

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: P840953

Luminaire Tested: **ARCH4-110-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13193 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 112.6
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



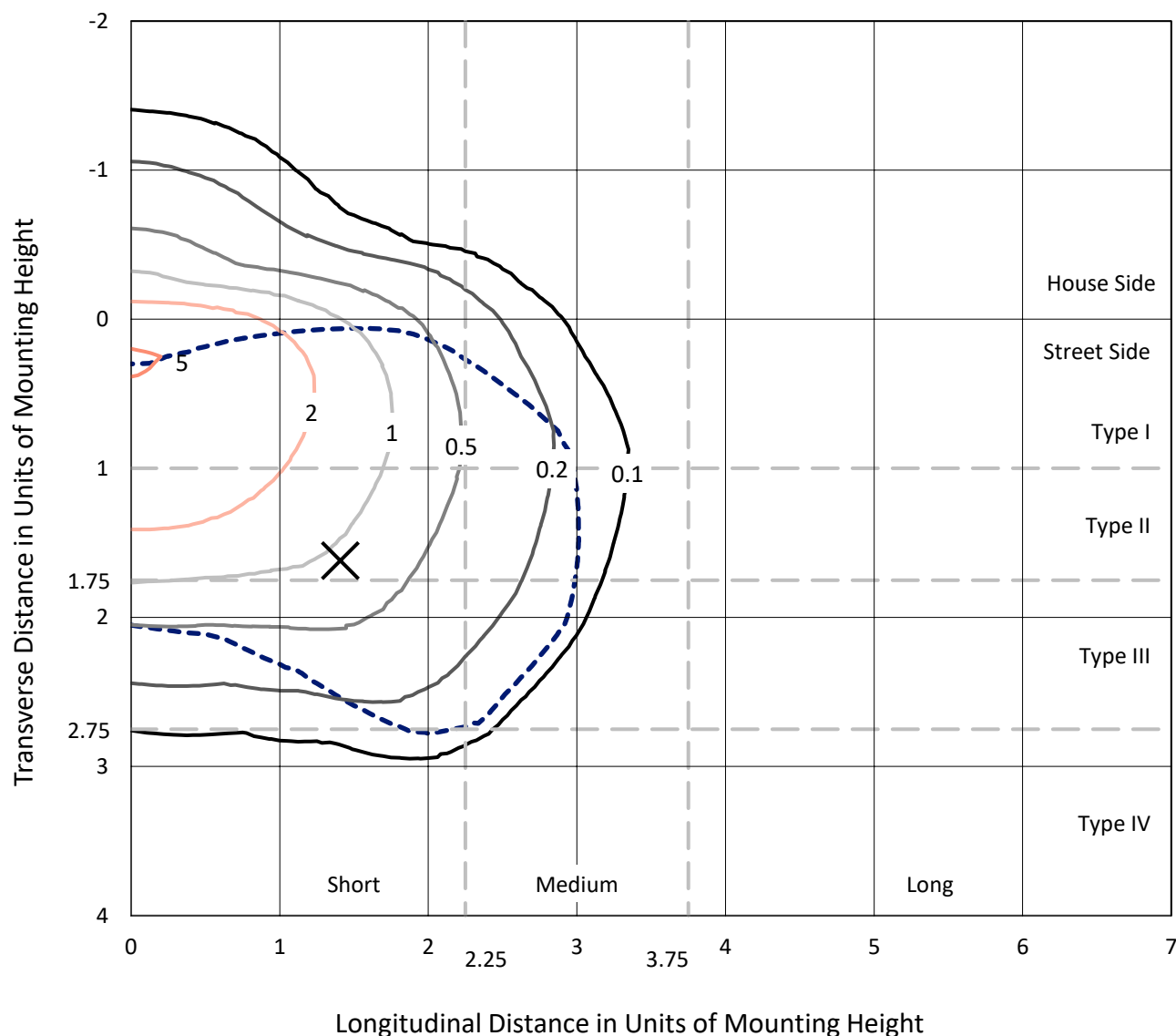
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

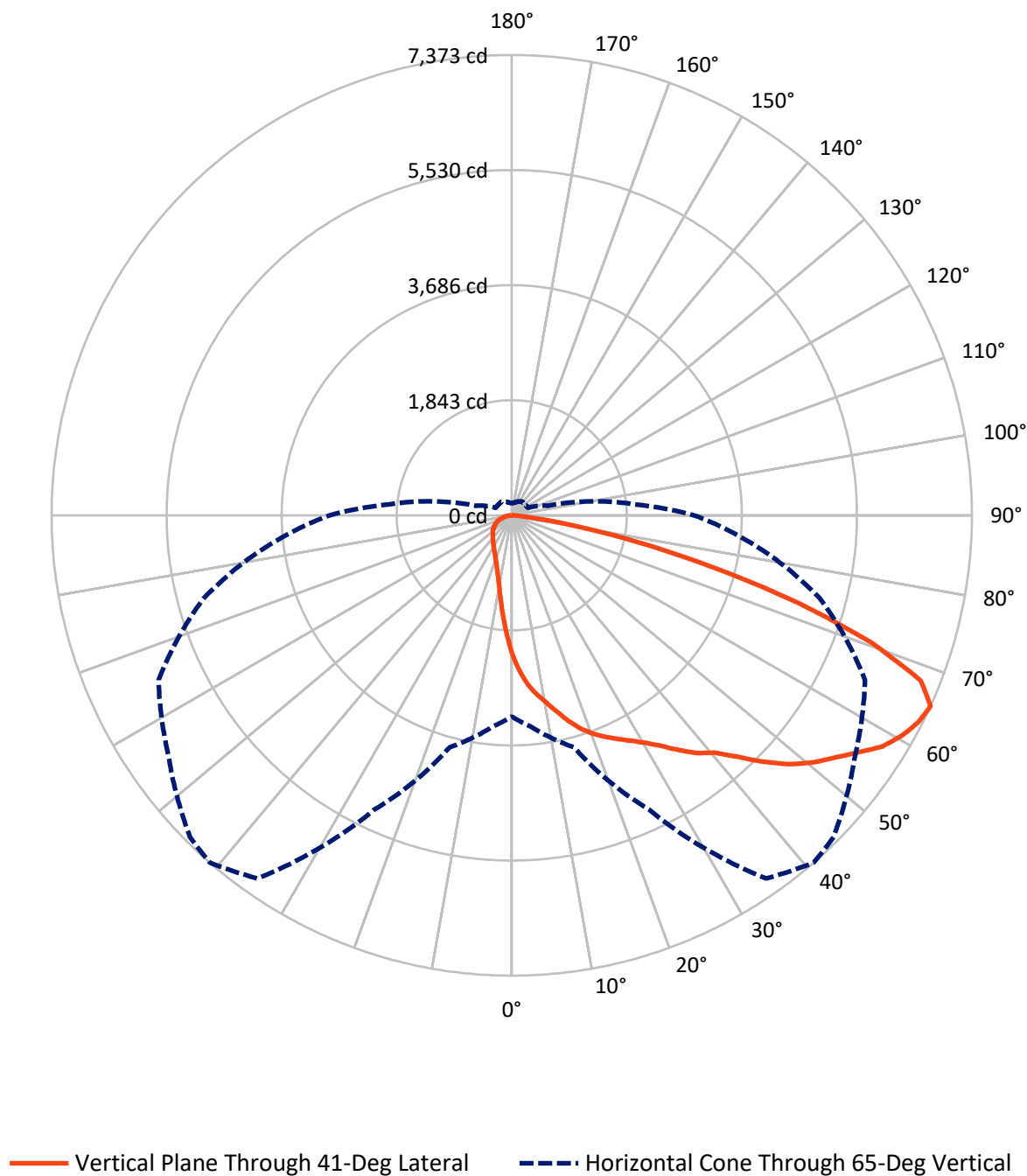


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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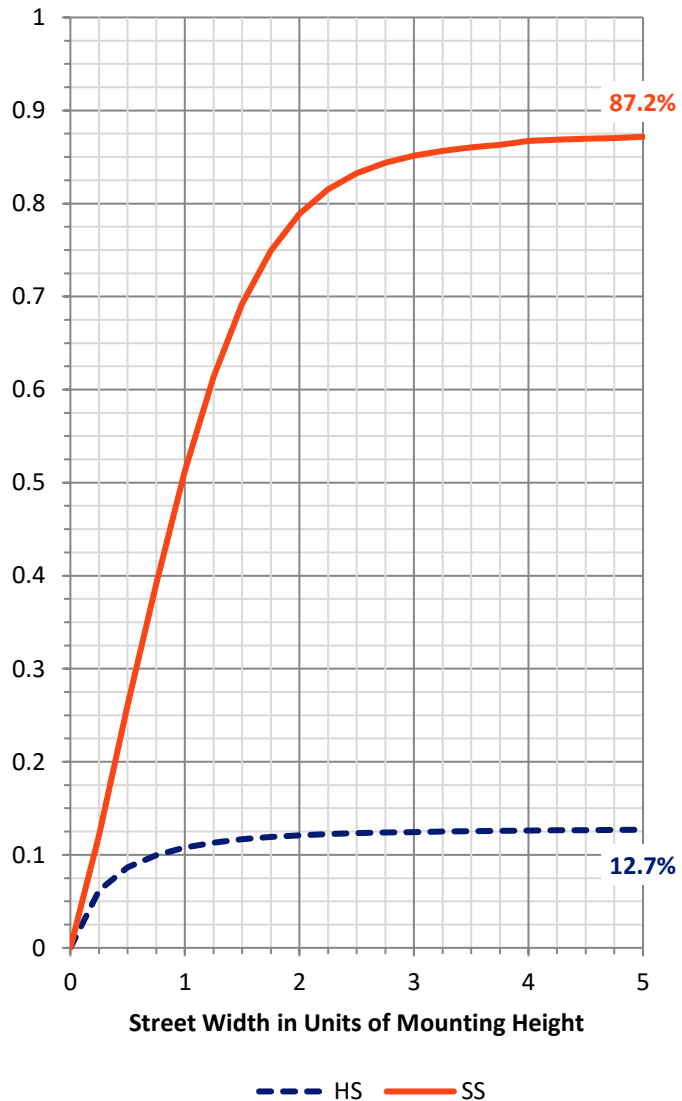
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1693.8	0.0	1693.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11499.2	0.0	11499.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	13193.0	0.0	13193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.6
10°-20°	628.1	4.8
20°-30°	1080.5	8.2
30°-40°	1638.8	12.4
40°-50°	2400.8	18.2
50°-60°	3031.7	23.0
60°-70°	2842.8	21.5
70°-80°	1267.0	9.6
80°-90°	93.9	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°	13193.0	100.0
0°-180°	13193.0	100.0

Coefficient of Utilization



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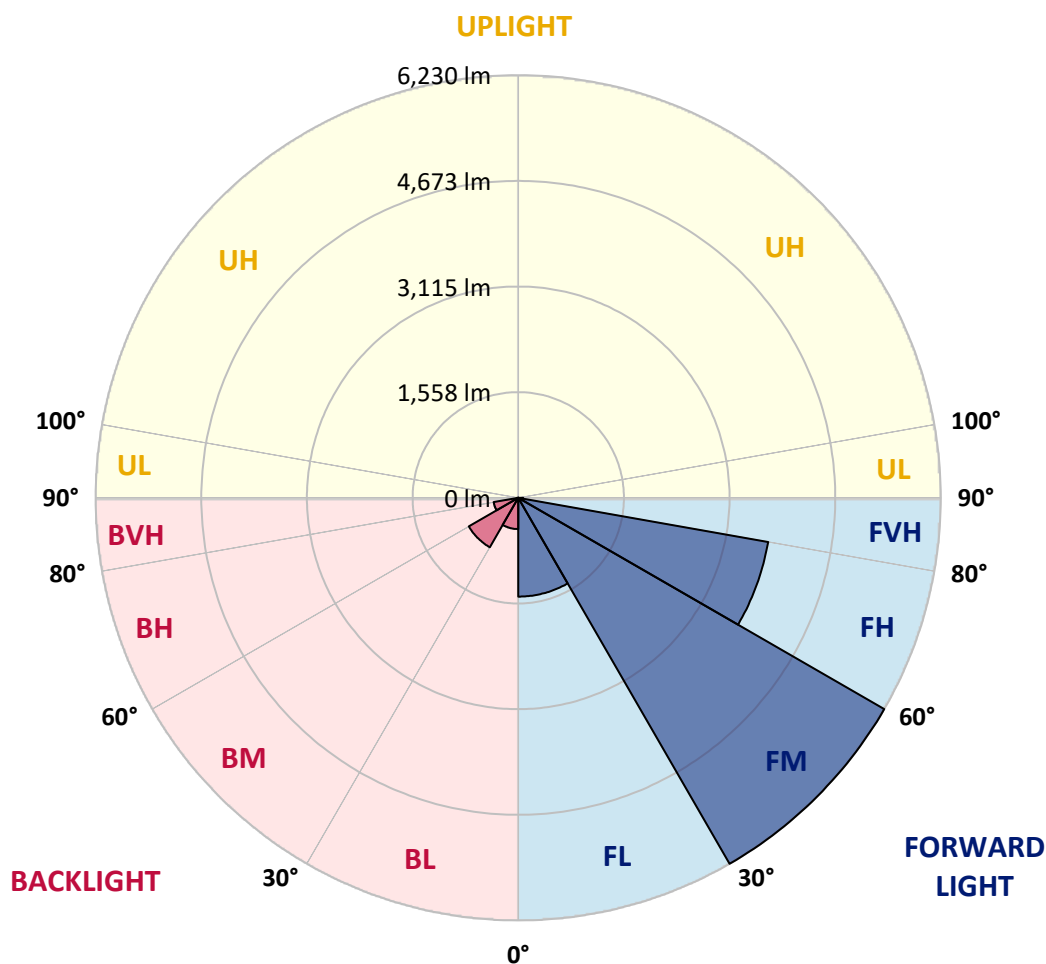
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1457.0	11.0			
FM	(30°-60°)	6230.2	47.2			
FH	(60°-80°)	3741.9	28.4			G2/5000
FVH	(80°-90°)	70.1	0.5			G1/100
BL	(0°-30°)	461.0	3.5	B1/500		
BM	(30°-60°)	841.1	6.4	B1/1000		
BH	(60°-80°)	367.9	2.8	B1/500		G1/500
BVH	(80°-90°)	23.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0
2.5°	2593.0	2584.7	2579.1	2548.5	2548.5	2506.8	2509.5	2470.6	2423.3	2348.2	2267.5
5°	2837.8	2826.7	2812.8	2782.2	2771.1	2729.3	2723.8	2668.1	2587.4	2456.7	2312.0
7.5°	3052.1	3040.9	3021.5	2977.0	2946.4	2896.3	2882.4	2810.0	2721.0	2559.6	2356.5
10°	3246.8	3238.5	3213.4	3157.8	3116.1	3054.9	3029.8	2932.4	2821.2	2643.1	2392.7
12.5°	3444.4	3433.2	3399.8	3352.6	3302.5	3230.1	3199.5	3074.3	2932.4	2734.9	2445.6
15°	3628.0	3611.3	3586.3	3536.2	3491.7	3422.1	3388.7	3241.3	3068.8	2837.8	2515.1
17.5°	3747.6	3733.7	3711.5	3683.6	3647.5	3594.6	3561.2	3416.5	3205.1	2938.0	2587.4
20°	3820.0	3814.4	3806.1	3789.4	3772.7	3736.5	3711.5	3575.1	3352.6	3035.4	2657.0
22.5°	3875.6	3870.0	3867.3	3867.3	3870.0	3856.1	3839.4	3722.6	3494.4	3138.3	2721.0
25°	3961.9	3959.1	3953.5	3947.9	3967.4	3970.2	3964.6	3884.0	3672.5	3274.7	2801.7
27.5°	4081.5	4073.1	4062.0	4056.4	4075.9	4089.8	4101.0	4045.3	3861.7	3413.8	2893.5
30°	4265.1	4240.1	4212.3	4192.8	4206.7	4228.9	4254.0	4220.6	4056.4	3586.3	2988.1
32.5°	4482.1	4451.5	4387.5	4351.4	4387.5	4404.2	4423.7	4407.0	4259.5	3772.7	3082.7
35°	4746.4	4710.3	4643.5	4590.6	4654.6	4618.5	4610.1	4593.4	4451.5	3956.3	3188.4
37.5°	5186.0	5133.2	5027.4	4910.6	4910.6	4832.7	4802.1	4752.0	4624.0	4120.4	3291.3
40°	5695.2	5625.6	5489.3	5316.8	5158.2	4996.8	4977.4	4941.2	4827.1	4309.6	3408.2
42.5°	6254.4	6120.8	5931.7	5723.0	5467.0	5283.4	5238.9	5135.9	5024.7	4501.6	3525.0
45°	6874.8	6596.6	6321.2	6215.4	5792.5	5625.6	5542.1	5355.7	5230.5	4701.9	3647.5
47.5°	6975.0	6758.0	6574.3	6557.6	6095.8	5956.7	5862.1	5595.0	5453.1	4916.1	3775.4
50°	6919.3	6788.6	6808.0	6741.3	6318.4	6226.6	6154.2	5851.0	5672.9	5122.0	3892.3
52.5°	6685.6	6758.0	6869.3	6746.8	6529.8	6454.7	6418.5	6126.4	5878.8	5311.2	3998.0
55°	6407.4	6457.5	6696.8	6847.0	6774.7	6707.9	6674.5	6446.4	6081.9	5469.8	4095.4
57.5°	6001.2	5978.9	6243.3	6830.3	7030.6	6991.7	6955.5	6760.7	6271.1	5583.9	4156.6
60°	5391.9	5344.6	5678.5	6496.4	7114.1	7175.3	7158.6	6969.4	6415.8	5581.1	4131.6
62.5°	4337.5	4454.3	4916.1	5951.1	7150.3	7306.1	7275.5	6986.1	6463.1	5419.7	3973.0
65°	3224.6	3391.5	3845.0	5199.9	7100.2	7372.8	7289.4	6713.5	6243.3	5099.8	3625.2
67.5°	2323.1	2470.6	2801.7	4279.0	6618.9	7066.8	6969.4	6268.3	5736.9	4646.3	3143.9
70°	1588.6	1694.4	1919.7	3116.1	5650.6	6109.7	6048.5	5603.4	4938.4	4106.5	2554.1
72.5°	1121.2	1165.7	1310.4	2056.0	4292.9	4793.7	4721.4	4610.1	3967.4	3413.8	1986.5
75°	840.2	868.0	945.9	1329.9	2896.3	3321.9	3255.2	3319.2	2963.0	2584.7	1446.7
77.5°	317.2	345.0	537.0	848.6	1713.8	2039.4	1972.6	2011.5	1647.1	1304.9	720.6
80°	86.2	91.8	178.1	403.4	779.0	1015.5	923.7	792.9	612.1	601.0	381.2
82.5°	36.2	41.7	80.7	217.0	278.2	278.2	233.7	289.3	233.7	281.0	183.6
85°	13.9	16.7	19.5	55.6	36.2	39.0	41.7	55.6	47.3	58.4	41.7
87.5°	0.0	0.0	0.0	2.8	2.8	5.6	2.8	5.6	8.3	8.3	8.3
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°	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0	2248.0
2.5°	2234.1	2203.5	2159.0	2086.7	2011.5	1969.8	1916.9	1908.6	1852.9	1847.4	1825.1
5°	2248.0	2184.0	2070.0	1930.8	1794.5	1688.8	1610.9	1569.2	1488.5	1488.5	1466.2
7.5°	2259.1	2159.0	1975.4	1769.5	1583.1	1441.2	1335.5	1290.9	1218.6	1213.0	1196.3
10°	2261.9	2128.4	1872.4	1605.3	1377.2	1232.5	1129.6	1079.5	1015.5	1009.9	998.8
12.5°	2284.2	2111.7	1780.6	1463.4	1229.7	1073.9	973.8	932.0	882.0	876.4	865.3
15°	2320.4	2111.7	1702.7	1343.8	1099.0	954.3	868.0	829.1	792.9	787.4	781.8
17.5°	2356.5	2106.1	1624.8	1232.5	990.5	859.7	784.6	754.0	726.2	723.4	717.8
20°	2389.9	2103.3	1546.9	1137.9	907.0	781.8	723.4	695.6	673.3	673.3	670.5
22.5°	2423.3	2097.8	1471.8	1048.9	834.7	723.4	673.3	642.7	626.0	626.0	623.2
25°	2473.4	2097.8	1402.2	973.8	776.2	678.9	628.8	606.5	592.6	589.8	589.8
27.5°	2531.8	2114.5	1341.0	907.0	726.2	634.3	595.4	573.1	556.4	550.9	553.7
30°	2595.8	2128.4	1285.4	848.6	678.9	601.0	559.2	537.0	520.3	514.7	517.5
32.5°	2659.8	2145.1	1235.3	795.7	631.6	570.4	528.6	503.6	486.9	484.1	484.1
35°	2729.3	2161.8	1185.2	751.2	592.6	539.7	500.8	473.0	461.8	456.3	459.1
37.5°	2798.9	2189.6	1137.9	709.5	564.8	511.9	475.8	447.9	439.6	436.8	436.8
40°	2882.4	2231.3	1118.4	681.6	539.7	486.9	456.3	428.5	420.1	420.1	420.1
42.5°	2951.9	2264.7	1101.8	651.0	520.3	464.6	436.8	414.5	409.0	406.2	409.0
45°	3021.5	2295.3	1079.5	623.2	495.2	442.4	420.1	397.9	392.3	392.3	392.3
47.5°	3091.0	2312.0	1048.9	595.4	473.0	422.9	403.4	383.9	378.4	378.4	378.4
50°	3146.7	2325.9	1004.4	564.8	447.9	406.2	386.7	367.3	361.7	361.7	361.7
52.5°	3202.3	2328.7	957.1	528.6	422.9	386.7	370.0	350.6	345.0	342.2	342.2
55°	3252.4	2325.9	901.4	486.9	395.1	364.5	350.6	333.9	322.7	311.6	317.2
57.5°	3288.6	2323.1	837.4	445.2	367.3	342.2	336.6	314.4	292.1	264.3	269.9
60°	3274.7	2292.5	767.9	392.3	336.6	320.0	320.0	289.3	250.4	236.5	239.3
62.5°	3185.6	2206.3	695.6	336.6	306.0	297.7	294.9	261.5	230.9	217.0	219.8
65°	2918.5	1989.3	589.8	286.6	275.4	272.7	272.7	242.1	214.2	197.5	200.3
67.5°	2512.3	1669.3	481.3	242.1	244.8	250.4	250.4	222.6	194.8	178.1	180.8
70°	2014.3	1304.9	383.9	208.7	211.4	219.8	225.4	200.3	175.3	158.6	158.6
72.5°	1516.3	990.5	308.8	175.3	189.2	189.2	197.5	178.1	153.0	136.3	139.1
75°	1099.0	709.5	244.8	147.5	164.1	161.4	161.4	150.2	130.8	119.6	119.6
77.5°	520.3	372.8	194.8	105.7	128.0	125.2	128.0	119.6	111.3	100.2	102.9
80°	256.0	183.6	125.2	75.1	89.0	91.8	100.2	94.6	91.8	83.5	83.5
82.5°	122.4	72.3	58.4	52.9	61.2	64.0	69.6	69.6	72.3	66.8	66.8
85°	33.4	19.5	25.0	33.4	39.0	41.7	47.3	50.1	50.1	47.3	50.1
87.5°	8.3	8.3	11.1	16.7	19.5	22.3	25.0	25.0	11.1	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)