

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: P841084

Luminaire Tested: **ARCH4-130-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14867 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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



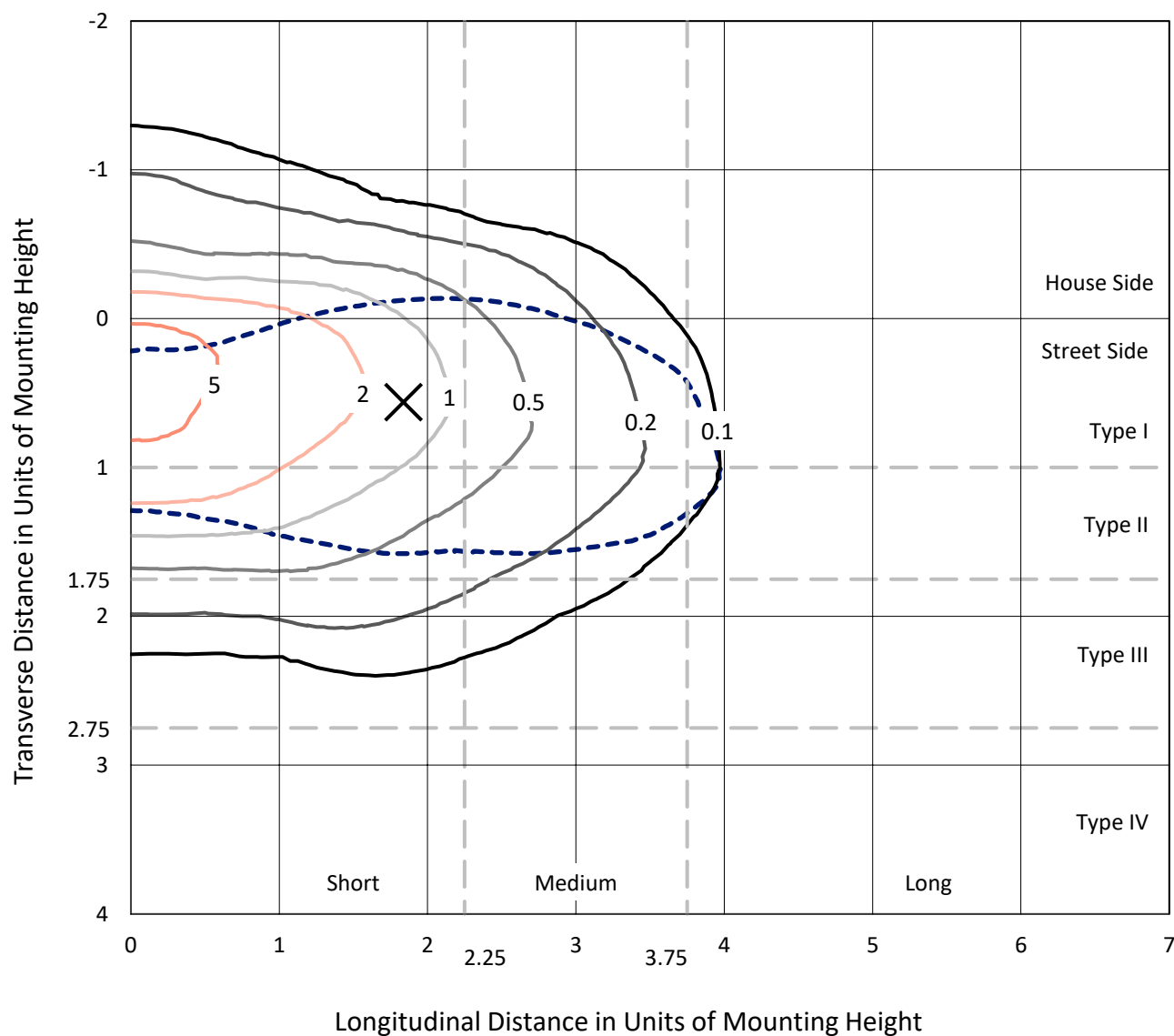
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

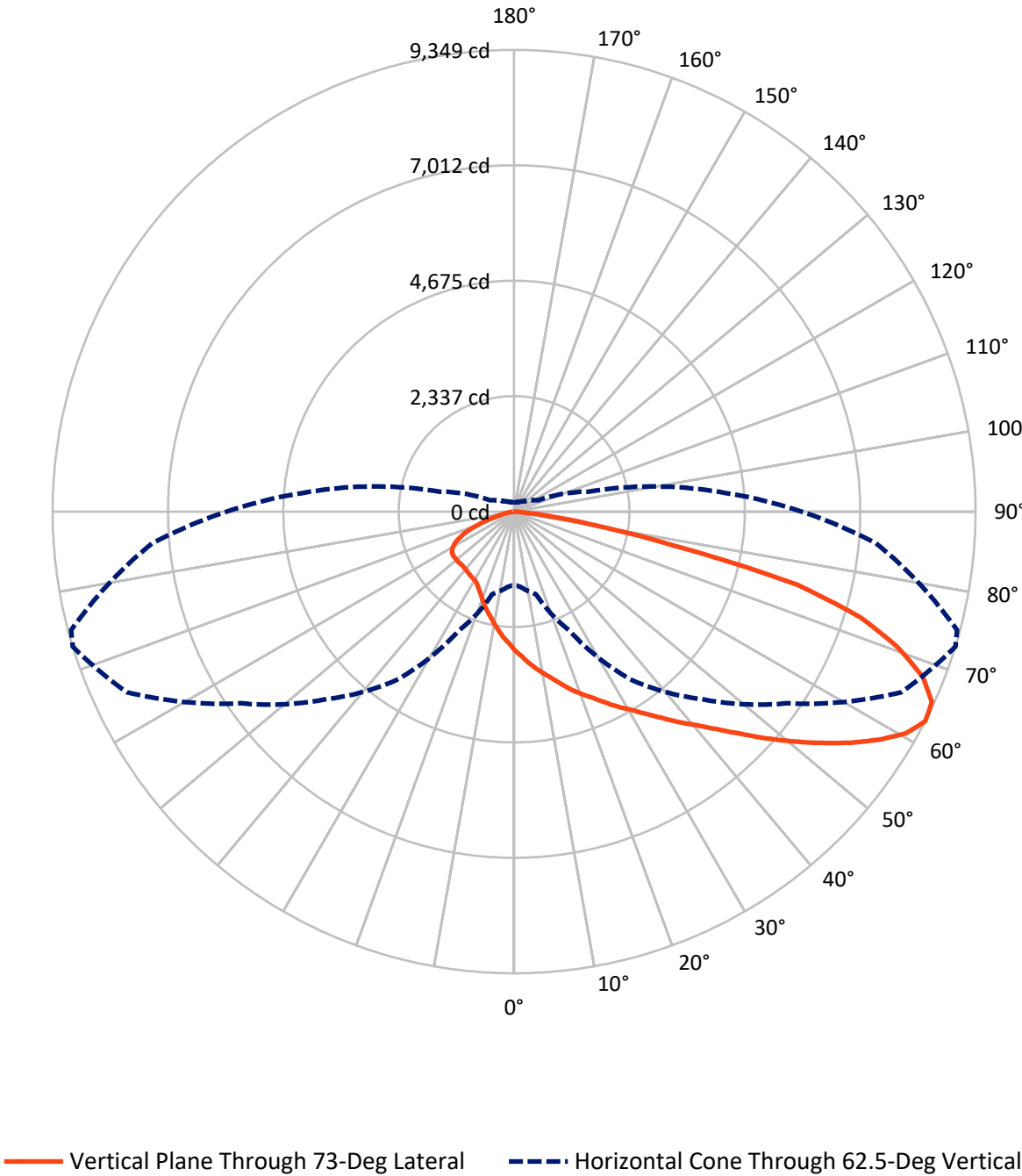


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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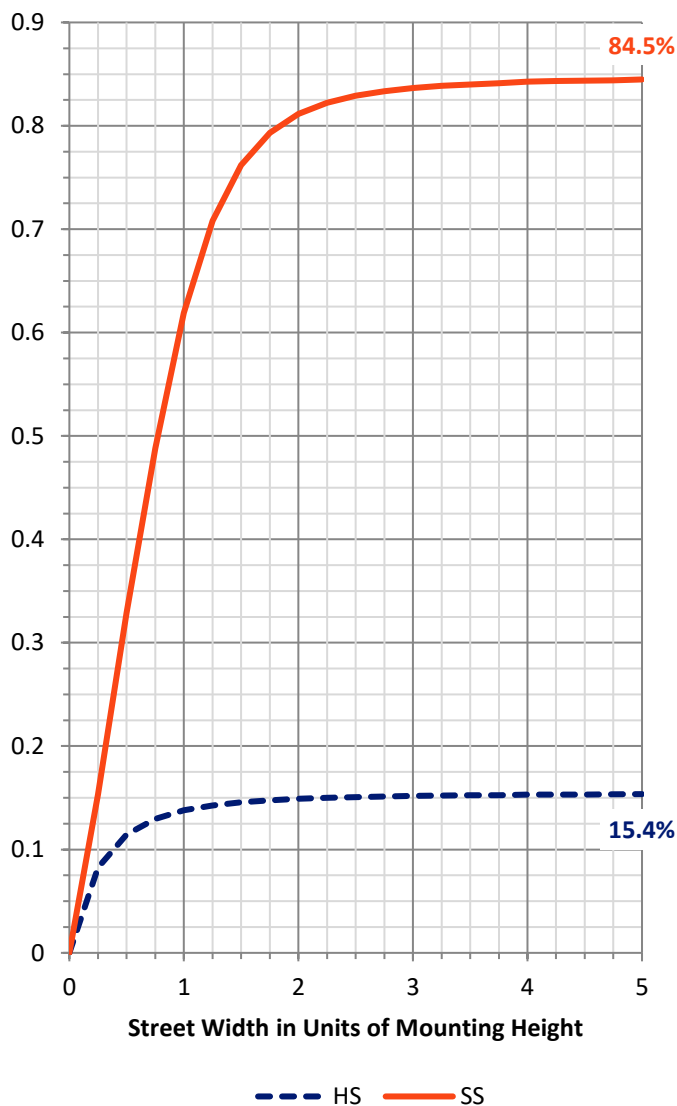
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2304.6	0.0	2304.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12562.4	0.0	12562.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	14867.0	0.0	14867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.0	1.8
10°-20°	820.6	5.5
20°-30°	1366.0	9.2
30°-40°	2061.0	13.9
40°-50°	2880.8	19.4
50°-60°	3182.0	21.4
60°-70°	2772.0	18.6
70°-80°	1400.2	9.4
80°-90°	112.4	0.8
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°	14867.0	100.0
0°-180°	14867.0	100.0

Coefficient of Utilization



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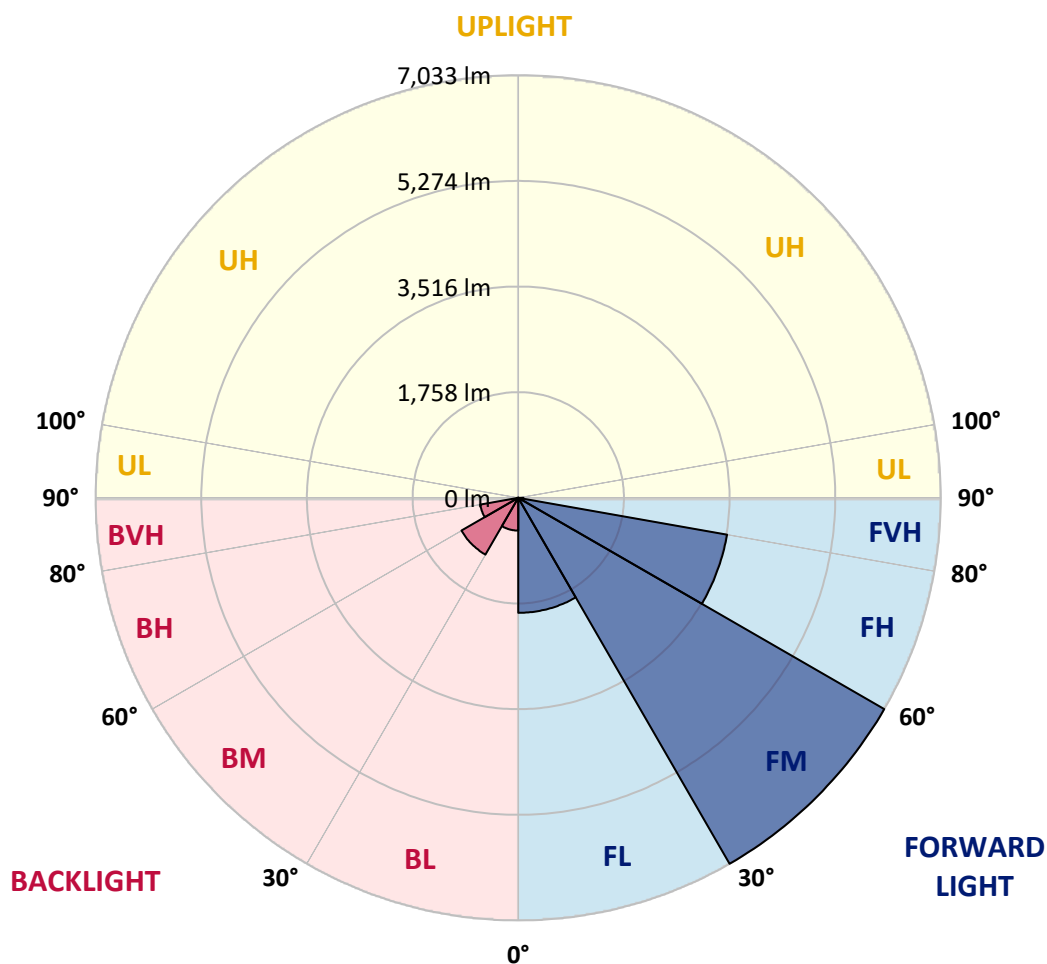
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1913.8	12.9			
FM	(30°-60°)	7032.6	47.3			
FH	(60°-80°)	3528.9	23.7			G2/5000
FVH	(80°-90°)	87.0	0.6			G1/100
BL	(0°-30°)	544.7	3.7	B2/1000		
BM	(30°-60°)	1091.2	7.3	B2/2500		
BH	(60°-80°)	643.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	25.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1
2.5°	3203.8	3239.5	3220.0	3233.0	3168.2	3126.1	3077.5	2983.6	2931.7	2925.2	2863.7
5°	3673.6	3712.4	3680.0	3670.3	3556.9	3459.8	3349.6	3184.4	3074.3	3054.8	2918.8
7.5°	4143.3	4178.9	4140.0	4110.9	3958.6	3786.9	3625.0	3382.0	3210.3	3177.9	2964.1
10°	4473.7	4506.1	4476.9	4447.8	4289.1	4114.1	3884.1	3566.7	3333.4	3281.6	2993.3
12.5°	4723.1	4742.6	4729.6	4703.7	4554.7	4366.8	4146.5	3774.0	3472.7	3407.9	3038.6
15°	4927.2	4959.6	4943.4	4924.0	4781.5	4593.6	4383.0	3991.0	3634.7	3553.7	3106.7
17.5°	5063.3	5086.0	5089.2	5089.2	4962.9	4778.2	4574.1	4188.6	3796.7	3693.0	3171.4
20°	5124.8	5150.8	5167.0	5192.9	5089.2	4930.5	4723.1	4357.1	3948.9	3832.3	3233.0
22.5°	5154.0	5176.7	5218.8	5277.1	5192.9	5060.0	4868.9	4512.6	4101.2	3978.1	3304.3
25°	5176.7	5205.8	5267.4	5377.5	5319.2	5205.8	5040.6	4690.8	4282.6	4156.2	3407.9
27.5°	5238.2	5273.9	5332.2	5465.0	5393.7	5338.6	5222.0	4881.9	4473.7	4344.1	3534.3
30°	5452.0	5481.2	5477.9	5562.2	5474.7	5458.5	5377.5	5066.5	4658.4	4528.8	3683.3
32.5°	5840.8	5869.9	5798.6	5766.3	5575.1	5578.4	5546.0	5264.1	4878.6	4745.8	3855.0
35°	6258.7	6291.0	6197.1	6142.0	5821.3	5727.4	5743.6	5510.3	5124.8	4992.0	4068.8
37.5°	6631.2	6670.1	6589.1	6508.1	6184.1	5967.1	5963.9	5785.7	5406.7	5270.6	4305.3
40°	6835.3	6880.6	6929.2	6883.9	6543.7	6304.0	6200.3	6067.5	5685.3	5546.0	4561.2
42.5°	6932.5	7058.8	7146.3	7117.1	6838.5	6595.6	6472.5	6362.3	6025.4	5889.4	4865.7
45°	6660.3	6663.6	6848.2	7007.0	6955.1	6793.2	6770.5	6692.7	6414.1	6284.6	5209.1
47.5°	6320.2	6294.3	6423.9	6705.7	6851.5	6893.6	7026.4	7058.8	6858.0	6728.4	5558.9
50°	5503.9	5520.1	5941.2	6346.1	6631.2	6903.3	7207.8	7434.6	7314.7	7191.6	5928.2
52.5°	4476.9	4515.8	4998.5	5889.4	6339.6	6806.1	7314.7	7810.4	7781.2	7664.6	6297.5
55°	3589.3	3650.9	4162.7	5128.1	5967.1	6589.1	7360.1	8153.7	8263.9	8157.0	6660.3
57.5°	2743.8	2808.6	3239.5	4230.7	5490.9	6236.0	7327.7	8455.0	8714.2	8646.1	6994.0
60°	2066.8	2131.6	2406.9	3430.6	4894.8	5840.8	7165.7	8652.6	9119.1	9047.8	7237.0
62.5°	1480.4	1532.3	1736.4	2669.3	4169.2	5371.0	6767.2	8655.9	9349.1	9290.8	7353.6
65°	1065.8	1065.8	1231.0	1904.8	3488.9	4807.4	6164.7	8257.4	9300.5	9284.3	7272.6
67.5°	767.8	774.2	907.1	1331.4	2782.7	4123.8	5384.0	7548.0	8924.7	9005.7	6981.1
70°	544.2	560.4	622.0	929.7	2102.4	3255.7	4548.2	6618.2	8247.7	8390.2	6417.4
72.5°	421.1	430.8	473.0	647.9	1535.5	2419.9	3625.0	5581.6	7343.9	7505.8	5649.6
75°	323.9	333.7	366.1	476.2	1101.4	1697.5	2575.4	4331.2	5921.7	6210.1	4538.5
77.5°	236.5	249.4	272.1	346.6	641.4	1078.7	1561.4	2436.1	3268.6	3404.7	2377.8
80°	110.1	126.3	158.7	223.5	346.6	508.6	553.9	939.4	1571.1	1642.4	1289.3
82.5°	61.5	77.7	90.7	136.1	174.9	181.4	187.9	236.5	592.8	654.4	541.0
85°	29.2	38.9	42.1	58.3	58.3	51.8	61.5	45.4	97.2	116.6	113.4
87.5°	0.0	3.2	6.5	16.2	13.0	9.7	9.7	9.7	9.7	13.0	9.7
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°	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1	2815.1
2.5°	2834.5	2792.4	2695.2	2611.0	2555.9	2507.3	2442.6	2413.4	2361.6	2371.3	2342.1
5°	2850.7	2773.0	2601.3	2442.6	2325.9	2222.3	2108.9	2044.1	1972.8	1966.4	1943.7
7.5°	2860.5	2740.6	2494.4	2270.9	2092.7	1934.0	1781.7	1697.5	1610.0	1590.6	1571.1
10°	2850.7	2692.0	2384.2	2092.7	1856.2	1658.6	1486.9	1380.0	1289.3	1266.6	1247.2
12.5°	2860.5	2666.1	2280.6	1927.5	1645.6	1422.1	1227.8	1117.6	1033.4	1010.7	997.8
15°	2883.1	2649.9	2193.1	1778.5	1457.8	1208.3	1017.2	923.2	855.2	832.5	826.1
17.5°	2902.6	2633.7	2099.2	1632.7	1269.9	1020.4	855.2	777.5	719.2	696.5	690.0
20°	2928.5	2611.0	2005.2	1493.4	1104.7	871.4	725.6	657.6	612.3	596.1	592.8
22.5°	2951.2	2594.8	1917.8	1354.1	952.4	751.6	628.5	573.4	541.0	524.8	524.8
25°	3009.5	2601.3	1843.3	1224.5	839.0	657.6	553.9	511.8	485.9	476.2	476.2
27.5°	3077.5	2627.2	1784.9	1114.4	741.8	586.3	502.1	466.5	453.5	440.6	443.8
30°	3174.7	2679.0	1746.1	1023.7	670.6	531.3	460.0	434.1	421.1	417.9	417.9
32.5°	3297.8	2763.3	1742.8	965.4	618.7	489.2	430.8	408.2	401.7	398.5	398.5
35°	3443.6	2837.8	1723.4	939.4	586.3	460.0	408.2	392.0	388.7	388.7	388.7
37.5°	3618.5	2960.9	1710.4	903.8	570.1	443.8	392.0	379.0	379.0	379.0	379.0
40°	3799.9	3061.3	1691.0	871.4	563.7	434.1	382.3	366.1	366.1	366.1	366.1
42.5°	4016.9	3207.1	1684.5	855.2	553.9	427.6	369.3	349.9	353.1	353.1	356.3
45°	4279.3	3372.3	1681.3	839.0	550.7	421.1	356.3	333.7	336.9	333.7	333.7
47.5°	4545.0	3563.4	1691.0	829.3	547.5	414.7	346.6	317.5	317.5	314.2	314.2
50°	4823.6	3738.3	1697.5	819.6	541.0	401.7	330.4	304.5	298.0	291.6	294.8
52.5°	5086.0	3900.3	1700.7	803.4	521.6	382.3	317.5	288.3	278.6	268.9	272.1
55°	5348.4	4055.8	1707.2	784.0	495.6	362.8	301.3	272.1	259.2	246.2	246.2
57.5°	5584.8	4191.9	1691.0	735.4	466.5	343.4	285.1	252.7	233.2	220.3	220.3
60°	5746.8	4289.1	1642.4	664.1	427.6	320.7	268.9	233.2	210.6	200.8	200.8
62.5°	5824.6	4305.3	1554.9	547.5	379.0	298.0	249.4	213.8	194.4	187.9	187.9
65°	5750.1	4234.0	1418.9	411.4	327.2	272.1	230.0	197.6	178.2	162.0	162.0
67.5°	5490.9	4033.1	1231.0	311.0	278.6	246.2	210.6	181.4	158.7	145.8	145.8
70°	4969.3	3615.2	952.4	249.4	236.5	213.8	191.1	162.0	142.5	126.3	126.3
72.5°	4285.8	3064.5	670.6	200.8	200.8	181.4	162.0	142.5	123.1	110.1	110.1
75°	3288.1	2267.6	450.3	162.0	165.2	152.3	132.8	116.6	103.7	93.9	93.9
77.5°	1794.7	1120.9	275.4	119.9	123.1	116.6	103.7	93.9	87.5	77.7	77.7
80°	871.4	492.4	158.7	84.2	87.5	84.2	77.7	68.0	68.0	61.5	61.5
82.5°	366.1	184.6	84.2	58.3	58.3	51.8	48.6	48.6	48.6	45.4	45.4
85°	90.7	35.6	35.6	32.4	32.4	32.4	29.2	29.2	29.2	22.7	25.9
87.5°	13.0	13.0	13.0	13.0	13.0	13.0	9.7	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)