

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: P841085

Luminaire Tested: **ARCH4-130-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21336 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - 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



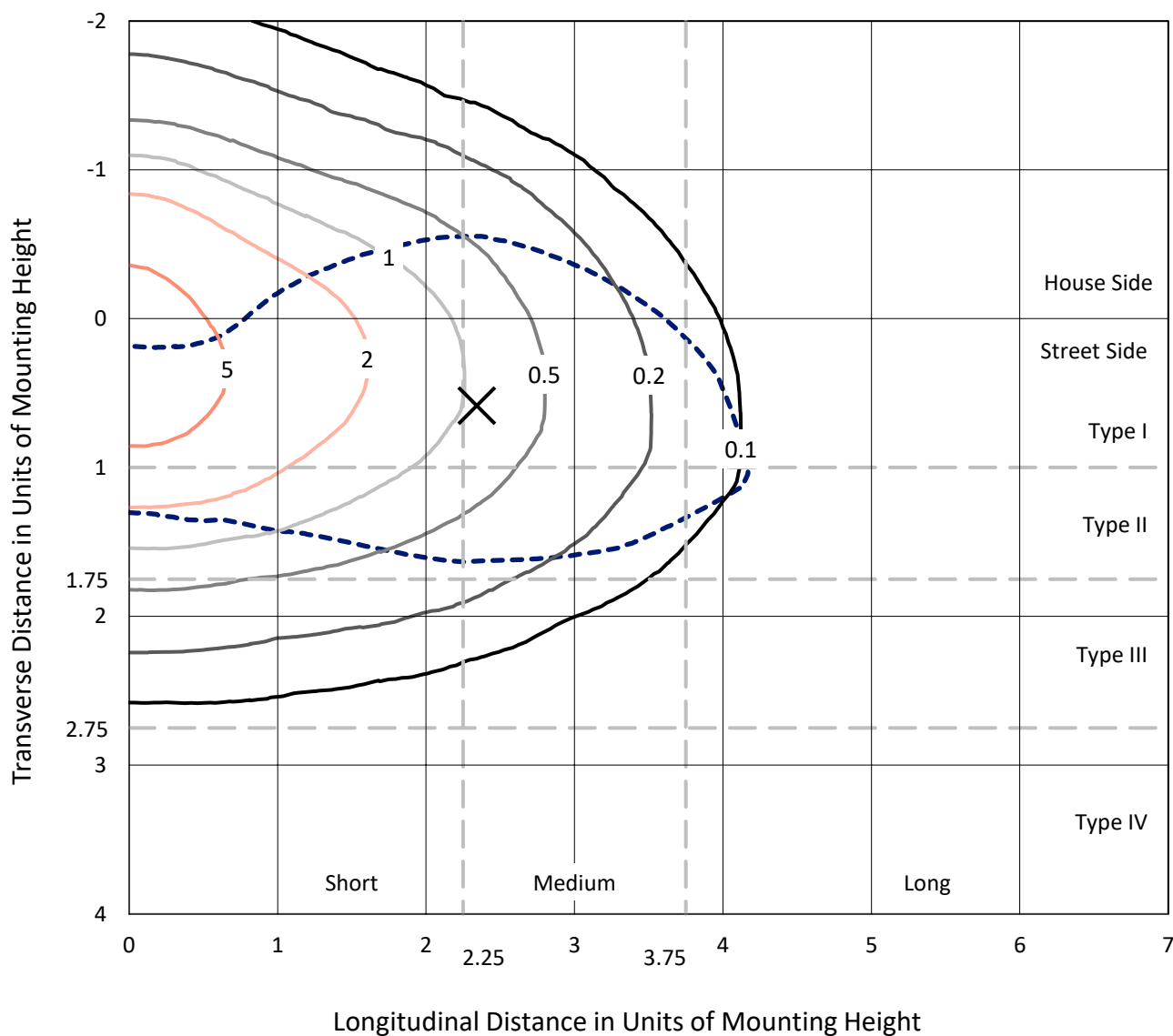
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

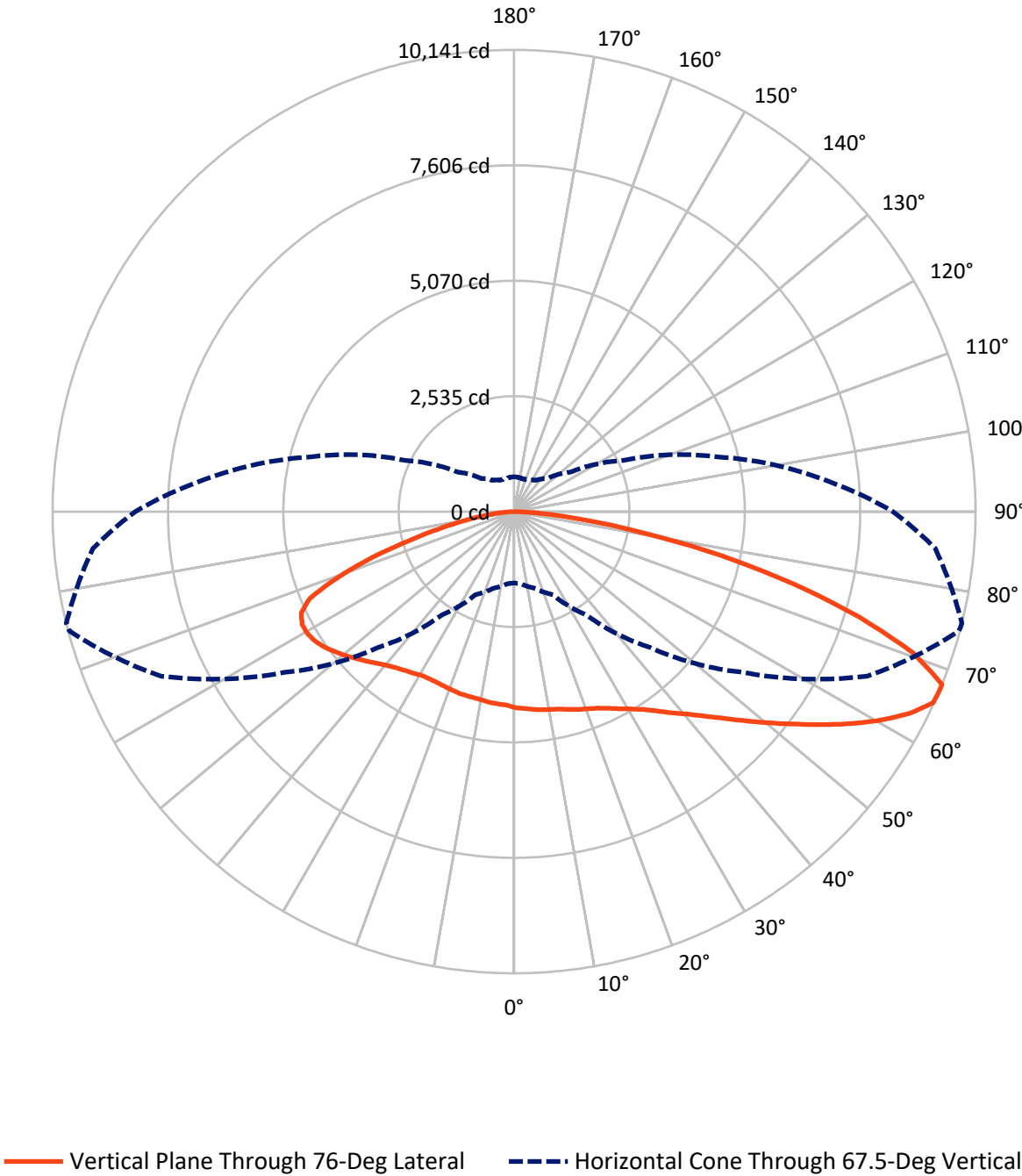
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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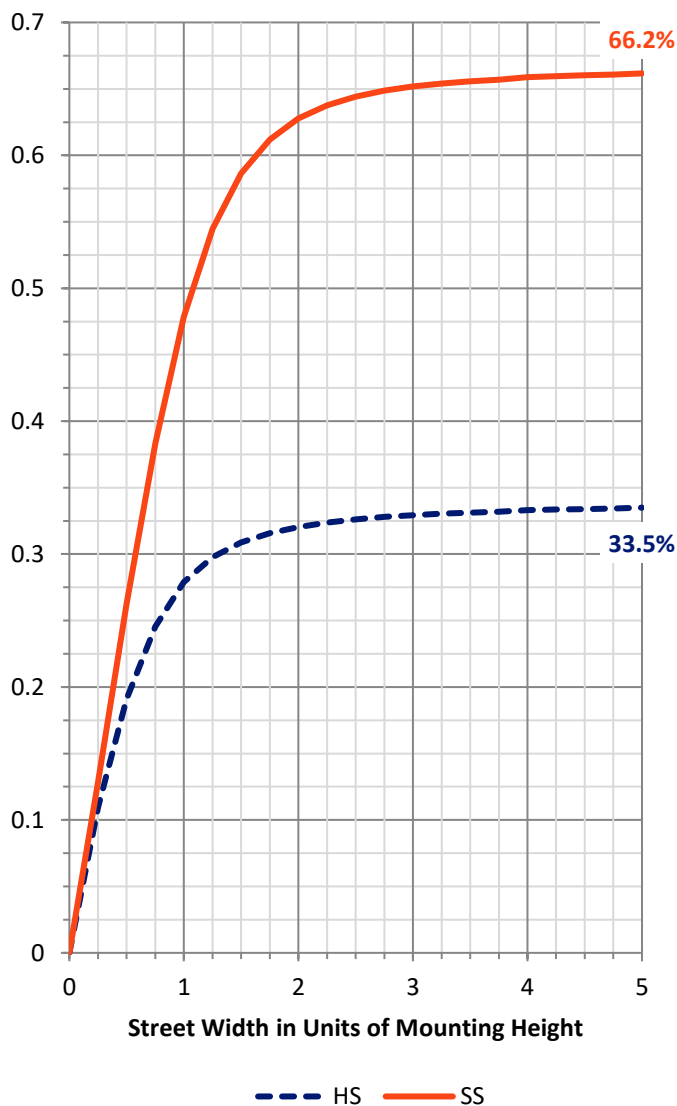
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7209.5	0.0	7209.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	14126.5	0.0	14126.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	21336.0	0.0	21336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.6	1.9
10°-20°	1270.5	6.0
20°-30°	2158.7	10.1
30°-40°	3071.5	14.4
40°-50°	3879.2	18.2
50°-60°	4199.9	19.7
60°-70°	3906.4	18.3
70°-80°	2098.1	9.8
80°-90°	336.2	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°	21336.0	100.0
0°-180°	21336.0	100.0

Coefficient of Utilization



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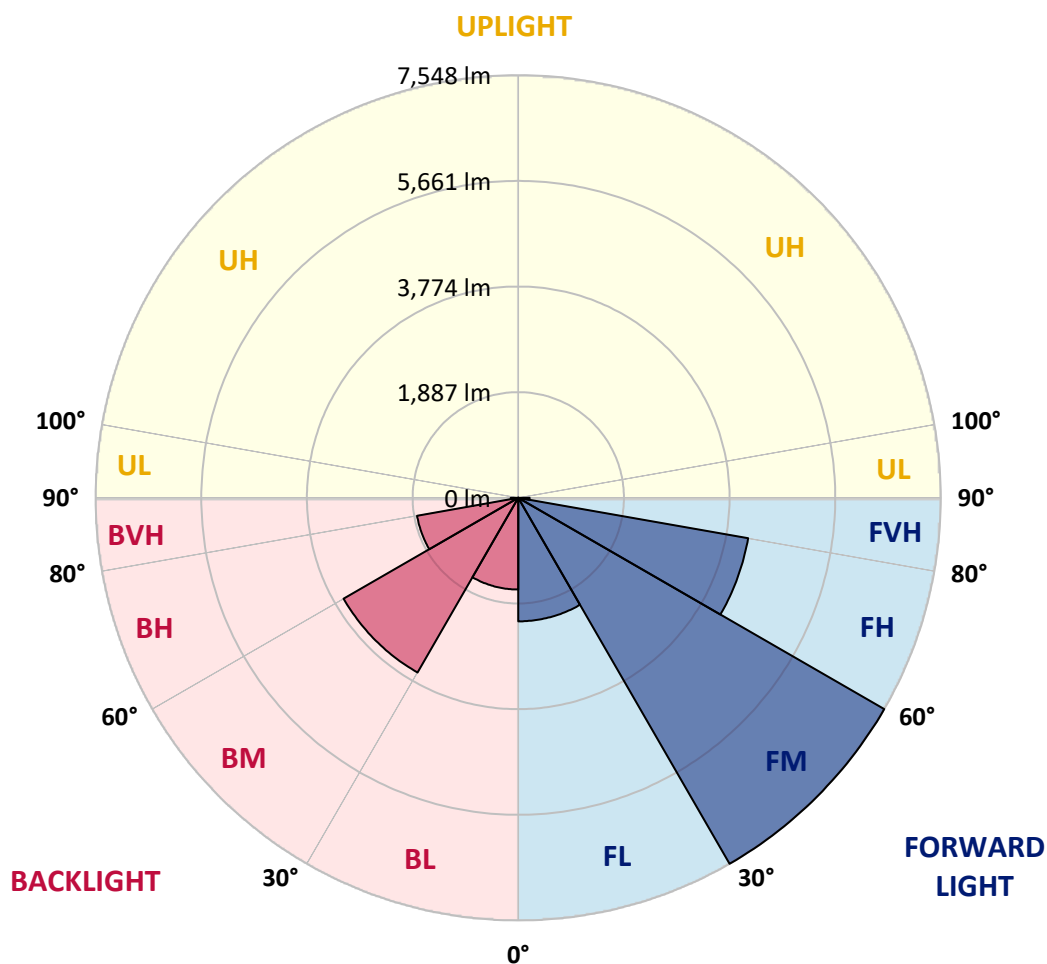
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2206.4	10.3			
FM	(30°-60°)	7547.9	35.4			
FH	(60°-80°)	4168.9	19.5			G2/5000
FVH	(80°-90°)	203.4	1.0			G2/225
BL	(0°-30°)	1638.4	7.7	B3/2500		
BM	(30°-60°)	3602.7	16.9	B3/5000		
BH	(60°-80°)	1835.6	8.6	B3/2500		G3/2500
BVH	(80°-90°)	132.8	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°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
2.5°	4440.5	4432.6	4400.9	4404.9	4404.9	4400.9	4353.4	4333.6	4333.6	4329.6	4286.1
5°	4599.0	4587.1	4551.5	4543.5	4527.7	4507.9	4432.6	4389.0	4369.2	4365.3	4305.9
7.5°	4785.2	4769.3	4725.8	4702.0	4662.4	4610.9	4515.8	4448.5	4400.9	4397.0	4313.8
10°	4971.4	4955.5	4904.0	4860.4	4805.0	4721.8	4599.0	4500.0	4424.7	4416.8	4317.7
12.5°	5193.2	5177.3	5114.0	5058.5	4975.3	4864.4	4702.0	4567.3	4464.3	4452.4	4329.6
15°	5426.9	5403.1	5339.7	5276.4	5173.4	5030.8	4836.7	4658.4	4527.7	4507.9	4365.3
17.5°	5621.0	5589.3	5537.8	5474.4	5359.6	5193.2	4971.4	4749.5	4587.1	4571.3	4400.9
20°	5787.4	5763.6	5708.1	5648.7	5525.9	5343.7	5098.1	4840.6	4642.6	4622.8	4428.7
22.5°	5945.8	5914.1	5882.4	5838.9	5704.2	5502.2	5244.7	4951.5	4713.9	4690.1	4464.3
25°	6128.0	6092.4	6080.5	6056.7	5898.3	5692.3	5422.9	5090.2	4812.9	4785.2	4527.7
27.5°	6353.8	6314.2	6290.4	6290.4	6100.3	5886.4	5613.1	5252.6	4927.8	4904.0	4606.9
30°	6591.5	6544.0	6508.3	6508.3	6294.4	6080.5	5799.2	5415.0	5058.5	5030.8	4709.9
32.5°	6801.4	6753.9	6714.3	6710.3	6488.5	6274.6	5993.4	5593.3	5216.9	5181.3	4836.7
35°	6963.9	6920.3	6884.6	6892.6	6682.6	6472.7	6211.2	5830.9	5415.0	5375.4	5003.0
37.5°	7062.9	7047.0	7027.2	7055.0	6860.9	6662.8	6437.0	6060.7	5640.8	5605.1	5209.0
40°	7114.4	7102.5	7181.7	7217.4	7011.4	6833.1	6662.8	6298.4	5886.4	5846.8	5446.7
42.5°	7189.6	7288.7	7320.4	7312.4	7122.3	6963.9	6868.8	6555.8	6175.6	6139.9	5731.9
45°	6920.3	6896.5	7070.8	7165.9	7130.2	7047.0	7062.9	6864.8	6512.3	6476.6	6060.7
47.5°	6559.8	6528.1	6627.1	6860.9	6999.5	7078.7	7237.2	7185.7	6900.5	6868.8	6444.9
50°	5799.2	5842.8	6211.2	6524.2	6797.5	7070.8	7383.7	7530.3	7328.3	7296.6	6856.9
52.5°	4955.5	4999.1	5383.3	6104.3	6551.9	7011.4	7490.7	7874.9	7791.8	7756.1	7296.6
55°	4341.5	4436.6	4872.3	5395.2	6203.3	6825.2	7554.1	8227.5	8290.9	8259.2	7775.9
57.5°	3731.5	3802.8	4131.6	4595.0	5727.9	6500.4	7550.1	8556.3	8813.8	8782.1	8263.1
60°	3014.5	3105.6	3367.1	3866.2	5094.1	6112.2	7439.2	8813.8	9316.8	9293.1	8734.5
62.5°	2523.3	2551.0	2737.2	3169.0	4278.1	5621.0	7189.6	8952.4	9772.4	9756.5	9158.4
65°	2032.1	2036.1	2206.4	2566.9	3489.8	5011.0	6765.8	8900.9	10117.0	10124.9	9463.4
67.5°	1568.6	1588.5	1742.9	2016.3	2772.9	4218.7	6159.7	8552.3	10121.0	10140.8	9289.1
70°	1085.4	1101.2	1334.9	1600.3	2143.0	3363.1	5339.7	7629.3	9289.1	9304.9	8326.5
72.5°	764.5	772.4	1022.0	1279.5	1675.6	2535.2	4028.6	6310.2	7918.5	7930.4	7003.5
75°	570.4	578.3	720.9	970.5	1283.4	1754.8	2753.1	4832.7	6326.1	6326.1	5529.9
77.5°	404.0	408.0	467.4	669.4	855.6	1184.4	1655.8	3165.0	4642.6	4650.5	4028.6
80°	273.3	277.3	305.0	451.6	534.8	641.7	899.2	1659.8	2927.4	2939.2	2559.0
82.5°	142.6	150.5	170.3	229.8	269.4	356.5	463.5	843.7	1620.1	1651.8	1537.0
85°	55.5	55.5	63.4	75.3	99.0	138.6	213.9	320.9	732.8	756.6	677.4
87.5°	19.8	19.8	23.8	23.8	27.7	31.7	35.7	47.5	83.2	83.2	79.2
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°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
2.5°	4270.2	4270.2	4250.4	4258.3	4254.4	4246.4	4238.5	4250.4	4238.5	4210.8	4206.8
5°	4278.1	4270.2	4238.5	4234.6	4222.7	4206.8	4187.0	4194.9	4175.1	4151.4	4147.4
7.5°	4282.1	4266.3	4222.7	4206.8	4183.1	4151.4	4119.7	4119.7	4092.0	4068.2	4064.2
10°	4274.2	4254.4	4194.9	4163.3	4119.7	4072.2	4028.6	4016.7	3985.0	3957.3	3957.3
12.5°	4278.1	4250.4	4175.1	4123.6	4064.2	4004.8	3949.4	3933.5	3905.8	3878.1	3874.1
15°	4301.9	4262.3	4167.2	4099.9	4012.7	3945.4	3886.0	3874.1	3850.3	3830.5	3830.5
17.5°	4325.7	4274.2	4155.3	4060.3	3953.3	3878.1	3822.6	3822.6	3806.7	3794.9	3794.9
20°	4337.6	4278.1	4131.6	4004.8	3882.0	3802.8	3751.3	3759.2	3755.3	3751.3	3751.3
22.5°	4365.3	4286.1	4111.8	3953.3	3806.7	3723.6	3676.0	3687.9	3683.9	3683.9	3687.9
25°	4408.9	4305.9	4095.9	3905.8	3735.4	3644.3	3592.8	3600.8	3600.8	3600.8	3600.8
27.5°	4468.3	4345.5	4092.0	3862.2	3664.1	3561.2	3497.8	3497.8	3481.9	3485.9	3489.8
30°	4559.4	4420.7	4099.9	3822.6	3588.9	3458.2	3382.9	3371.0	3367.1	3375.0	3378.9
32.5°	4670.3	4523.7	4147.4	3794.9	3509.7	3343.3	3248.2	3244.3	3232.4	3232.4	3232.4
35°	4808.9	4622.8	4191.0	3790.9	3430.4	3220.5	3117.5	3105.6	3077.9	3066.0	3066.0
37.5°	4987.2	4777.3	4242.5	3763.2	3363.1	3101.6	2978.8	2939.2	2907.5	2903.6	2903.6
40°	5205.1	4951.5	4317.7	3731.5	3291.8	2978.8	2816.4	2749.1	2753.1	2768.9	2768.9
42.5°	5462.5	5165.5	4412.8	3715.6	3188.8	2852.1	2626.3	2547.1	2574.8	2590.6	2594.6
45°	5763.6	5419.0	4519.8	3695.8	3093.7	2709.5	2424.3	2325.2	2337.1	2341.1	2345.1
47.5°	6112.2	5700.2	4630.7	3680.0	2986.8	2531.2	2202.4	2071.7	2067.8	2044.0	2051.9
50°	6476.6	5997.3	4745.6	3652.3	2856.1	2321.3	1968.7	1814.2	1782.6	1746.9	1750.9
52.5°	6864.8	6302.3	4852.5	3608.7	2693.6	2107.4	1746.9	1580.5	1517.2	1477.5	1485.5
55°	7292.6	6615.3	4955.5	3541.3	2523.3	1893.5	1548.8	1378.5	1299.3	1267.6	1271.6
57.5°	7684.8	6916.3	5030.8	3458.2	2337.1	1699.4	1374.5	1208.2	1156.7	1152.7	1156.7
60°	8065.1	7169.8	5062.5	3343.3	2147.0	1521.1	1212.1	1085.4	1049.7	1069.5	1073.5
62.5°	8385.9	7332.2	5046.6	3188.8	1952.9	1350.8	1081.4	990.3	966.5	1006.2	1010.1
65°	8572.1	7383.7	4935.7	2967.0	1742.9	1184.4	958.6	859.6	847.7	871.5	883.4
67.5°	8326.5	7062.9	4634.6	2662.0	1509.2	1029.9	839.8	760.6	740.8	760.6	760.6
70°	7379.8	6120.1	3921.6	2178.7	1251.8	879.4	728.9	673.4	657.6	673.4	669.4
72.5°	6147.8	5090.2	3089.8	1699.4	986.3	740.8	633.8	582.3	566.5	550.6	542.7
75°	4769.3	3866.2	2242.1	1247.8	744.7	594.2	530.8	483.3	443.7	459.5	451.6
77.5°	3493.8	2713.4	1588.5	863.5	534.8	459.5	415.9	380.3	352.6	384.2	380.3
80°	2250.0	1754.8	1061.6	578.3	368.4	320.9	305.0	285.2	312.9	408.0	415.9
82.5°	1374.5	1113.1	633.8	376.3	241.6	213.9	198.1	198.1	320.9	352.6	356.5
85°	614.0	590.2	344.6	194.1	134.7	122.8	110.9	142.6	130.7	95.1	99.0
87.5°	99.0	103.0	75.3	67.3	51.5	51.5	39.6	27.7	19.8	11.9	11.9
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)