

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: P841599

Luminaire Tested: **ARCH4-200-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21184 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 203.7
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



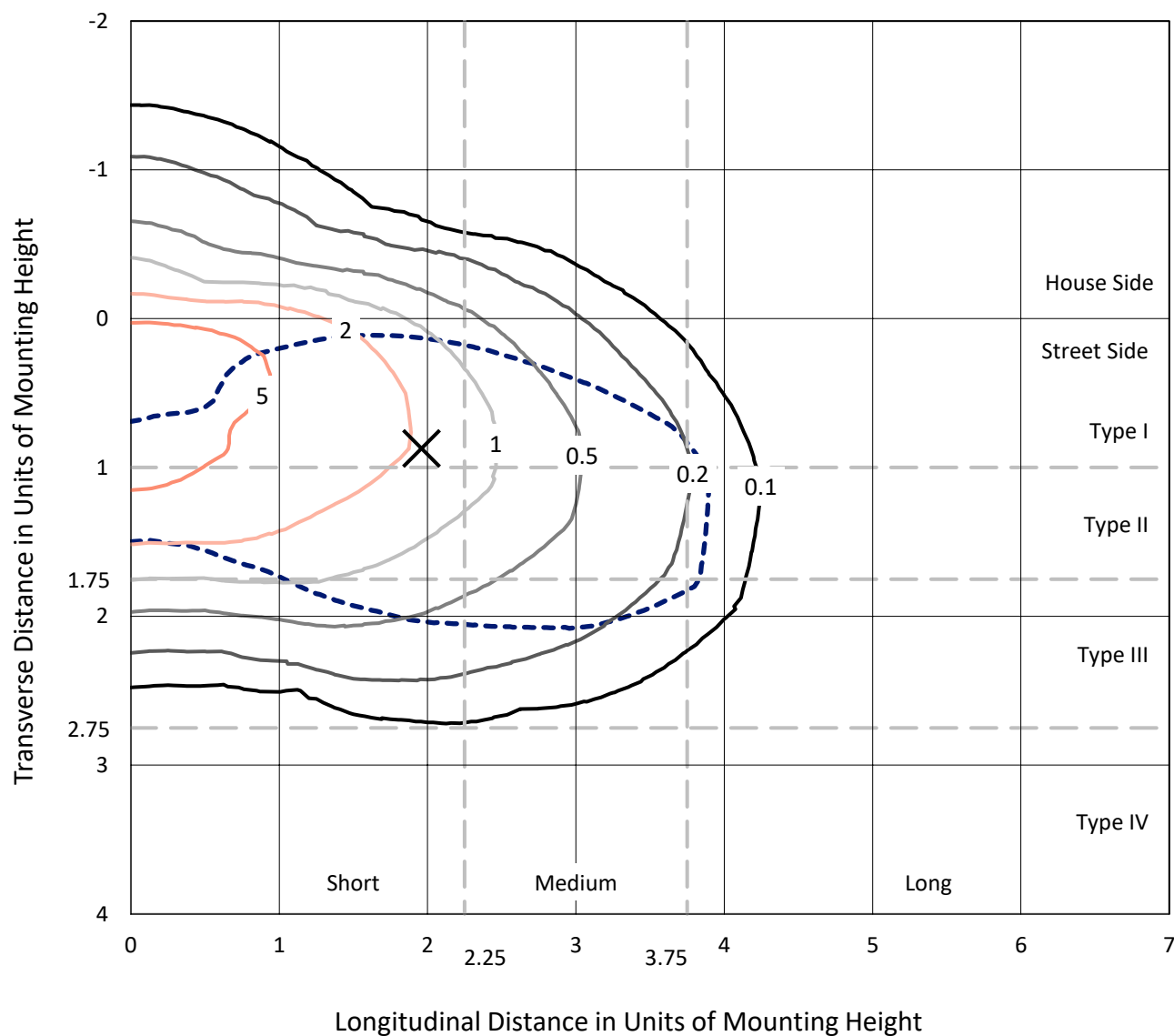
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

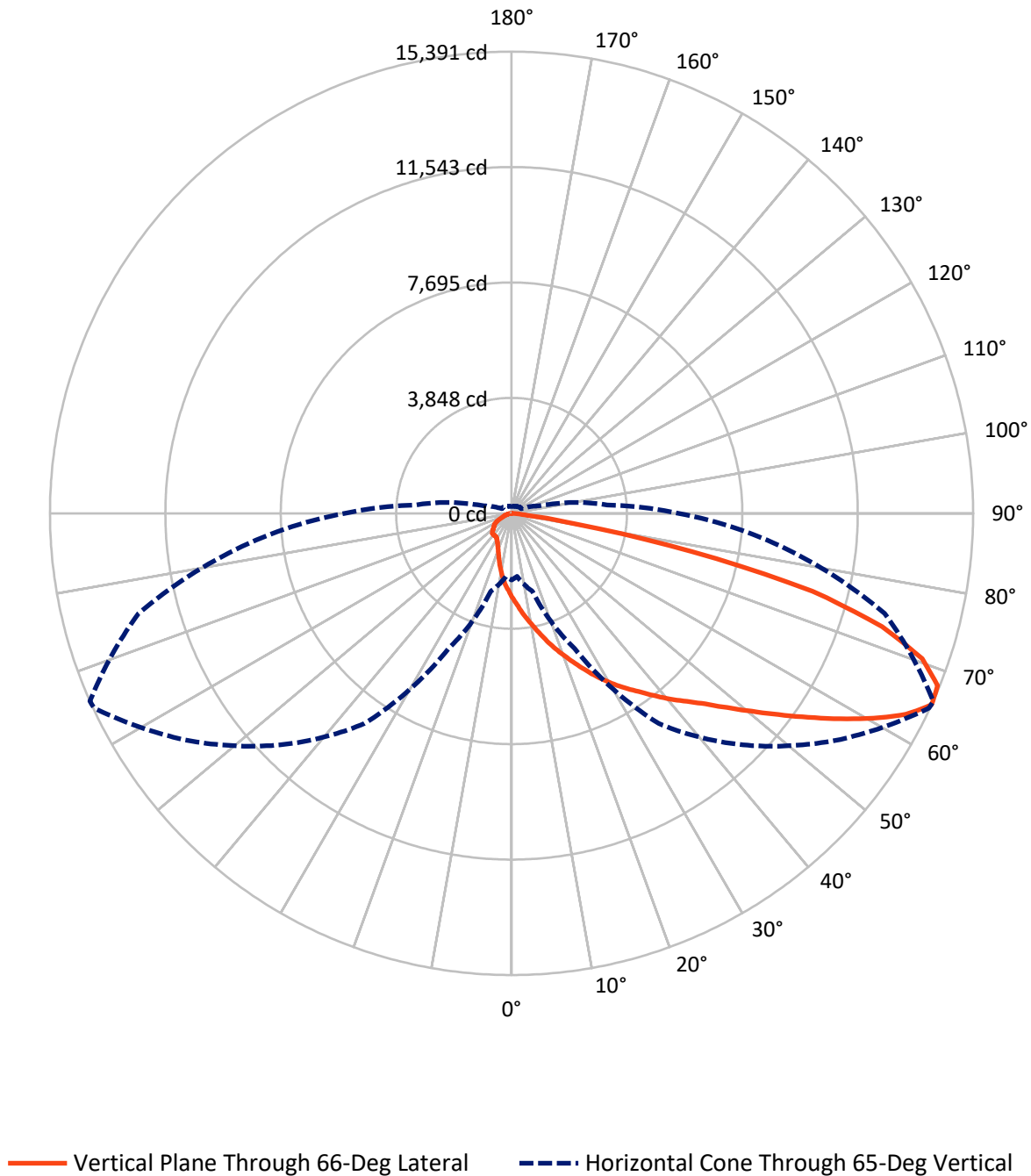


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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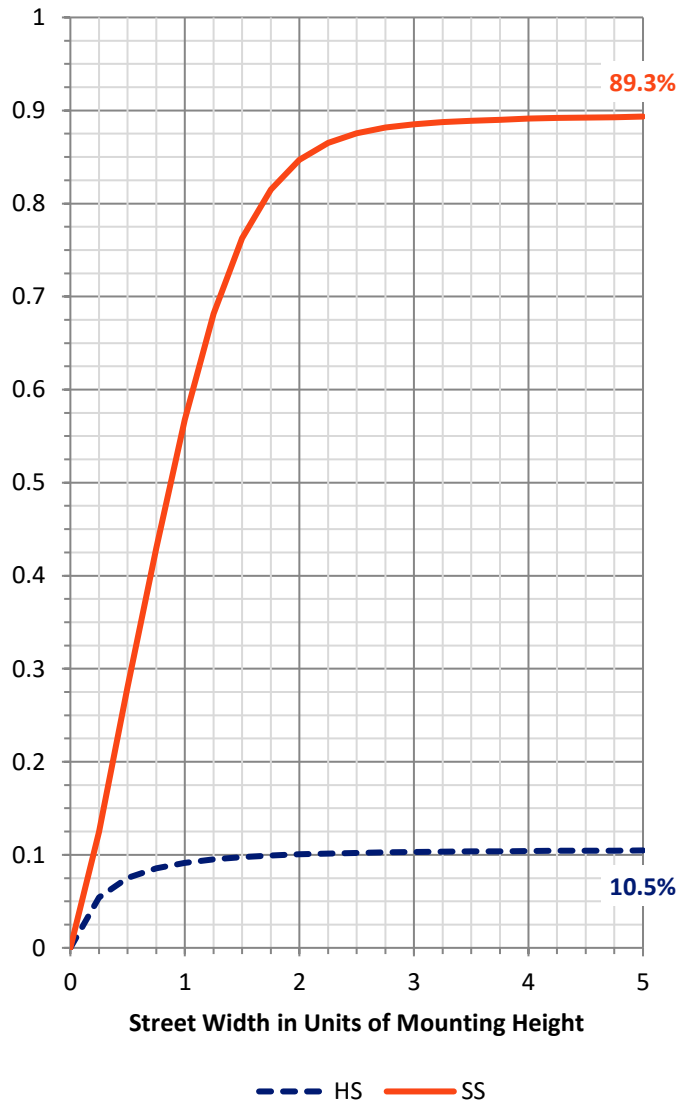
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2240.7	0.0	2240.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	18943.3	0.0	18943.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	21184.0	0.0	21184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.3
10°-20°	901.9	4.3
20°-30°	1631.8	7.7
30°-40°	2551.7	12.0
40°-50°	3870.9	18.3
50°-60°	4918.1	23.2
60°-70°	4595.5	21.7
70°-80°	2283.9	10.8
80°-90°	153.4	0.7
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°	21184.0	100.0
0°-180°	21184.0	100.0

Coefficient of Utilization



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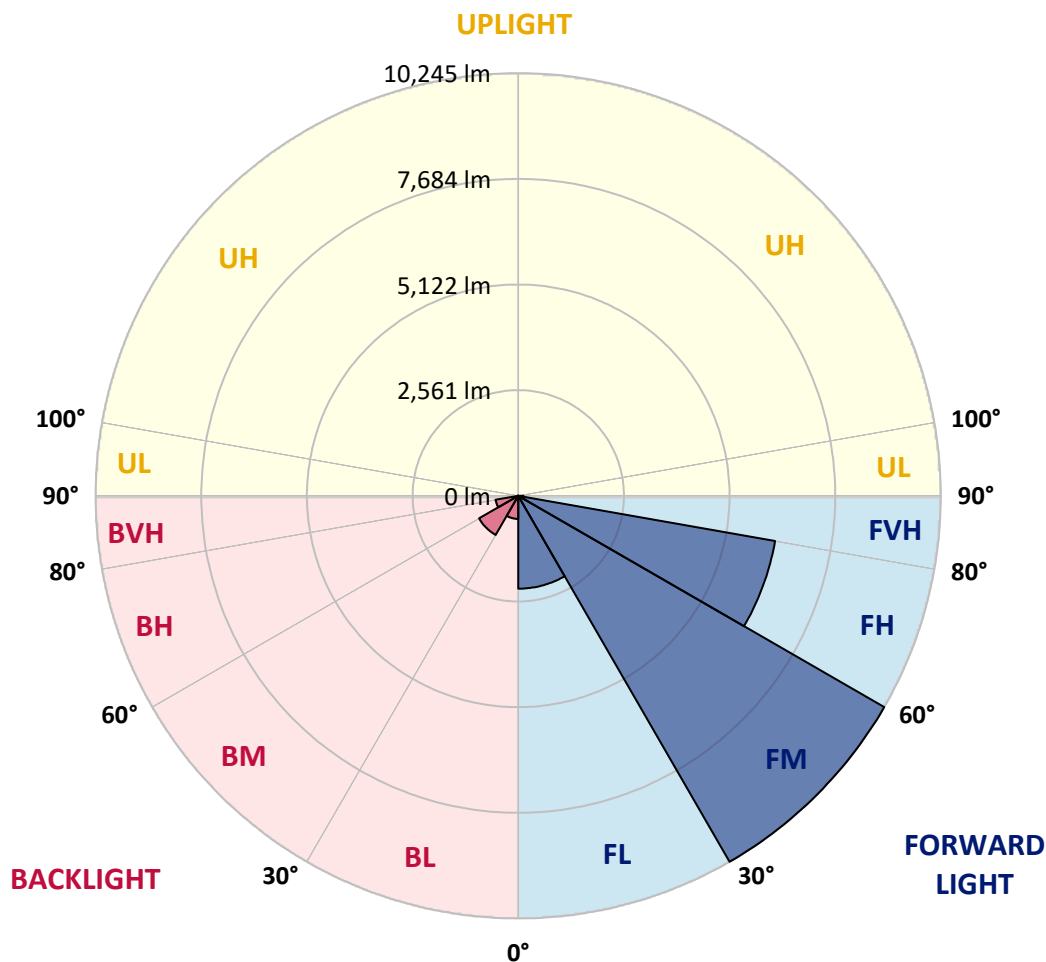
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2250.8	10.6			
FM	(30°-60°)	10244.8	48.4			
FH	(60°-80°)	6321.4	29.8			G3/7500
FVH	(80°-90°)	126.3	0.6			G2/225
BL	(0°-30°)	559.6	2.6	B2/1000		
BM	(30°-60°)	1095.9	5.2	B2/2500		
BH	(60°-80°)	558.0	2.6	B2/1000		G2/1000
BVH	(80°-90°)	27.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6
2.5°	3274.6	3301.2	3314.5	3319.0	3216.8	3172.4	3127.9	3025.7	3003.5	2945.8	2870.2
5°	3852.2	3887.7	3878.8	3861.0	3736.6	3594.5	3478.9	3287.9	3256.8	3119.0	2950.2
7.5°	4420.9	4452.0	4443.1	4376.4	4238.7	4038.8	3847.7	3567.8	3523.4	3301.2	3030.2
10°	4896.3	4922.9	4918.5	4851.8	4687.5	4443.1	4212.0	3838.8	3785.5	3470.0	3096.8
12.5°	5287.3	5322.8	5318.4	5273.9	5127.3	4860.7	4598.6	4149.8	4083.2	3674.4	3190.1
15°	5593.8	5638.3	5638.3	5620.5	5518.3	5296.2	4998.5	4492.0	4412.0	3909.9	3305.7
17.5°	5780.5	5816.0	5847.1	5878.2	5807.1	5638.3	5367.2	4834.1	4749.7	4141.0	3425.6
20°	5878.2	5913.7	5936.0	6002.6	6015.9	5931.5	5718.2	5171.8	5082.9	4403.1	3563.4
22.5°	6038.2	6069.3	6073.7	6131.5	6158.1	6180.3	6047.0	5505.0	5433.9	4691.9	3718.9
25°	6304.7	6340.3	6327.0	6353.6	6358.1	6384.7	6371.4	5887.1	5816.0	5020.7	3905.5
27.5°	6646.9	6691.3	6682.4	6655.7	6615.8	6593.5	6651.3	6273.6	6207.0	5349.5	4096.5
30°	7015.6	7068.9	7055.6	7002.3	6895.7	6802.4	6882.3	6638.0	6575.8	5687.1	4309.8
32.5°	7388.8	7451.1	7446.6	7357.7	7175.6	7015.6	7135.6	6980.1	6935.7	6051.5	4540.8
35°	7633.2	7713.2	7704.3	7651.0	7415.5	7277.8	7424.4	7331.1	7300.0	6495.8	4874.1
37.5°	8028.7	8113.1	8037.5	7904.2	7633.2	7562.1	7739.9	7726.5	7704.3	6966.8	5225.1
40°	8988.4	9112.8	8912.8	8366.3	7922.0	7859.8	8113.1	8166.4	8144.2	7433.3	5540.5
42.5°	9992.5	10179.1	9868.1	9112.8	8446.3	8219.7	8521.8	8597.4	8570.7	7833.2	5824.9
45°	10601.2	10681.2	10370.2	9783.7	9374.9	8655.1	8957.3	9081.7	9059.4	8313.0	6189.2
47.5°	11098.8	11067.7	10712.3	10316.8	10392.4	9268.3	9450.4	9694.8	9677.0	8841.7	6589.1
50°	11205.5	11134.4	10992.2	10743.4	10943.3	9890.3	9970.3	10392.4	10374.6	9428.2	6993.4
52.5°	10454.6	10361.3	10747.8	10956.6	10890.0	10343.5	10543.4	11156.6	11147.7	10063.6	7380.0
55°	8579.6	8504.1	9543.7	10623.4	10832.2	10663.4	11178.8	11951.9	12000.8	10738.9	7731.0
57.5°	6749.0	6669.1	7691.0	9788.1	10619.0	10956.6	11920.8	12862.7	12924.9	11472.0	8064.2
60°	5380.6	5260.6	6042.6	8473.0	10219.1	11183.2	12636.1	13862.4	13871.3	12142.9	8268.6
62.5°	3656.7	3523.4	4389.8	6806.8	9548.2	11218.8	13187.1	14724.4	14759.9	12645.0	8304.1
65°	2221.5	2110.5	2697.0	4971.8	8557.4	10916.7	13196.0	15359.7	15390.8	12876.1	8090.9
67.5°	1288.5	1244.1	1541.8	3096.8	6913.4	10103.6	12640.6	15262.0	15319.8	12778.3	7606.6
70°	750.9	746.4	857.5	1532.9	4878.5	8490.7	11401.0	14440.0	14524.4	12267.4	6864.6
72.5°	550.9	559.8	604.3	822.0	2825.8	6113.7	9654.8	12787.2	12916.0	11267.7	5807.1
75°	435.4	439.9	479.9	559.8	1484.0	3456.7	7233.3	10263.5	10365.7	9486.0	4536.4
77.5°	324.3	333.2	364.3	395.4	688.7	1586.2	4069.9	6322.5	6153.7	5207.3	2190.4
80°	235.5	257.7	271.0	284.4	364.3	613.1	1221.8	2203.8	2186.0	2274.9	1035.2
82.5°	151.1	168.8	182.2	191.1	217.7	293.2	364.3	493.2	533.2	884.2	413.2
85°	66.6	75.5	84.4	102.2	93.3	102.2	151.1	97.7	84.4	133.3	75.5
87.5°	0.0	0.0	13.3	22.2	17.8	8.9	26.7	17.8	13.3	13.3	13.3
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°	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6	2803.6
2.5°	2830.2	2781.4	2679.2	2581.4	2523.7	2448.1	2381.5	2319.3	2314.8	2297.1	2266.0
5°	2865.8	2772.5	2581.4	2399.3	2261.5	2114.9	1990.5	1892.8	1857.2	1830.6	1795.0
7.5°	2901.3	2754.7	2470.4	2203.8	1986.1	1781.7	1635.1	1501.8	1461.8	1426.2	1404.0
10°	2914.7	2723.6	2341.5	1986.1	1701.7	1484.0	1328.5	1230.7	1195.2	1177.4	1164.1
12.5°	2954.7	2705.8	2221.5	1781.7	1452.9	1252.9	1141.9	1084.1	1070.8	1057.5	1044.1
15°	3008.0	2705.8	2101.6	1581.7	1257.4	1097.4	1030.8	990.8	981.9	977.5	968.6
17.5°	3065.7	2705.8	1986.1	1412.9	1115.2	995.3	946.4	924.2	919.7	915.3	910.8
20°	3145.7	2710.3	1861.7	1266.3	1013.0	919.7	879.7	853.1	848.6	844.2	844.2
22.5°	3225.7	2719.2	1741.7	1155.2	946.4	862.0	813.1	786.4	777.5	777.5	777.5
25°	3327.9	2745.8	1630.6	1061.9	888.6	808.6	746.4	724.2	719.8	719.8	715.3
27.5°	3447.8	2776.9	1532.9	990.8	830.9	746.4	684.2	662.0	653.1	653.1	648.7
30°	3576.7	2808.0	1452.9	937.5	773.1	684.2	626.5	599.8	590.9	595.4	590.9
32.5°	3718.9	2852.5	1390.7	901.9	719.8	630.9	577.6	546.5	542.1	542.1	537.6
35°	3958.8	2976.9	1381.8	884.2	675.3	590.9	537.6	506.5	502.1	502.1	497.6
37.5°	4216.5	3119.0	1421.8	875.3	639.8	555.4	506.5	475.4	471.0	471.0	471.0
40°	4434.2	3225.7	1466.2	875.3	617.6	524.3	479.9	453.2	453.2	453.2	453.2
42.5°	4580.8	3234.6	1457.3	875.3	599.8	502.1	462.1	435.4	435.4	439.9	435.4
45°	4798.5	3279.0	1421.8	862.0	586.5	484.3	444.3	422.1	417.6	422.1	422.1
47.5°	5056.2	3359.0	1386.2	808.6	582.0	466.5	431.0	404.3	399.9	404.3	399.9
50°	5300.6	3430.1	1368.5	737.6	573.2	448.8	413.2	386.5	382.1	386.5	382.1
52.5°	5505.0	3461.2	1337.4	688.7	550.9	431.0	395.4	368.8	359.9	364.3	364.3
55°	5669.4	3452.3	1292.9	648.7	511.0	413.2	373.2	351.0	337.7	337.7	333.2
57.5°	5820.4	3456.7	1252.9	608.7	466.5	386.5	355.4	328.8	311.0	306.6	302.1
60°	5878.2	3434.5	1181.9	555.4	422.1	364.3	333.2	302.1	284.4	279.9	275.5
62.5°	5798.2	3354.5	1088.6	462.1	382.1	337.7	311.0	279.9	262.1	257.7	253.3
65°	5571.6	3203.5	946.4	364.3	346.6	306.6	284.4	262.1	239.9	231.0	226.6
67.5°	5185.1	2985.8	768.7	293.2	306.6	279.9	266.6	239.9	213.3	204.4	199.9
70°	4634.1	2697.0	577.6	248.8	271.0	248.8	239.9	213.3	191.1	182.2	177.7
72.5°	3861.0	2230.4	404.3	213.3	235.5	217.7	208.8	191.1	168.8	155.5	155.5
75°	2919.1	1599.5	266.6	182.2	195.5	186.6	173.3	160.0	146.6	137.7	133.3
77.5°	1257.4	622.0	164.4	137.7	160.0	155.5	137.7	128.8	124.4	115.5	115.5
80°	542.1	253.3	102.2	102.2	115.5	111.1	106.6	97.7	97.7	93.3	88.9
82.5°	199.9	102.2	62.2	75.5	84.4	75.5	75.5	75.5	75.5	71.1	71.1
85°	48.9	31.1	31.1	44.4	48.9	44.4	48.9	44.4	44.4	44.4	40.0
87.5°	13.3	13.3	17.8	17.8	17.8	17.8	17.8	13.3	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)