

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: P841881

Luminaire Tested: **ARCH4-240-727-U-T4W**

Issue Date: 5/27/2024

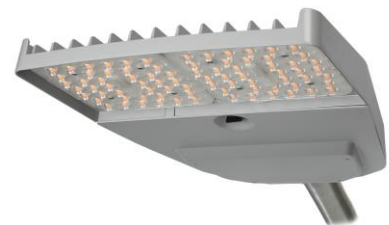
Test Information

Test Method: LM-79-08
Report Number: P841881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33683 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 240.2
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



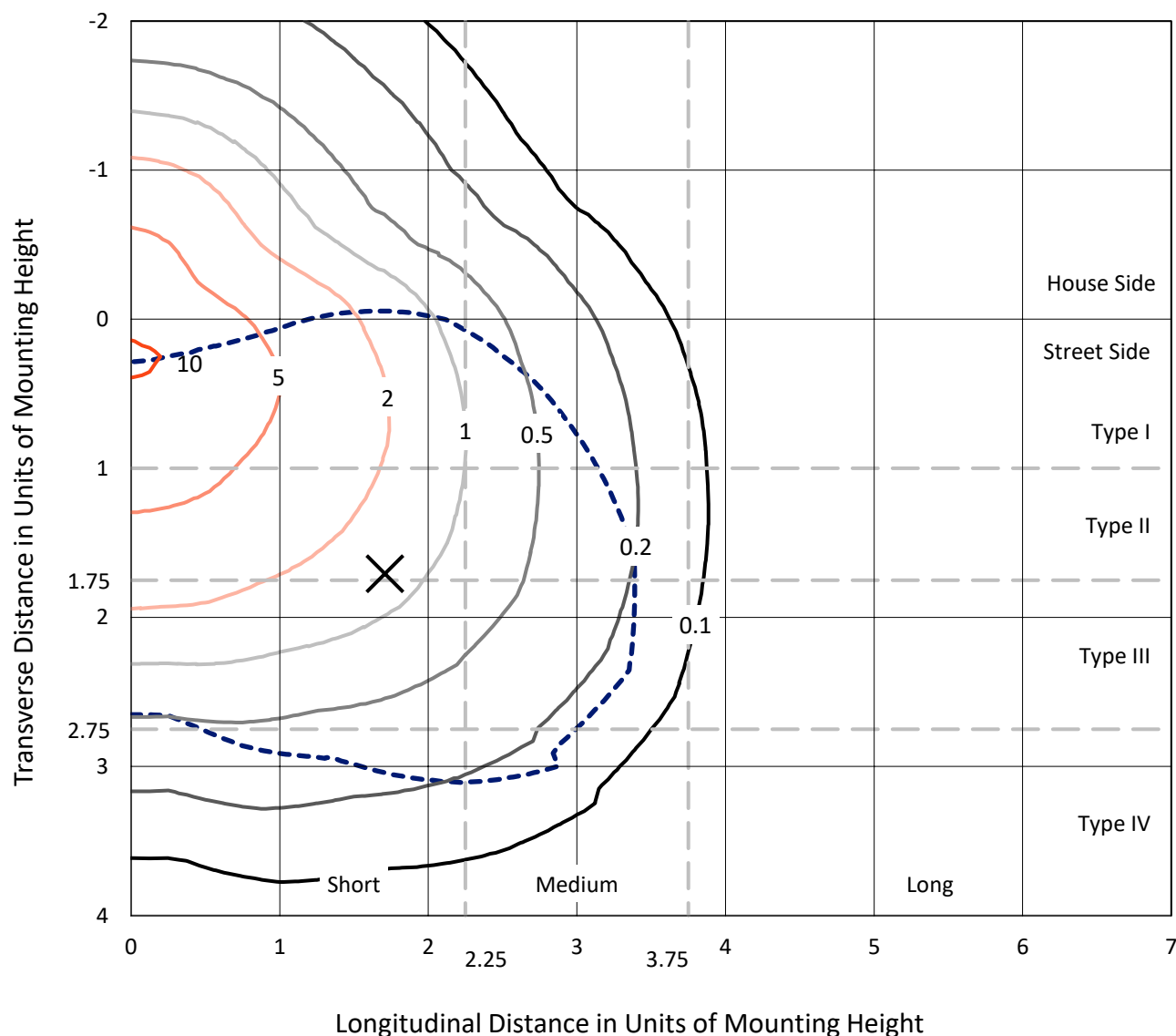
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

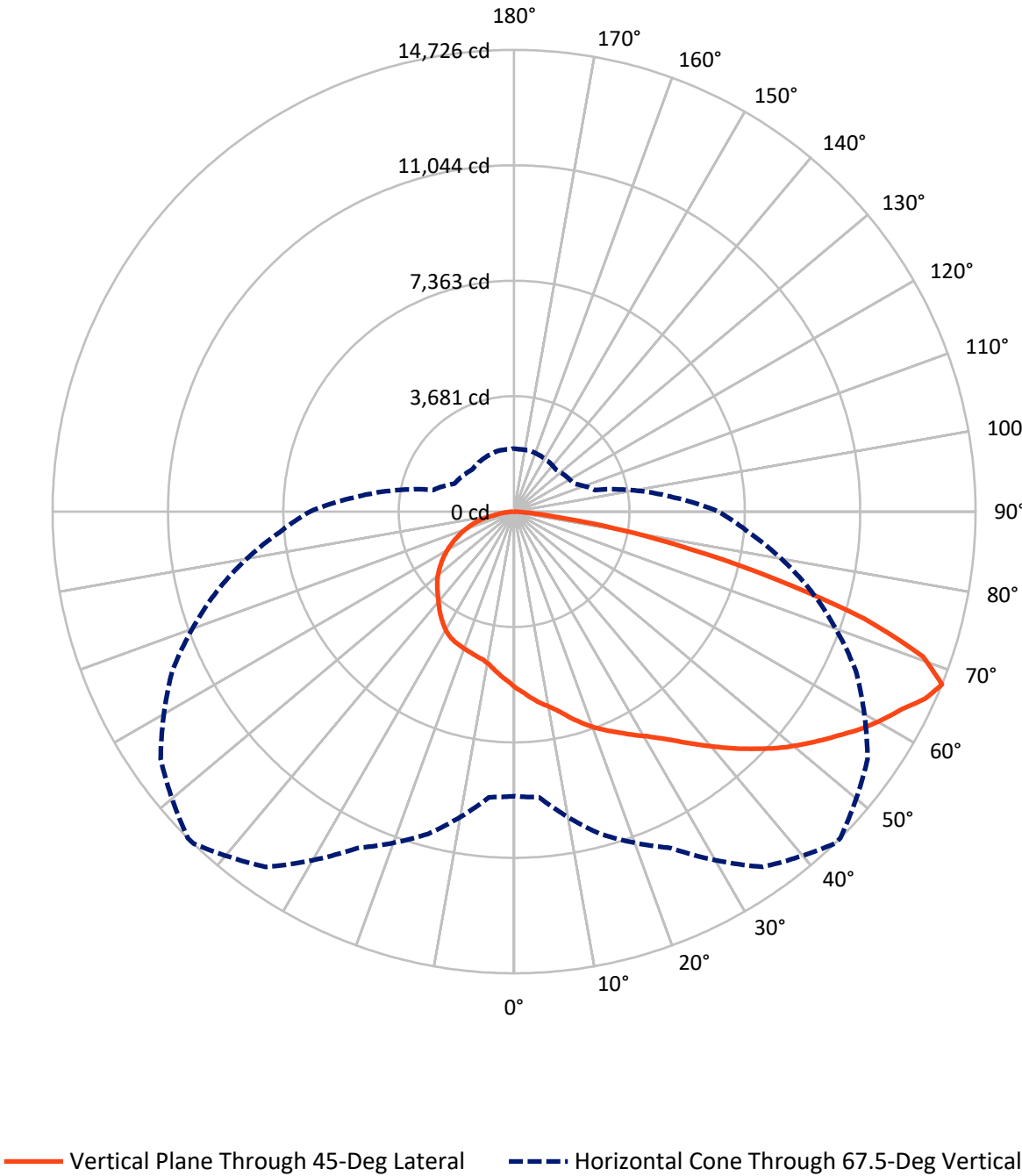


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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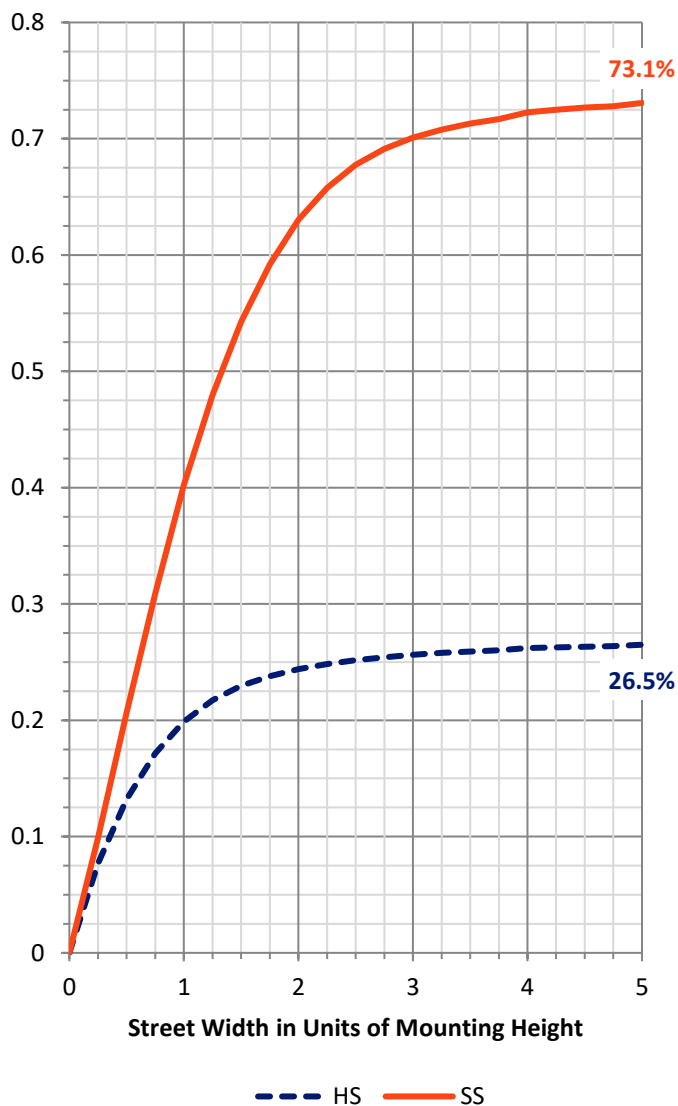
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8998.5	0.0	8998.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	24684.6	0.0	24684.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	33683.0	0.0	33683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.9	1.6
10°-20°	1661.5	4.9
20°-30°	2868.0	8.5
30°-40°	4229.3	12.6
40°-50°	5729.9	17.0
50°-60°	7003.2	20.8
60°-70°	7222.9	21.4
70°-80°	3956.2	11.7
80°-90°	474.2	1.4
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°	33683.0	100.0
0°-180°	33683.0	100.0

Coefficient of Utilization



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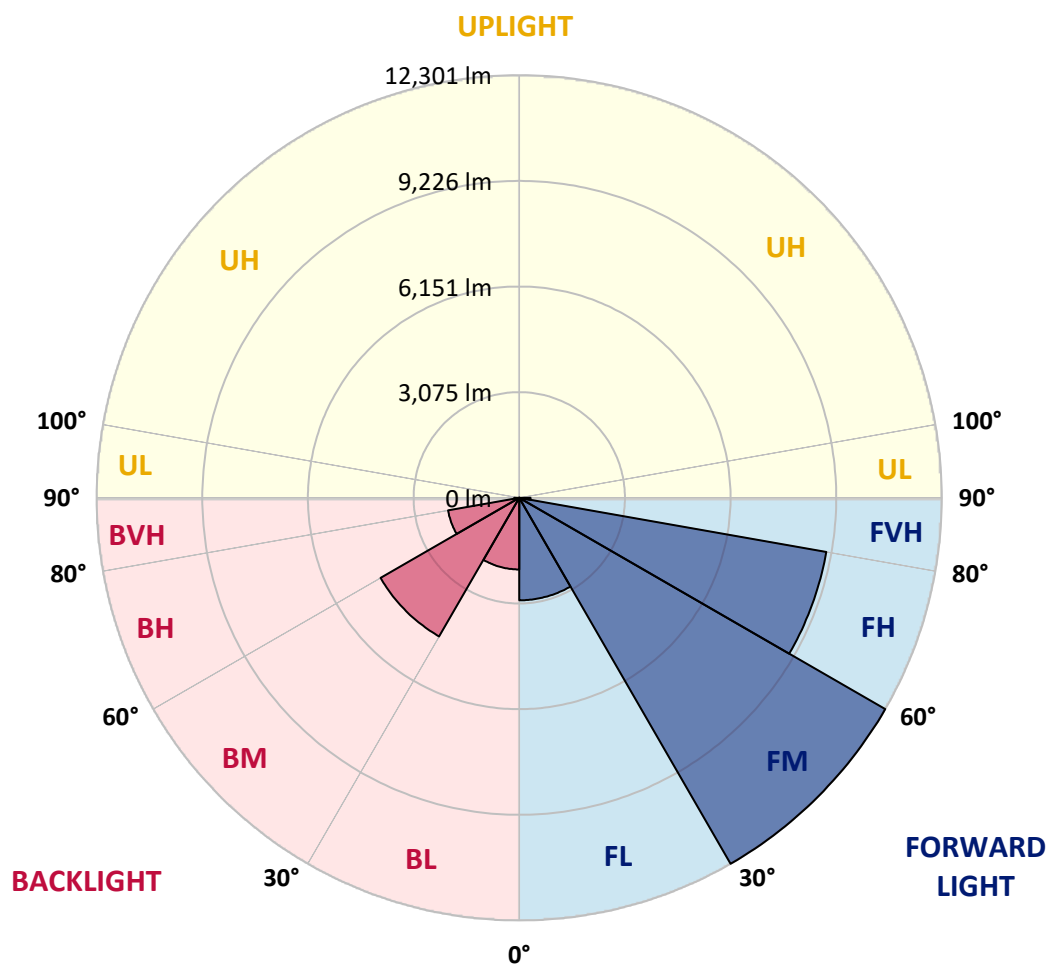
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2981.9	8.9			
FM	(30°-60°)	12301.4	36.5			
FH	(60°-80°)	9074.7	26.9			G4/12000
FVH	(80°-90°)	326.7	1.0			G3/500
BL	(0°-30°)	2085.5	6.2	B3/2500		
BM	(30°-60°)	4661.0	13.8	B3/5000		
BH	(60°-80°)	2104.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	147.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7
2.5°	5863.7	5858.6	5868.8	5833.0	5786.8	5781.7	5781.7	5751.0	5715.1	5643.3	5586.9
5°	6140.5	6130.2	6135.4	6084.1	6022.6	5991.9	5986.7	5920.1	5838.1	5725.3	5622.8
7.5°	6396.8	6386.5	6381.4	6325.0	6232.8	6181.5	6176.4	6079.0	5981.6	5807.3	5658.7
10°	6637.7	6627.4	6617.2	6540.3	6427.5	6350.6	6340.4	6217.4	6094.4	5879.1	5689.4
12.5°	6945.2	6924.7	6914.5	6822.2	6658.2	6576.2	6560.8	6396.8	6243.0	5981.6	5751.0
15°	7268.1	7252.8	7237.4	7150.2	6965.7	6858.1	6832.5	6627.4	6417.3	6114.9	5843.2
17.5°	7509.0	7493.7	7493.7	7416.8	7247.6	7124.6	7104.1	6858.1	6596.7	6237.9	5915.0
20°	7657.7	7642.3	7657.7	7611.6	7483.4	7380.9	7360.4	7088.7	6776.1	6350.6	5976.5
22.5°	7765.3	7749.9	7775.6	7755.1	7662.8	7601.3	7585.9	7319.4	6960.6	6468.5	6038.0
25°	7955.0	7955.0	7955.0	7919.1	7832.0	7811.5	7811.5	7580.8	7196.4	6622.3	6130.2
27.5°	8334.3	8313.8	8288.1	8185.6	8037.0	8031.9	8062.6	7847.3	7468.0	6822.2	6243.0
30°	8893.0	8882.7	8785.3	8570.0	8318.9	8293.3	8313.8	8134.4	7760.2	7032.4	6371.2
32.5°	9615.7	9579.8	9379.9	9057.0	8698.2	8580.3	8621.3	8431.7	8067.7	7247.6	6494.2
35°	10128.2	10138.5	9995.0	9702.8	9277.4	8964.7	8995.5	8764.8	8400.9	7488.5	6647.9
37.5°	10717.7	10753.6	10538.3	10317.9	9923.2	9390.1	9420.9	9108.2	8734.1	7791.0	6812.0
40°	11532.7	11460.9	11097.0	10835.6	10399.9	9836.1	9861.7	9492.7	9118.5	8078.0	7001.6
42.5°	12214.4	12086.2	11645.4	11312.3	10789.4	10307.6	10333.3	9907.8	9508.0	8395.8	7211.8
45°	13193.4	12839.7	12204.1	12040.1	11189.2	10768.9	10794.6	10348.6	9918.1	8734.1	7437.3
47.5°	13762.3	13198.5	12793.6	12706.4	11630.0	11245.6	11276.4	10815.1	10358.9	9118.5	7673.1
50°	13726.4	13362.5	13244.6	13029.3	12019.6	11691.6	11722.3	11296.9	10804.8	9497.8	7898.6
52.5°	13490.6	13557.3	13495.8	13137.0	12409.1	12122.1	12158.0	11773.6	11261.0	9851.5	8108.7
55°	13854.6	13900.7	13782.8	13311.2	12839.7	12552.7	12593.7	12275.9	11712.1	10164.1	8288.1
57.5°	14290.2	14126.2	14008.3	13618.8	13285.6	13019.1	13065.2	12788.4	12101.6	10415.3	8426.5
60°	14269.7	13926.3	14044.2	13639.3	13588.0	13449.6	13490.6	13208.7	12398.9	10599.8	8482.9
62.5°	13219.0	13034.5	13629.0	13490.6	13834.1	13834.1	13885.3	13465.0	12578.3	10676.7	8452.2
65°	11394.3	11404.5	12450.1	13024.2	14126.2	14362.0	14403.0	13623.9	12475.8	10451.2	8165.1
67.5°	9077.5	9144.1	10645.9	11840.2	13834.1	14720.8	14725.9	13767.4	12035.0	9815.6	7498.8
70°	6642.8	6694.1	8467.5	9918.1	12455.3	13926.3	13844.3	13362.5	11076.5	8708.4	6458.3
72.5°	4490.0	4536.2	6360.9	7616.7	10220.5	11860.7	11681.3	11809.4	9441.4	7155.4	5192.3
75°	3019.0	3075.4	4525.9	5448.5	7519.3	9005.7	8605.9	8944.2	7304.0	5417.8	3787.8
77.5°	1901.6	1937.5	2875.5	3572.6	5135.9	6130.2	5730.4	5735.6	4208.1	2916.5	2034.9
80°	1209.6	1219.9	1742.7	2060.5	2972.9	3685.3	3259.9	2649.9	1896.5	1547.9	1214.8
82.5°	702.2	686.8	1040.5	1163.5	1414.7	1399.3	1158.4	1096.9	830.4	774.0	620.2
85°	281.9	261.4	456.2	425.4	430.6	456.2	338.3	338.3	271.7	210.2	153.8
87.5°	56.4	56.4	61.5	56.4	56.4	61.5	46.1	46.1	41.0	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°	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7	5617.7
2.5°	5576.7	5566.4	5540.8	5474.2	5438.3	5417.8	5387.0	5376.8	5371.7	5376.8	5392.2
5°	5592.1	5556.2	5484.4	5376.8	5305.0	5258.9	5207.6	5187.1	5171.8	5171.8	5187.1
7.5°	5602.3	5545.9	5422.9	5264.0	5161.5	5089.7	5028.2	5002.6	4997.5	5012.9	5018.0
10°	5607.4	5525.4	5351.2	5151.3	5018.0	4925.7	4864.2	4848.8	4864.2	4895.0	4900.1
12.5°	5643.3	5530.5	5310.1	5074.4	4915.5	4823.2	4777.1	4777.1	4818.1	4874.5	4879.6
15°	5704.8	5566.4	5289.6	5012.9	4848.8	4766.8	4751.5	4777.1	4838.6	4925.7	4936.0
17.5°	5751.0	5586.9	5243.5	4930.9	4761.7	4710.4	4736.1	4797.6	4884.7	5002.6	5012.9
20°	5781.7	5586.9	5176.9	4833.5	4674.6	4664.3	4736.1	4833.5	4925.7	5064.1	5079.5
22.5°	5812.5	5576.7	5100.0	4715.6	4577.2	4607.9	4741.2	4864.2	4956.5	5105.1	5130.8
25°	5868.8	5592.1	5023.1	4597.7	4474.7	4561.8	4736.1	4884.7	4982.1	5135.9	5176.9
27.5°	5945.7	5627.9	4966.7	4490.0	4372.2	4490.0	4700.2	4879.6	4982.1	5130.8	5176.9
30°	6027.7	5668.9	4900.1	4372.2	4254.3	4387.5	4623.3	4823.2	4941.1	5079.5	5135.9
32.5°	6114.9	5715.1	4843.7	4244.0	4110.8	4249.1	4510.6	4736.1	4864.2	4992.4	5053.9
35°	6232.8	5797.1	4813.0	4141.5	3982.6	4105.6	4367.0	4623.3	4761.7	4879.6	4951.4
37.5°	6376.3	5899.6	4797.6	4039.0	3844.2	3946.7	4213.3	4484.9	4633.6	4731.0	4797.6
40°	6540.3	6027.7	4792.5	3941.6	3705.8	3782.7	4054.4	4326.0	4469.5	4546.4	4602.8
42.5°	6724.8	6171.3	4782.2	3844.2	3567.4	3628.9	3900.6	4167.1	4290.1	4356.8	4408.0
45°	6919.6	6314.8	4761.7	3726.3	3418.8	3490.6	3741.7	3977.5	4105.6	4162.0	4218.4
47.5°	7114.4	6458.3	4720.7	3593.1	3285.5	3352.2	3572.6	3777.6	3880.1	3931.4	3987.7
50°	7304.0	6586.4	4623.3	3439.3	3147.1	3208.6	3377.8	3516.2	3593.1	3634.1	3690.5
52.5°	7473.2	6673.6	4484.9	3259.9	3008.7	3039.5	3152.3	3270.1	3331.7	3336.8	3388.0
55°	7616.7	6719.7	4285.0	3075.4	2860.1	2865.2	2926.7	3019.0	3044.6	3024.1	3060.0
57.5°	7698.7	6694.1	4064.6	2885.7	2706.3	2685.8	2732.0	2778.1	2783.2	2732.0	2767.8
60°	7719.2	6576.2	3777.6	2696.1	2552.6	2496.2	2511.6	2501.3	2491.1	2470.6	2501.3
62.5°	7616.7	6325.0	3459.8	2511.6	2388.5	2301.4	2296.3	2291.2	2306.5	2311.7	2316.8
65°	7242.5	5853.5	3080.5	2321.9	2214.3	2096.4	2091.3	2152.8	2173.3	2142.5	2152.8
67.5°	6519.8	5130.8	2665.3	2101.5	1993.9	1891.4	1932.4	1968.2	2004.1	1993.9	2004.1
70°	5494.7	4213.3	2286.0	1855.5	1753.0	1696.6	1742.7	1773.5	1778.6	1768.3	1778.6
72.5°	4320.9	3290.7	1932.4	1604.3	1512.1	1486.4	1542.8	1568.4	1614.6	1635.1	1640.2
75°	3121.5	2429.5	1583.8	1332.7	1255.8	1255.8	1307.0	1353.2	1394.2	1368.5	1353.2
77.5°	1742.7	1450.6	1137.9	917.5	932.9	1004.6	1025.1	1076.4	1117.4	1112.3	1102.0
80°	1055.9	907.2	768.8	594.6	589.4	645.8	779.1	866.2	886.7	840.6	835.5
82.5°	548.4	476.7	410.1	333.2	369.0	430.6	451.1	543.3	599.7	579.2	604.8
85°	138.4	133.3	148.6	153.8	189.6	210.2	230.7	271.7	179.4	87.1	87.1
87.5°	41.0	41.0	51.3	51.3	66.6	82.0	76.9	76.9	41.0	5.1	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)