

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: P841121

Luminaire Tested: **ARCH4-130-750-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23215 lumens
Efficiency: N/A
Efficacy: 175.9 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



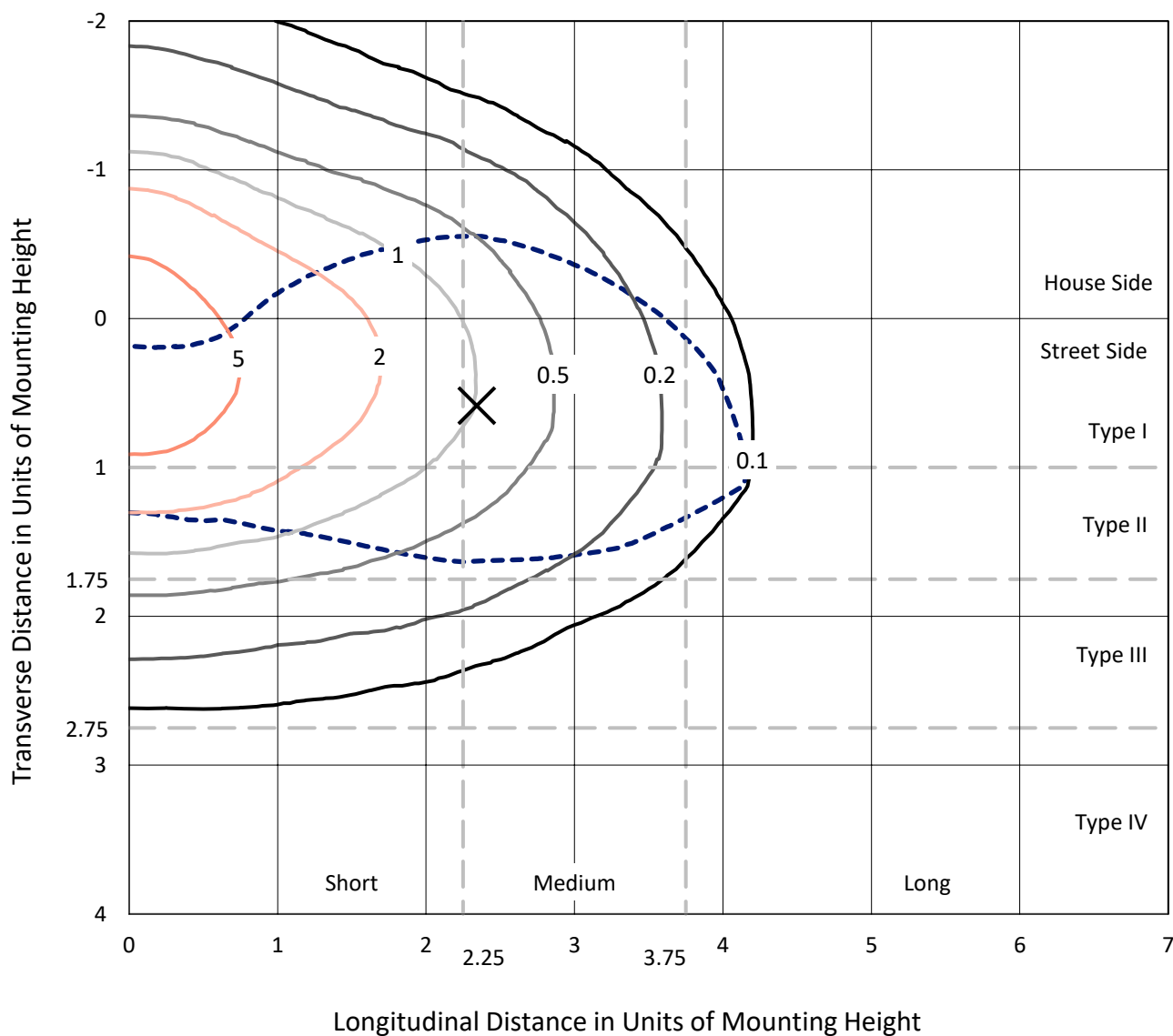
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

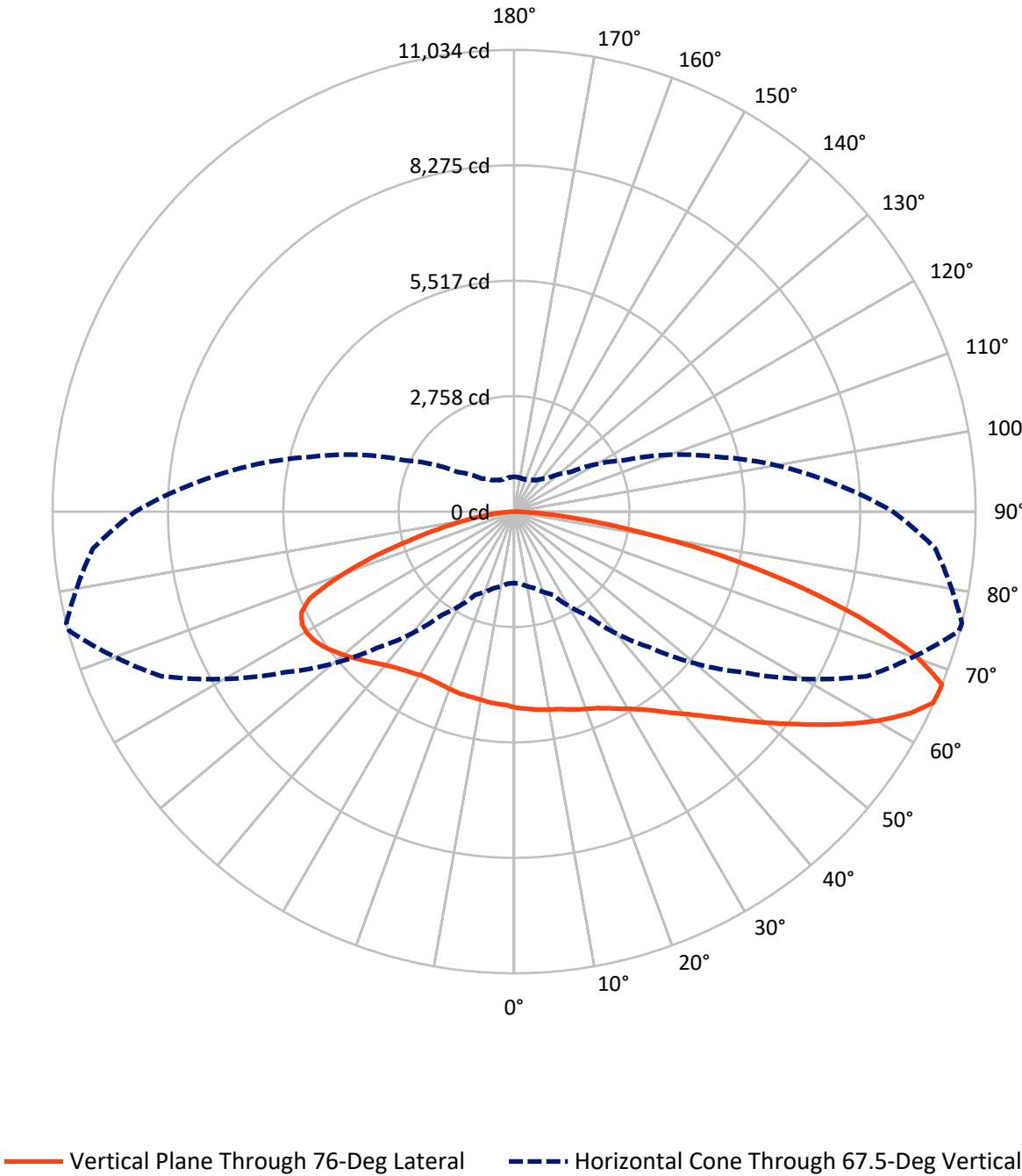
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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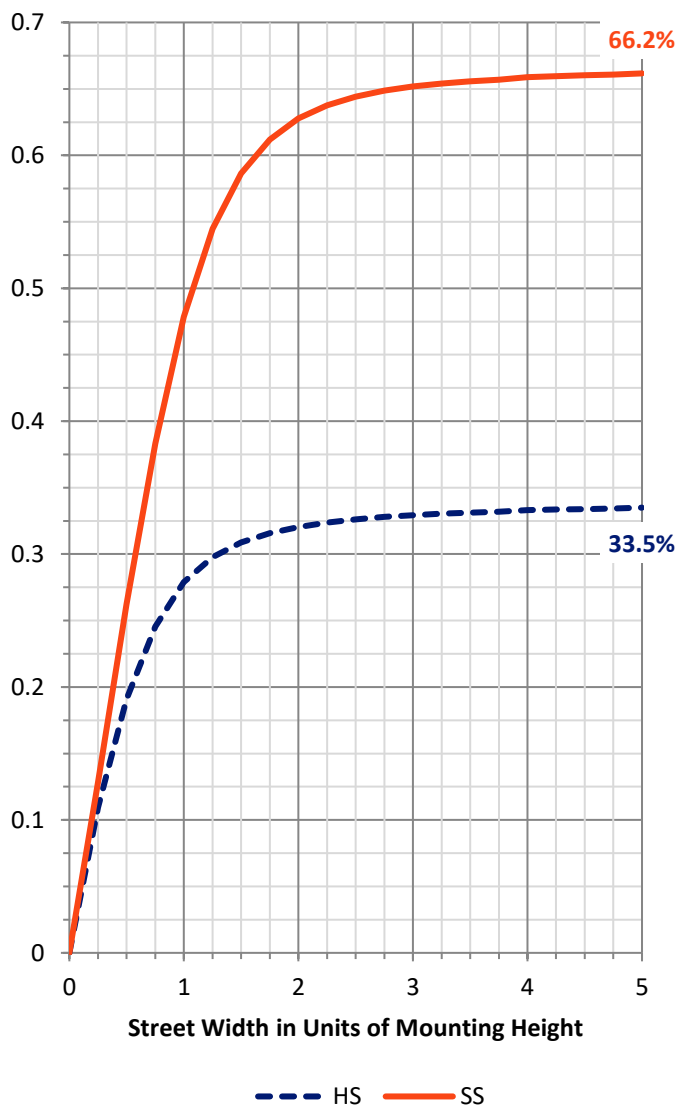
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7844.5	0.0	7844.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	15370.5	0.0	15370.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	23215.0	0.0	23215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.2	1.9
10°-20°	1382.4	6.0
20°-30°	2348.8	10.1
30°-40°	3342.0	14.4
40°-50°	4220.8	18.2
50°-60°	4569.8	19.7
60°-70°	4250.4	18.3
70°-80°	2282.9	9.8
80°-90°	365.8	1.6
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°	23215.0	100.0
0°-180°	23215.0	100.0

Coefficient of Utilization



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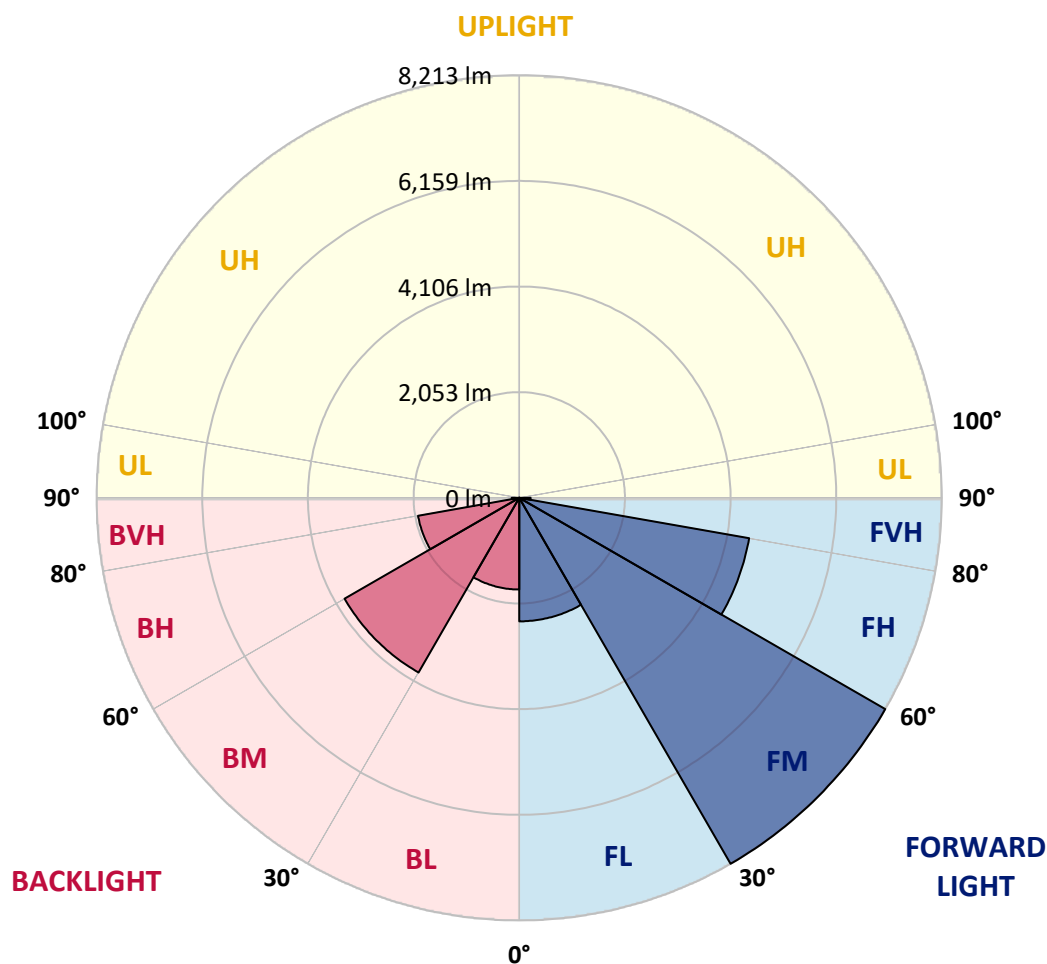
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2400.7	10.3			
FM	(30°-60°)	8212.6	35.4			
FH	(60°-80°)	4536.0	19.5			G2/5000
FVH	(80°-90°)	221.3	1.0			G2/225
BL	(0°-30°)	1782.7	7.7	B3/2500		
BM	(30°-60°)	3920.0	16.9	B3/5000		
BH	(60°-80°)	1997.3	8.6	B3/2500		G3/2500
BVH	(80°-90°)	144.5	0.6			G2/225
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°	76°	85°
0°	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4
2.5°	4831.6	4823.0	4788.5	4792.8	4792.8	4788.5	4736.8	4715.2	4715.2	4710.9	4663.5
5°	5004.0	4991.1	4952.3	4943.7	4926.4	4904.9	4823.0	4775.6	4754.0	4749.7	4685.1
7.5°	5206.6	5189.3	5141.9	5116.1	5073.0	5016.9	4913.5	4840.2	4788.5	4784.2	4693.7
10°	5409.2	5391.9	5335.9	5288.5	5228.1	5137.6	5004.0	4896.3	4814.4	4805.8	4698.0
12.5°	5650.5	5633.3	5564.3	5504.0	5413.5	5292.8	5116.1	4969.5	4857.5	4844.5	4710.9
15°	5904.8	5879.0	5810.0	5741.0	5629.0	5473.8	5262.6	5068.7	4926.4	4904.9	4749.7
17.5°	6116.0	6081.5	6025.5	5956.5	5831.6	5650.5	5409.2	5167.8	4991.1	4973.8	4788.5
20°	6297.0	6271.2	6210.8	6146.2	6012.6	5814.3	5547.1	5266.9	5051.4	5029.9	4818.7
22.5°	6469.4	6435.0	6400.5	6353.1	6206.5	5986.7	5706.6	5387.6	5129.0	5103.1	4857.5
25°	6667.7	6628.9	6616.0	6590.1	6417.7	6193.6	5900.5	5538.5	5236.8	5206.6	4926.4
27.5°	6913.4	6870.3	6844.4	6844.4	6637.5	6404.8	6107.4	5715.2	5361.8	5335.9	5012.6
30°	7172.0	7120.3	7081.5	7081.5	6848.7	6616.0	6310.0	5891.9	5504.0	5473.8	5124.7
32.5°	7400.4	7348.7	7305.6	7301.3	7059.9	6827.2	6521.2	6085.8	5676.4	5637.6	5262.6
35°	7577.1	7529.7	7490.9	7499.6	7271.1	7042.7	6758.2	6344.5	5891.9	5848.8	5443.6
37.5°	7684.9	7667.7	7646.1	7676.3	7465.1	7249.6	7003.9	6594.4	6137.6	6098.8	5667.8
40°	7740.9	7728.0	7814.2	7853.0	7628.9	7434.9	7249.6	6853.0	6404.8	6361.7	5926.4
42.5°	7822.8	7930.6	7965.0	7956.4	7749.5	7577.1	7473.7	7133.2	6719.4	6680.6	6236.7
45°	7529.7	7503.9	7693.5	7797.0	7758.2	7667.7	7684.9	7469.4	7085.8	7047.0	6594.4
47.5°	7137.5	7103.0	7210.8	7465.1	7615.9	7702.1	7874.5	7818.5	7508.2	7473.7	7012.5
50°	6310.0	6357.4	6758.2	7098.7	7396.1	7693.5	8034.0	8193.5	7973.7	7939.2	7460.8
52.5°	5391.9	5439.3	5857.4	6641.8	7128.9	7628.9	8150.4	8568.5	8477.9	8439.2	7939.2
55°	4723.9	4827.3	5301.4	5870.3	6749.6	7426.3	8219.3	8952.1	9021.0	8986.5	8460.7
57.5°	4060.1	4137.7	4495.4	4999.7	6232.4	7072.9	8215.0	9309.8	9590.0	9555.5	8990.8
60°	3280.0	3379.1	3663.6	4206.6	5542.8	6650.5	8094.4	9590.0	10137.3	10111.5	9503.8
62.5°	2745.5	2775.7	2978.3	3448.1	4654.9	6116.0	7822.8	9740.8	10633.0	10615.8	9964.9
65°	2211.1	2215.4	2400.7	2792.9	3797.2	5452.3	7361.6	9684.8	11008.0	11016.6	10296.8
67.5°	1706.8	1728.3	1896.4	2193.8	3017.1	4590.2	6702.2	9305.5	11012.3	11033.8	10107.2
70°	1181.0	1198.2	1452.5	1741.3	2331.8	3659.3	5810.0	8301.2	10107.2	10124.4	9059.8
72.5°	831.8	840.5	1112.0	1392.2	1823.2	2758.5	4383.4	6866.0	8615.9	8628.8	7620.2
75°	620.7	629.3	784.4	1056.0	1396.5	1909.4	2995.5	5258.3	6883.2	6883.2	6016.9
77.5°	439.6	443.9	508.6	728.4	931.0	1288.7	1801.6	3443.8	5051.4	5060.0	4383.4
80°	297.4	301.7	331.9	491.4	581.9	698.2	978.4	1805.9	3185.2	3198.1	2784.3
82.5°	155.2	163.8	185.3	250.0	293.1	387.9	504.3	918.0	1762.8	1797.3	1672.3
85°	60.3	60.3	69.0	81.9	107.8	150.9	232.7	349.1	797.4	823.2	737.0
87.5°	21.6	21.6	25.9	25.9	30.2	34.5	38.8	51.7	90.5	90.5	86.2
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°	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4	4689.4
2.5°	4646.3	4646.3	4624.7	4633.3	4629.0	4620.4	4611.8	4624.7	4611.8	4581.6	4577.3
5°	4654.9	4646.3	4611.8	4607.5	4594.6	4577.3	4555.8	4564.4	4542.8	4517.0	4512.7
7.5°	4659.2	4642.0	4594.6	4577.3	4551.5	4517.0	4482.5	4482.5	4452.3	4426.5	4422.2
10°	4650.6	4629.0	4564.4	4529.9	4482.5	4430.8	4383.4	4370.4	4336.0	4305.8	4305.8
12.5°	4654.9	4624.7	4542.8	4486.8	4422.2	4357.5	4297.2	4279.9	4249.7	4219.6	4215.3
15°	4680.8	4637.7	4534.2	4460.9	4366.1	4292.9	4228.2	4215.3	4189.4	4167.9	4167.9
17.5°	4706.6	4650.6	4521.3	4417.8	4301.5	4219.6	4159.2	4159.2	4142.0	4129.1	4129.1
20°	4719.5	4654.9	4495.4	4357.5	4223.9	4137.7	4081.7	4090.3	4086.0	4081.7	4081.7
22.5°	4749.7	4663.5	4473.9	4301.5	4142.0	4051.5	3999.8	4012.7	4008.4	4008.4	4012.7
25°	4797.1	4685.1	4456.6	4249.7	4064.4	3965.3	3909.3	3917.9	3917.9	3917.9	3917.9
27.5°	4861.8	4728.2	4452.3	4202.3	3986.8	3874.8	3805.8	3805.8	3788.6	3792.9	3797.2
30°	4960.9	4810.1	4460.9	4159.2	3904.9	3762.7	3680.8	3667.9	3663.6	3672.2	3676.5
32.5°	5081.6	4922.1	4512.7	4129.1	3818.7	3637.7	3534.3	3530.0	3517.0	3517.0	3517.0
35°	5232.5	5029.9	4560.1	4124.8	3732.5	3504.1	3392.0	3379.1	3348.9	3336.0	3336.0
37.5°	5426.4	5198.0	4616.1	4094.6	3659.3	3374.8	3241.2	3198.1	3163.6	3159.3	3159.3
40°	5663.5	5387.6	4698.0	4060.1	3581.7	3241.2	3064.5	2991.2	2995.5	3012.8	3012.8
42.5°	5943.6	5620.4	4801.4	4042.9	3469.6	3103.3	2857.6	2771.4	2801.6	2818.8	2823.1
45°	6271.2	5896.2	4917.8	4021.3	3366.2	2948.1	2637.8	2530.0	2543.0	2547.3	2551.6
47.5°	6650.5	6202.2	5038.5	4004.1	3249.8	2754.1	2396.4	2254.2	2249.9	2224.0	2232.6
50°	7047.0	6525.5	5163.5	3973.9	3107.6	2525.7	2142.1	1974.0	1939.5	1900.8	1905.1
52.5°	7469.4	6857.4	5279.9	3926.5	2930.9	2293.0	1900.8	1719.7	1650.8	1607.7	1616.3
55°	7934.9	7197.9	5391.9	3853.2	2745.5	2060.2	1685.2	1499.9	1413.7	1379.2	1383.5
57.5°	8361.6	7525.4	5473.8	3762.7	2543.0	1849.0	1495.6	1314.6	1258.5	1254.2	1258.5
60°	8775.3	7801.3	5508.3	3637.7	2336.1	1655.1	1318.9	1181.0	1142.2	1163.7	1168.0
62.5°	9124.5	7978.0	5491.1	3469.6	2124.9	1469.7	1176.7	1077.5	1051.7	1094.8	1099.1
65°	9327.0	8034.0	5370.4	3228.3	1896.4	1288.7	1043.0	935.3	922.4	948.2	961.2
67.5°	9059.8	7684.9	5042.8	2896.4	1642.1	1120.6	913.7	827.5	806.0	827.5	827.5
70°	8029.7	6659.1	4267.0	2370.5	1362.0	956.8	793.1	732.7	715.5	732.7	728.4
72.5°	6689.3	5538.5	3361.9	1849.0	1073.2	806.0	689.6	633.6	616.3	599.1	590.5
75°	5189.3	4206.6	2439.5	1357.7	810.3	646.5	577.6	525.8	482.7	500.0	491.4
77.5°	3801.5	2952.4	1728.3	939.6	581.9	500.0	452.6	413.8	383.6	418.1	413.8
80°	2448.1	1909.4	1155.1	629.3	400.8	349.1	331.9	310.3	340.5	443.9	452.6
82.5°	1495.6	1211.1	689.6	409.5	262.9	232.7	215.5	215.5	349.1	383.6	387.9
85°	668.1	642.2	375.0	211.2	146.5	133.6	120.7	155.2	142.2	103.4	107.8
87.5°	107.8	112.1	81.9	73.3	56.0	56.0	43.1	30.2	21.6	12.9	12.9
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)