

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: P836465

Luminaire Tested: **ARCH3-190-727-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16215 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 189.4
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



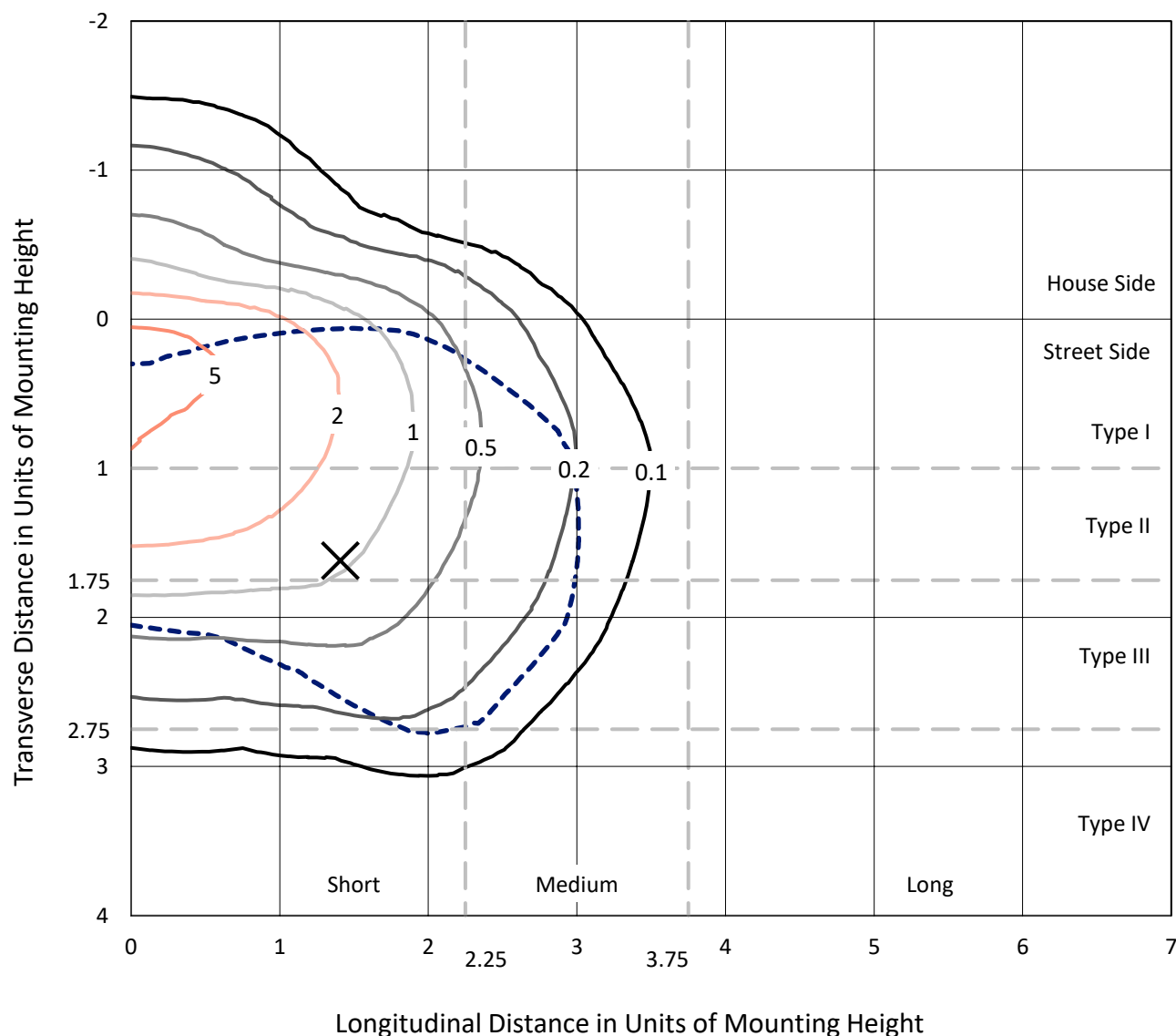
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

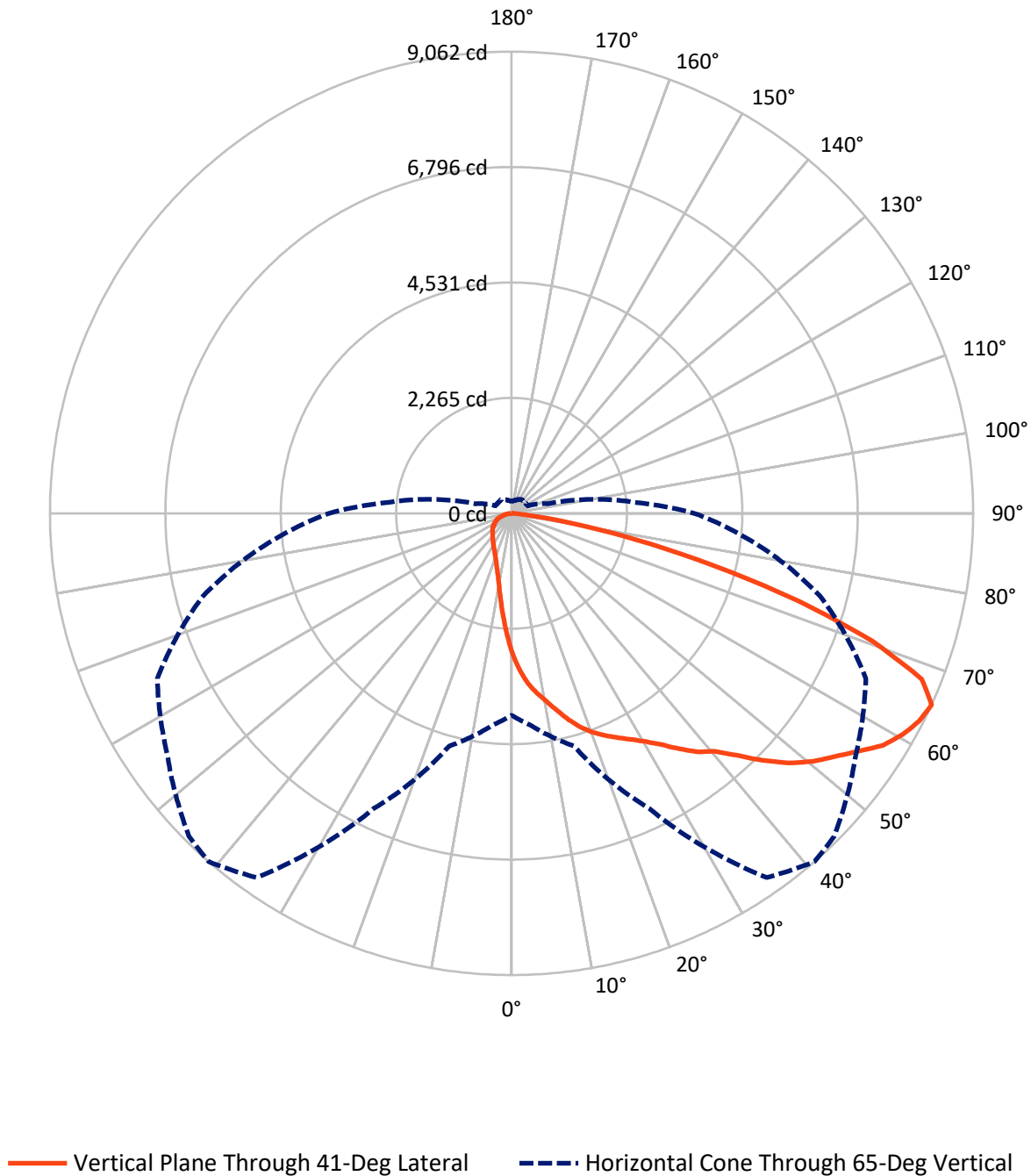


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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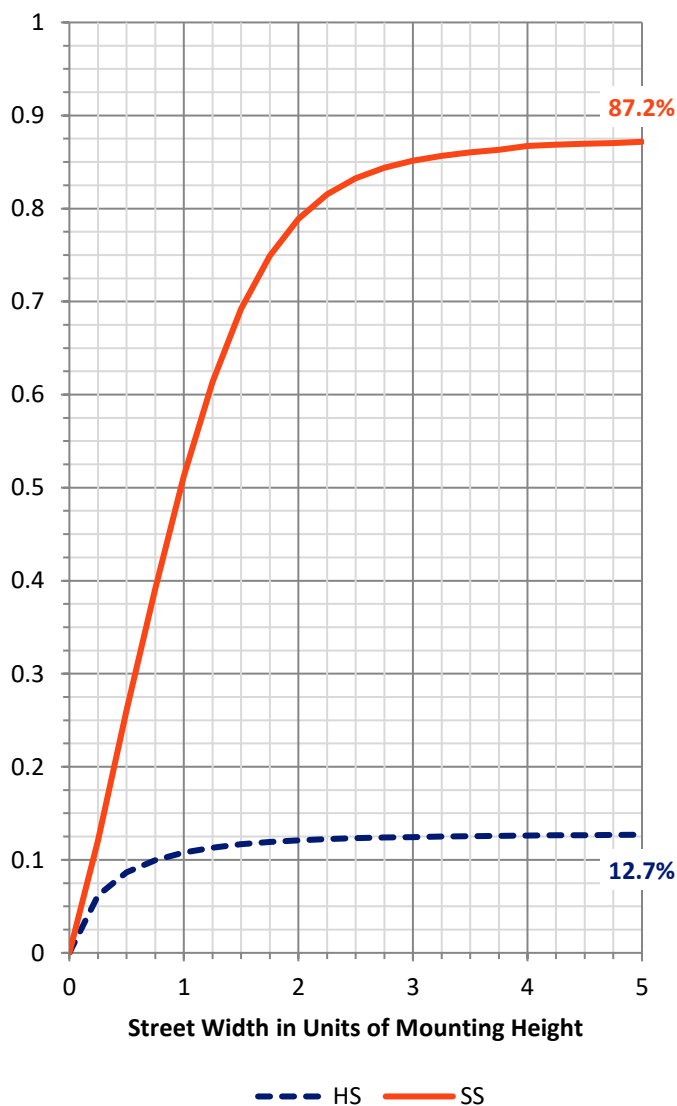
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2081.8	0.0	2081.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14133.2	0.0	14133.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	16215.0	0.0	16215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	1.6
10°-20°	771.9	4.8
20°-30°	1328.0	8.2
30°-40°	2014.1	12.4
40°-50°	2950.8	18.2
50°-60°	3726.2	23.0
60°-70°	3494.0	21.5
70°-80°	1557.2	9.6
80°-90°	115.4	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°	16215.0	100.0
0°-180°	16215.0	100.0

Coefficient of Utilization



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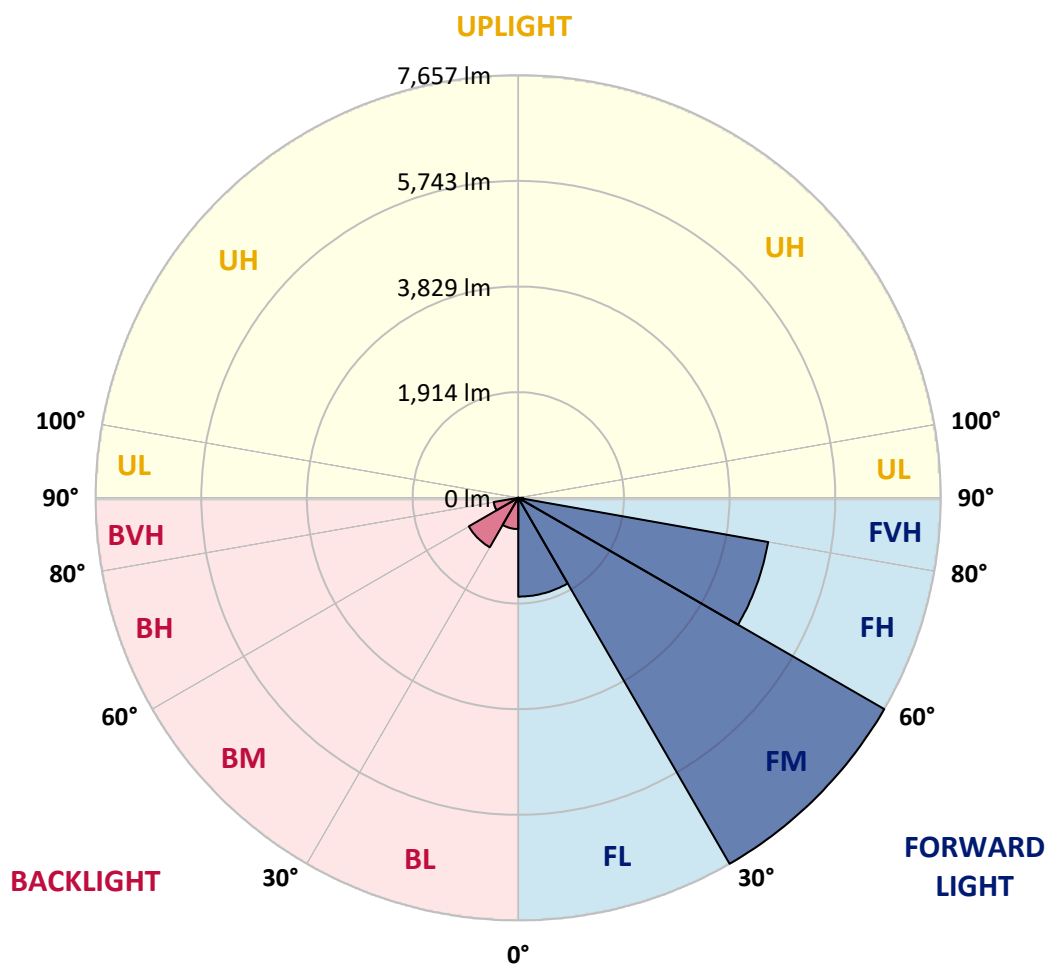
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1790.7	11.0			
FM	(30°-60°)	7657.4	47.2			
FH	(60°-80°)	4599.0	28.4			G2/5000
FVH	(80°-90°)	86.2	0.5			G1/100
BL	(0°-30°)	566.6	3.5	B2/1000		
BM	(30°-60°)	1033.7	6.4	B2/2500		
BH	(60°-80°)	452.2	2.8	B1/500		G1/500
BVH	(80°-90°)	29.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0
2.5°	3187.0	3176.7	3169.9	3132.3	3132.3	3081.0	3084.4	3036.5	2978.4	2886.1	2786.9
5°	3487.9	3474.2	3457.1	3419.5	3405.8	3354.5	3347.7	3279.3	3180.1	3019.4	2841.6
7.5°	3751.2	3737.5	3713.6	3658.9	3621.2	3559.7	3542.6	3453.7	3344.3	3145.9	2896.3
10°	3990.5	3980.3	3949.5	3881.1	3829.8	3754.6	3723.8	3604.1	3467.4	3248.5	2940.8
12.5°	4233.3	4219.7	4178.6	4120.5	4058.9	3970.0	3932.4	3778.5	3604.1	3361.4	3005.7
15°	4459.0	4438.5	4407.7	4346.2	4291.5	4206.0	4164.9	3983.7	3771.7	3487.9	3091.2
17.5°	4606.1	4589.0	4561.6	4527.4	4483.0	4418.0	4377.0	4199.1	3939.3	3611.0	3180.1
20°	4695.0	4688.1	4677.9	4657.4	4636.8	4592.4	4561.6	4394.0	4120.5	3730.7	3265.6
22.5°	4763.4	4756.5	4753.1	4753.1	4756.5	4739.4	4718.9	4575.3	4294.9	3857.2	3344.3
25°	4869.4	4865.9	4859.1	4852.3	4876.2	4879.6	4872.8	4773.6	4513.7	4024.7	3443.4
27.5°	5016.4	5006.1	4992.5	4985.6	5009.6	5026.7	5040.3	4971.9	4746.3	4195.7	3556.3
30°	5242.1	5211.3	5177.1	5153.2	5170.3	5197.6	5228.4	5187.4	4985.6	4407.7	3672.5
32.5°	5508.8	5471.2	5392.5	5348.1	5392.5	5413.1	5437.0	5416.5	5235.2	4636.8	3788.8
35°	5833.7	5789.2	5707.1	5642.2	5720.8	5676.4	5666.1	5645.6	5471.2	4862.5	3918.7
37.5°	6373.9	6309.0	6179.0	6035.4	6035.4	5939.7	5902.0	5840.5	5683.2	5064.3	4045.3
40°	6999.7	6914.2	6746.7	6534.7	6339.7	6141.4	6117.5	6073.0	5932.8	5296.8	4188.9
42.5°	7687.0	7522.9	7290.4	7033.9	6719.3	6493.6	6438.9	6312.4	6175.6	5532.7	4332.5
45°	8449.6	8107.6	7769.1	7639.1	7119.4	6914.2	6811.6	6582.5	6428.6	5778.9	4483.0
47.5°	8572.7	8306.0	8080.3	8059.7	7492.1	7321.1	7204.9	6876.6	6702.2	6042.2	4640.3
50°	8504.3	8343.6	8367.5	8285.4	7765.7	7652.8	7563.9	7191.2	6972.3	6295.3	4783.9
52.5°	8217.0	8306.0	8442.7	8292.3	8025.6	7933.2	7888.8	7529.7	7225.4	6527.8	4913.8
55°	7875.1	7936.6	8230.7	8415.4	8326.5	8244.4	8203.4	7923.0	7475.0	6722.7	5033.5
57.5°	7375.8	7348.5	7673.3	8394.9	8641.1	8593.2	8548.7	8309.4	7707.5	6862.9	5108.7
60°	6627.0	6568.8	6979.2	7984.5	8743.6	8818.9	8798.4	8565.8	7885.4	6859.5	5077.9
62.5°	5331.0	5474.6	6042.2	7314.3	8788.1	8979.6	8942.0	8586.3	7943.5	6661.2	4883.0
65°	3963.2	4168.4	4725.7	6391.0	8726.5	9061.7	8959.1	8251.2	7673.3	6267.9	4455.6
67.5°	2855.3	3036.5	3443.4	5259.2	8135.0	8685.5	8565.8	7704.1	7051.0	5710.6	3864.0
70°	1952.5	2082.5	2359.5	3829.8	6945.0	7509.2	7434.0	6886.9	6069.6	5047.2	3139.1
72.5°	1378.1	1432.8	1610.6	2527.0	5276.3	5891.8	5802.9	5666.1	4876.2	4195.7	2441.5
75°	1032.7	1066.9	1162.6	1634.5	3559.7	4082.9	4000.8	4079.5	3641.8	3176.7	1778.1
77.5°	389.8	424.0	660.0	1042.9	2106.4	2506.5	2424.4	2472.3	2024.3	1603.7	885.6
80°	106.0	112.8	218.8	495.8	957.5	1248.1	1135.3	974.6	752.3	738.6	468.5
82.5°	44.5	51.3	99.2	266.7	341.9	341.9	287.2	355.6	287.2	345.4	225.7
85°	17.1	20.5	23.9	68.4	44.5	47.9	51.3	68.4	58.1	71.8	51.3
87.5°	0.0	0.0	0.0	3.4	3.4	6.8	3.4	6.8	10.3	10.3	10.3
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°	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0	2763.0
2.5°	2745.9	2708.2	2653.5	2564.6	2472.3	2421.0	2356.0	2345.8	2277.4	2270.5	2243.2
5°	2763.0	2684.3	2544.1	2373.1	2205.6	2075.6	1979.9	1928.6	1829.4	1829.4	1802.1
7.5°	2776.6	2653.5	2427.8	2174.8	1945.7	1771.3	1641.4	1586.6	1497.7	1490.9	1470.4
10°	2780.0	2615.9	2301.3	1973.0	1692.6	1514.8	1388.3	1326.8	1248.1	1241.3	1227.6
12.5°	2807.4	2595.4	2188.5	1798.7	1511.4	1319.9	1196.8	1145.5	1084.0	1077.1	1063.5
15°	2851.9	2595.4	2092.7	1651.6	1350.7	1172.9	1066.9	1019.0	974.6	967.7	960.9
17.5°	2896.3	2588.6	1997.0	1514.8	1217.3	1056.6	964.3	926.7	892.5	889.1	882.2
20°	2937.3	2585.1	1901.2	1398.6	1114.8	960.9	889.1	854.9	827.5	827.5	824.1
22.5°	2978.4	2578.3	1808.9	1289.1	1025.8	889.1	827.5	789.9	769.4	769.4	766.0
25°	3039.9	2578.3	1723.4	1196.8	954.0	834.4	772.8	745.4	728.4	724.9	724.9
27.5°	3111.7	2598.8	1648.2	1114.8	892.5	779.6	731.8	704.4	683.9	677.1	680.5
30°	3190.4	2615.9	1579.8	1042.9	834.4	738.6	687.3	660.0	639.4	632.6	636.0
32.5°	3269.0	2636.4	1518.3	978.0	776.2	701.0	649.7	618.9	598.4	595.0	595.0
35°	3354.5	2656.9	1456.7	923.3	728.4	663.4	615.5	581.3	567.6	560.8	564.2
37.5°	3440.0	2691.1	1398.6	872.0	694.2	629.2	584.7	550.5	540.3	536.9	536.9
40°	3542.6	2742.4	1374.6	837.8	663.4	598.4	560.8	526.6	516.3	516.3	516.3
42.5°	3628.1	2783.5	1354.1	800.2	639.4	571.1	536.9	509.5	502.7	499.2	502.7
45°	3713.6	2821.1	1326.8	766.0	608.7	543.7	516.3	489.0	482.1	482.1	482.1
47.5°	3799.1	2841.6	1289.1	731.8	581.3	519.8	495.8	471.9	465.1	465.1	465.1
50°	3867.4	2858.7	1234.4	694.2	550.5	499.2	475.3	451.4	444.5	444.5	444.5
52.5°	3935.8	2862.1	1176.3	649.7	519.8	475.3	454.8	430.9	424.0	420.6	420.6
55°	3997.4	2858.7	1107.9	598.4	485.6	448.0	430.9	410.3	396.7	383.0	389.8
57.5°	4041.8	2855.3	1029.3	547.1	451.4	420.6	413.8	386.4	359.0	324.9	331.7
60°	4024.7	2817.7	943.8	482.1	413.8	393.2	393.2	355.6	307.8	290.7	294.1
62.5°	3915.3	2711.7	854.9	413.8	376.1	365.9	362.5	321.4	283.8	266.7	270.1
65°	3587.0	2444.9	724.9	352.2	338.5	335.1	335.1	297.5	263.3	242.8	246.2
67.5°	3087.8	2051.7	591.6	297.5	300.9	307.8	307.8	273.6	239.4	218.8	222.3
70°	2475.7	1603.7	471.9	256.5	259.9	270.1	277.0	246.2	215.4	194.9	194.9
72.5°	1863.6	1217.3	379.6	215.4	232.5	232.5	242.8	218.8	188.1	167.6	171.0
75°	1350.7	872.0	300.9	181.2	201.8	198.3	198.3	184.7	160.7	147.0	147.0
77.5°	639.4	458.2	239.4	129.9	157.3	153.9	157.3	147.0	136.8	123.1	126.5
80°	314.6	225.7	153.9	92.3	109.4	112.8	123.1	116.3	112.8	102.6	102.6
82.5°	150.5	88.9	71.8	65.0	75.2	78.6	85.5	85.5	88.9	82.1	82.1
85°	41.0	23.9	30.8	41.0	47.9	51.3	58.1	61.6	61.6	58.1	61.6
87.5°	10.3	10.3	13.7	20.5	23.9	27.4	30.8	30.8	13.7	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)