

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: P841164

Luminaire Tested: **ARCH4-140-730-U-T2R**

Issue Date: 5/27/2024

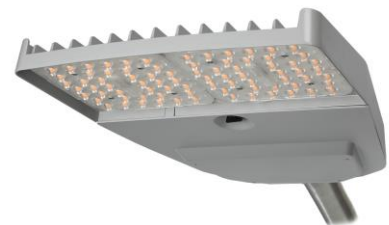
Test Information

Test Method: LM-79-08
Report Number: P841164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23425 lumens
Efficiency: N/A
Efficacy: 165.8 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): 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

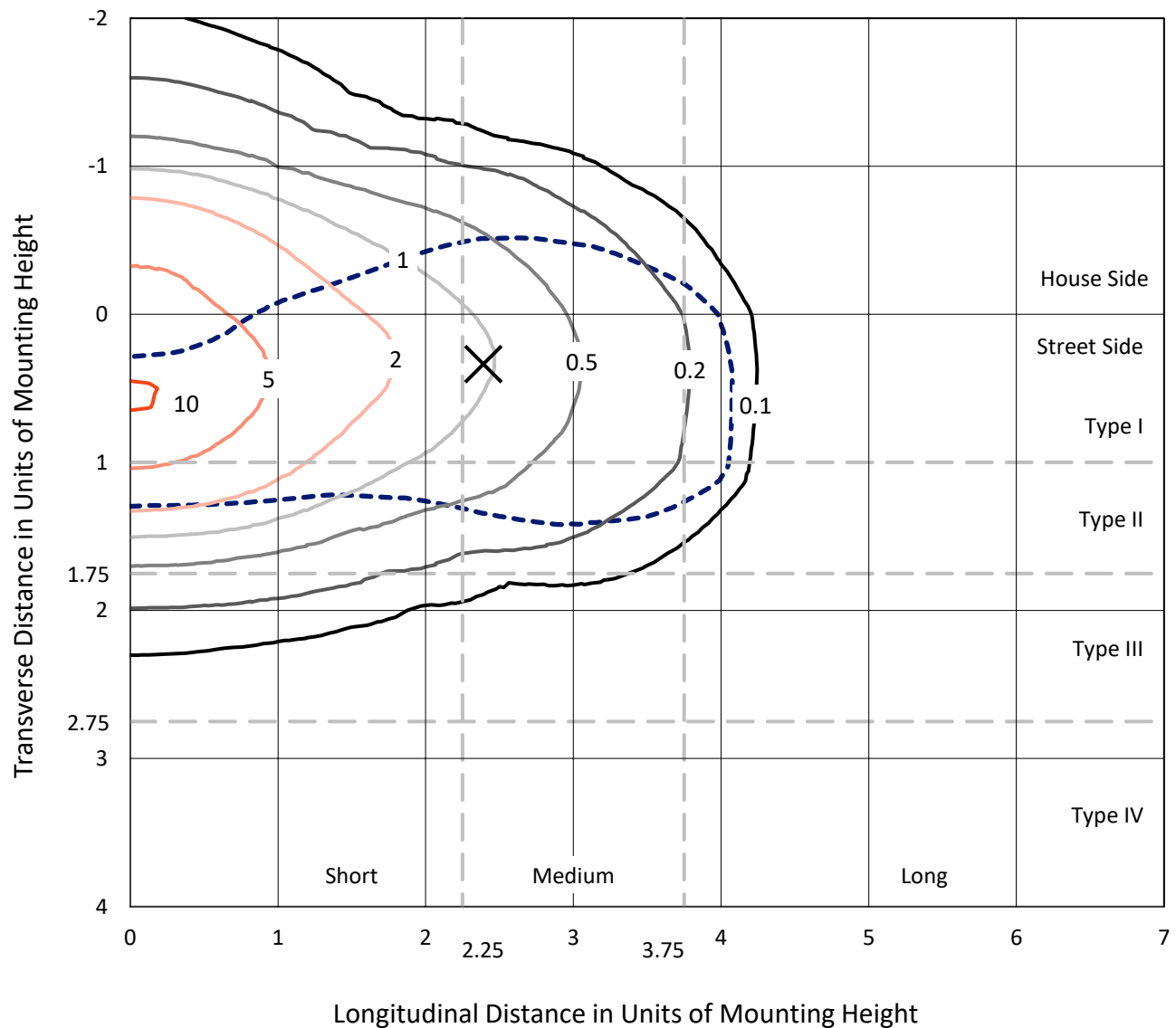


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Iso-Footcandle Lines of Horizontal Illumination

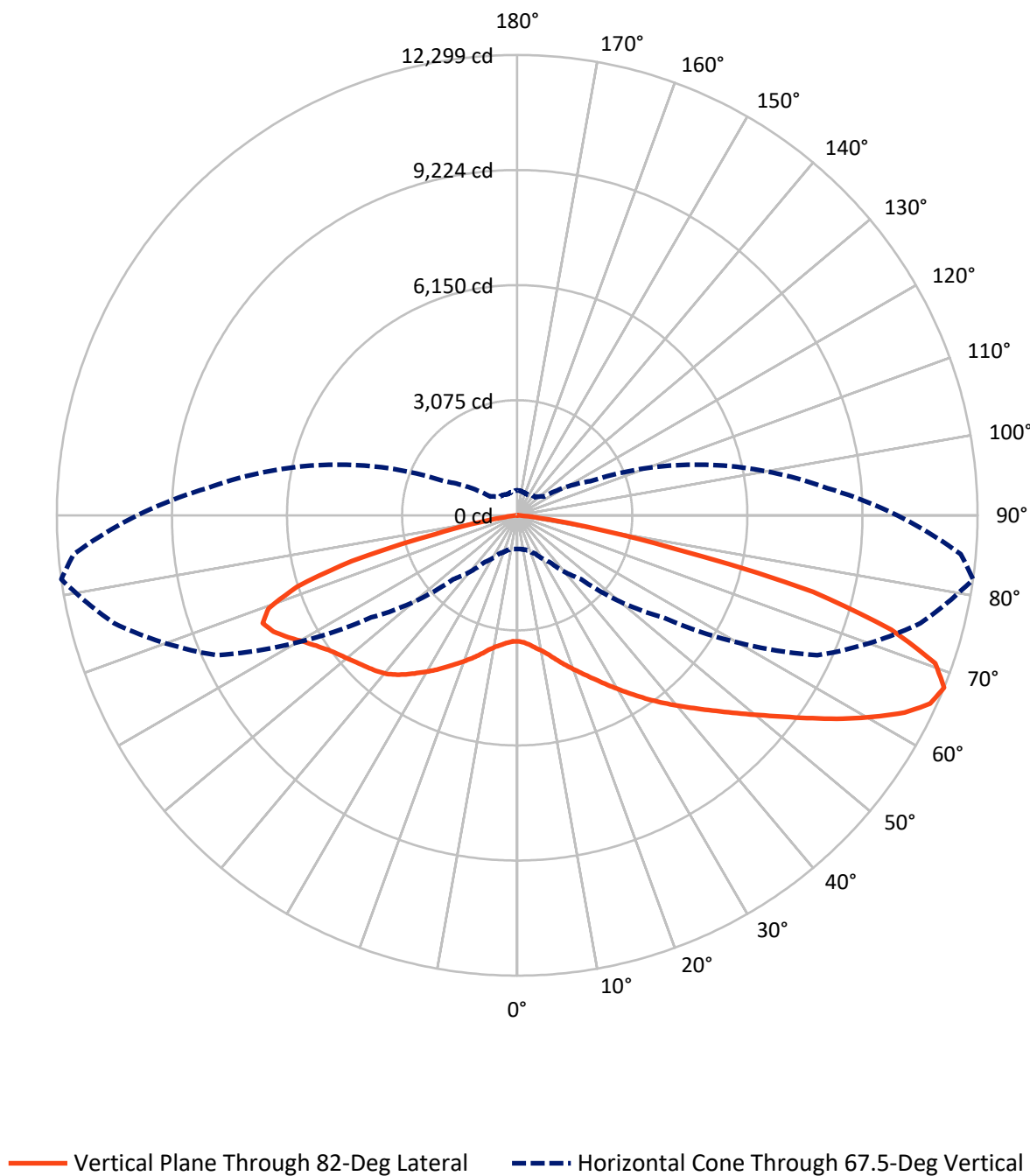
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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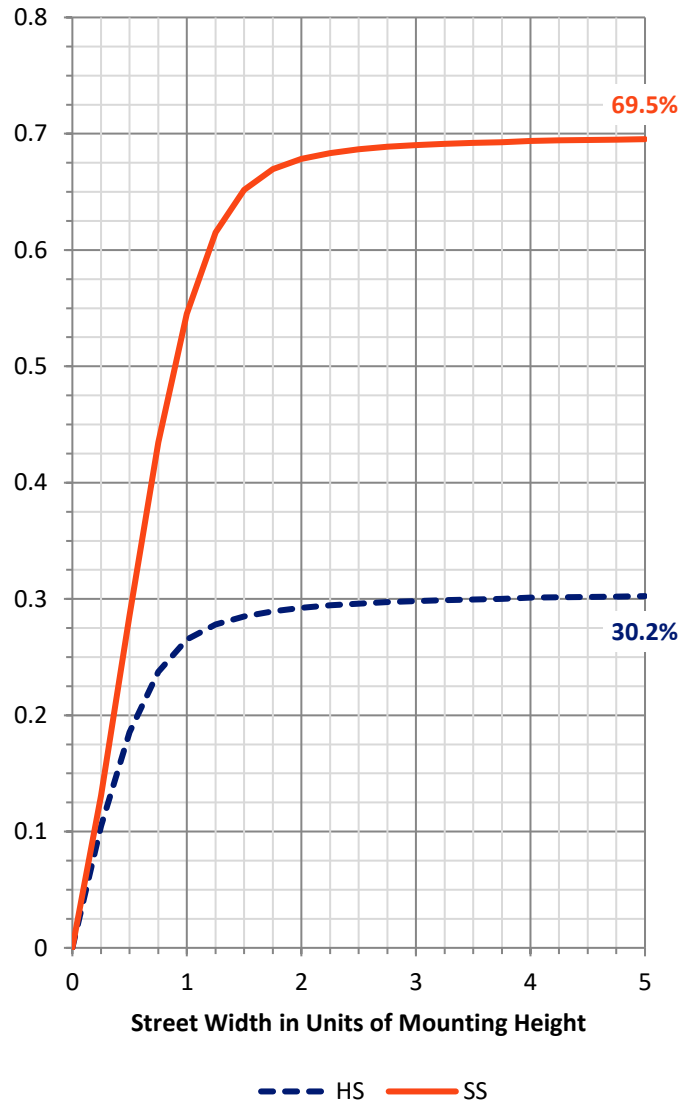
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7133.9	0.0	7133.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16291.1	0.0	16291.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	23425.0	0.0	23425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.0	1.5
10°-20°	1253.5	5.4
20°-30°	2519.2	10.8
30°-40°	3957.4	16.9
40°-50°	4820.9	20.6
50°-60°	4555.1	19.4
60°-70°	3761.5	16.1
70°-80°	2048.3	8.7
80°-90°	161.0	0.7
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°	23425.0	100.0
0°-180°	23425.0	100.0

Coefficient of Utilization



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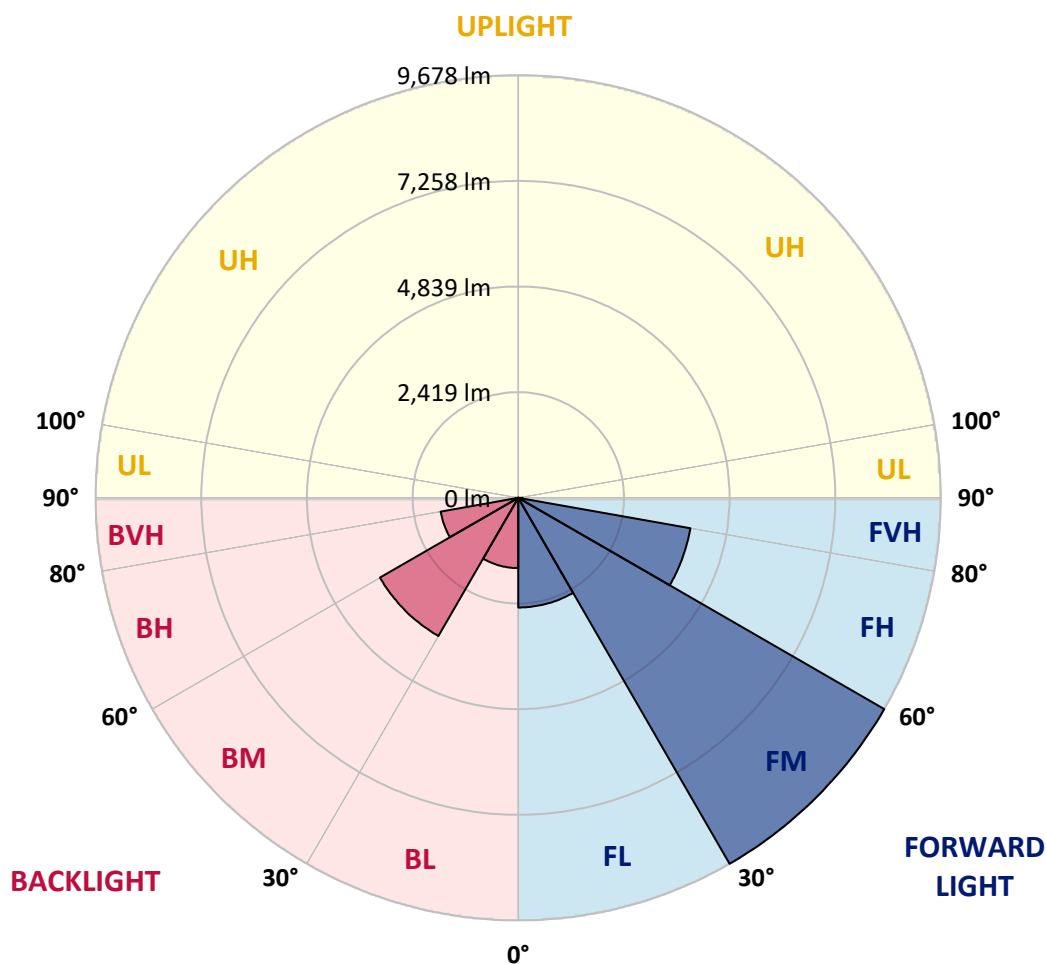
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2512.0	10.7			
FM	(30°-60°)	9677.9	41.3			
FH	(60°-80°)	4004.2	17.1			G2/5000
FVH	(80°-90°)	97.1	0.4			G1/100
BL	(0°-30°)	1608.7	6.9	B3/2500		
BM	(30°-60°)	3655.5	15.6	B3/5000		
BH	(60°-80°)	1805.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	64.0	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3
2.5°	3520.4	3520.4	3547.6	3547.6	3523.8	3486.4	3476.2	3435.4	3397.9	3397.9	3401.3
5°	3857.1	3853.7	3874.1	3846.9	3789.1	3714.3	3663.2	3574.8	3500.0	3476.2	3472.8
7.5°	4268.7	4265.3	4275.5	4231.3	4122.4	4000.0	3897.9	3755.1	3632.6	3581.6	3568.0
10°	4727.9	4724.5	4714.3	4639.4	4493.2	4302.7	4149.6	3952.4	3768.7	3687.1	3670.1
12.5°	5255.1	5248.3	5224.5	5115.6	4914.9	4670.0	4449.0	4193.9	3949.0	3836.7	3799.3
15°	5843.5	5833.3	5789.1	5656.4	5387.7	5078.2	4792.5	4466.0	4166.6	4020.4	3969.4
17.5°	6462.6	6462.6	6394.5	6197.3	5897.9	5513.6	5159.8	4744.9	4394.5	4214.3	4153.0
20°	7091.8	7088.4	7003.4	6765.3	6411.5	5969.4	5520.4	5064.6	4629.2	4411.5	4336.7
22.5°	7755.1	7748.3	7642.8	7370.7	6948.9	6449.0	5925.1	5380.9	4887.7	4625.8	4530.6
25°	8517.0	8506.8	8377.5	8044.2	7544.2	6979.6	6380.9	5751.7	5183.6	4863.9	4751.7
27.5°	9326.5	9312.9	9159.8	8772.1	8224.5	7544.2	6884.3	6180.2	5510.2	5129.2	5003.4
30°	10047.6	10037.4	9870.7	9472.7	8843.5	8105.4	7363.9	6608.8	5853.7	5411.5	5255.1
32.5°	10591.8	10591.8	10442.1	10051.0	9397.9	8642.8	7846.9	7013.6	6210.9	5714.3	5530.6
35°	10921.7	10931.9	10802.7	10489.7	9874.1	9149.6	8346.9	7489.8	6591.8	6037.4	5840.1
37.5°	10969.3	11003.4	10928.5	10717.6	10204.0	9571.4	8836.7	7948.9	6986.4	6363.9	6142.8
40°	10748.3	10772.1	10775.5	10693.8	10340.1	9874.1	9268.7	8435.3	7404.7	6707.5	6452.4
42.5°	10306.1	10323.1	10353.7	10377.5	10241.5	10006.8	9598.6	8887.7	7850.3	7057.8	6758.5
45°	9734.6	9731.2	9782.3	9884.3	9877.5	9931.9	9782.3	9299.3	8312.9	7455.7	7098.6
47.5°	8880.9	8863.9	9044.2	9275.5	9391.1	9646.2	9785.7	9622.4	8816.3	7894.5	7486.4
50°	7544.2	7527.2	7921.7	8465.9	8806.1	9193.8	9598.6	9816.3	9343.5	8387.7	7908.1
52.5°	5918.3	5901.3	6401.3	7353.7	8095.2	8659.8	9221.0	9860.5	9843.5	8938.7	8384.3
55°	4401.3	4387.7	4874.1	5904.7	7105.4	8040.8	8758.5	9744.9	10312.9	9571.4	8962.5
57.5°	3102.0	3095.2	3517.0	4370.7	5833.3	7285.7	8312.9	9520.4	10744.8	10258.5	9615.6
60°	2176.9	2166.7	2472.8	3132.6	4411.5	6146.2	7870.7	9221.0	11068.0	10935.3	10309.5
62.5°	1466.0	1459.2	1676.9	2227.9	3132.6	4731.3	7200.6	9020.4	11251.6	11615.6	11010.2
65°	1112.2	1108.8	1207.5	1510.2	2217.7	3397.9	6136.0	8996.6	11275.5	12125.8	11605.4
67.5°	898.0	901.4	955.8	1129.2	1534.0	2415.0	4758.5	8846.9	11149.6	12299.3	11894.5
70°	734.7	734.7	758.5	874.1	1132.6	1629.2	3323.1	8166.6	10799.3	11846.9	11551.0
72.5°	561.2	564.6	639.5	707.5	853.7	1142.9	2129.2	6758.5	9972.7	10445.5	10221.0
75°	445.6	442.2	486.4	581.6	663.3	816.3	1306.1	4846.9	8486.4	8163.2	8020.4
77.5°	319.7	316.3	350.3	432.0	503.4	578.2	778.9	2445.6	4615.6	4241.5	4136.0
80°	217.7	210.9	241.5	299.3	333.3	340.1	381.0	938.8	2013.6	1898.0	1874.1
82.5°	112.2	112.2	129.3	170.1	173.5	176.9	170.1	302.7	666.7	622.4	595.2
85°	44.2	44.2	47.6	57.8	57.8	61.2	61.2	78.2	71.4	68.0	64.6
87.5°	3.4	3.4	6.8	6.8	10.2	10.2	10.2	13.6	17.0	17.0	17.0
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°	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3	3367.3
2.5°	3394.5	3380.9	3336.7	3326.5	3319.7	3309.5	3312.9	3289.1	3278.9	3282.3	3268.7
5°	3455.8	3432.0	3377.5	3353.7	3346.9	3336.7	3346.9	3329.9	3312.9	3319.7	3312.9
7.5°	3540.8	3506.8	3438.8	3415.0	3411.5	3401.3	3415.0	3401.3	3387.7	3394.5	3380.9
10°	3629.2	3585.0	3510.2	3486.4	3486.4	3483.0	3496.6	3476.2	3462.6	3466.0	3459.2
12.5°	3758.5	3700.7	3619.0	3598.6	3588.4	3598.6	3602.0	3574.8	3551.0	3554.4	3544.2
15°	3914.9	3850.3	3761.9	3731.3	3724.5	3721.1	3707.5	3673.5	3642.8	3639.4	3629.2
17.5°	4085.0	4003.4	3897.9	3867.3	3836.7	3826.5	3792.5	3748.3	3700.7	3700.7	3687.1
20°	4248.3	4156.4	4030.6	3986.4	3942.2	3901.3	3843.5	3772.1	3710.9	3700.7	3687.1
22.5°	4425.1	4316.3	4170.0	4105.4	4027.2	3945.6	3846.9	3751.7	3673.5	3656.4	3646.2
25°	4622.4	4486.4	4312.9	4217.7	4091.8	3966.0	3819.7	3697.3	3605.4	3578.2	3571.4
27.5°	4840.1	4676.8	4466.0	4326.5	4142.8	3945.6	3758.5	3612.2	3500.0	3466.0	3455.8
30°	5061.2	4867.3	4605.4	4401.3	4142.8	3880.9	3646.2	3476.2	3346.9	3299.3	3292.5
32.5°	5282.3	5064.6	4731.3	4442.2	4102.0	3772.1	3500.0	3299.3	3153.0	3095.2	3108.8
35°	5547.6	5282.3	4846.9	4459.2	4034.0	3639.4	3333.3	3098.6	2949.0	2897.9	2908.2
37.5°	5823.1	5500.0	4938.8	4445.6	3938.8	3489.8	3146.2	2918.4	2731.3	2642.8	2653.0
40°	6061.2	5697.3	5003.4	4397.9	3816.3	3319.7	2962.6	2663.3	2404.8	2319.7	2309.5
42.5°	6285.7	5843.5	5037.4	4326.5	3676.9	3122.4	2700.7	2316.3	2057.8	1952.4	1955.8
45°	6520.4	5986.4	5023.8	4231.3	3503.4	2891.1	2363.9	1976.2	1748.3	1653.1	1656.5
47.5°	6789.1	6139.4	5010.2	4129.2	3292.5	2591.8	2040.8	1676.9	1479.6	1411.6	1404.8
50°	7074.8	6309.5	4993.2	4003.4	3057.8	2258.5	1721.1	1398.0	1231.3	1187.1	1176.9
52.5°	7397.9	6493.2	4983.0	3853.7	2775.5	1904.8	1435.4	1153.1	1040.8	1010.2	1006.8
55°	7785.7	6707.5	4996.6	3673.5	2435.4	1571.4	1193.9	993.2	918.4	901.4	898.0
57.5°	8258.5	6983.0	5037.4	3462.6	2078.2	1282.3	1017.0	894.6	846.9	833.3	833.3
60°	8772.1	7295.9	5112.2	3224.5	1721.1	1057.8	901.4	816.3	795.9	812.9	812.9
62.5°	9326.5	7663.2	5244.9	2935.4	1387.7	894.6	809.5	751.7	738.1	772.1	775.5
65°	9840.1	8020.4	5329.9	2588.4	1102.0	775.5	738.1	687.1	693.9	727.9	724.5
67.5°	10156.4	8316.3	5210.9	2153.1	874.1	687.1	663.3	619.0	636.1	663.3	666.7
70°	9962.5	8149.6	4622.4	1625.8	683.7	598.6	581.6	554.4	568.0	602.0	615.6
72.5°	9013.6	7299.3	3595.2	1098.6	551.0	503.4	510.2	496.6	513.6	544.2	574.8
75°	7316.3	5517.0	2411.6	704.1	435.4	428.6	438.8	428.6	435.4	466.0	483.0
77.5°	3819.7	2690.5	1200.7	438.8	323.1	333.3	350.3	353.7	374.1	381.0	387.8
80°	1782.3	1210.9	500.0	244.9	214.3	234.7	268.7	272.1	278.9	289.1	292.5
82.5°	581.6	363.9	231.3	132.7	122.4	132.7	173.5	207.5	210.9	231.3	231.3
85°	61.2	37.4	51.0	54.4	47.6	57.8	78.2	74.8	34.0	20.4	20.4
87.5°	17.0	13.6	17.0	17.0	13.6	13.6	10.2	3.4	0.0	0.0	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)