

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: P836491

Luminaire Tested: **ARCH3-190-740-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836491
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: ARCH3-190-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25900 lumens
Efficiency: N/A
Efficacy: 136.7 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): 189.4
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



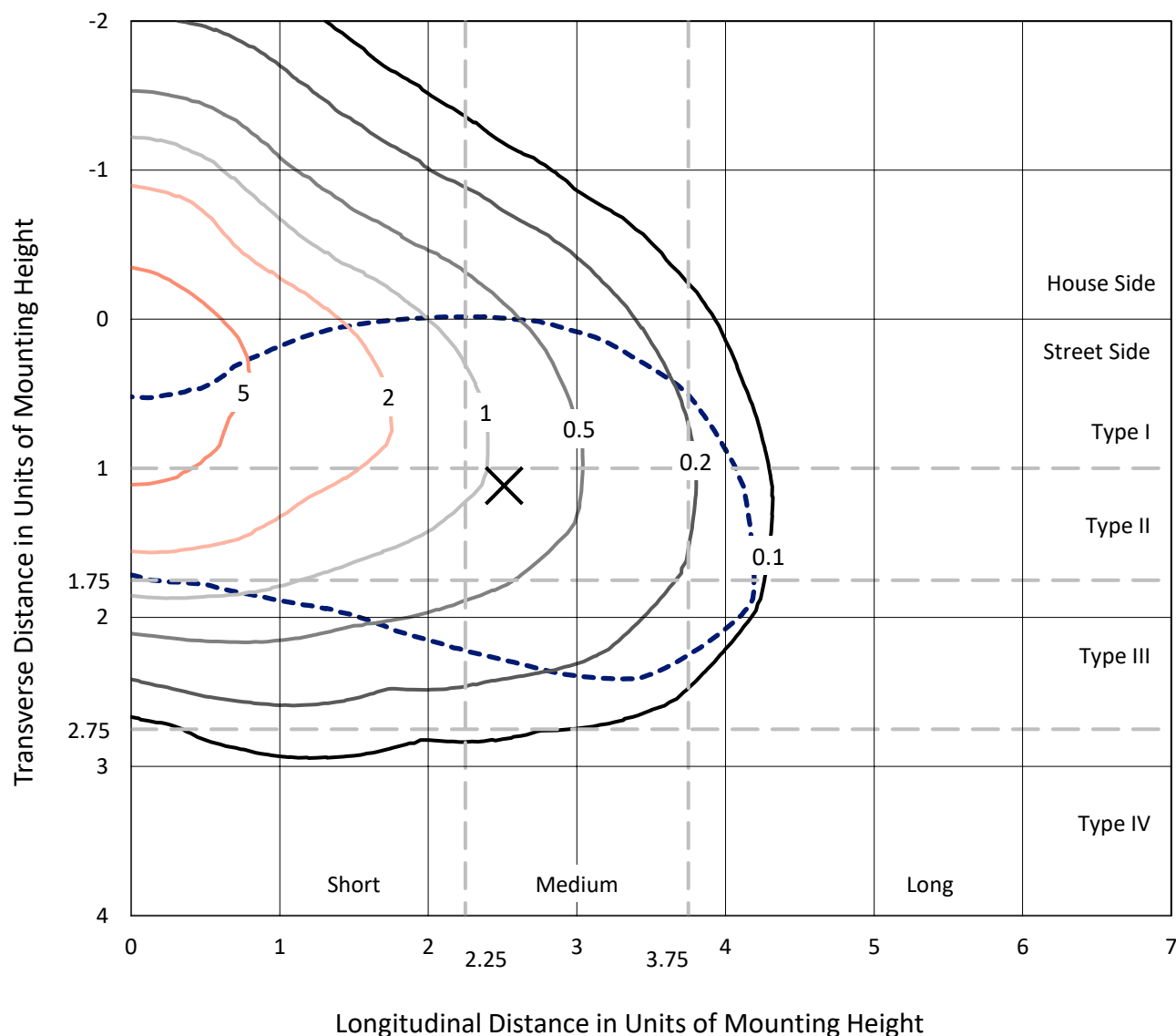
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

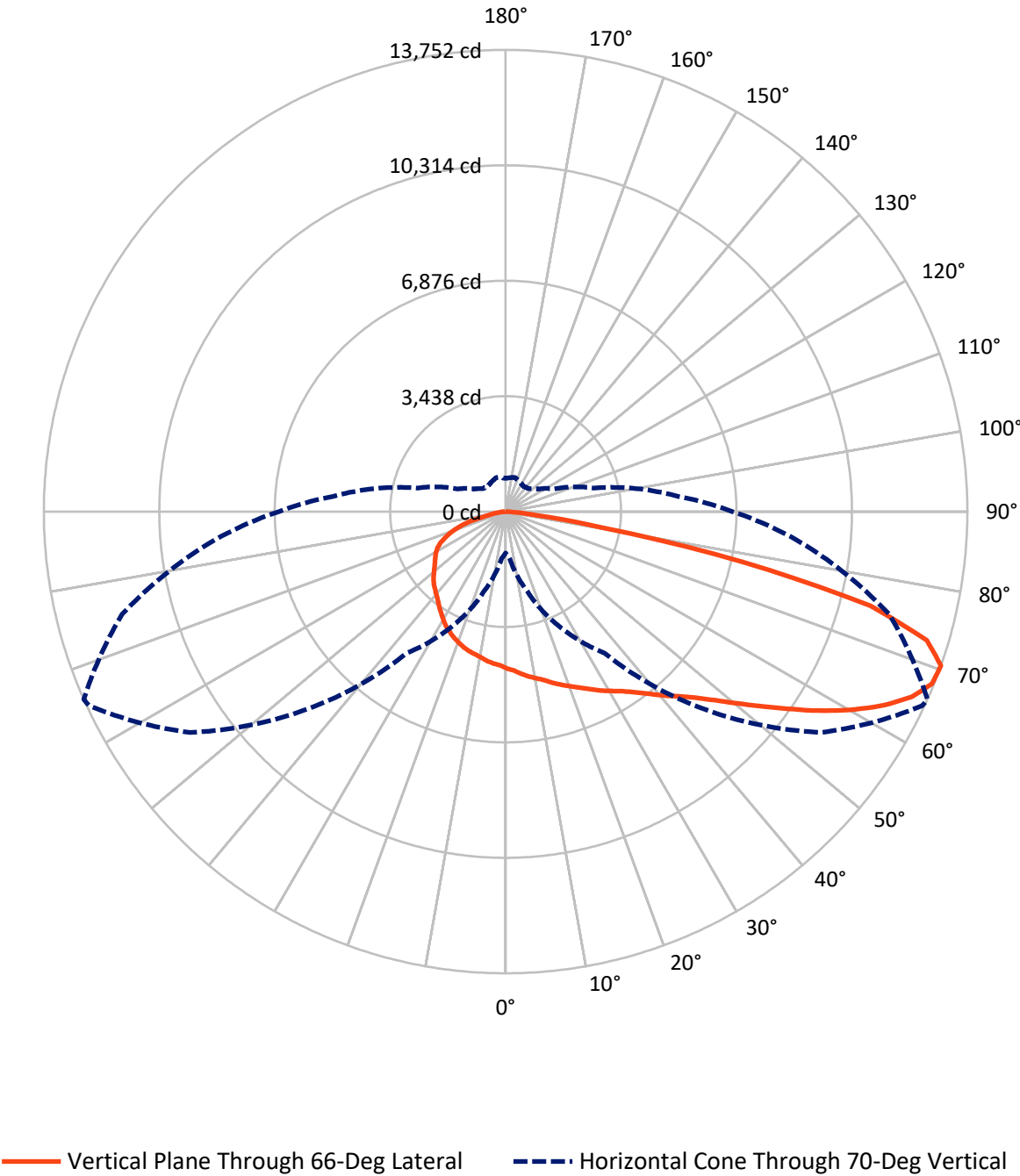
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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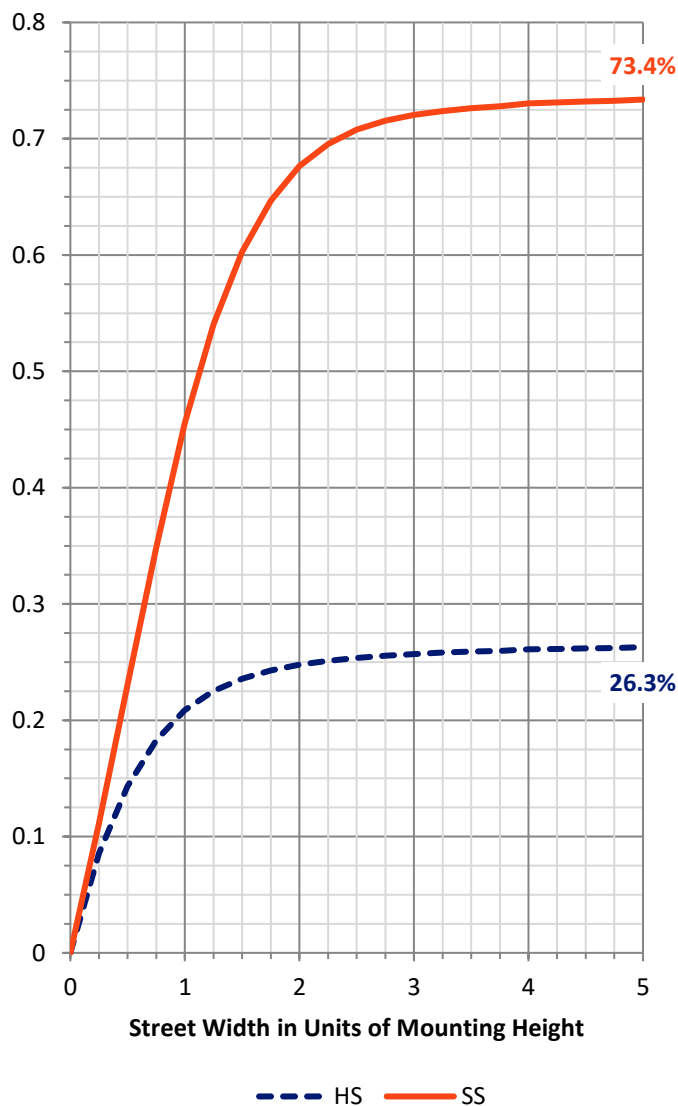
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6862.9	0.0	6862.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	19037.1	0.0	19037.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	25900.0	0.0	25900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.2	1.7
10°-20°	1347.3	5.2
20°-30°	2258.5	8.7
30°-40°	3381.8	13.1
40°-50°	4521.4	17.5
50°-60°	5278.9	20.4
60°-70°	5249.1	20.3
70°-80°	3107.5	12.0
80°-90°	306.3	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°	25900.0	100.0
0°-180°	25900.0	100.0

Coefficient of Utilization



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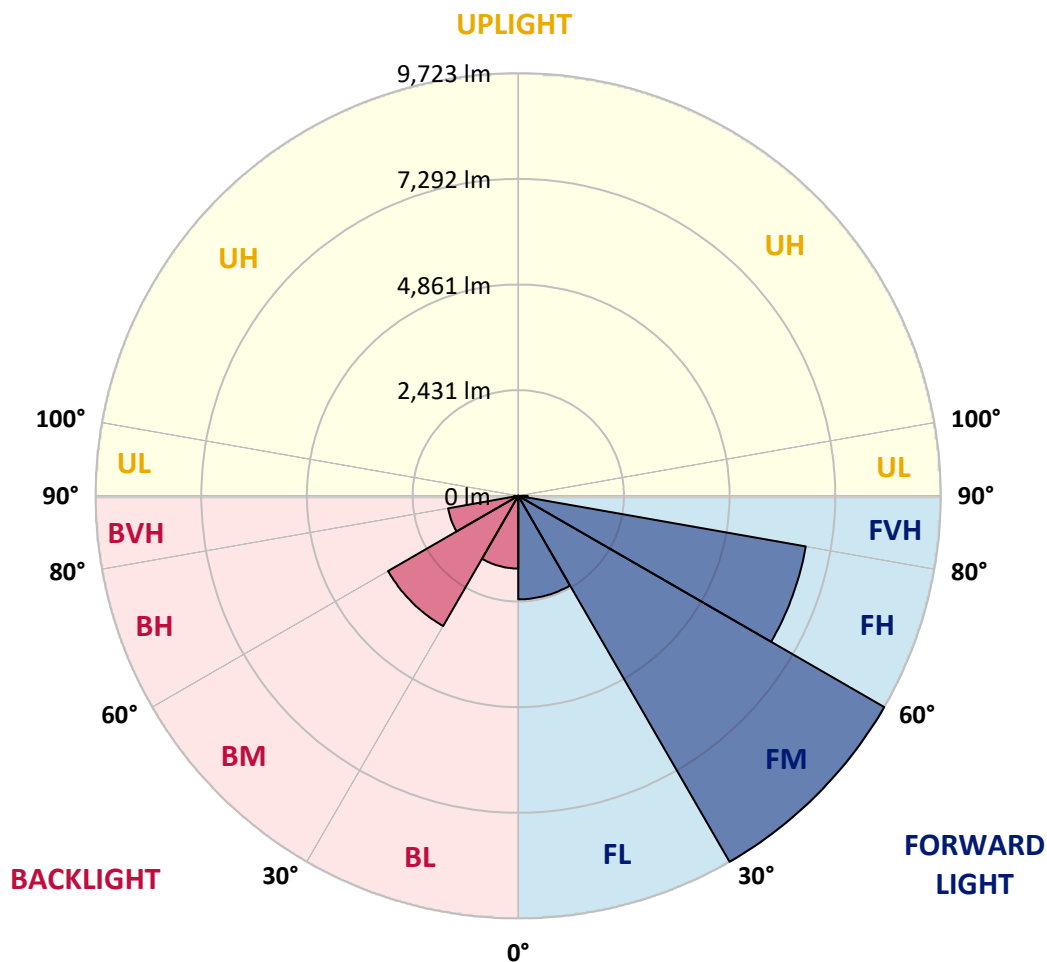
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2382.1	9.2			
FM	(30°-60°)	9722.5	37.5			
FH	(60°-80°)	6717.2	25.9			G3/7500
FVH	(80°-90°)	215.3	0.8			G2/225
BL	(0°-30°)	1672.9	6.5	B3/2500		
BM	(30°-60°)	3459.6	13.4	B3/5000		
BH	(60°-80°)	1639.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	91.0	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°	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4
2.5°	4846.2	4838.6	4834.8	4819.5	4785.1	4800.4	4766.0	4743.1	4739.3	4685.8	4655.3
5°	5044.8	5041.0	5033.3	5010.4	4957.0	4964.6	4907.3	4865.3	4853.8	4769.8	4704.9
7.5°	5212.8	5205.2	5201.4	5170.8	5113.5	5109.7	5041.0	4979.9	4960.8	4846.2	4746.9
10°	5342.7	5331.2	5338.9	5308.3	5247.2	5235.7	5147.9	5067.7	5048.6	4903.5	4766.0
12.5°	5453.4	5445.8	5457.2	5430.5	5380.9	5369.4	5281.6	5178.5	5155.5	4987.5	4808.0
15°	5575.6	5548.9	5571.8	5560.4	5526.0	5522.2	5442.0	5327.4	5296.8	5094.4	4872.9
17.5°	5640.5	5625.3	5652.0	5655.8	5640.5	5667.3	5590.9	5453.4	5426.7	5193.7	4930.2
20°	5686.4	5663.5	5694.0	5716.9	5728.4	5781.8	5720.7	5587.1	5556.5	5289.2	4983.7
22.5°	5843.0	5793.3	5797.1	5812.4	5820.0	5896.4	5858.2	5728.4	5697.8	5407.6	5048.6
25°	6236.3	6137.0	6072.1	6026.3	5972.8	6037.7	6014.8	5888.8	5862.0	5548.9	5128.8
27.5°	6847.3	6721.3	6591.5	6457.8	6247.8	6221.0	6182.8	6068.3	6037.7	5690.2	5209.0
30°	7542.4	7416.3	7263.6	7049.7	6656.4	6450.2	6362.3	6236.3	6201.9	5816.2	5285.4
32.5°	8233.6	8122.8	7970.1	7710.4	7149.0	6728.9	6541.8	6412.0	6377.6	5953.7	5377.0
35°	8772.1	8703.3	8604.0	8279.4	7637.8	7057.4	6801.5	6644.9	6606.7	6171.4	5545.1
37.5°	9207.4	9157.8	9073.8	8733.9	7993.0	7385.8	7099.4	6919.9	6877.9	6408.2	5724.6
40°	9849.0	9719.2	9650.4	9157.8	8302.3	7683.7	7435.4	7248.3	7202.5	6660.2	5869.7
42.5°	10395.1	10299.6	10215.6	9535.8	8596.4	7939.5	7752.4	7580.6	7519.5	6908.4	6026.3
45°	10486.8	10524.9	10482.9	9723.0	9062.3	8191.6	8073.2	7962.5	7905.2	7244.5	6263.0
47.5°	10490.6	10490.6	10242.3	9829.9	9639.0	8474.2	8416.9	8455.1	8394.0	7672.2	6545.6
50°	10215.6	10265.3	10135.4	9856.6	9791.7	8756.8	8837.0	9043.2	8982.1	8126.7	6851.1
52.5°	9646.6	9810.8	9807.0	9814.6	9570.2	8997.4	9280.0	9749.7	9646.6	8638.4	7175.8
55°	8642.2	8970.6	9264.7	9516.8	9379.3	9142.5	9822.3	10502.0	10395.1	9211.2	7504.2
57.5°	7783.0	7993.0	8359.6	9073.8	9154.0	9268.5	10330.2	11288.7	11193.3	9845.2	7847.9
60°	6801.5	7091.7	7458.4	8474.2	8879.0	9432.7	10887.7	12056.3	11964.7	10486.8	8180.1
62.5°	5293.0	5667.3	6400.5	7553.8	8478.0	9535.8	11326.9	12732.3	12690.3	11094.0	8478.0
65°	3689.1	4021.3	5048.6	6423.4	7840.2	9490.0	11678.3	13335.7	13297.5	11590.4	8688.0
67.5°	2153.9	2539.6	3700.5	5170.8	6713.7	9173.0	11792.8	13690.8	13690.8	11892.1	8745.3
70°	1229.7	1409.2	2440.3	3769.3	5147.9	8298.5	11472.0	13687.0	13751.9	11823.4	8508.6
72.5°	859.3	939.5	1642.1	2535.8	3490.5	6713.7	10631.9	13026.3	13114.2	11174.2	7698.9
75°	668.3	725.6	1157.1	1730.0	2199.7	4559.8	8795.0	10983.2	11216.2	9524.4	6224.8
77.5°	507.9	549.9	675.9	1080.8	1409.2	2619.8	5804.8	7202.5	7217.8	5831.5	3337.7
80°	370.4	412.4	450.6	660.7	748.5	1225.9	2192.1	3009.3	2925.3	2822.2	1806.3
82.5°	221.5	263.5	275.0	359.0	366.6	523.2	767.6	970.0	931.8	1241.1	847.8
85°	95.5	133.7	141.3	164.2	156.6	213.9	305.5	255.9	229.1	263.5	183.3
87.5°	22.9	38.2	38.2	42.0	34.4	53.5	57.3	42.0	38.2	45.8	45.8
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°	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4
2.5°	4647.6	4636.2	4640.0	4575.1	4556.0	4536.9	4525.4	4517.8	4510.1	4521.6	4533.1
5°	4682.0	4655.3	4624.7	4529.2	4491.1	4449.0	4418.5	4391.8	4380.3	4380.3	4391.8
7.5°	4708.7	4662.9	4598.0	4472.0	4403.2	4345.9	4296.3	4261.9	4242.8	4242.8	4254.3
10°	4712.5	4647.6	4544.5	4391.8	4300.1	4216.1	4158.8	4120.6	4093.9	4093.9	4101.5
12.5°	4735.5	4647.6	4514.0	4330.7	4216.1	4113.0	4044.2	3987.0	3975.5	3975.5	3983.1
15°	4773.7	4666.7	4494.9	4277.2	4139.7	4021.3	3944.9	3883.8	3860.9	3876.2	3880.0
17.5°	4808.0	4678.2	4460.5	4208.5	4044.2	3914.4	3830.4	3776.9	3746.4	3780.7	3780.7
20°	4830.9	4678.2	4410.9	4120.6	3941.1	3796.0	3715.8	3650.9	3628.0	3670.0	3673.8
22.5°	4865.3	4674.4	4357.4	4032.8	3830.4	3677.6	3597.4	3547.8	3536.3	3582.1	3597.4
25°	4903.5	4682.0	4300.1	3933.5	3708.2	3559.2	3498.1	3475.2	3482.9	3540.1	3559.2
27.5°	4945.5	4697.3	4242.8	3822.7	3574.5	3440.8	3406.5	3417.9	3448.5	3521.0	3544.0
30°	4983.7	4701.1	4162.6	3692.9	3421.8	3295.7	3311.0	3360.7	3406.5	3479.0	3505.8
32.5°	5033.3	4704.9	4078.6	3551.6	3257.5	3165.9	3234.6	3314.8	3360.7	3429.4	3459.9
35°	5155.5	4769.8	4013.7	3414.1	3104.8	3055.1	3169.7	3272.8	3299.5	3360.7	3387.4
37.5°	5296.8	4876.8	3979.3	3272.8	2955.8	2944.4	3089.5	3192.6	3200.3	3238.4	3265.2
40°	5384.7	4922.6	3941.1	3154.4	2822.2	2829.8	2978.8	3059.0	3043.7	3070.4	3089.5
42.5°	5472.5	4937.9	3860.9	3055.1	2696.2	2703.8	2818.4	2875.6	2883.3	2940.6	2967.3
45°	5621.5	4979.9	3773.1	2963.5	2581.6	2554.9	2623.6	2700.0	2799.3	2910.0	2940.6
47.5°	5820.0	5067.7	3681.4	2852.7	2470.8	2383.0	2409.7	2543.4	2646.5	2749.6	2768.7
50°	6022.4	5155.5	3597.4	2719.1	2360.1	2199.7	2211.2	2333.4	2417.4	2497.6	2509.0
52.5°	6221.0	5231.9	3524.9	2593.0	2234.1	1982.0	2027.8	2153.9	2211.2	2249.3	2260.8
55°	6419.6	5296.8	3459.9	2486.1	2089.0	1810.2	1852.2	1970.6	2027.8	2046.9	2054.6
57.5°	6625.8	5373.2	3410.3	2394.5	1924.7	1657.4	1684.1	1768.2	1821.6	1844.5	1836.9
60°	6797.7	5438.1	3383.6	2299.0	1760.5	1516.1	1508.5	1584.9	1661.2	1684.1	1676.5
62.5°	6931.3	5480.2	3341.6	2176.8	1615.4	1374.8	1336.6	1435.9	1516.1	1531.4	1542.8
65°	7003.9	5484.0	3238.4	2020.2	1466.5	1222.1	1195.3	1294.6	1344.3	1359.5	1359.5
67.5°	6992.4	5422.9	3036.0	1810.2	1329.0	1084.6	1061.7	1122.8	1195.3	1206.8	1195.3
70°	6755.7	5170.8	2711.4	1588.7	1164.8	962.4	920.4	981.5	1050.2	1008.2	989.1
72.5°	6083.5	4517.8	2234.1	1344.3	981.5	809.6	790.5	851.6	855.4	863.1	844.0
75°	4800.4	3364.5	1672.7	1046.4	794.3	679.8	675.9	664.5	679.8	710.3	687.4
77.5°	2520.5	1680.3	905.1	641.6	576.7	546.1	519.4	515.6	561.4	580.5	557.6
80°	1367.2	943.3	519.4	385.7	351.3	355.2	389.5	381.9	431.5	443.0	423.9
82.5°	595.8	446.8	255.9	233.0	233.0	229.1	240.6	267.3	320.8	320.8	255.9
85°	129.8	110.7	99.3	114.6	129.8	129.8	129.8	129.8	91.7	49.6	34.4
87.5°	42.0	42.0	42.0	45.8	49.6	49.6	42.0	30.6	19.1	3.8	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)