

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: P841123

Luminaire Tested: **ARCH4-130-750-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23181 lumens
Efficiency: N/A
Efficacy: 175.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - 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

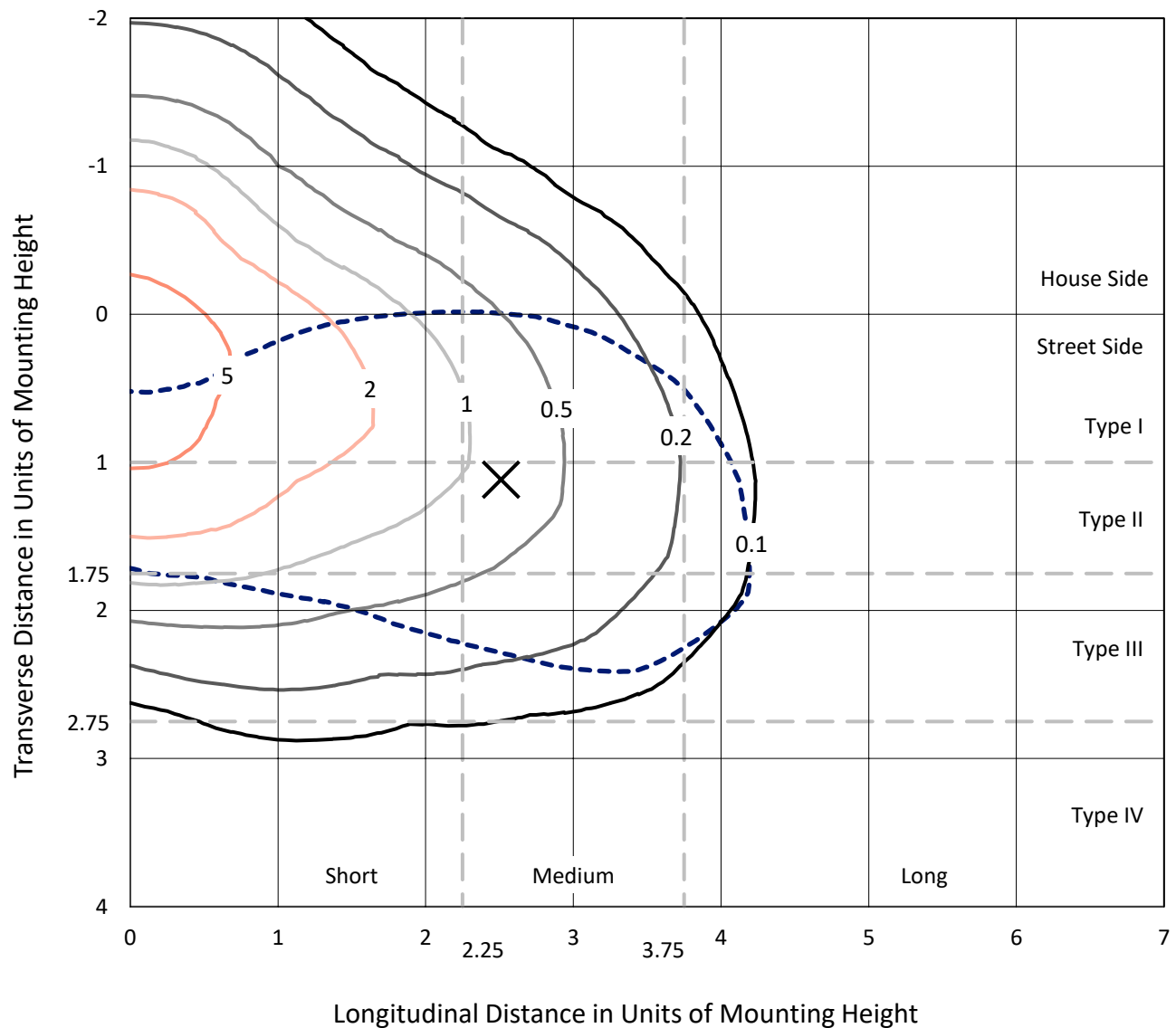


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Iso-Footcandle Lines of Horizontal Illumination

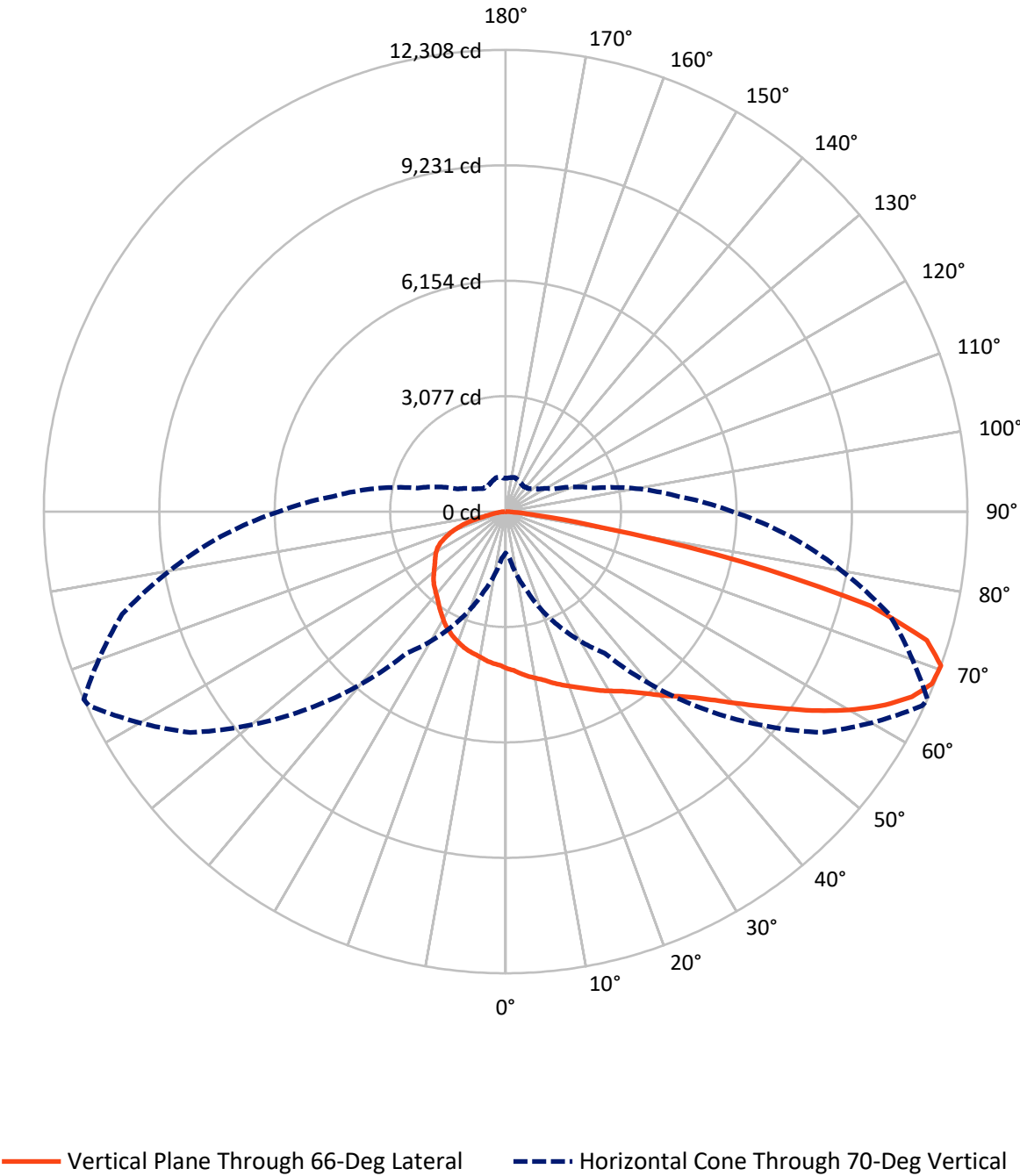
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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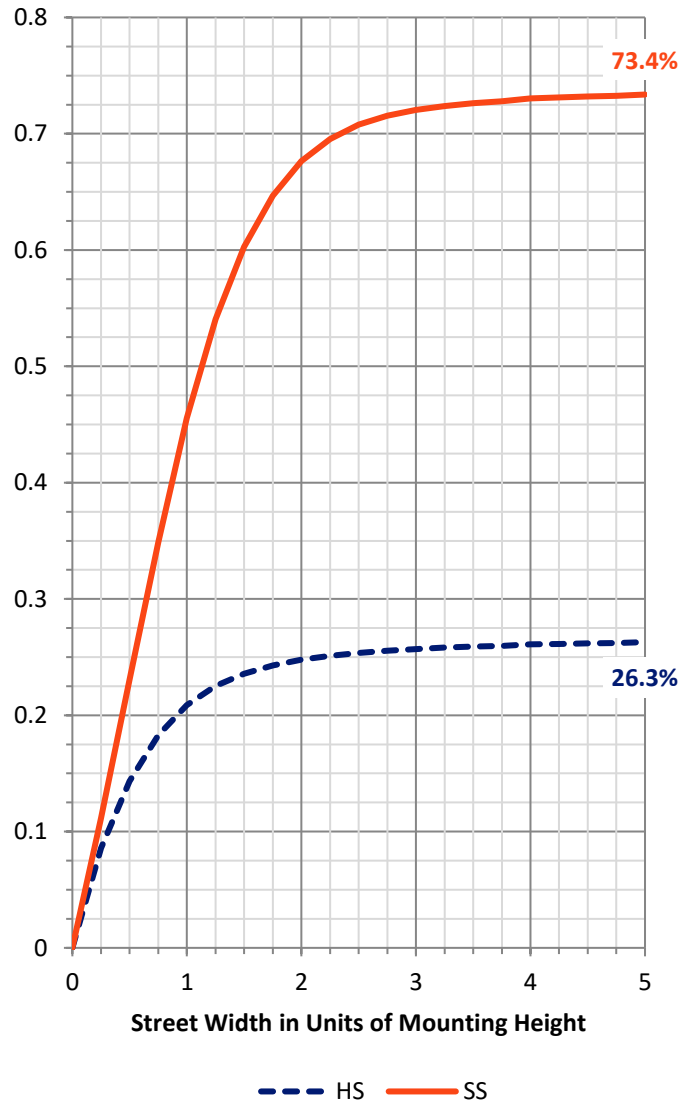
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6142.4	0.0	6142.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	17038.6	0.0	17038.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	23181.0	0.0	23181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	1.7
10°-20°	1205.9	5.2
20°-30°	2021.4	8.7
30°-40°	3026.7	13.1
40°-50°	4046.8	17.5
50°-60°	4724.7	20.4
60°-70°	4698.0	20.3
70°-80°	2781.3	12.0
80°-90°	274.1	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°	23181.0	100.0
0°-180°	23181.0	100.0

Coefficient of Utilization



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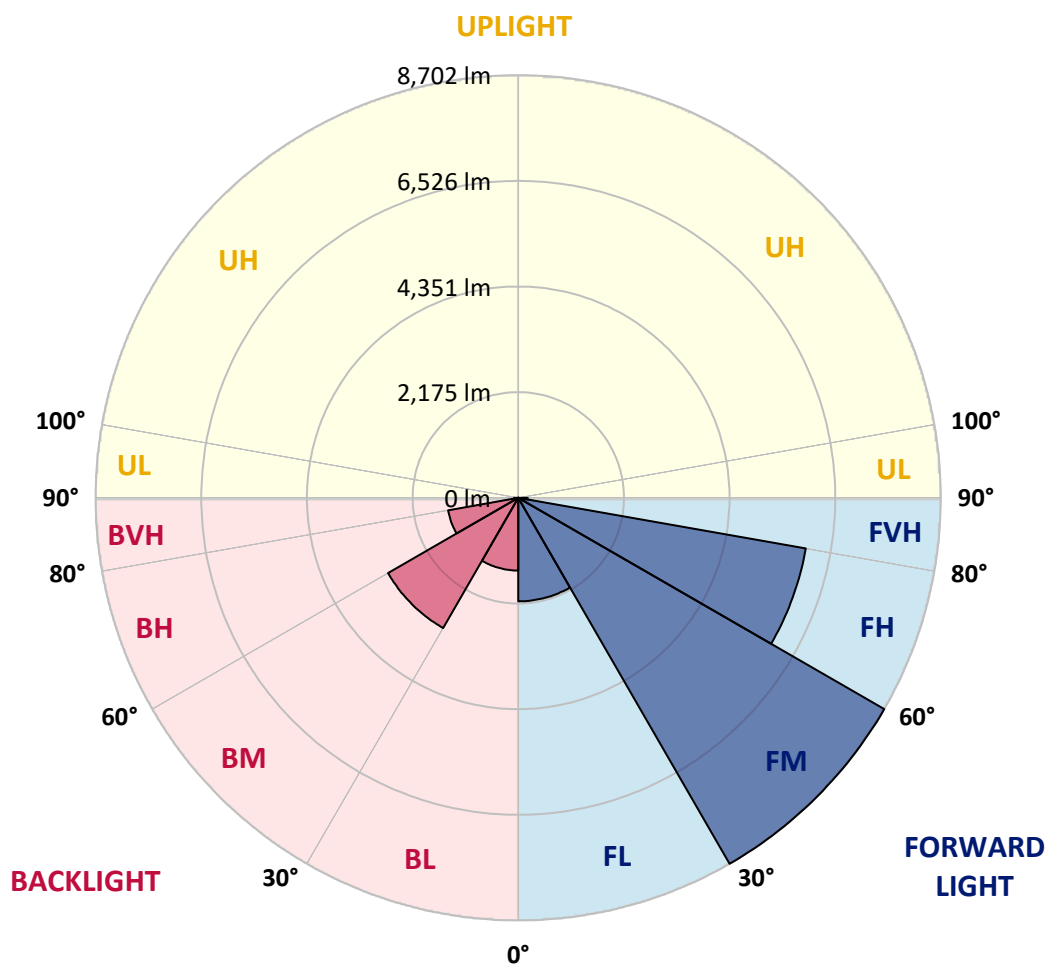
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2132.0	9.2			
FM	(30°-60°)	8701.8	37.5			
FH	(60°-80°)	6012.0	25.9			G3/7500
FVH	(80°-90°)	192.7	0.8			G2/225
BL	(0°-30°)	1497.3	6.5	B3/2500		
BM	(30°-60°)	3096.4	13.4	B3/5000		
BH	(60°-80°)	1467.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	81.5	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°	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6
2.5°	4337.5	4330.6	4327.2	4313.5	4282.8	4296.4	4265.7	4245.2	4241.7	4193.9	4166.6
5°	4515.2	4511.8	4504.9	4484.4	4436.6	4443.4	4392.1	4354.5	4344.3	4269.1	4211.0
7.5°	4665.6	4658.7	4655.3	4628.0	4576.7	4573.3	4511.8	4457.1	4440.0	4337.5	4248.6
10°	4781.8	4771.5	4778.4	4751.0	4696.3	4686.1	4607.5	4535.7	4518.6	4388.7	4265.7
12.5°	4880.9	4874.1	4884.3	4860.4	4816.0	4805.7	4727.1	4634.8	4614.3	4463.9	4303.3
15°	4990.3	4966.4	4986.9	4976.6	4945.9	4942.4	4870.7	4768.1	4740.8	4559.6	4361.4
17.5°	5048.4	5034.7	5058.7	5062.1	5048.4	5072.3	5004.0	4880.9	4857.0	4648.5	4412.6
20°	5089.4	5068.9	5096.3	5116.8	5127.0	5174.9	5120.2	5000.5	4973.2	4733.9	4460.5
22.5°	5229.6	5185.1	5188.5	5202.2	5209.0	5277.4	5243.2	5127.0	5099.7	4839.9	4518.6
25°	5581.6	5492.7	5434.6	5393.6	5345.8	5403.9	5383.4	5270.6	5246.6	4966.4	4590.4
27.5°	6128.5	6015.7	5899.5	5779.9	5591.9	5567.9	5533.8	5431.2	5403.9	5092.8	4662.2
30°	6750.6	6637.8	6501.1	6309.6	5957.6	5773.0	5694.4	5581.6	5550.8	5205.6	4730.5
32.5°	7369.2	7270.1	7133.4	6901.0	6398.5	6022.5	5855.0	5738.8	5708.1	5328.7	4812.6
35°	7851.2	7789.6	7700.8	7410.2	6836.0	6316.5	6087.5	5947.3	5913.2	5523.5	4962.9
37.5°	8240.8	8196.4	8121.2	7817.0	7153.9	6610.4	6354.1	6193.4	6155.8	5735.4	5123.6
40°	8815.0	8698.8	8637.3	8196.4	7430.8	6877.0	6654.9	6487.4	6446.4	5961.0	5253.5
42.5°	9303.8	9218.4	9143.2	8534.8	7693.9	7106.0	6938.6	6784.7	6730.1	6183.2	5393.6
45°	9385.9	9420.0	9382.4	8702.3	8110.9	7331.6	7225.7	7126.5	7075.3	6484.0	5605.5
47.5°	9389.3	9389.3	9167.1	8798.0	8627.1	7584.6	7533.3	7567.5	7512.8	6866.8	5858.5
50°	9143.2	9187.6	9071.4	8821.9	8763.8	7837.5	7909.3	8093.8	8039.2	7273.5	6131.9
52.5°	8633.9	8780.9	8777.4	8784.3	8565.5	8052.8	8305.8	8726.2	8633.9	7731.5	6422.4
55°	7735.0	8028.9	8292.1	8517.7	8394.6	8182.7	8791.1	9399.5	9303.8	8244.2	6716.4
57.5°	6965.9	7153.9	7482.0	8121.2	8193.0	8295.5	9245.7	10103.6	10018.2	8811.6	7024.0
60°	6087.5	6347.2	6675.4	7584.6	7946.9	8442.5	9744.7	10790.7	10708.6	9385.9	7321.4
62.5°	4737.4	5072.3	5728.6	6760.8	7588.0	8534.8	10137.8	11395.6	11358.0	9929.3	7588.0
65°	3301.8	3599.2	4518.6	5749.1	7017.2	8493.8	10452.3	11935.7	11901.5	10373.7	7776.0
67.5°	1927.8	2273.0	3312.1	4628.0	6008.9	8210.1	10554.8	12253.6	12253.6	10643.7	7827.2
70°	1100.6	1261.2	2184.1	3373.6	4607.5	7427.3	10267.7	12250.1	12308.2	10582.2	7615.3
72.5°	769.1	840.8	1469.7	2269.6	3124.1	6008.9	9515.7	11658.8	11737.4	10001.1	6890.7
75°	598.2	649.4	1035.7	1548.4	1968.8	4081.1	7871.7	9830.2	10038.7	8524.5	5571.4
77.5°	454.6	492.2	605.0	967.3	1261.2	2344.8	5195.4	6446.4	6460.0	5219.3	2987.3
80°	331.5	369.1	403.3	591.3	669.9	1097.2	1961.9	2693.4	2618.2	2525.9	1616.7
82.5°	198.2	235.8	246.1	321.3	328.1	468.3	687.0	868.2	834.0	1110.9	758.8
85°	85.5	119.6	126.5	147.0	140.1	191.4	273.4	229.0	205.1	235.8	164.1
87.5°	20.5	34.2	34.2	37.6	30.8	47.9	51.3	37.6	34.2	41.0	41.0
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°	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6
2.5°	4159.7	4149.5	4152.9	4094.8	4077.7	4060.6	4050.3	4043.5	4036.7	4046.9	4057.2
5°	4190.5	4166.6	4139.2	4053.8	4019.6	3982.0	3954.6	3930.7	3920.5	3920.5	3930.7
7.5°	4214.4	4173.4	4115.3	4002.5	3941.0	3889.7	3845.3	3814.5	3797.4	3797.4	3807.7
10°	4217.8	4159.7	4067.4	3930.7	3848.7	3773.5	3722.2	3688.0	3664.1	3664.1	3670.9
12.5°	4238.3	4159.7	4040.1	3876.0	3773.5	3681.2	3619.7	3568.4	3558.1	3558.1	3565.0
15°	4272.5	4176.8	4023.0	3828.2	3705.1	3599.2	3530.8	3476.1	3455.6	3469.3	3472.7
17.5°	4303.3	4187.1	3992.2	3766.6	3619.7	3503.5	3428.3	3380.4	3353.1	3383.8	3383.8
20°	4323.8	4187.1	3947.8	3688.0	3527.4	3397.5	3325.7	3267.6	3247.1	3284.7	3288.1
22.5°	4354.5	4183.6	3899.9	3609.4	3428.3	3291.5	3219.8	3175.3	3165.1	3206.1	3219.8
25°	4388.7	4190.5	3848.7	3520.5	3318.9	3185.6	3130.9	3110.4	3117.2	3168.5	3185.6
27.5°	4426.3	4204.2	3797.4	3421.4	3199.3	3079.6	3048.9	3059.1	3086.5	3151.4	3171.9
30°	4460.5	4207.6	3725.6	3305.2	3062.5	2949.7	2963.4	3007.8	3048.9	3113.8	3137.7
32.5°	4504.9	4211.0	3650.4	3178.7	2915.6	2833.5	2895.1	2966.8	3007.8	3069.4	3096.7
35°	4614.3	4269.1	3592.3	3055.7	2778.8	2734.4	2836.9	2929.2	2953.2	3007.8	3031.8
37.5°	4740.8	4364.8	3561.6	2929.2	2645.5	2635.3	2765.2	2857.5	2864.3	2898.5	2922.4
40°	4819.4	4405.8	3527.4	2823.3	2525.9	2532.7	2666.0	2737.8	2724.2	2748.1	2765.2
42.5°	4898.0	4419.5	3455.6	2734.4	2413.1	2420.0	2522.5	2573.8	2580.6	2631.9	2655.8
45°	5031.3	4457.1	3377.0	2652.4	2310.6	2286.6	2348.2	2416.5	2505.4	2604.5	2631.9
47.5°	5209.0	4535.7	3295.0	2553.3	2211.5	2132.8	2156.8	2276.4	2368.7	2461.0	2478.1
50°	5390.2	4614.3	3219.8	2433.6	2112.3	1968.8	1979.0	2088.4	2163.6	2235.4	2245.6
52.5°	5567.9	4682.7	3154.8	2320.8	1999.5	1773.9	1815.0	1927.8	1979.0	2013.2	2023.5
55°	5745.7	4740.8	3096.7	2225.1	1869.7	1620.1	1657.7	1763.7	1815.0	1832.1	1838.9
57.5°	5930.2	4809.1	3052.3	2143.1	1722.7	1483.4	1507.3	1582.5	1630.4	1650.9	1644.1
60°	6084.1	4867.2	3028.4	2057.6	1575.7	1356.9	1350.1	1418.5	1486.8	1507.3	1500.5
62.5°	6203.7	4904.8	2990.8	1948.3	1445.8	1230.5	1196.3	1285.2	1356.9	1370.6	1380.9
65°	6268.6	4908.3	2898.5	1808.1	1312.5	1093.8	1069.8	1158.7	1203.1	1216.8	1216.8
67.5°	6258.4	4853.6	2717.3	1620.1	1189.5	970.7	950.2	1004.9	1069.8	1080.1	1069.8
70°	6046.5	4628.0	2426.8	1421.9	1042.5	861.3	823.7	878.4	940.0	902.4	885.3
72.5°	5444.9	4043.5	1999.5	1203.1	878.4	724.6	707.5	762.2	765.6	772.5	755.4
75°	4296.4	3011.3	1497.1	936.5	710.9	608.4	605.0	594.7	608.4	635.7	615.2
77.5°	2255.9	1503.9	810.1	574.2	516.1	488.8	464.8	461.4	502.4	519.5	499.0
80°	1223.6	844.2	464.8	345.2	314.5	317.9	348.6	341.8	386.2	396.5	379.4
82.5°	533.2	399.9	229.0	208.5	208.5	205.1	215.3	239.3	287.1	287.1	229.0
85°	116.2	99.1	88.9	102.5	116.2	116.2	116.2	116.2	82.0	44.4	30.8
87.5°	37.6	37.6	37.6	41.0	44.4	44.4	37.6	27.3	17.1	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)