

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: P841170

Luminaire Tested: **ARCH4-140-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841170
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: ARCH4-140-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22811 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 IV - Short
BUG Rating: B3 - U0 - G3

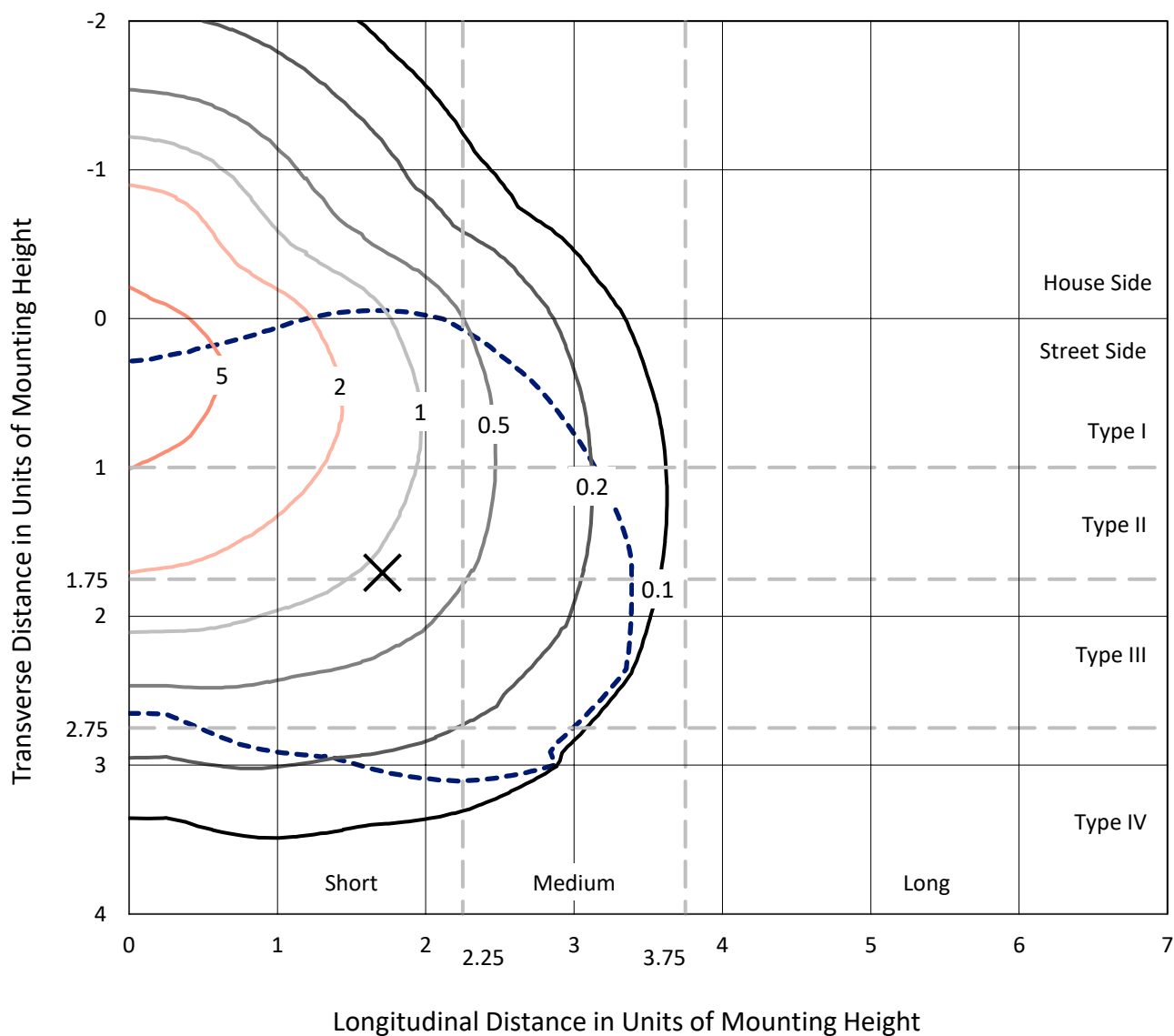
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

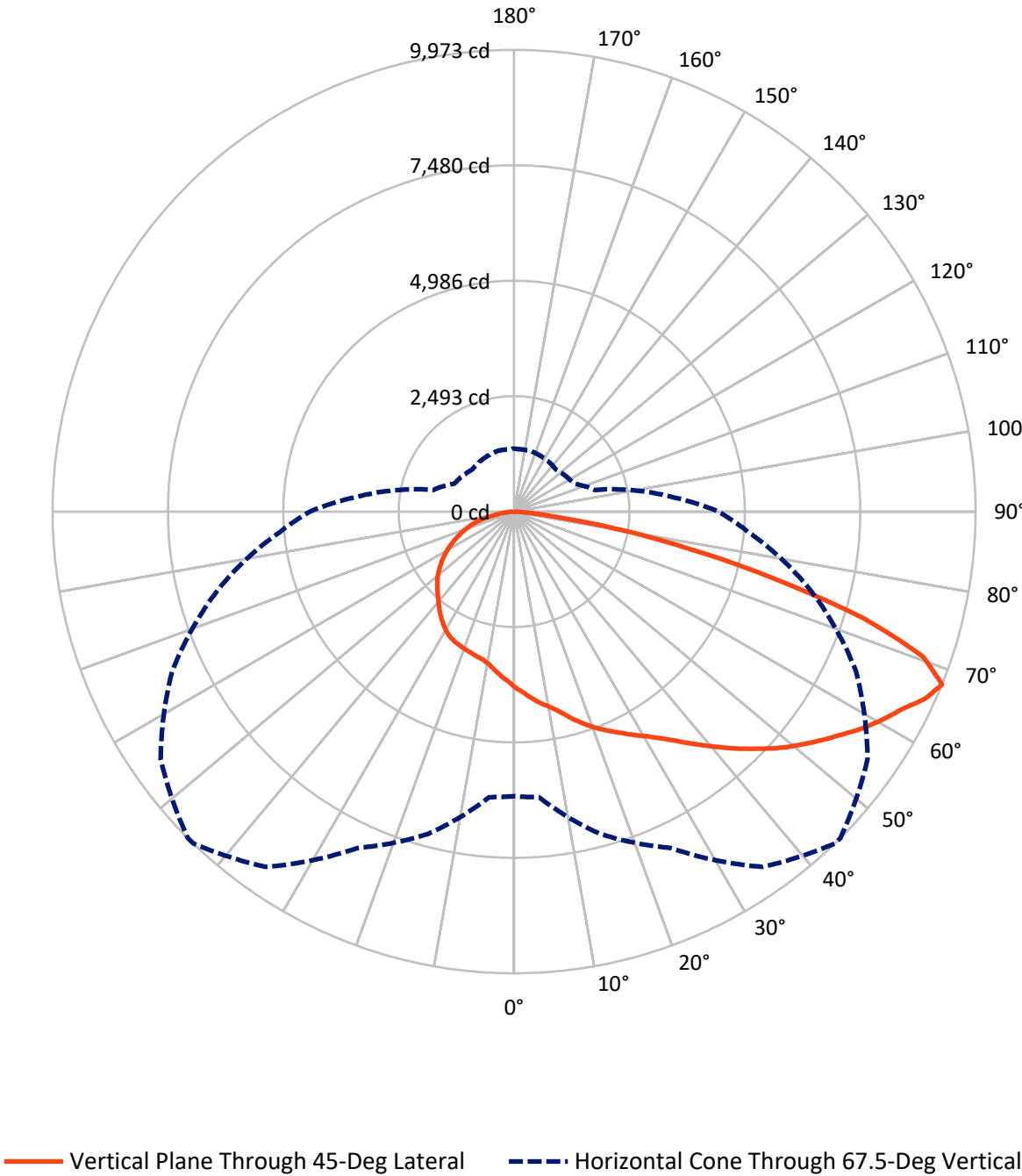
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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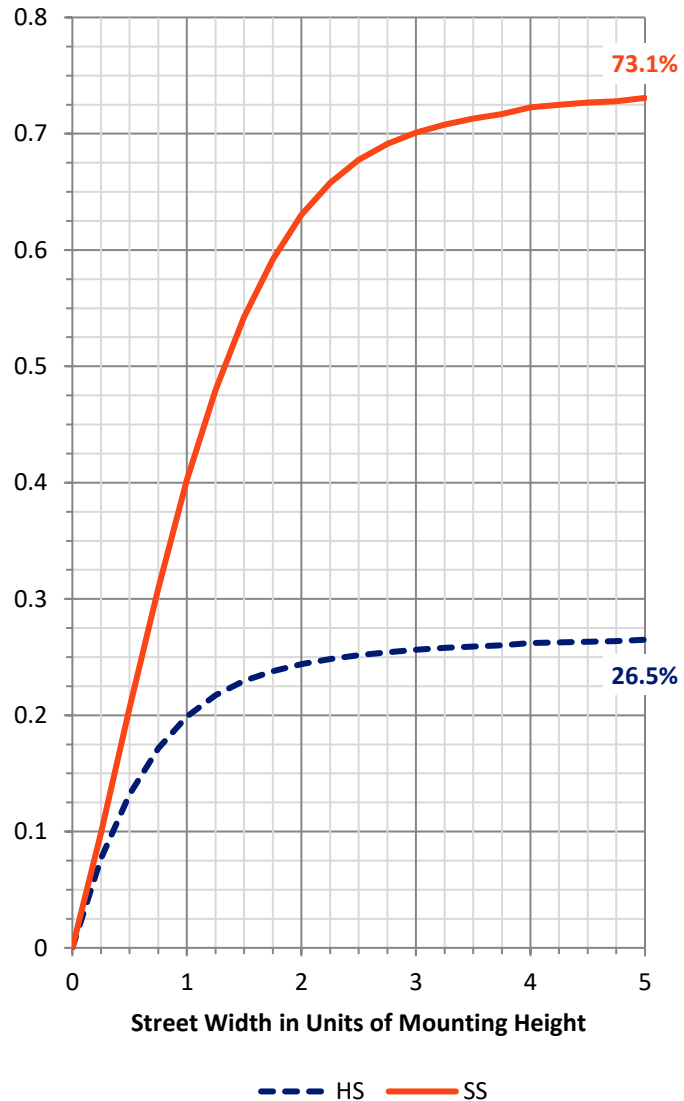
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6094.0	0.0	6094.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	16717.0	0.0	16717.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	22811.0	0.0	22811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	1.6
10°-20°	1125.2	4.9
20°-30°	1942.3	8.5
30°-40°	2864.2	12.6
40°-50°	3880.4	17.0
50°-60°	4742.8	20.8
60°-70°	4891.5	21.4
70°-80°	2679.2	11.7
80°-90°	321.1	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°	22811.0	100.0
0°-180°	22811.0	100.0

Coefficient of Utilization



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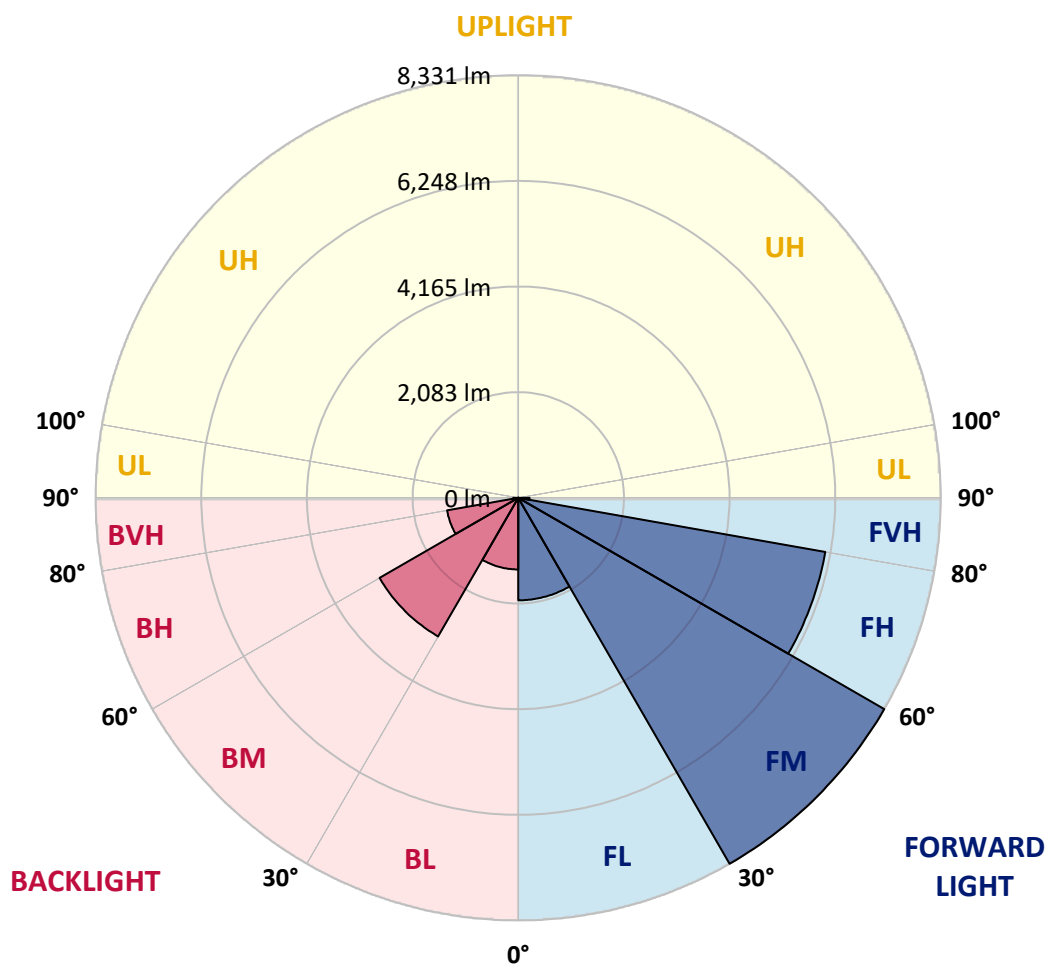
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2019.4	8.9			
FM	(30°-60°)	8330.8	36.5			
FH	(60°-80°)	6145.6	26.9			G3/7500
FVH	(80°-90°)	221.2	1.0			G2/225
BL	(0°-30°)	1412.4	6.2	B3/2500		
BM	(30°-60°)	3156.6	13.8	B3/5000		
BH	(60°-80°)	1425.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	99.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4
2.5°	3971.1	3967.6	3974.5	3950.2	3919.0	3915.5	3915.5	3894.7	3870.4	3821.8	3783.6
5°	4158.5	4151.6	4155.0	4120.3	4078.7	4057.8	4054.4	4009.2	3953.7	3877.3	3807.9
7.5°	4332.1	4325.1	4321.7	4283.5	4221.0	4186.3	4182.8	4116.9	4050.9	3932.9	3832.2
10°	4495.2	4488.3	4481.3	4429.3	4352.9	4300.8	4293.9	4210.6	4127.3	3981.5	3853.0
12.5°	4703.5	4689.6	4682.7	4620.2	4509.1	4453.6	4443.1	4332.1	4227.9	4050.9	3894.7
15°	4922.2	4911.8	4901.3	4842.3	4717.4	4644.5	4627.1	4488.3	4346.0	4141.1	3957.2
17.5°	5085.3	5074.9	5074.9	5022.8	4908.3	4825.0	4811.1	4644.5	4467.4	4224.5	4005.8
20°	5186.0	5175.6	5186.0	5154.7	5068.0	4998.5	4984.7	4800.7	4588.9	4300.8	4047.4
22.5°	5258.9	5248.5	5265.8	5251.9	5189.5	5147.8	5137.4	4956.9	4713.9	4380.7	4089.1
25°	5387.3	5387.3	5387.3	5363.0	5304.0	5290.1	5290.1	5133.9	4873.6	4484.8	4151.6
27.5°	5644.2	5630.3	5612.9	5543.5	5442.9	5439.4	5460.2	5314.4	5057.5	4620.2	4227.9
30°	6022.5	6015.6	5949.6	5803.9	5633.8	5616.4	5630.3	5508.8	5255.4	4762.5	4314.7
32.5°	6512.0	6487.7	6352.3	6133.6	5890.6	5810.8	5838.6	5710.1	5463.7	4908.3	4398.0
35°	6859.1	6866.0	6768.9	6571.0	6282.9	6071.1	6092.0	5935.8	5689.3	5071.4	4502.2
37.5°	7258.3	7282.6	7136.8	6987.5	6720.3	6359.3	6380.1	6168.3	5914.9	5276.2	4613.2
40°	7810.2	7761.6	7515.2	7338.1	7043.1	6661.2	6678.6	6428.7	6175.3	5470.6	4741.7
42.5°	8271.9	8185.1	7886.6	7661.0	7306.9	6980.6	6998.0	6709.8	6439.1	5685.8	4884.0
45°	8934.9	8695.4	8264.9	8153.9	7577.6	7293.0	7310.4	7008.4	6716.8	5914.9	5036.7
47.5°	9320.2	8938.4	8664.1	8605.1	7876.2	7615.8	7636.7	7324.2	7015.3	6175.3	5196.4
50°	9295.9	9049.4	8969.6	8823.8	8140.0	7917.8	7938.6	7650.5	7317.3	6432.1	5349.1
52.5°	9136.2	9181.3	9139.7	8896.7	8403.8	8209.4	8233.7	7973.4	7626.2	6671.7	5491.4
55°	9382.7	9413.9	9334.1	9014.7	8695.4	8501.0	8528.8	8313.5	7931.7	6883.4	5612.9
57.5°	9677.7	9566.6	9486.8	9223.0	8997.4	8816.9	8848.1	8660.7	8195.5	7053.5	5706.7
60°	9663.8	9431.3	9511.1	9236.9	9202.2	9108.4	9136.2	8945.3	8396.8	7178.5	5744.8
62.5°	8952.2	8827.3	9229.9	9136.2	9368.8	9368.8	9403.5	9118.9	8518.3	7230.5	5724.0
65°	7716.5	7723.4	8431.6	8820.3	9566.6	9726.3	9754.1	9226.5	8448.9	7077.8	5529.6
67.5°	6147.5	6192.6	7209.7	8018.5	9368.8	9969.3	9972.8	9323.7	8150.4	6647.4	5078.4
70°	4498.7	4533.4	5734.4	6716.8	8435.0	9431.3	9375.7	9049.4	7501.3	5897.6	4373.7
72.5°	3040.8	3072.0	4307.8	5158.2	6921.6	8032.4	7910.9	7997.7	6394.0	4845.8	3516.3
75°	2044.5	2082.7	3065.1	3689.9	5092.3	6098.9	5828.2	6057.3	4946.5	3669.1	2565.2
77.5°	1287.8	1312.1	1947.3	2419.4	3478.1	4151.6	3880.8	3884.3	2849.9	1975.1	1378.1
80°	819.2	826.1	1180.2	1395.4	2013.3	2495.8	2207.7	1794.6	1284.3	1048.3	822.7
82.5°	475.6	465.1	704.7	788.0	958.1	947.6	784.5	742.8	562.3	524.2	420.0
85°	190.9	177.0	308.9	288.1	291.6	308.9	229.1	229.1	184.0	142.3	104.1
87.5°	38.2	38.2	41.7	38.2	38.2	41.7	31.2	31.2	27.8	27.8	27.8
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°	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4	3804.4
2.5°	3776.7	3769.7	3752.4	3707.2	3682.9	3669.1	3648.2	3641.3	3637.8	3641.3	3651.7
5°	3787.1	3762.8	3714.2	3641.3	3592.7	3561.5	3526.7	3512.9	3502.4	3502.4	3512.9
7.5°	3794.0	3755.8	3672.5	3564.9	3495.5	3446.9	3405.3	3387.9	3384.4	3394.8	3398.3
10°	3797.5	3742.0	3623.9	3488.6	3398.3	3335.8	3294.2	3283.8	3294.2	3315.0	3318.5
12.5°	3821.8	3745.4	3596.2	3436.5	3328.9	3266.4	3235.2	3235.2	3262.9	3301.1	3304.6
15°	3863.5	3769.7	3582.3	3394.8	3283.8	3228.2	3217.8	3235.2	3276.8	3335.8	3342.8
17.5°	3894.7	3783.6	3551.0	3339.3	3224.8	3190.0	3207.4	3249.0	3308.1	3387.9	3394.8
20°	3915.5	3783.6	3505.9	3273.3	3165.7	3158.8	3207.4	3273.3	3335.8	3429.6	3440.0
22.5°	3936.3	3776.7	3453.9	3193.5	3099.8	3120.6	3210.9	3294.2	3356.7	3457.3	3474.7
25°	3974.5	3787.1	3401.8	3113.7	3030.4	3089.4	3207.4	3308.1	3374.0	3478.1	3505.9
27.5°	4026.6	3811.4	3363.6	3040.8	2960.9	3040.8	3183.1	3304.6	3374.0	3474.7	3505.9
30°	4082.1	3839.2	3318.5	2960.9	2881.1	2971.4	3131.0	3266.4	3346.2	3440.0	3478.1
32.5°	4141.1	3870.4	3280.3	2874.2	2783.9	2877.6	3054.7	3207.4	3294.2	3381.0	3422.6
35°	4221.0	3925.9	3259.5	2804.7	2697.1	2780.4	2957.5	3131.0	3224.8	3304.6	3353.2
37.5°	4318.2	3995.4	3249.0	2735.3	2603.4	2672.8	2853.3	3037.3	3138.0	3203.9	3249.0
40°	4429.3	4082.1	3245.6	2669.4	2509.7	2561.8	2745.7	2929.7	3026.9	3079.0	3117.1
42.5°	4554.2	4179.3	3238.6	2603.4	2416.0	2457.6	2641.6	2822.1	2905.4	2950.5	2985.2
45°	4686.1	4276.5	3224.8	2523.6	2315.3	2363.9	2534.0	2693.7	2780.4	2818.6	2856.8
47.5°	4818.0	4373.7	3197.0	2433.3	2225.0	2270.2	2419.4	2558.3	2627.7	2662.4	2700.6
50°	4946.5	4460.5	3131.0	2329.2	2131.3	2173.0	2287.5	2381.2	2433.3	2461.1	2499.3
52.5°	5061.0	4519.5	3037.3	2207.7	2037.6	2058.4	2134.8	2214.6	2256.3	2259.8	2294.5
55°	5158.2	4550.8	2901.9	2082.7	1936.9	1940.4	1982.1	2044.5	2061.9	2048.0	2072.3
57.5°	5213.8	4533.4	2752.7	1954.3	1832.8	1818.9	1850.2	1881.4	1884.9	1850.2	1874.5
60°	5227.6	4453.6	2558.3	1825.9	1728.7	1690.5	1700.9	1693.9	1687.0	1673.1	1693.9
62.5°	5158.2	4283.5	2343.1	1700.9	1617.6	1558.6	1555.1	1551.6	1562.0	1565.5	1569.0
65°	4904.8	3964.1	2086.2	1572.5	1499.6	1419.7	1416.3	1457.9	1471.8	1451.0	1457.9
67.5°	4415.4	3474.7	1805.0	1423.2	1350.3	1280.9	1308.6	1332.9	1357.2	1350.3	1357.2
70°	3721.1	2853.3	1548.2	1256.6	1187.2	1149.0	1180.2	1201.0	1204.5	1197.6	1204.5
72.5°	2926.2	2228.5	1308.6	1086.5	1024.0	1006.6	1044.8	1062.2	1093.4	1107.3	1110.8
75°	2114.0	1645.4	1072.6	902.5	850.4	850.4	885.2	916.4	944.2	926.8	916.4
77.5°	1180.2	982.4	770.6	621.3	631.8	680.4	694.2	729.0	756.7	753.3	746.3
80°	715.1	614.4	520.7	402.7	399.2	437.4	527.6	586.6	600.5	569.3	565.8
82.5°	371.4	322.8	277.7	225.6	249.9	291.6	305.5	367.9	406.1	392.2	409.6
85°	93.7	90.3	100.7	104.1	128.4	142.3	156.2	184.0	121.5	59.0	59.0
87.5°	27.8	27.8	34.7	34.7	45.1	55.5	52.1	52.1	27.8	3.5	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)