

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: P836325

Luminaire Tested: **ARCH3-170-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23236 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - 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

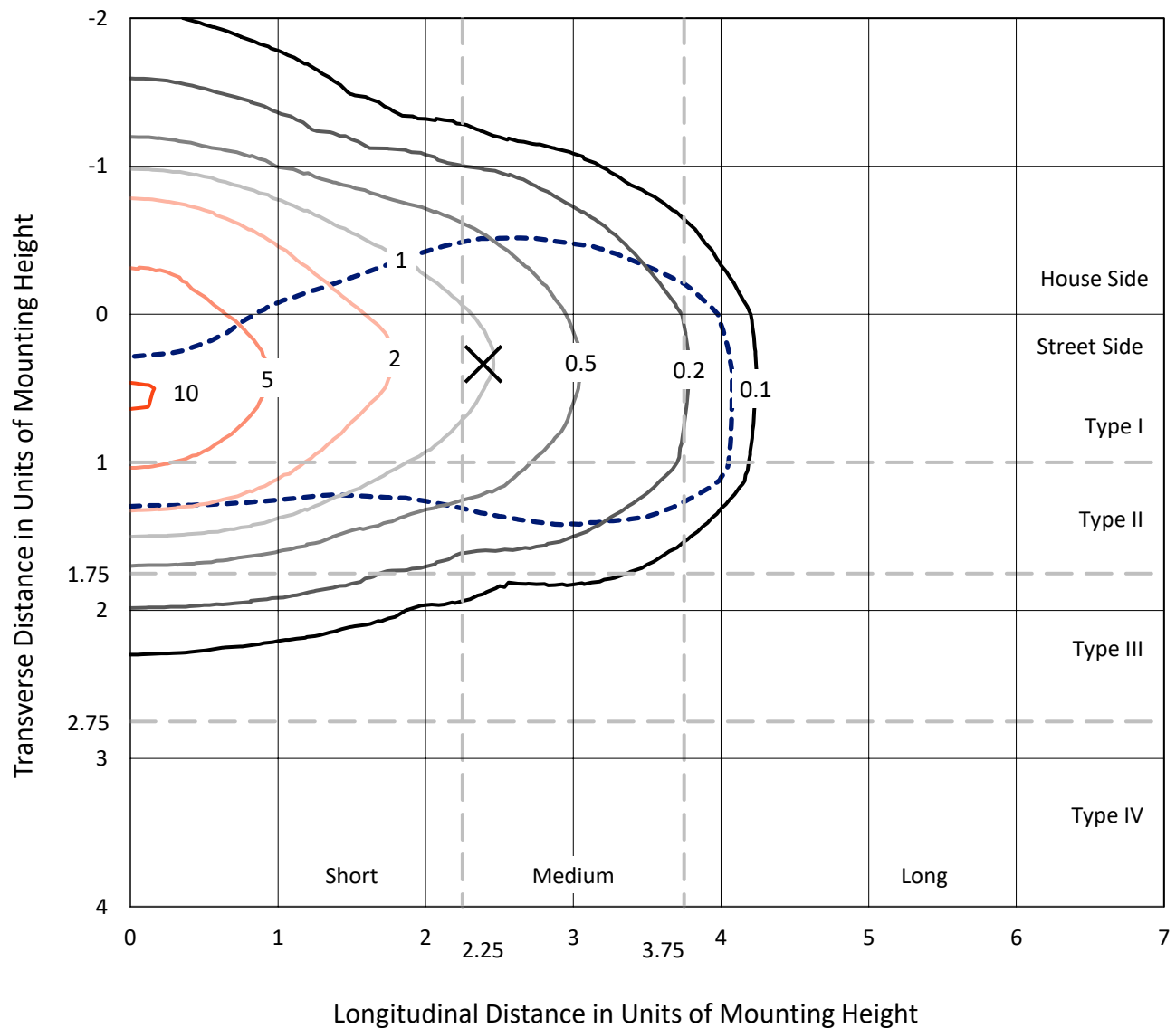


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Iso-Footcandle Lines of Horizontal Illumination

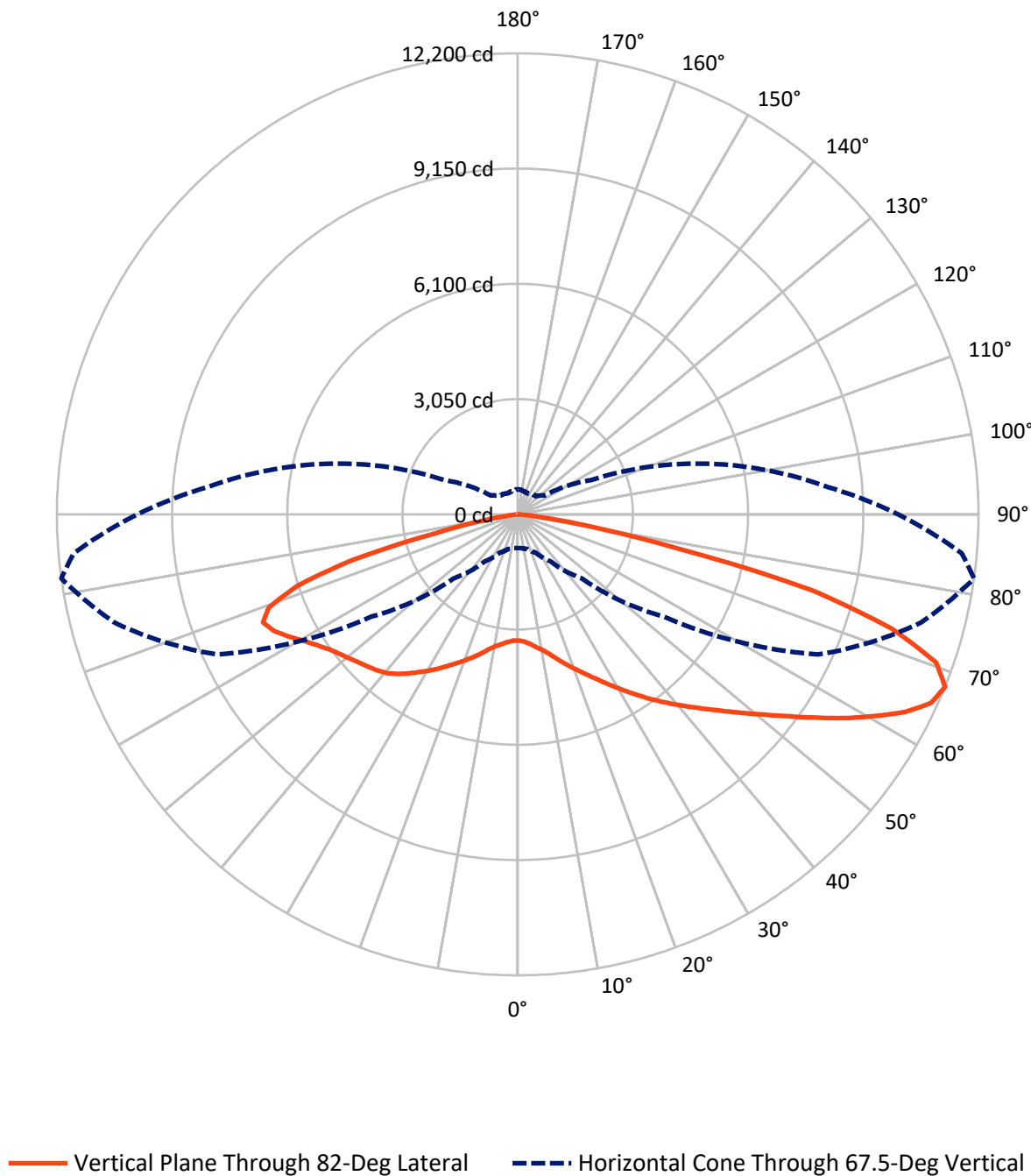
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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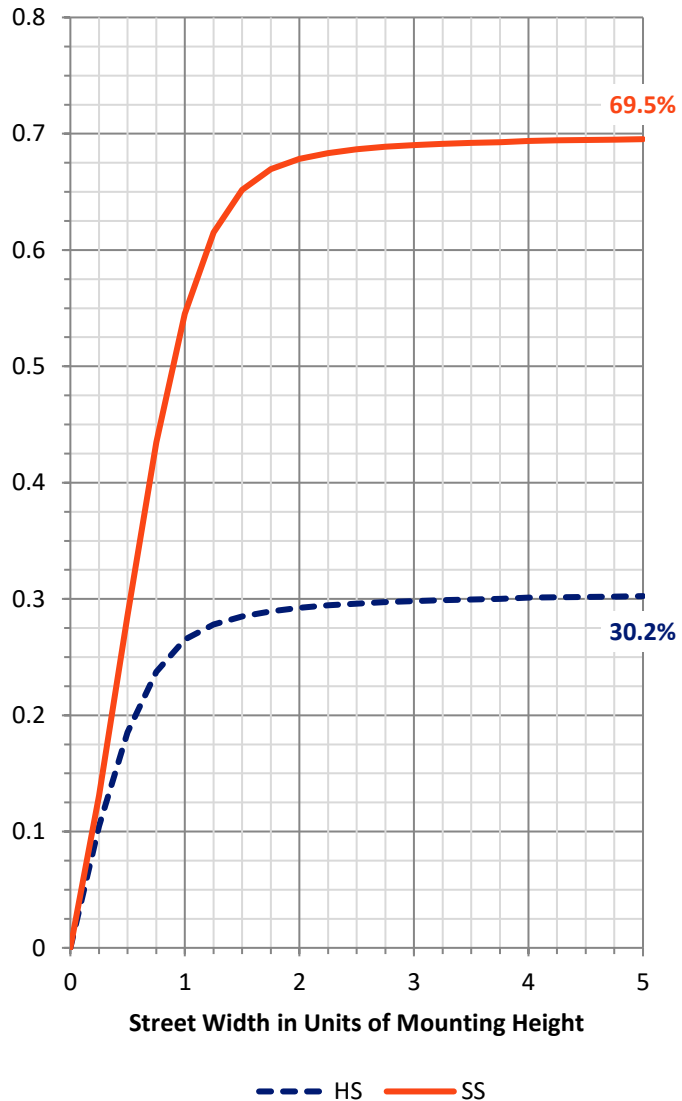
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7076.3	0.0	7076.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16159.7	0.0	16159.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	23236.0	0.0	23236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	1.5
10°-20°	1243.4	5.4
20°-30°	2498.9	10.8
30°-40°	3925.5	16.9
40°-50°	4782.0	20.6
50°-60°	4518.4	19.4
60°-70°	3731.1	16.1
70°-80°	2031.8	8.7
80°-90°	159.7	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°	23236.0	100.0
0°-180°	23236.0	100.0

Coefficient of Utilization



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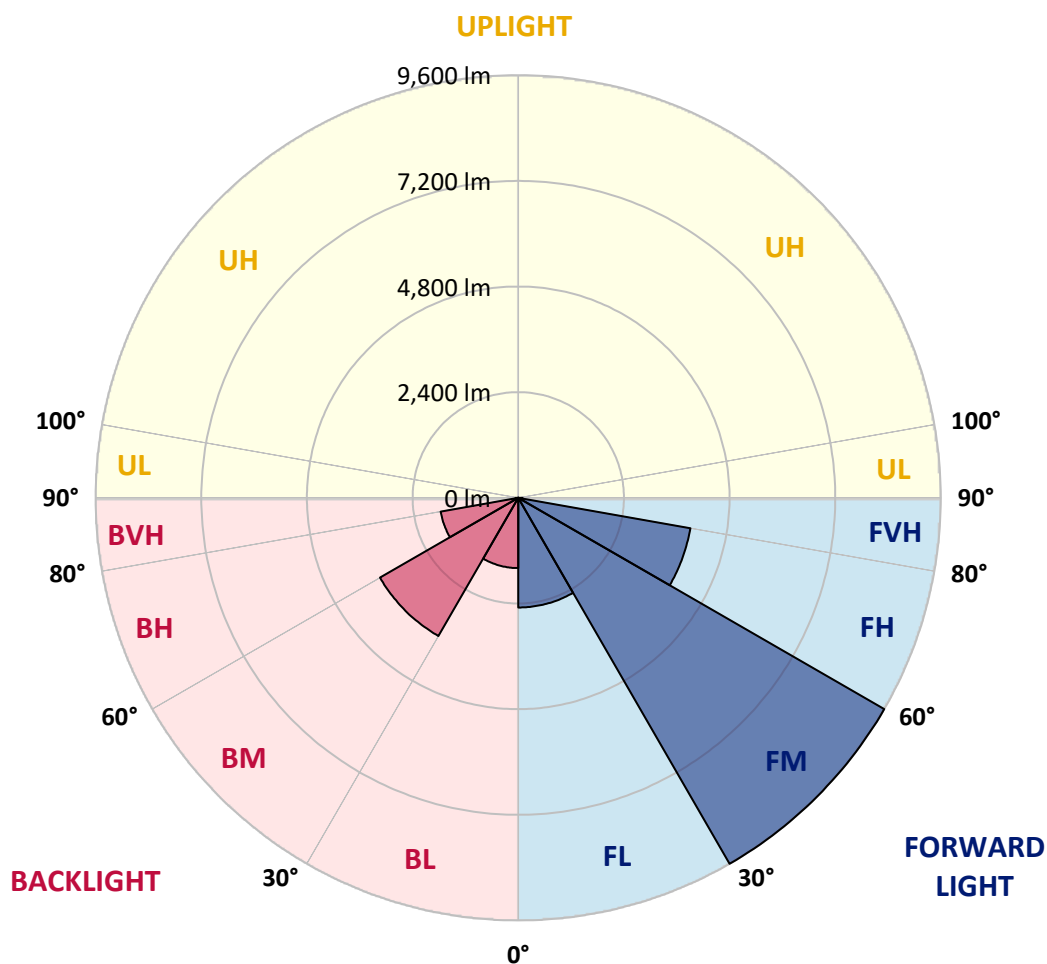
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2491.7	10.7			
FM	(30°-60°)	9599.8	41.3			
FH	(60°-80°)	3971.9	17.1			G2/5000
FVH	(80°-90°)	96.3	0.4			G1/100
BL	(0°-30°)	1595.8	6.9	B3/2500		
BM	(30°-60°)	3626.0	15.6	B3/5000		
BH	(60°-80°)	1791.0	7.7	B3/2500		G3/2500
BVH	(80°-90°)	63.5	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°	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2
2.5°	3492.0	3492.0	3519.0	3519.0	3495.4	3458.2	3448.1	3407.6	3370.5	3370.5	3373.9
5°	3826.0	3822.6	3842.9	3815.9	3758.5	3684.3	3633.7	3546.0	3471.7	3448.1	3444.8
7.5°	4234.2	4230.9	4241.0	4197.1	4089.2	3967.7	3866.5	3724.8	3603.3	3552.7	3539.2
10°	4689.7	4686.3	4676.2	4602.0	4456.9	4268.0	4116.2	3920.5	3738.3	3657.3	3640.4
12.5°	5212.7	5205.9	5182.3	5074.3	4875.3	4632.4	4413.1	4160.0	3917.1	3805.8	3768.6
15°	5796.4	5786.2	5742.4	5610.8	5344.3	5037.2	4753.8	4429.9	4133.0	3988.0	3937.3
17.5°	6410.4	6410.4	6342.9	6147.2	5850.3	5469.1	5118.2	4706.6	4359.1	4180.3	4119.5
20°	7034.6	7031.2	6946.9	6710.7	6359.8	5921.2	5475.8	5023.7	4591.9	4376.0	4301.7
22.5°	7692.5	7685.7	7581.2	7311.2	6892.9	6396.9	5877.3	5337.5	4848.3	4588.5	4494.0
25°	8448.3	8438.1	8309.9	7979.3	7483.3	6923.2	6329.4	5705.3	5141.8	4824.7	4713.3
27.5°	9251.2	9237.7	9085.9	8701.3	8158.1	7483.3	6828.8	6130.4	5465.7	5087.8	4963.0
30°	9966.5	9956.4	9791.1	9396.3	8772.1	8040.0	7304.5	6555.5	5806.5	5367.9	5212.7
32.5°	10506.3	10506.3	10357.9	9969.9	9322.1	8573.1	7783.6	6957.0	6160.7	5668.2	5486.0
35°	10833.6	10843.7	10715.5	10405.1	9794.4	9075.8	8279.6	7429.3	6538.6	5988.7	5793.0
37.5°	10880.8	10914.6	10840.3	10631.2	10121.7	9494.2	8765.4	7884.8	6930.0	6312.6	6093.3
40°	10661.5	10685.1	10688.5	10607.5	10256.7	9794.4	9193.9	8367.3	7345.0	6653.3	6400.3
42.5°	10222.9	10239.8	10270.2	10293.8	10158.8	9926.0	9521.2	8816.0	7787.0	7000.8	6703.9
45°	9656.1	9652.7	9703.3	9804.6	9797.8	9851.8	9703.3	9224.2	8245.8	7395.6	7041.3
47.5°	8809.3	8792.4	8971.2	9200.6	9315.3	9568.4	9706.7	9544.8	8745.2	7830.8	7426.0
50°	7483.3	7466.4	7857.8	8397.6	8735.0	9119.7	9521.2	9737.1	9268.1	8320.0	7844.3
52.5°	5870.6	5853.7	6349.7	7294.4	8029.9	8590.0	9146.6	9780.9	9764.1	8866.6	8316.7
55°	4365.8	4352.3	4834.8	5857.1	7048.1	7975.9	8687.8	9666.2	10229.7	9494.2	8890.2
57.5°	3077.0	3070.3	3488.6	4335.5	5786.2	7226.9	8245.8	9443.6	10658.2	10175.7	9538.0
60°	2159.3	2149.2	2452.8	3107.4	4376.0	6096.6	7807.2	9146.6	10978.7	10847.1	10226.3
62.5°	1454.2	1447.4	1663.3	2209.9	3107.4	4693.1	7142.6	8947.6	11160.9	11521.9	10921.3
65°	1103.3	1099.9	1197.7	1498.0	2199.8	3370.5	6086.5	8924.0	11184.5	12028.0	11511.8
67.5°	890.7	894.1	948.1	1120.1	1521.6	2395.5	4720.1	8775.5	11059.7	12200.0	11798.5
70°	728.8	728.8	752.4	867.1	1123.5	1616.1	3296.3	8100.7	10712.1	11751.3	11457.8
72.5°	556.7	560.1	634.3	701.8	846.8	1133.6	2112.1	6703.9	9892.3	10361.3	10138.6
75°	442.0	438.6	482.5	576.9	657.9	809.7	1295.6	4807.8	8417.9	8097.4	7955.7
77.5°	317.1	313.8	347.5	428.5	499.3	573.6	772.6	2425.8	4578.4	4207.3	4102.7
80°	215.9	209.2	239.5	296.9	330.6	337.4	377.9	931.2	1997.3	1882.6	1859.0
82.5°	111.3	111.3	128.2	168.7	172.1	175.4	168.7	300.3	661.3	617.4	590.4
85°	43.9	43.9	47.2	57.4	57.4	60.7	60.7	77.6	70.9	67.5	64.1
87.5°	3.4	3.4	6.7	6.7	10.1	10.1	10.1	13.5	16.9	16.9	16.9
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°	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2	3340.2
2.5°	3367.2	3353.7	3309.8	3299.7	3292.9	3282.8	3286.2	3262.6	3252.4	3255.8	3242.3
5°	3427.9	3404.3	3350.3	3326.7	3319.9	3309.8	3319.9	3303.1	3286.2	3292.9	3286.2
7.5°	3512.2	3478.5	3411.0	3387.4	3384.0	3373.9	3387.4	3373.9	3360.4	3367.2	3353.7
10°	3600.0	3556.1	3481.9	3458.2	3458.2	3454.9	3468.4	3448.1	3434.6	3438.0	3431.3
12.5°	3728.2	3670.8	3589.8	3569.6	3559.5	3569.6	3573.0	3546.0	3522.4	3525.7	3515.6
15°	3883.4	3819.3	3731.5	3701.2	3694.4	3691.0	3677.6	3643.8	3613.4	3610.1	3600.0
17.5°	4052.1	3971.1	3866.5	3836.1	3805.8	3795.6	3761.9	3718.0	3670.8	3670.8	3657.3
20°	4214.0	4122.9	3998.1	3954.2	3910.4	3869.9	3812.5	3741.7	3680.9	3670.8	3657.3
22.5°	4389.4	4281.5	4136.4	4072.3	3994.7	3913.7	3815.9	3721.4	3643.8	3626.9	3616.8
25°	4585.1	4450.2	4278.1	4183.6	4058.8	3934.0	3788.9	3667.4	3576.3	3549.3	3542.6
27.5°	4801.1	4639.1	4429.9	4291.6	4109.4	3913.7	3728.2	3583.1	3471.7	3438.0	3427.9
30°	5020.4	4828.1	4568.3	4365.8	4109.4	3849.6	3616.8	3448.1	3319.9	3272.7	3265.9
32.5°	5239.7	5023.7	4693.1	4406.3	4068.9	3741.7	3471.7	3272.7	3127.6	3070.3	3083.7
35°	5502.8	5239.7	4807.8	4423.2	4001.4	3610.1	3306.4	3073.6	2925.2	2874.6	2884.7
37.5°	5776.1	5455.6	4898.9	4409.7	3907.0	3461.6	3120.9	2894.8	2709.2	2621.5	2631.6
40°	6012.3	5651.3	4963.0	4362.5	3785.5	3292.9	2938.7	2641.8	2385.3	2301.0	2290.9
42.5°	6235.0	5796.4	4996.7	4291.6	3647.2	3097.2	2678.9	2297.6	2041.2	1936.6	1940.0
45°	6467.8	5938.1	4983.3	4197.1	3475.1	2867.8	2344.9	1960.2	1734.2	1639.7	1643.1
47.5°	6734.3	6089.9	4969.8	4095.9	3265.9	2570.9	2024.3	1663.3	1467.6	1400.2	1393.4
50°	7017.7	6258.6	4952.9	3971.1	3033.1	2240.3	1707.2	1386.7	1221.4	1177.5	1167.4
52.5°	7338.2	6440.8	4942.8	3822.6	2753.1	1889.4	1423.8	1143.8	1032.4	1002.0	998.7
55°	7722.9	6653.3	4956.3	3643.8	2415.7	1558.7	1184.2	985.2	911.0	894.1	890.7
57.5°	8191.8	6926.6	4996.7	3434.6	2061.5	1272.0	1008.8	887.3	840.1	826.6	826.6
60°	8701.3	7237.0	5071.0	3198.5	1707.2	1049.3	894.1	809.7	789.5	806.4	806.4
62.5°	9251.2	7601.4	5202.6	2911.7	1376.6	887.3	803.0	745.6	732.1	765.9	769.2
65°	9760.7	7955.7	5286.9	2567.5	1093.1	769.2	732.1	681.5	688.3	722.0	718.6
67.5°	10074.5	8249.2	5168.8	2135.7	867.1	681.5	657.9	614.1	630.9	657.9	661.3
70°	9882.2	8083.9	4585.1	1612.7	678.2	593.8	576.9	549.9	563.4	597.2	610.7
72.5°	8940.8	7240.4	3566.2	1089.8	546.6	499.3	506.1	492.6	509.5	539.8	570.2
75°	7257.3	5472.5	2392.1	698.4	431.9	425.1	435.2	425.1	431.9	462.2	479.1
77.5°	3788.9	2668.8	1191.0	435.2	320.5	330.6	347.5	350.9	371.1	377.9	384.6
80°	1767.9	1201.1	496.0	242.9	212.6	232.8	266.5	269.9	276.7	286.8	290.2
82.5°	576.9	361.0	229.4	131.6	121.5	131.6	172.1	205.8	209.2	229.4	229.4
85°	60.7	37.1	50.6	54.0	47.2	57.4	77.6	74.2	33.7	20.2	20.2
87.5°	16.9	13.5	16.9	16.9	13.5	13.5	10.1	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)