

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: P836329

Luminaire Tested: **ARCH3-170-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23121 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.6
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



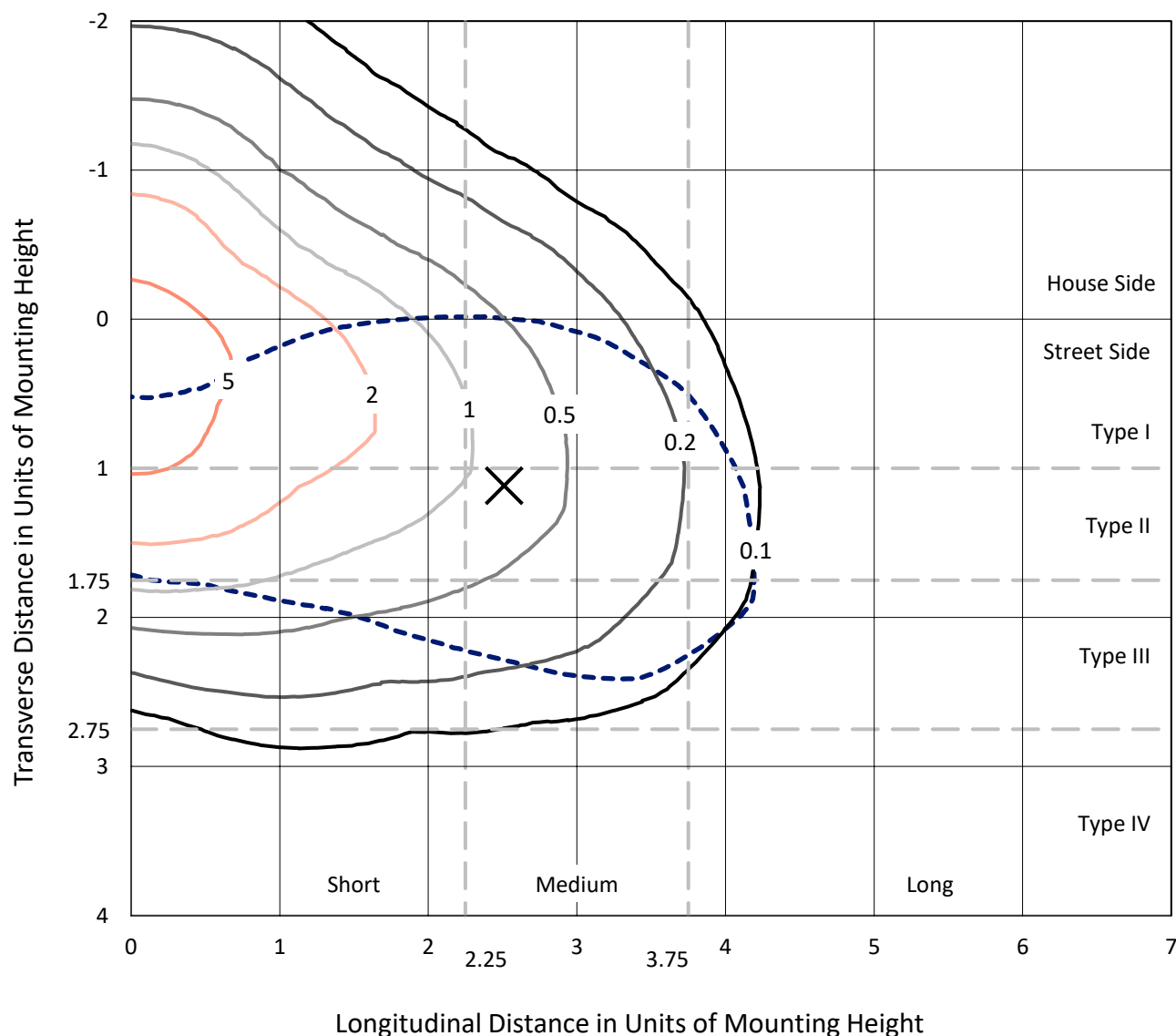
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

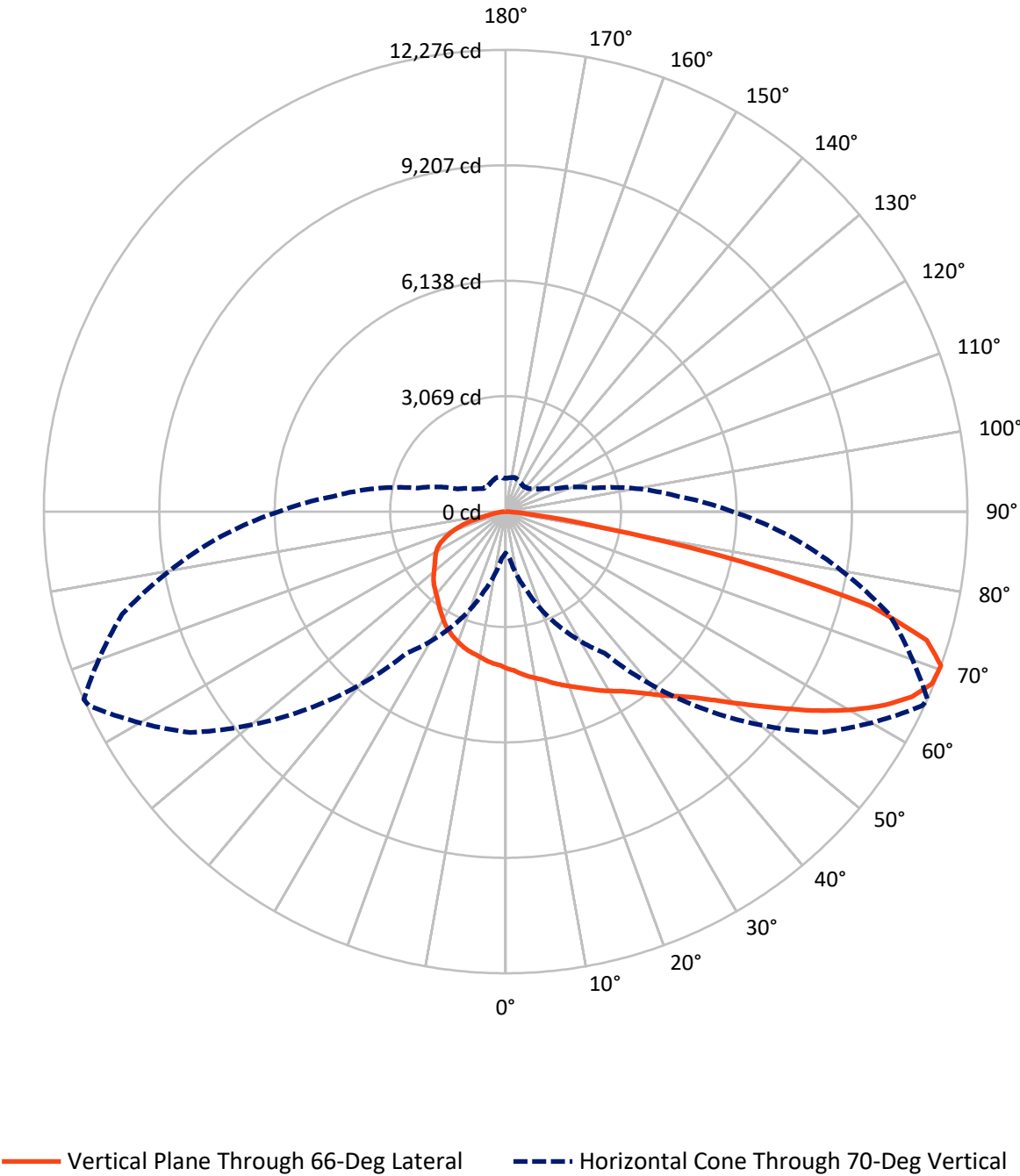


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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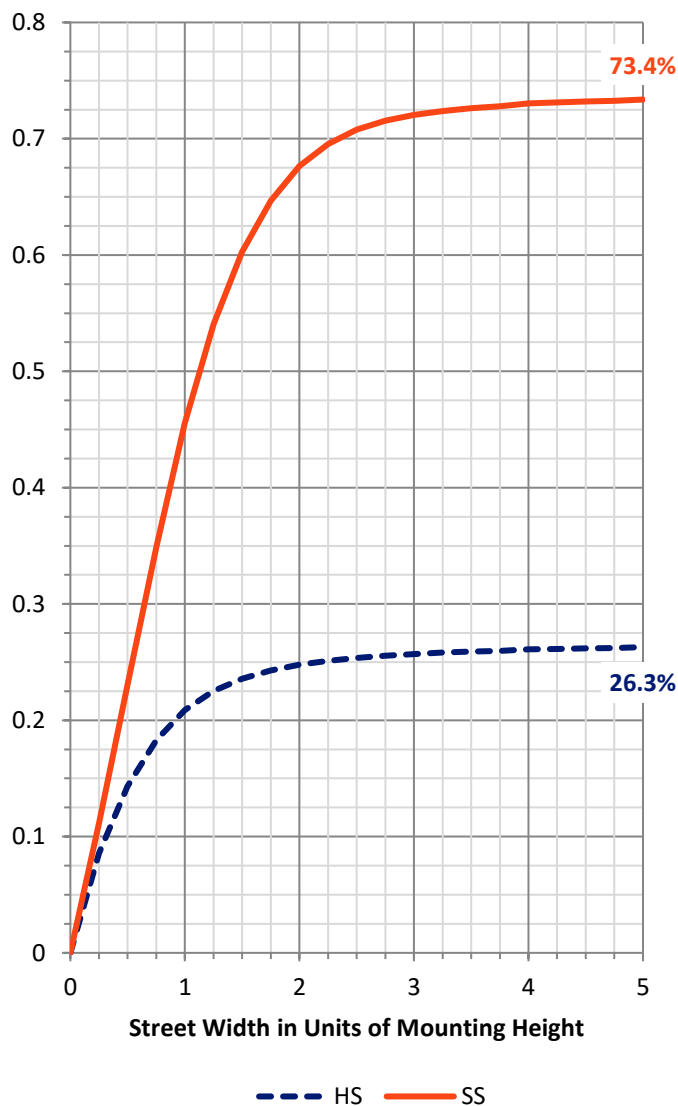
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6126.5	0.0	6126.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	16994.5	0.0	16994.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	23121.0	0.0	23121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.0	1.7
10°-20°	1202.7	5.2
20°-30°	2016.2	8.7
30°-40°	3018.9	13.1
40°-50°	4036.3	17.5
50°-60°	4712.5	20.4
60°-70°	4685.9	20.3
70°-80°	2774.1	12.0
80°-90°	273.4	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°	23121.0	100.0
0°-180°	23121.0	100.0

Coefficient of Utilization



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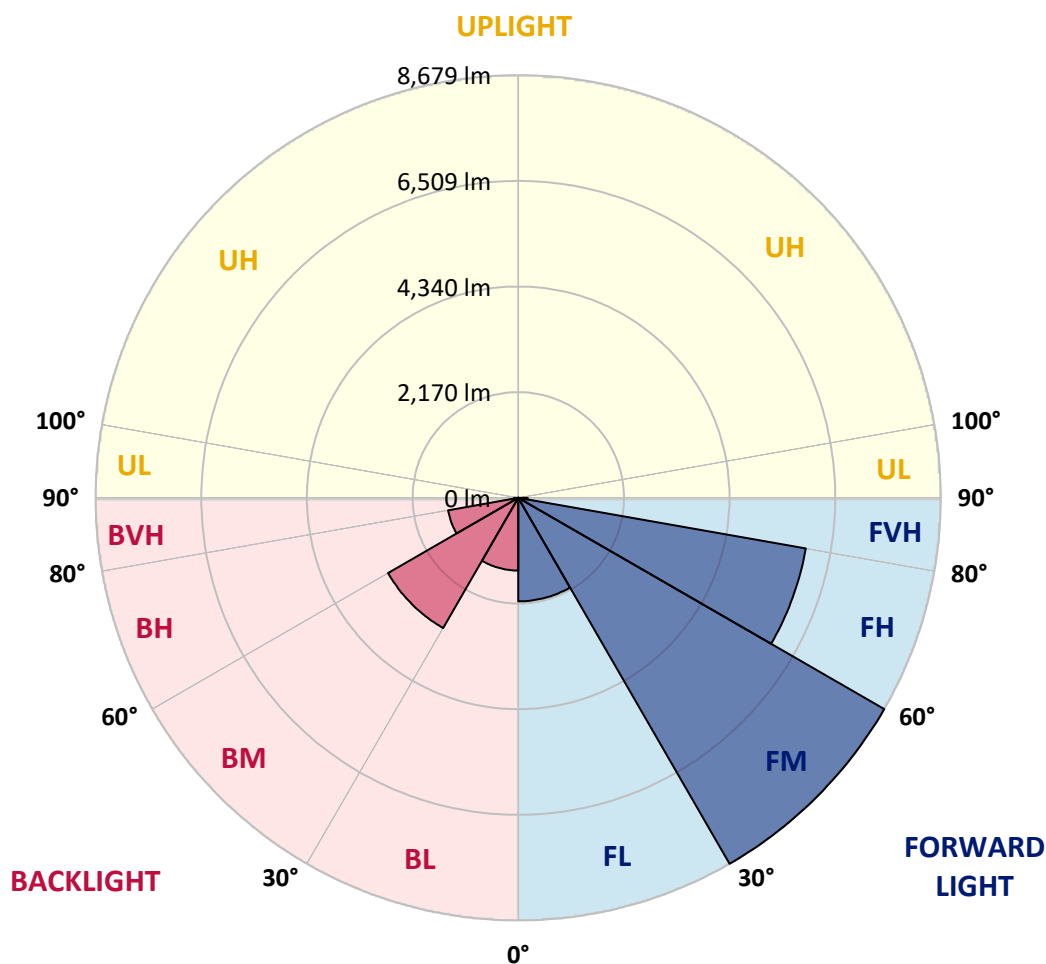
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2126.5	9.2			
FM	(30°-60°)	8679.3	37.5			
FH	(60°-80°)	5996.5	25.9			G3/7500
FVH	(80°-90°)	192.2	0.8			G2/225
BL	(0°-30°)	1493.4	6.5	B3/2500		
BM	(30°-60°)	3088.4	13.4	B3/5000		
BH	(60°-80°)	1463.5	6.3	B3/2500		G3/2500
BVH	(80°-90°)	81.3	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8
2.5°	4326.2	4319.4	4316.0	4302.4	4271.7	4285.3	4254.6	4234.2	4230.8	4183.0	4155.8
5°	4503.5	4500.1	4493.3	4472.8	4425.1	4431.9	4380.8	4343.3	4333.0	4258.0	4200.1
7.5°	4653.5	4646.7	4643.3	4616.0	4564.9	4561.5	4500.1	4445.5	4428.5	4326.2	4237.6
10°	4769.4	4759.2	4766.0	4738.7	4684.2	4674.0	4595.6	4524.0	4506.9	4377.4	4254.6
12.5°	4868.3	4861.5	4871.7	4847.8	4803.5	4793.3	4714.9	4622.8	4602.4	4452.4	4292.1
15°	4977.4	4953.5	4974.0	4963.7	4933.1	4929.6	4858.1	4755.8	4728.5	4547.8	4350.1
17.5°	5035.3	5021.7	5045.6	5049.0	5035.3	5059.2	4991.0	4868.3	4844.4	4636.5	4401.2
20°	5076.2	5055.8	5083.1	5103.5	5113.7	5161.5	5106.9	4987.6	4960.3	4721.7	4449.0
22.5°	5216.0	5171.7	5175.1	5188.7	5195.6	5263.7	5229.7	5113.7	5086.5	4827.4	4506.9
25°	5567.2	5478.5	5420.6	5379.7	5331.9	5389.9	5369.4	5256.9	5233.1	4953.5	4578.5
27.5°	6112.6	6000.1	5884.2	5764.9	5577.4	5553.5	5519.4	5417.2	5389.9	5079.7	4650.1
30°	6733.1	6620.6	6484.2	6293.3	5942.2	5758.1	5679.7	5567.2	5536.5	5192.2	4718.3
32.5°	7350.2	7251.3	7114.9	6883.1	6382.0	6006.9	5839.9	5724.0	5693.3	5314.9	4800.1
35°	7830.8	7769.5	7680.8	7391.1	6818.3	6300.1	6071.7	5931.9	5897.8	5509.2	4950.1
37.5°	8219.5	8175.2	8100.2	7796.8	7135.4	6593.3	6337.6	6177.4	6139.9	5720.6	5110.3
40°	8792.2	8676.3	8615.0	8175.2	7411.5	6859.2	6637.6	6470.6	6429.7	5945.6	5239.9
42.5°	9279.7	9194.5	9119.5	8512.7	7674.0	7087.6	6920.6	6767.2	6712.6	6167.2	5379.7
45°	9361.6	9395.6	9358.1	8679.7	8089.9	7312.7	7207.0	7108.1	7057.0	6467.2	5591.0
47.5°	9365.0	9365.0	9143.4	8775.2	8604.7	7564.9	7513.8	7547.9	7493.3	6849.0	5843.3
50°	9119.5	9163.8	9047.9	8799.0	8741.1	7817.2	7888.8	8072.9	8018.3	7254.7	6116.0
52.5°	8611.5	8758.1	8754.7	8761.5	8543.4	8032.0	8284.3	8703.6	8611.5	7711.5	6405.8
55°	7714.9	8008.1	8270.6	8495.6	8372.9	8161.5	8768.4	9375.2	9279.7	8222.9	6699.0
57.5°	6947.9	7135.4	7462.7	8100.2	8171.8	8274.0	9221.8	10077.5	9992.3	8788.8	7005.8
60°	6071.7	6330.8	6658.1	7564.9	7926.3	8420.6	9719.5	10762.7	10680.9	9361.6	7302.4
62.5°	4725.1	5059.2	5713.8	6743.3	7568.3	8512.7	10111.6	11366.1	11328.6	9903.6	7568.3
65°	3293.3	3589.8	4506.9	5734.2	6999.0	8471.8	10425.2	11904.8	11870.7	10346.8	7755.8
67.5°	1922.8	2267.1	3303.5	4616.0	5993.3	8188.8	10527.5	12221.8	12221.8	10616.1	7807.0
70°	1097.8	1258.0	2178.5	3364.8	4595.6	7408.1	10241.1	12218.4	12276.4	10554.8	7595.6
72.5°	767.1	838.7	1465.9	2263.7	3116.0	5993.3	9491.1	11628.7	11707.1	9975.2	6872.9
75°	596.6	647.7	1033.0	1544.4	1963.7	4070.5	7851.3	9804.7	10012.7	8502.4	5556.9
77.5°	453.4	490.9	603.4	964.8	1258.0	2338.7	5181.9	6429.7	6443.3	5205.8	2979.6
80°	330.7	368.2	402.3	589.8	668.2	1094.3	1956.9	2686.4	2611.4	2519.4	1612.5
82.5°	197.7	235.2	245.5	320.5	327.3	467.1	685.2	865.9	831.8	1108.0	756.8
85°	85.2	119.3	126.1	146.6	139.8	190.9	272.7	228.4	204.5	235.2	163.6
87.5°	20.5	34.1	34.1	37.5	30.7	47.7	51.1	37.5	34.1	40.9	40.9
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°	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8
2.5°	4148.9	4138.7	4142.1	4084.2	4067.1	4050.1	4039.9	4033.0	4026.2	4036.4	4046.7
5°	4179.6	4155.8	4128.5	4043.3	4009.2	3971.7	3944.4	3920.5	3910.3	3910.3	3920.5
7.5°	4203.5	4162.6	4104.6	3992.1	3930.8	3879.6	3835.3	3804.6	3787.6	3787.6	3797.8
10°	4206.9	4148.9	4056.9	3920.5	3838.7	3763.7	3712.6	3678.5	3654.6	3654.6	3661.4
12.5°	4227.4	4148.9	4029.6	3866.0	3763.7	3671.7	3610.3	3559.2	3548.9	3548.9	3555.8
15°	4261.5	4166.0	4012.6	3818.3	3695.5	3589.8	3521.7	3467.1	3446.7	3460.3	3463.7
17.5°	4292.1	4176.2	3981.9	3756.9	3610.3	3494.4	3419.4	3371.7	3344.4	3375.1	3375.1
20°	4312.6	4176.2	3937.6	3678.5	3518.3	3388.7	3317.1	3259.2	3238.7	3276.2	3279.6
22.5°	4343.3	4172.8	3889.9	3600.1	3419.4	3283.0	3211.4	3167.1	3156.9	3197.8	3211.4
25°	4377.4	4179.6	3838.7	3511.4	3310.3	3177.3	3122.8	3102.3	3109.2	3160.3	3177.3
27.5°	4414.9	4193.3	3787.6	3412.6	3191.0	3071.7	3041.0	3051.2	3078.5	3143.2	3163.7
30°	4449.0	4196.7	3716.0	3296.7	3054.6	2942.1	2955.7	3000.1	3041.0	3105.7	3129.6
32.5°	4493.3	4200.1	3641.0	3170.5	2908.0	2826.2	2887.6	2959.2	3000.1	3061.4	3088.7
35°	4602.4	4258.0	3583.0	3047.8	2771.6	2727.3	2829.6	2921.7	2945.5	3000.1	3023.9
37.5°	4728.5	4353.5	3552.3	2921.7	2638.7	2628.5	2758.0	2850.1	2856.9	2891.0	2914.8
40°	4806.9	4394.4	3518.3	2816.0	2519.4	2526.2	2659.1	2730.7	2717.1	2741.0	2758.0
42.5°	4885.3	4408.0	3446.7	2727.3	2406.9	2413.7	2516.0	2567.1	2573.9	2625.1	2648.9
45°	5018.3	4445.5	3368.3	2645.5	2304.6	2280.7	2342.1	2410.3	2498.9	2597.8	2625.1
47.5°	5195.6	4524.0	3286.4	2546.6	2205.7	2127.3	2151.2	2270.5	2362.5	2454.6	2471.6
50°	5376.2	4602.4	3211.4	2427.3	2106.9	1963.7	1973.9	2083.0	2158.0	2229.6	2239.8
52.5°	5553.5	4670.6	3146.7	2314.8	1994.4	1769.4	1810.3	1922.8	1973.9	2008.0	2018.2
55°	5730.8	4728.5	3088.7	2219.4	1864.8	1615.9	1653.4	1759.1	1810.3	1827.3	1834.1
57.5°	5914.9	4796.7	3044.4	2137.5	1718.2	1479.6	1503.4	1578.4	1626.2	1646.6	1639.8
60°	6068.3	4854.6	3020.5	2052.3	1571.6	1353.4	1346.6	1414.8	1483.0	1503.4	1496.6
62.5°	6187.6	4892.1	2983.0	1943.2	1442.1	1227.3	1193.2	1281.8	1353.4	1367.1	1377.3
65°	6252.4	4895.6	2891.0	1803.4	1309.1	1090.9	1067.1	1155.7	1200.0	1213.7	1213.7
67.5°	6242.2	4841.0	2710.3	1615.9	1186.4	968.2	947.7	1002.3	1067.1	1077.3	1067.1
70°	6030.8	4616.0	2420.5	1418.2	1039.8	859.1	821.6	876.2	937.5	900.0	883.0
72.5°	5430.8	4033.0	1994.4	1200.0	876.2	722.7	705.7	760.2	763.7	770.5	753.4
75°	4285.3	3003.5	1493.2	934.1	709.1	606.8	603.4	593.2	606.8	634.1	613.6
77.5°	2250.0	1500.0	808.0	572.7	514.8	487.5	463.6	460.2	501.1	518.2	497.7
80°	1220.5	842.1	463.6	344.3	313.6	317.1	347.7	340.9	385.2	395.5	378.4
82.5°	531.8	398.9	228.4	208.0	208.0	204.5	214.8	238.6	286.4	286.4	228.4
85°	115.9	98.9	88.6	102.3	115.9	115.9	115.9	115.9	81.8	44.3	30.7
87.5°	37.5	37.5	37.5	40.9	44.3	44.3	37.5	27.3	17.0	3.4	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)