

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: P841092

Luminaire Tested: **ARCH4-130-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841092
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: ARCH4-130-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22102 lumens
Efficiency: N/A
Efficacy: 167.4 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



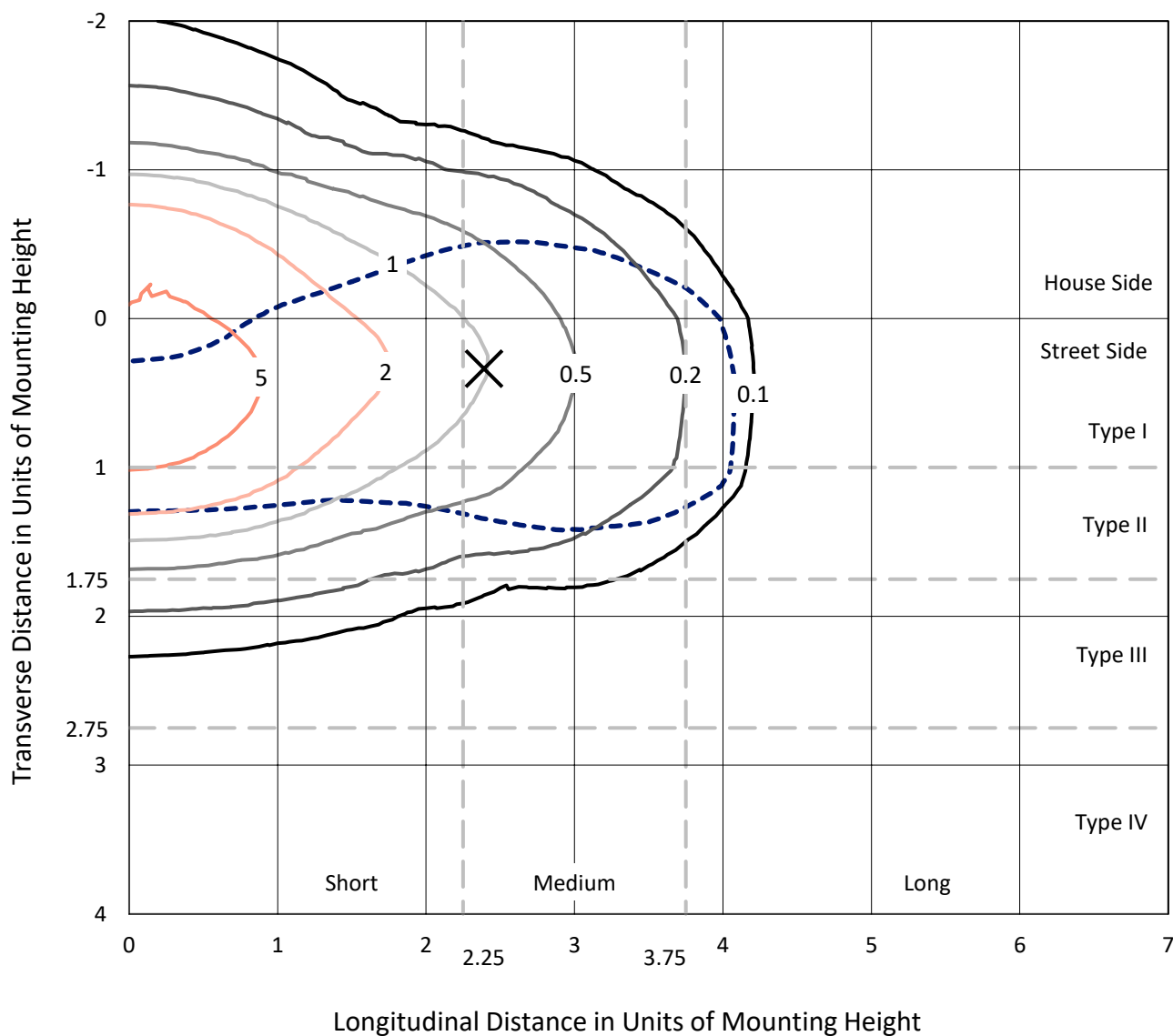
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

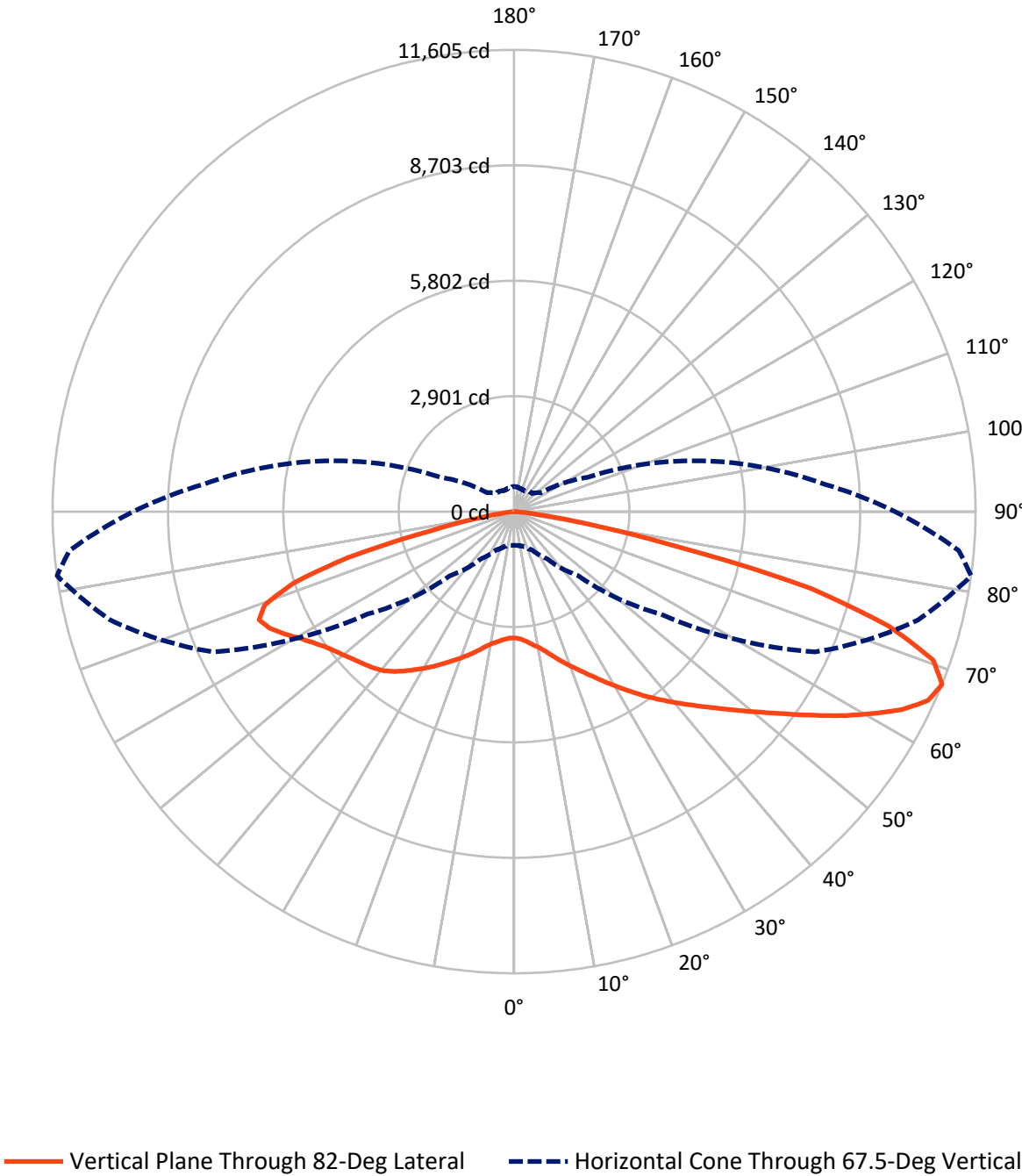
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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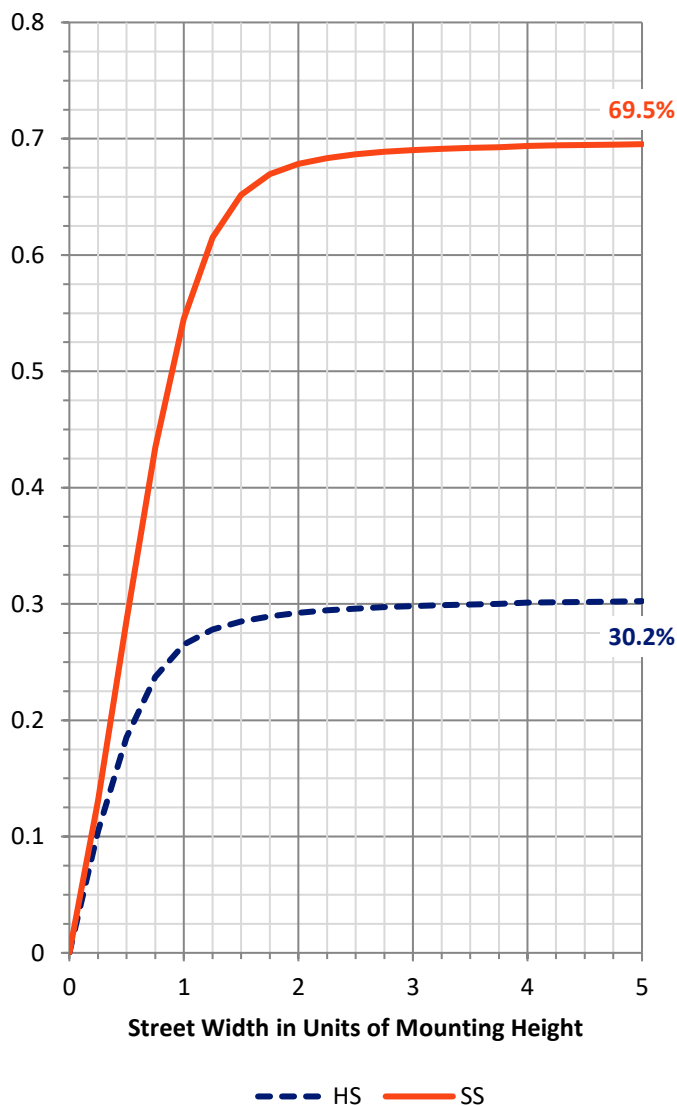
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6731.0	0.0	6731.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15371.0	0.0	15371.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	22102.0	0.0	22102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	1.5
10°-20°	1182.7	5.4
20°-30°	2377.0	10.8
30°-40°	3733.9	16.9
40°-50°	4548.6	20.6
50°-60°	4297.9	19.4
60°-70°	3549.1	16.1
70°-80°	1932.6	8.7
80°-90°	151.9	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°	22102.0	100.0
0°-180°	22102.0	100.0

Coefficient of Utilization



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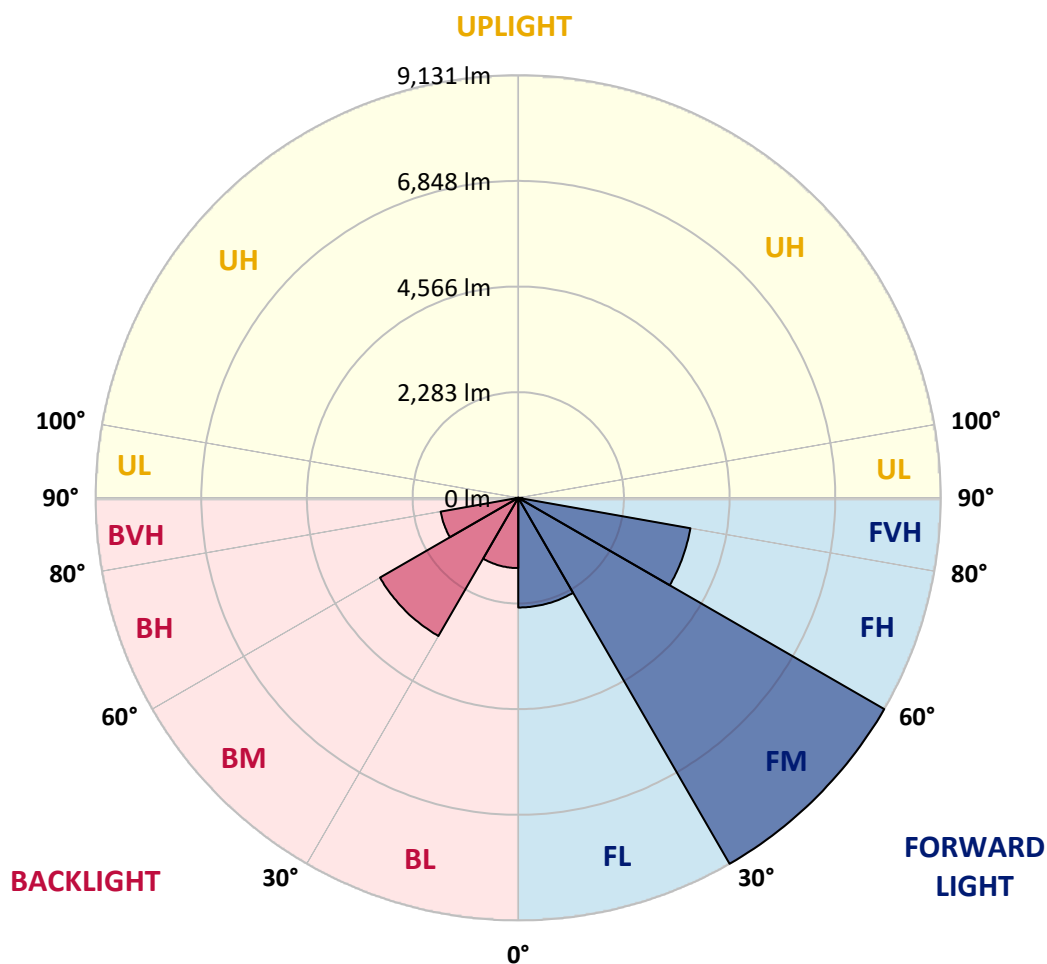
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2370.1	10.7			
FM	(30°-60°)	9131.3	41.3			
FH	(60°-80°)	3778.0	17.1			G2/5000
FVH	(80°-90°)	91.6	0.4			G1/100
BL	(0°-30°)	1517.9	6.9	B3/2500		
BM	(30°-60°)	3449.1	15.6	B3/5000		
BH	(60°-80°)	1703.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	60.4	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°	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2
2.5°	3321.6	3321.6	3347.2	3347.2	3324.8	3289.5	3279.8	3241.3	3206.0	3206.0	3209.2
5°	3639.3	3636.1	3655.3	3629.7	3575.1	3504.5	3456.4	3372.9	3302.3	3279.8	3276.6
7.5°	4027.6	4024.4	4034.0	3992.3	3889.6	3774.1	3677.8	3543.0	3427.5	3379.3	3366.5
10°	4460.8	4457.6	4448.0	4377.4	4239.4	4059.7	3915.3	3729.1	3555.8	3478.8	3462.8
12.5°	4958.3	4951.9	4929.4	4826.7	4637.4	4406.3	4197.7	3957.0	3725.9	3620.0	3584.7
15°	5513.5	5503.9	5462.1	5337.0	5083.4	4791.4	4521.8	4213.7	3931.3	3793.3	3745.2
17.5°	6097.6	6097.6	6033.4	5847.2	5564.8	5202.2	4868.4	4476.9	4146.3	3976.3	3918.5
20°	6691.3	6688.1	6607.8	6383.2	6049.4	5632.2	5208.6	4778.6	4367.8	4162.4	4091.8
22.5°	7317.1	7310.7	7211.2	6954.4	6556.5	6084.7	5590.5	5077.0	4611.7	4364.6	4274.7
25°	8035.9	8026.3	7904.4	7589.9	7118.1	6585.4	6020.5	5426.8	4890.9	4589.2	4483.3
27.5°	8799.7	8786.9	8642.5	8276.6	7760.0	7118.1	6495.5	5831.2	5199.0	4839.5	4720.8
30°	9480.1	9470.5	9313.2	8937.7	8344.0	7647.6	6948.0	6235.6	5523.1	5105.9	4958.3
32.5°	9993.6	9993.6	9852.4	9483.3	8867.1	8154.7	7403.7	6617.5	5860.1	5391.5	5218.2
35°	10304.9	10314.5	10192.6	9897.3	9316.4	8632.9	7875.5	7066.8	6219.5	5696.4	5510.3
37.5°	10349.8	10381.9	10311.3	10112.3	9627.7	9030.8	8337.6	7500.0	6591.8	6004.5	5795.9
40°	10141.2	10163.7	10166.9	10089.9	9756.1	9316.4	8745.2	7958.9	6986.5	6328.6	6087.9
42.5°	9724.0	9740.1	9768.9	9791.4	9663.0	9441.6	9056.5	8385.8	7406.9	6659.2	6376.8
45°	9184.9	9181.6	9229.8	9326.1	9319.6	9371.0	9229.8	8774.1	7843.4	7034.7	6697.7
47.5°	8379.3	8363.3	8533.4	8751.6	8860.7	9101.4	9233.0	9078.9	8318.4	7448.7	7063.5
50°	7118.1	7102.1	7474.3	7987.8	8308.7	8674.6	9056.5	9261.9	8815.8	7914.0	7461.5
52.5°	5584.1	5568.0	6039.8	6938.4	7638.0	8170.7	8700.3	9303.6	9287.6	8433.9	7910.8
55°	4152.8	4139.9	4598.8	5571.2	6704.1	7586.7	8263.8	9194.5	9730.4	9030.8	8456.4
57.5°	2926.8	2920.4	3318.4	4123.9	5503.9	6874.2	7843.4	8982.7	10138.0	9679.1	9072.5
60°	2053.9	2044.3	2333.1	2955.7	4162.4	5799.1	7426.2	8700.3	10442.9	10317.7	9727.2
62.5°	1383.2	1376.8	1582.2	2102.1	2955.7	4464.1	6794.0	8510.9	10616.2	10959.6	10388.3
65°	1049.4	1046.2	1139.3	1424.9	2092.4	3206.0	5789.5	8488.4	10638.6	11441.0	10949.9
67.5°	847.2	850.4	901.8	1065.5	1447.4	2278.6	4489.7	8347.2	10519.9	11604.6	11222.7
70°	693.2	693.2	715.7	824.8	1068.7	1537.2	3135.4	7705.4	10189.3	11177.8	10898.6
72.5°	529.5	532.7	603.3	667.5	805.5	1078.3	2009.0	6376.8	9409.5	9855.6	9643.8
75°	420.4	417.2	458.9	548.8	625.8	770.2	1232.3	4573.2	8007.1	7702.2	7567.4
77.5°	301.7	298.5	330.6	407.6	475.0	545.6	734.9	2307.4	4354.9	4001.9	3902.4
80°	205.4	199.0	227.9	282.4	314.5	320.9	359.4	885.8	1899.9	1790.8	1768.3
82.5°	105.9	105.9	122.0	160.5	163.7	166.9	160.5	285.6	629.0	587.3	561.6
85°	41.7	41.7	44.9	54.6	54.6	57.8	57.8	73.8	67.4	64.2	61.0
87.5°	3.2	3.2	6.4	6.4	9.6	9.6	9.6	12.8	16.0	16.0	16.0
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°	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2	3177.2
2.5°	3202.8	3190.0	3148.3	3138.6	3132.2	3122.6	3125.8	3103.3	3093.7	3096.9	3084.1
5°	3260.6	3238.1	3186.8	3164.3	3157.9	3148.3	3157.9	3141.8	3125.8	3132.2	3125.8
7.5°	3340.8	3308.7	3244.5	3222.1	3218.9	3209.2	3222.1	3209.2	3196.4	3202.8	3190.0
10°	3424.3	3382.5	3311.9	3289.5	3289.5	3286.3	3299.1	3279.8	3267.0	3270.2	3263.8
12.5°	3546.2	3491.7	3414.6	3395.4	3385.8	3395.4	3398.6	3372.9	3350.5	3353.7	3344.0
15°	3693.8	3632.9	3549.4	3520.5	3514.1	3510.9	3498.1	3466.0	3437.1	3433.9	3424.3
17.5°	3854.3	3777.3	3677.8	3648.9	3620.0	3610.4	3578.3	3536.6	3491.7	3491.7	3478.8
20°	4008.3	3921.7	3803.0	3761.2	3719.5	3681.0	3626.4	3559.1	3501.3	3491.7	3478.8
22.5°	4175.2	4072.5	3934.5	3873.6	3799.7	3722.7	3629.7	3539.8	3466.0	3449.9	3440.3
25°	4361.4	4233.0	4069.3	3979.5	3860.7	3742.0	3604.0	3488.4	3401.8	3376.1	3369.7
27.5°	4566.8	4412.7	4213.7	4082.2	3908.9	3722.7	3546.2	3408.2	3302.3	3270.2	3260.6
30°	4775.4	4592.4	4345.3	4152.8	3908.9	3661.7	3440.3	3279.8	3157.9	3113.0	3106.5
32.5°	4984.0	4778.6	4464.1	4191.3	3870.3	3559.1	3302.3	3113.0	2975.0	2920.4	2933.2
35°	5234.3	4984.0	4573.2	4207.3	3806.2	3433.9	3145.1	2923.6	2782.4	2734.3	2743.9
37.5°	5494.2	5189.3	4659.8	4194.5	3716.3	3292.7	2968.6	2753.5	2577.0	2493.6	2503.2
40°	5718.9	5375.5	4720.8	4149.6	3600.8	3132.2	2795.3	2512.8	2268.9	2188.7	2179.1
42.5°	5930.7	5513.5	4752.9	4082.2	3469.2	2946.1	2548.1	2185.5	1941.6	1842.1	1845.3
45°	6152.1	5648.3	4740.1	3992.3	3305.5	2727.9	2230.4	1864.6	1649.6	1559.7	1562.9
47.5°	6405.7	5792.7	4727.2	3896.0	3106.5	2445.4	1925.5	1582.2	1396.0	1331.8	1325.4
50°	6675.2	5953.1	4711.2	3777.3	2885.1	2130.9	1623.9	1319.0	1161.7	1120.0	1110.4
52.5°	6980.1	6126.4	4701.5	3636.1	2618.7	1797.2	1354.3	1087.9	982.0	953.1	949.9
55°	7346.0	6328.6	4714.4	3466.0	2297.8	1482.7	1126.4	937.1	866.5	850.4	847.2
57.5°	7792.0	6588.6	4752.9	3267.0	1960.8	1209.9	959.6	844.0	799.1	786.3	786.3
60°	8276.6	6883.8	4823.5	3042.4	1623.9	998.1	850.4	770.2	751.0	767.0	767.0
62.5°	8799.7	7230.4	4948.7	2769.6	1309.4	844.0	763.8	709.2	696.4	728.5	731.7
65°	9284.3	7567.4	5028.9	2442.2	1039.8	731.7	696.4	648.3	654.7	686.8	683.6
67.5°	9582.8	7846.6	4916.6	2031.5	824.8	648.3	625.8	584.1	600.1	625.8	629.0
70°	9399.9	7689.3	4361.4	1534.0	645.1	564.8	548.8	523.1	535.9	568.0	580.9
72.5°	8504.5	6887.0	3392.2	1036.6	519.9	475.0	481.4	468.5	484.6	513.5	542.4
75°	6903.1	5205.4	2275.4	664.3	410.8	404.4	414.0	404.4	410.8	439.7	455.7
77.5°	3604.0	2538.5	1132.9	414.0	304.9	314.5	330.6	333.8	353.0	359.4	365.9
80°	1681.6	1142.5	471.8	231.1	202.2	221.4	253.5	256.7	263.2	272.8	276.0
82.5°	548.8	343.4	218.2	125.2	115.5	125.2	163.7	195.8	199.0	218.2	218.2
85°	57.8	35.3	48.1	51.3	44.9	54.6	73.8	70.6	32.1	19.3	19.3
87.5°	16.0	12.8	16.0	16.0	12.8	12.8	9.6	3.2	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)