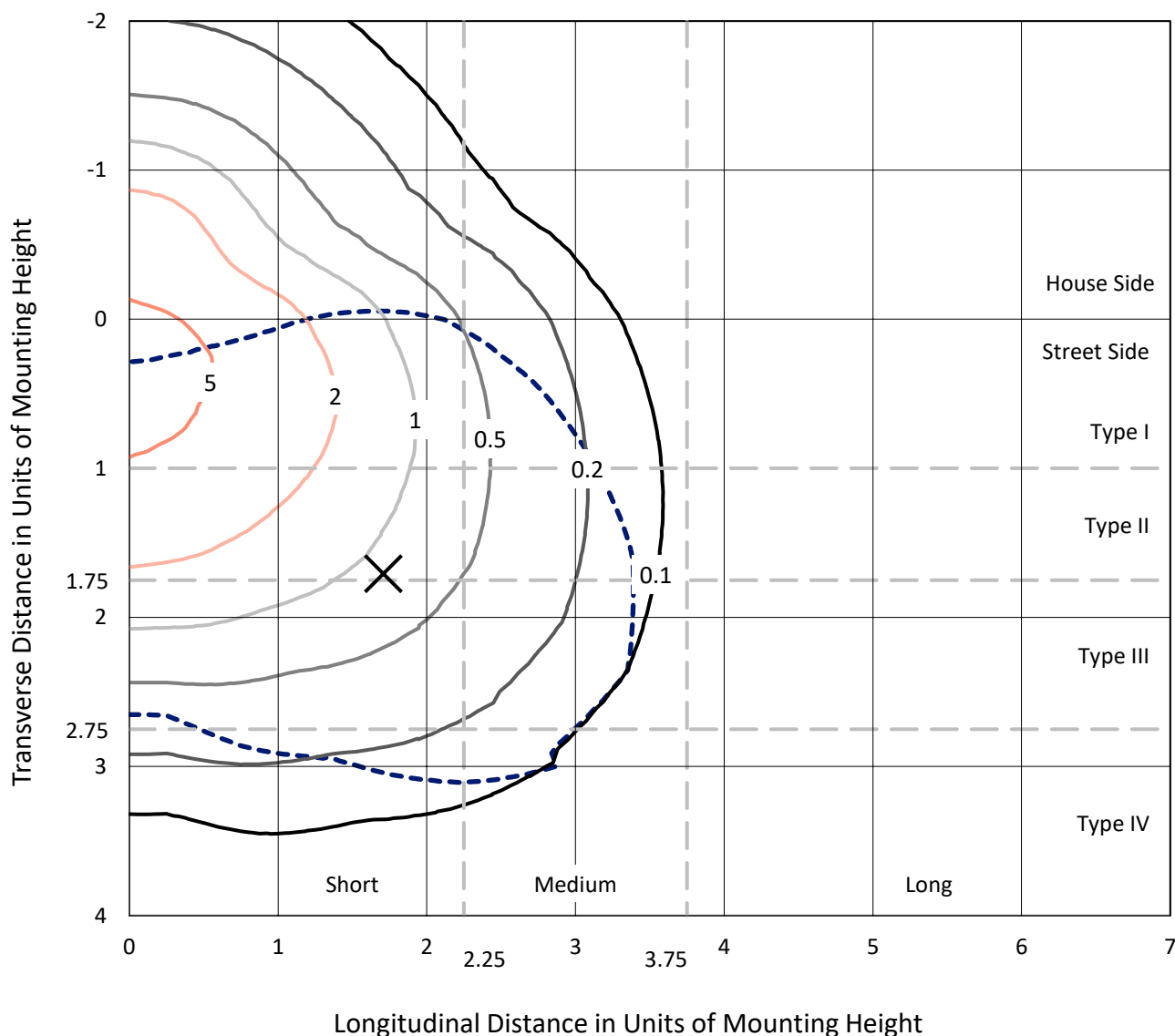
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

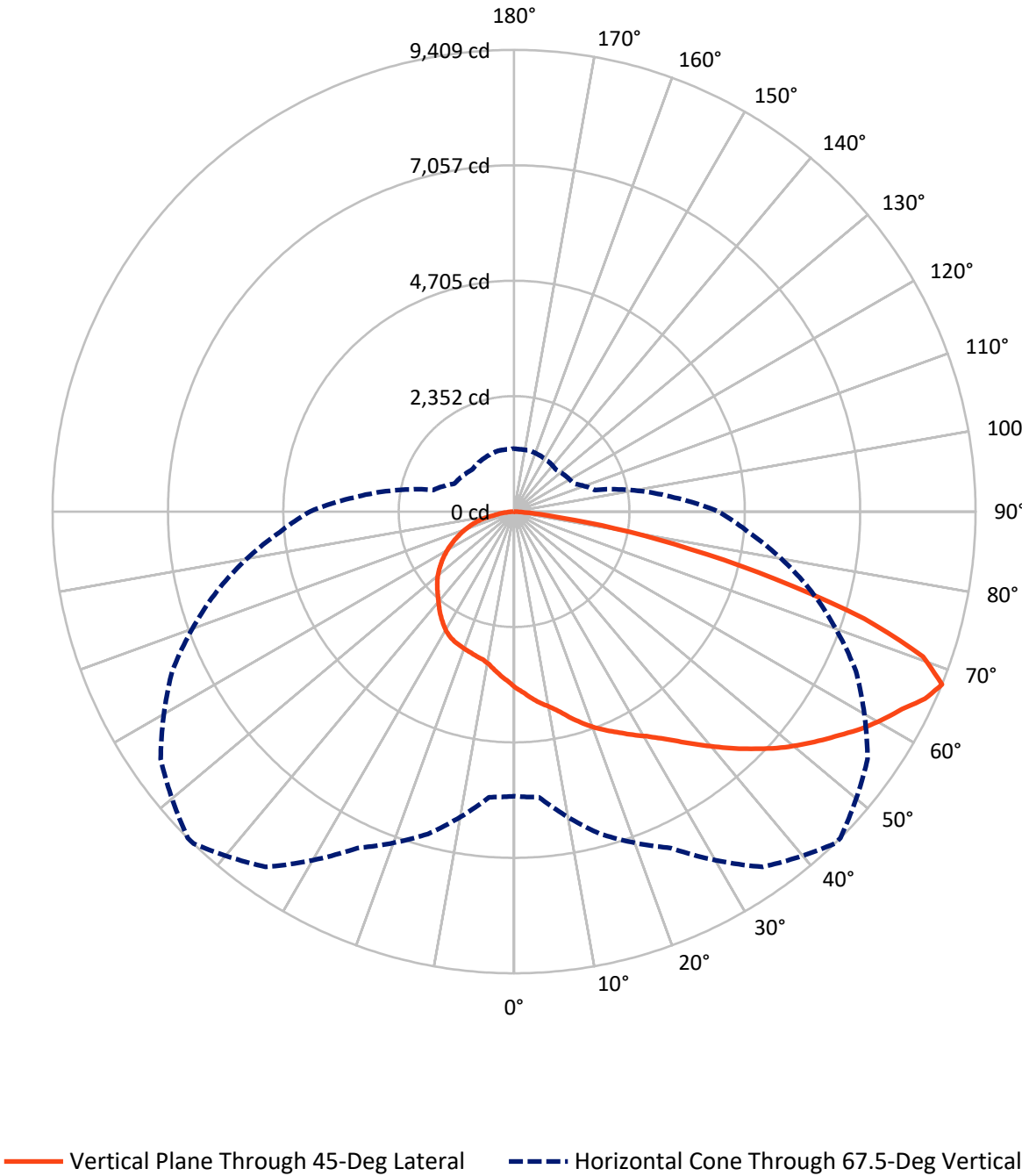


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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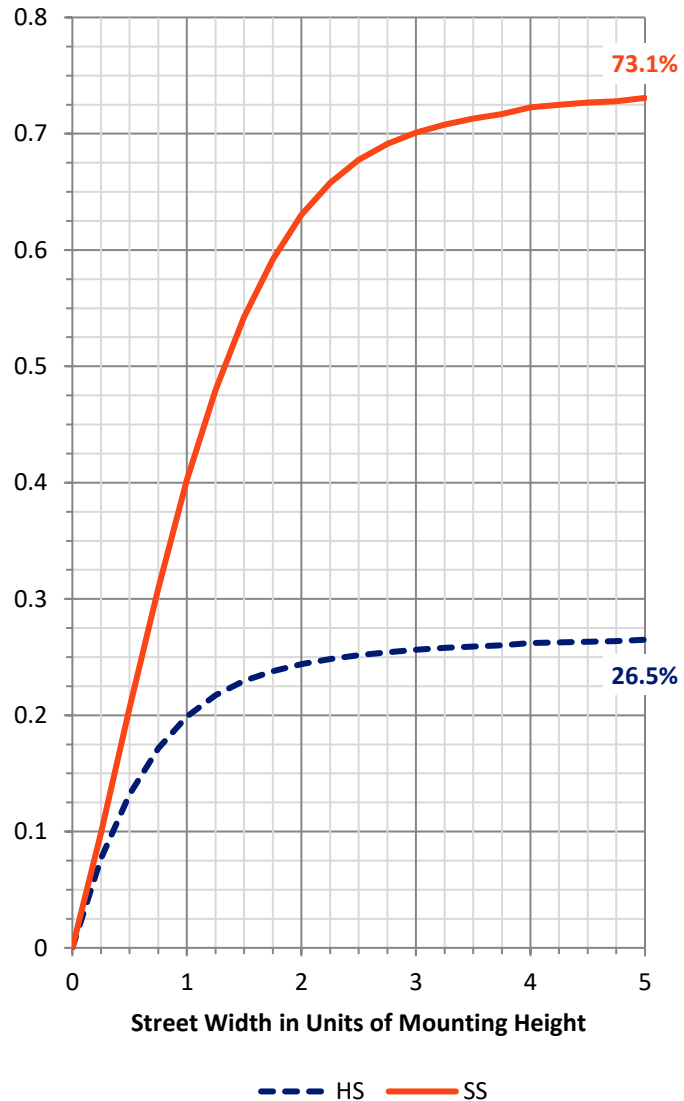
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5749.6	0.0	5749.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	15772.4	0.0	15772.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	21522.0	0.0	21522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	1.6
10°-20°	1061.6	4.9
20°-30°	1832.5	8.5
30°-40°	2702.3	12.6
40°-50°	3661.1	17.0
50°-60°	4474.8	20.8
60°-70°	4615.1	21.4
70°-80°	2527.8	11.7
80°-90°	303.0	1.4
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°	21522.0	100.0
0°-180°	21522.0	100.0

Coefficient of Utilization



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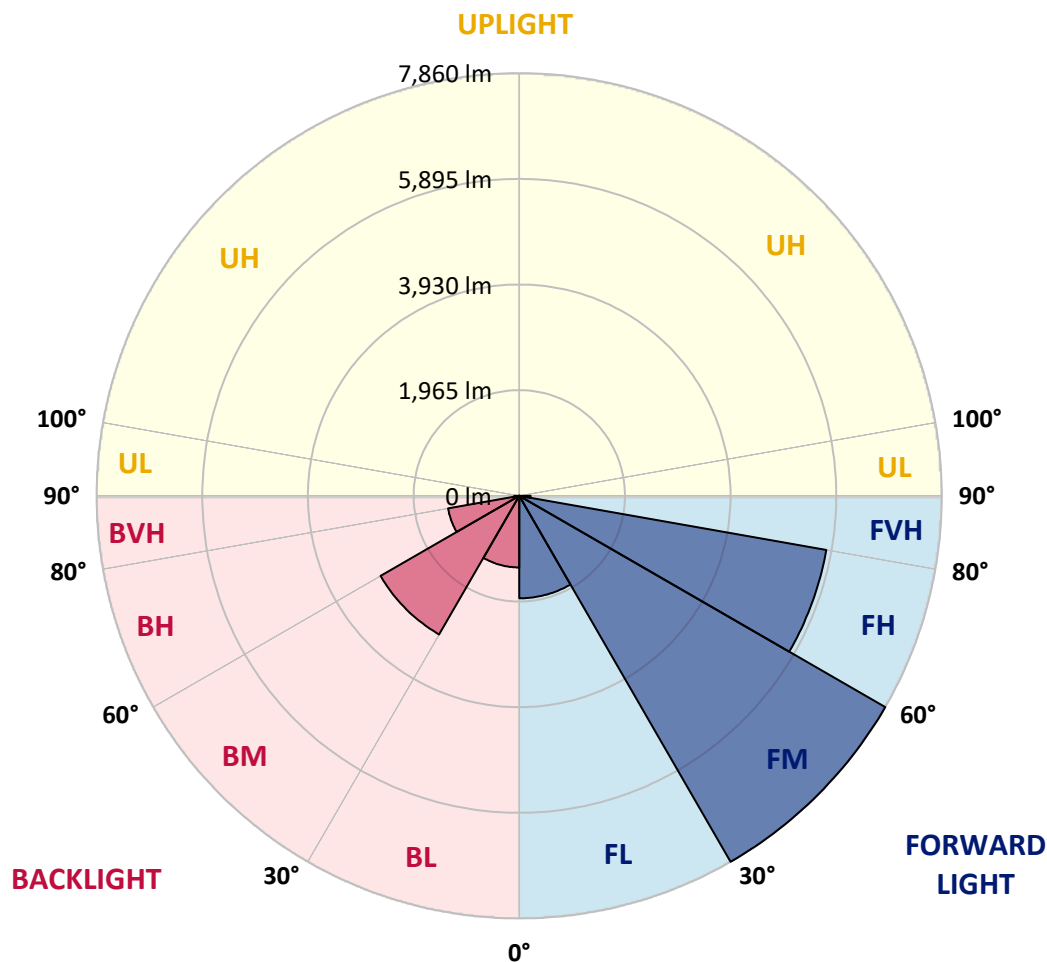
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1905.3	8.9			
FM	(30°-60°)	7860.0	36.5			
FH	(60°-80°)	5798.3	26.9			G3/7500
FVH	(80°-90°)	208.7	1.0			G2/225
BL	(0°-30°)	1332.6	6.2	B3/2500		
BM	(30°-60°)	2978.2	13.8	B3/5000		
BH	(60°-80°)	1344.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	94.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5
2.5°	3746.7	3743.4	3749.9	3727.0	3697.5	3694.3	3694.3	3674.6	3651.7	3605.8	3569.8
5°	3923.5	3917.0	3920.2	3887.5	3848.2	3828.5	3825.3	3782.7	3730.3	3658.2	3592.7
7.5°	4087.3	4080.7	4077.4	4041.4	3982.5	3949.7	3946.4	3884.2	3822.0	3710.6	3615.7
10°	4241.2	4234.6	4228.1	4179.0	4106.9	4057.8	4051.2	3972.6	3894.0	3756.5	3635.3
12.5°	4437.7	4424.6	4418.1	4359.1	4254.3	4201.9	4192.1	4087.3	3989.0	3822.0	3674.6
15°	4644.0	4634.2	4624.4	4568.7	4450.8	4382.0	4365.6	4234.6	4100.4	3907.1	3733.6
17.5°	4798.0	4788.1	4788.1	4739.0	4630.9	4552.3	4539.2	4382.0	4215.0	3985.7	3779.4
20°	4892.9	4883.1	4892.9	4863.5	4781.6	4716.1	4703.0	4529.4	4329.6	4057.8	3818.7
22.5°	4961.7	4951.9	4968.3	4955.2	4896.2	4856.9	4847.1	4676.8	4447.5	4133.1	3858.0
25°	5082.9	5082.9	5082.9	5060.0	5004.3	4991.2	4991.2	4843.8	4598.2	4231.4	3917.0
27.5°	5325.2	5312.1	5295.8	5230.3	5135.3	5132.0	5151.7	5014.1	4771.8	4359.1	3989.0
30°	5682.2	5675.7	5613.4	5475.9	5315.4	5299.0	5312.1	5197.5	4958.4	4493.4	4070.9
32.5°	6144.0	6121.1	5993.4	5787.0	5557.8	5482.4	5508.6	5387.5	5154.9	4630.9	4149.5
35°	6471.5	6478.1	6386.4	6199.7	5927.9	5728.1	5747.7	5600.3	5367.8	4784.9	4247.7
37.5°	6848.1	6871.1	6733.5	6592.7	6340.5	5999.9	6019.6	5819.8	5580.7	4978.1	4352.5
40°	7368.9	7323.0	7090.5	6923.5	6645.1	6284.8	6301.2	6065.4	5826.3	5161.5	4473.7
42.5°	7804.5	7722.6	7440.9	7228.0	6894.0	6586.1	6602.5	6330.7	6075.2	5364.5	4608.0
45°	8430.0	8204.0	7797.9	7693.1	7149.4	6880.9	6897.3	6612.3	6337.2	5580.7	4752.1
47.5°	8793.5	8433.3	8174.5	8118.9	7431.1	7185.5	7205.1	6910.4	6618.9	5826.3	4902.8
50°	8770.6	8538.1	8462.7	8325.2	7680.0	7470.4	7490.1	7218.2	6903.8	6068.7	5046.9
52.5°	8619.9	8662.5	8623.2	8394.0	7928.9	7745.5	7768.4	7522.8	7195.3	6294.7	5181.1
55°	8852.5	8882.0	8806.6	8505.3	8204.0	8020.6	8046.8	7843.8	7483.5	6494.4	5295.8
57.5°	9130.9	9026.1	8950.7	8701.8	8488.9	8318.6	8348.1	8171.3	7732.4	6654.9	5384.2
60°	9117.8	8898.3	8973.7	8714.9	8682.2	8593.7	8619.9	8439.8	7922.4	6772.8	5420.2
62.5°	8446.4	8328.5	8708.4	8619.9	8839.4	8839.4	8872.1	8603.6	8037.0	6821.9	5400.6
65°	7280.4	7287.0	7955.1	8321.9	9026.1	9176.7	9202.9	8705.1	7971.5	6677.8	5217.2
67.5°	5800.1	5842.7	6802.3	7565.4	8839.4	9406.0	9409.2	8796.8	7689.8	6271.7	4791.4
70°	4244.5	4277.2	5410.4	6337.2	7958.4	8898.3	8845.9	8538.1	7077.4	5564.3	4126.6
72.5°	2868.9	2898.4	4064.3	4866.7	6530.5	7578.5	7463.9	7545.7	6032.7	4572.0	3317.6
75°	1929.0	1965.0	2891.9	3481.4	4804.5	5754.3	5498.8	5715.0	4667.0	3461.7	2420.3
77.5°	1215.0	1238.0	1837.3	2282.7	3281.6	3917.0	3661.5	3664.8	2688.8	1863.5	1300.2
80°	772.9	779.5	1113.5	1316.6	1899.5	2354.8	2082.9	1693.2	1211.8	989.1	776.2
82.5°	448.7	438.9	664.8	743.4	903.9	894.1	740.2	700.9	530.6	494.5	396.3
85°	180.1	167.0	291.5	271.8	275.1	291.5	216.2	216.2	173.6	134.3	98.3
87.5°	36.0	36.0	39.3	36.0	36.0	39.3	29.5	29.5	26.2	26.2	26.2
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°	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5	3589.5
2.5°	3563.3	3556.7	3540.3	3497.8	3474.8	3461.7	3442.1	3435.5	3432.3	3435.5	3445.4
5°	3573.1	3550.2	3504.3	3435.5	3389.7	3360.2	3327.5	3314.4	3304.5	3304.5	3314.4
7.5°	3579.6	3543.6	3465.0	3363.5	3298.0	3252.1	3212.8	3196.5	3193.2	3203.0	3206.3
10°	3582.9	3530.5	3419.2	3291.4	3206.3	3147.3	3108.0	3098.2	3108.0	3127.7	3131.0
12.5°	3605.8	3533.8	3393.0	3242.3	3140.8	3081.8	3052.4	3052.4	3078.6	3114.6	3117.9
15°	3645.1	3556.7	3379.9	3203.0	3098.2	3045.8	3036.0	3052.4	3091.7	3147.3	3153.9
17.5°	3674.6	3569.8	3350.4	3150.6	3042.5	3009.8	3026.2	3065.5	3121.1	3196.5	3203.0
20°	3694.3	3569.8	3307.8	3088.4	2986.9	2980.3	3026.2	3088.4	3147.3	3235.8	3245.6
22.5°	3713.9	3563.3	3258.7	3013.1	2924.6	2944.3	3029.4	3108.0	3167.0	3262.0	3278.3
25°	3749.9	3573.1	3209.6	2937.7	2859.1	2914.8	3026.2	3121.1	3183.4	3281.6	3307.8
27.5°	3799.1	3596.0	3173.5	2868.9	2793.6	2868.9	3003.2	3117.9	3183.4	3278.3	3307.8
30°	3851.5	3622.2	3131.0	2793.6	2718.3	2803.4	2954.1	3081.8	3157.2	3245.6	3281.6
32.5°	3907.1	3651.7	3094.9	2711.7	2626.6	2715.0	2882.0	3026.2	3108.0	3189.9	3229.2
35°	3982.5	3704.1	3075.3	2646.2	2544.7	2623.3	2790.3	2954.1	3042.5	3117.9	3163.7
37.5°	4074.2	3769.6	3065.5	2580.7	2456.3	2521.8	2692.1	2865.7	2960.7	3022.9	3065.5
40°	4179.0	3851.5	3062.2	2518.5	2367.9	2417.0	2590.6	2764.1	2855.8	2905.0	2941.0
42.5°	4296.9	3943.2	3055.6	2456.3	2279.4	2318.7	2492.3	2662.6	2741.2	2783.8	2816.5
45°	4421.3	4034.9	3042.5	2381.0	2184.5	2230.3	2390.8	2541.4	2623.3	2659.3	2695.4
47.5°	4545.8	4126.6	3016.3	2295.8	2099.3	2141.9	2282.7	2413.7	2479.2	2512.0	2548.0
50°	4667.0	4208.4	2954.1	2197.6	2010.9	2050.2	2158.3	2246.7	2295.8	2322.0	2358.0
52.5°	4775.0	4264.1	2865.7	2082.9	1922.5	1942.1	2014.2	2089.5	2128.8	2132.1	2164.8
55°	4866.7	4293.6	2737.9	1965.0	1827.5	1830.8	1870.1	1929.0	1945.4	1932.3	1955.2
57.5°	4919.1	4277.2	2597.1	1843.9	1729.2	1716.1	1745.6	1775.1	1778.4	1745.6	1768.5
60°	4932.2	4201.9	2413.7	1722.7	1631.0	1595.0	1604.8	1598.2	1591.7	1578.6	1598.2
62.5°	4866.7	4041.4	2210.7	1604.8	1526.2	1470.5	1467.2	1464.0	1473.8	1477.1	1480.3
65°	4627.7	3740.1	1968.3	1483.6	1414.8	1339.5	1336.2	1375.5	1388.6	1369.0	1375.5
67.5°	4165.9	3278.3	1703.0	1342.8	1274.0	1208.5	1234.7	1257.6	1280.5	1274.0	1280.5
70°	3510.9	2692.1	1460.7	1185.6	1120.1	1084.0	1113.5	1133.2	1136.4	1129.9	1136.4
72.5°	2760.9	2102.6	1234.7	1025.1	966.1	949.8	985.8	1002.2	1031.6	1044.7	1048.0
75°	1994.5	1552.4	1012.0	851.5	802.4	802.4	835.1	864.6	890.8	874.4	864.6
77.5°	1113.5	926.8	727.1	586.2	596.1	641.9	655.0	687.8	714.0	710.7	704.1
80°	674.7	579.7	491.3	379.9	376.6	412.7	497.8	553.5	566.6	537.1	533.8
82.5°	350.4	304.6	262.0	212.9	235.8	275.1	288.2	347.2	383.2	370.1	386.5
85°	88.4	85.2	95.0	98.3	121.2	134.3	147.4	173.6	114.6	55.7	55.7
87.5°	26.2	26.2	32.8	32.8	42.6	52.4	49.1	49.1	26.2	3.3	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)