

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: P841887

Luminaire Tested: **ARCH4-240-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841887
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: ARCH4-240-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 940mA 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: 24215 lumens
Efficiency: N/A
Efficacy: 100.8 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): 240.2
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



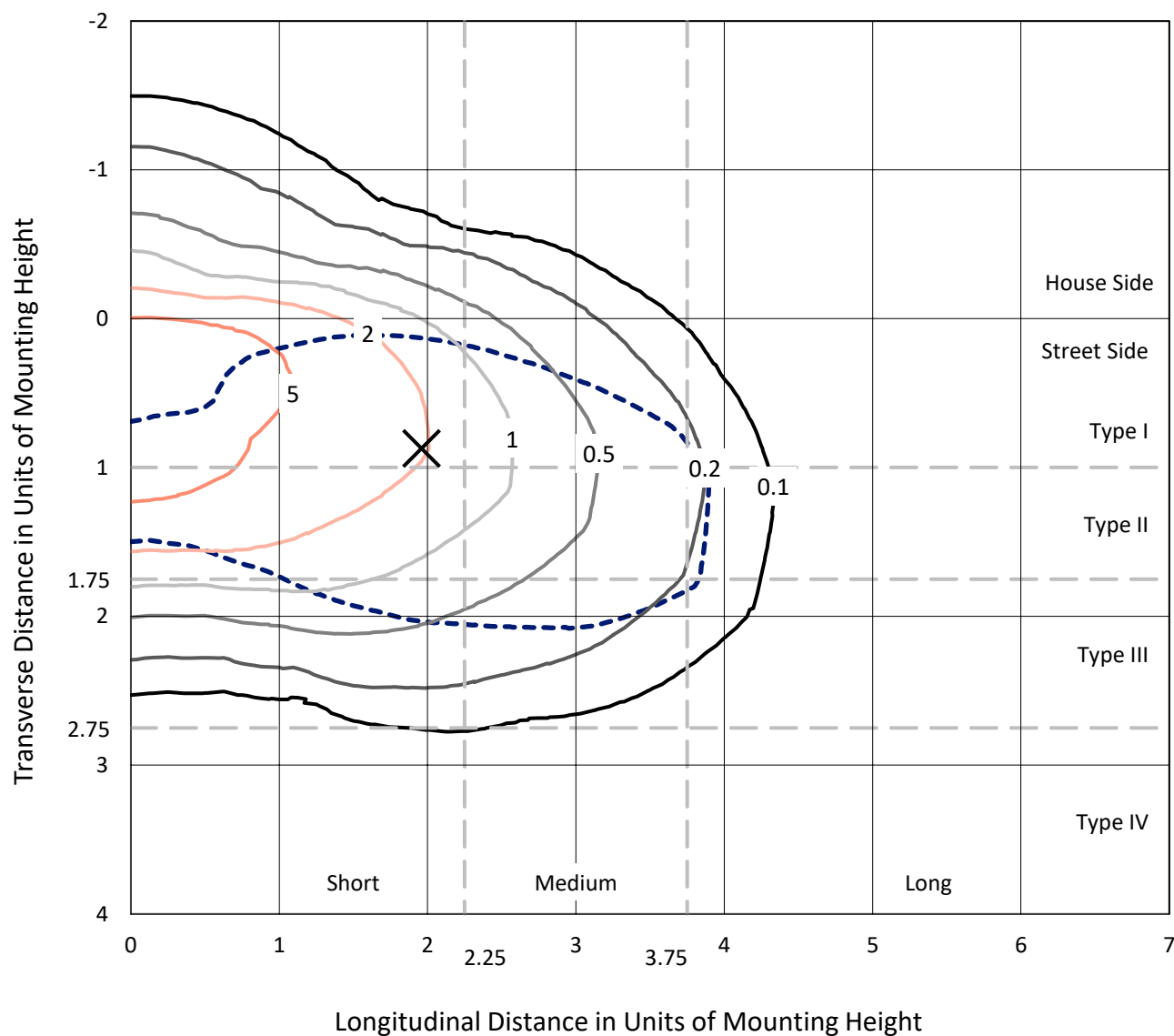
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

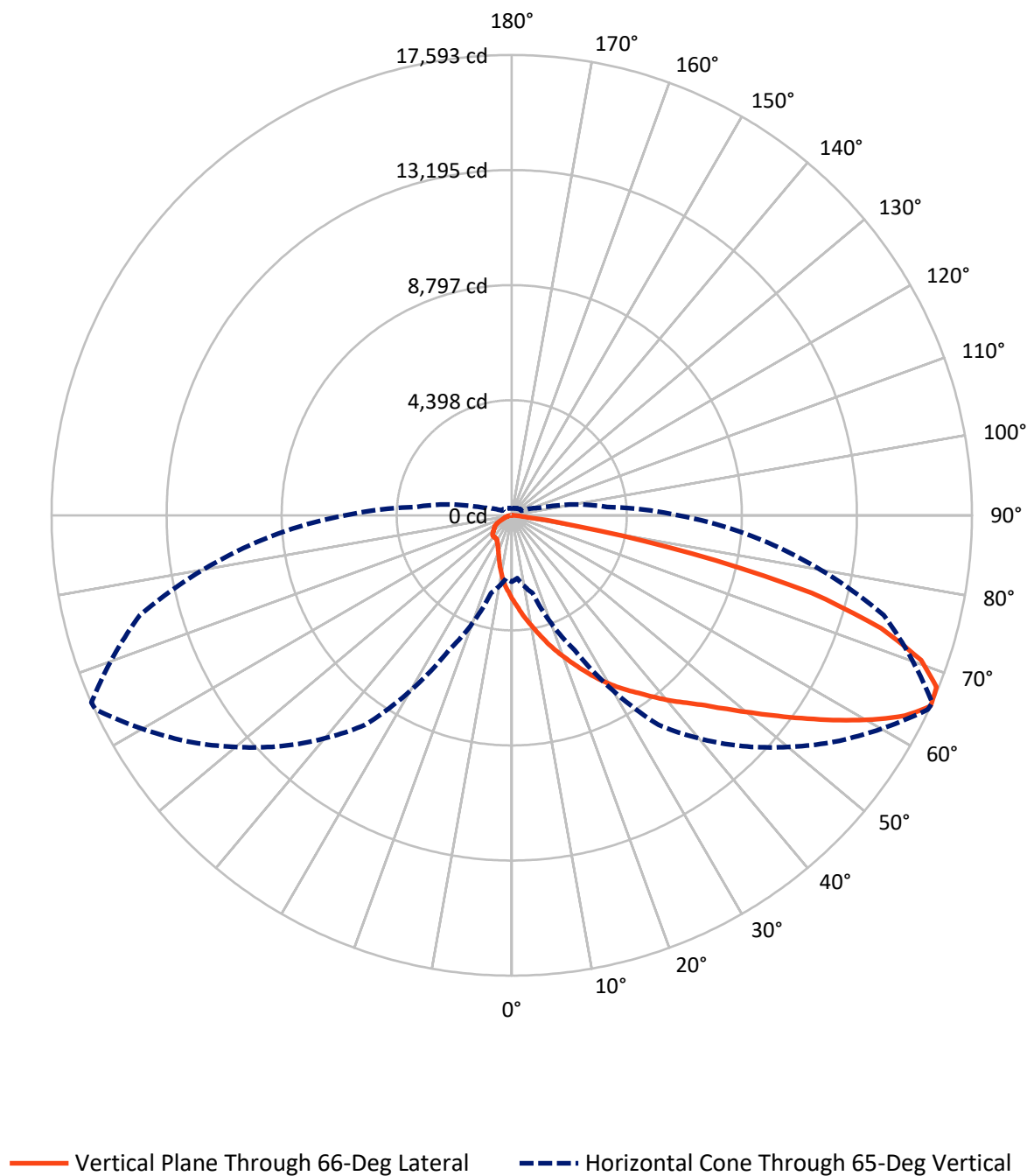


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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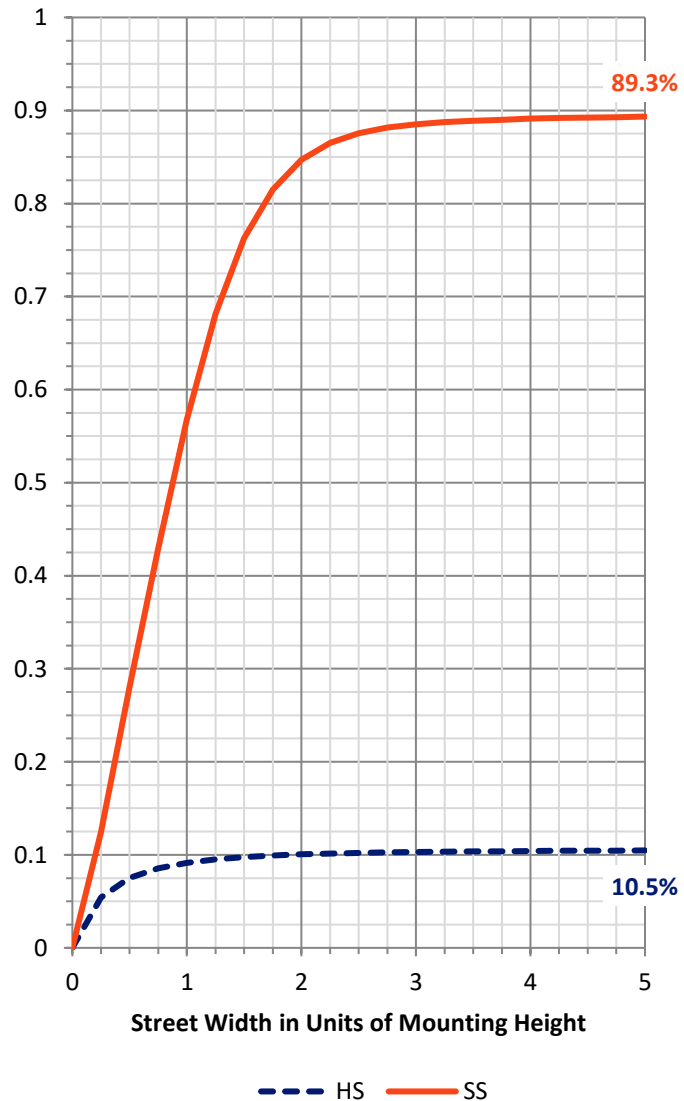
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2561.3	0.0	2561.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	21653.7	0.0	21653.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	24215.0	0.0	24215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	1.3
10°-20°	1030.9	4.3
20°-30°	1865.3	7.7
30°-40°	2916.8	12.0
40°-50°	4424.8	18.3
50°-60°	5621.8	23.2
60°-70°	5253.0	21.7
70°-80°	2610.7	10.8
80°-90°	175.4	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°	24215.0	100.0
0°-180°	24215.0	100.0

Coefficient of Utilization



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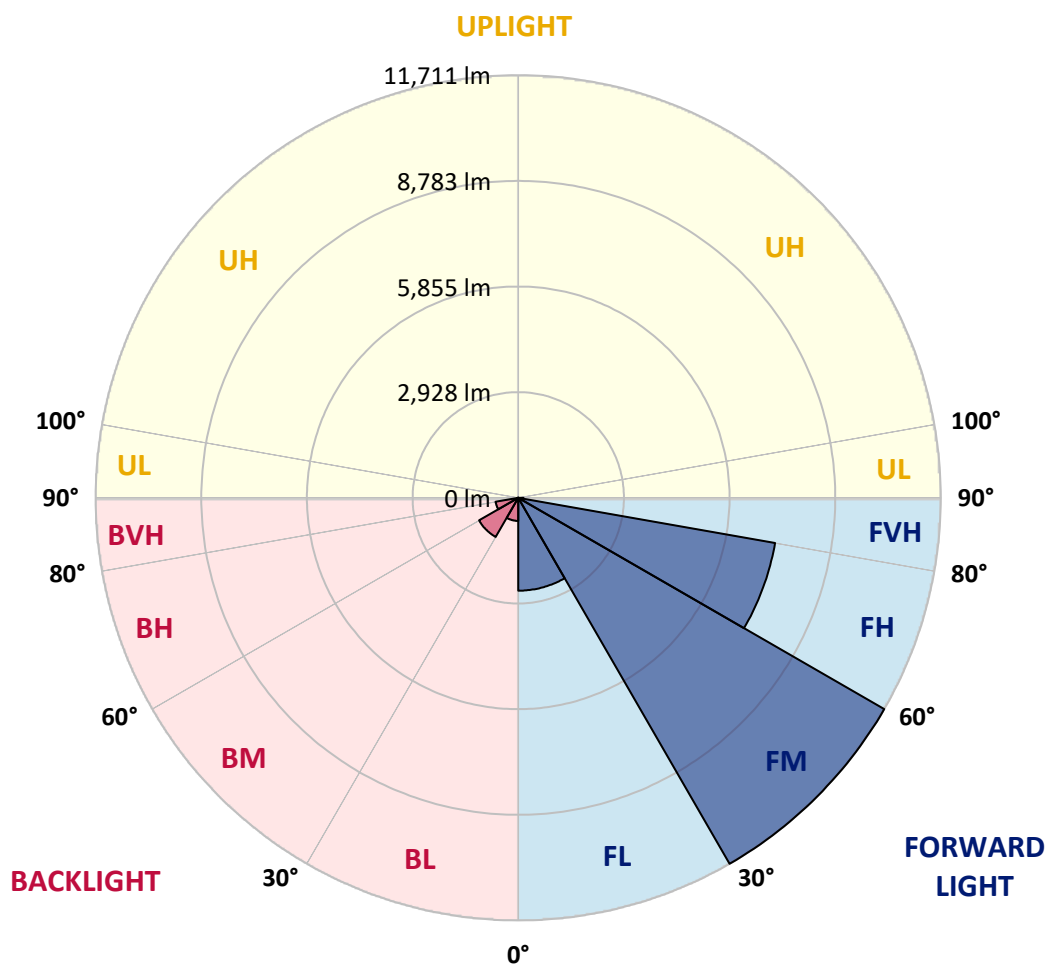
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2572.8	10.6			
FM	(30°-60°)	11710.6	48.4			
FH	(60°-80°)	7225.9	29.8			G3/7500
FVH	(80°-90°)	144.4	0.6			G2/225
BL	(0°-30°)	639.7	2.6	B2/1000		
BM	(30°-60°)	1252.7	5.2	B2/2500		
BH	(60°-80°)	637.8	2.6	B2/1000		G2/1000
BVH	(80°-90°)	31.0	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°	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7
2.5°	3743.1	3773.5	3788.8	3793.9	3677.1	3626.3	3575.5	3458.7	3433.3	3367.2	3280.9
5°	4403.3	4443.9	4433.8	4413.5	4271.3	4108.7	3976.7	3758.3	3722.8	3565.3	3372.3
7.5°	5053.4	5089.0	5078.8	5002.6	4845.2	4616.6	4398.2	4078.3	4027.5	3773.5	3463.7
10°	5596.8	5627.3	5622.2	5546.0	5358.1	5078.8	4814.7	4388.1	4327.1	3966.5	3539.9
12.5°	6043.8	6084.4	6079.3	6028.5	5860.9	5556.2	5256.6	4743.6	4667.4	4200.2	3646.6
15°	6394.2	6445.0	6445.0	6424.7	6307.9	6053.9	5713.6	5134.7	5043.2	4469.3	3778.6
17.5°	6607.5	6648.1	6683.7	6719.3	6638.0	6445.0	6135.2	5525.7	5429.2	4733.4	3915.8
20°	6719.3	6759.9	6785.3	6861.5	6876.7	6780.2	6536.4	5911.7	5810.1	5033.1	4073.2
22.5°	6902.1	6937.6	6942.7	7008.7	7039.2	7064.6	6912.2	6292.6	6211.4	5363.2	4251.0
25°	7206.8	7247.4	7232.2	7262.7	7267.8	7298.2	7283.0	6729.4	6648.1	5739.0	4464.3
27.5°	7597.9	7648.7	7638.5	7608.0	7562.3	7536.9	7603.0	7171.3	7095.1	6114.9	4682.7
30°	8019.4	8080.4	8065.1	8004.2	7882.3	7775.6	7867.1	7587.7	7516.6	6500.9	4926.4
32.5°	8446.0	8517.1	8512.1	8410.5	8202.3	8019.4	8156.6	7978.8	7928.0	6917.3	5190.5
35°	8725.4	8816.8	8806.6	8745.7	8476.5	8319.1	8486.7	8380.0	8344.5	7425.2	5571.4
37.5°	9177.4	9273.9	9187.5	9035.2	8725.4	8644.1	8847.3	8832.0	8806.6	7963.6	5972.7
40°	10274.4	10416.6	10188.1	9563.4	9055.5	8984.4	9273.9	9334.8	9309.4	8496.8	6333.3
42.5°	11422.2	11635.5	11280.0	10416.6	9654.8	9395.8	9741.1	9827.5	9797.0	8953.9	6658.3
45°	12118.0	12209.4	11853.9	11183.5	10716.3	9893.5	10238.9	10381.1	10355.7	9502.4	7074.8
47.5°	12686.8	12651.3	12245.0	11793.0	11879.3	10594.4	10802.6	11081.9	11061.6	10106.8	7531.9
50°	12808.7	12727.5	12564.9	12280.5	12509.1	11305.4	11396.8	11879.3	11859.0	10777.2	7994.0
52.5°	11950.4	11843.8	12285.6	12524.3	12448.1	11823.4	12052.0	12752.9	12742.7	11503.5	8435.9
55°	9807.2	9720.8	10909.3	12143.4	12382.1	12189.1	12778.3	13662.0	13717.8	12275.5	8837.1
57.5°	7714.7	7623.3	8791.4	11188.6	12138.3	12524.3	13626.4	14703.1	14774.2	13113.5	9218.0
60°	6150.4	6013.3	6907.2	9685.3	11681.2	12783.3	14444.1	15845.9	15856.0	13880.4	9451.6
62.5°	4179.9	4027.5	5017.9	7780.7	10914.3	12824.0	15073.9	16831.1	16871.8	14454.3	9492.3
65°	2539.4	2412.4	3082.8	5683.2	9781.8	12478.6	15084.0	17557.4	17593.0	14718.4	9248.5
67.5°	1472.9	1422.1	1762.3	3539.9	7902.6	11549.2	14449.2	17445.7	17511.7	14606.6	8694.9
70°	858.3	853.2	980.2	1752.2	5576.5	9705.6	13032.2	16506.1	16602.6	14022.6	7846.7
72.5°	629.8	639.9	690.7	939.6	3230.1	6988.4	11036.2	14616.8	14764.1	12879.8	6638.0
75°	497.7	502.8	548.5	639.9	1696.3	3951.3	8268.3	11732.0	11848.8	10843.2	5185.5
77.5°	370.8	380.9	416.5	452.0	787.2	1813.1	4652.2	7227.1	7034.1	5952.4	2503.8
80°	269.2	294.6	309.8	325.0	416.5	700.9	1396.7	2519.1	2498.8	2600.3	1183.4
82.5°	172.7	193.0	208.2	218.4	248.9	335.2	416.5	563.7	609.5	1010.7	472.3
85°	76.2	86.3	96.5	116.8	106.7	116.8	172.7	111.7	96.5	152.4	86.3
87.5°	0.0	0.0	15.2	25.4	20.3	10.2	30.5	20.3	15.2	15.2	15.2
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°	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7
2.5°	3235.2	3179.3	3062.5	2950.8	2884.8	2798.4	2722.2	2651.1	2646.1	2625.7	2590.2
5°	3275.8	3169.2	2950.8	2742.6	2585.1	2417.5	2275.3	2163.6	2122.9	2092.5	2051.8
7.5°	3316.5	3148.9	2823.8	2519.1	2270.2	2036.6	1869.0	1716.6	1670.9	1630.3	1604.9
10°	3331.7	3113.3	2676.5	2270.2	1945.2	1696.3	1518.6	1406.8	1366.2	1345.9	1330.6
12.5°	3377.4	3093.0	2539.4	2036.6	1660.8	1432.2	1305.3	1239.2	1224.0	1208.8	1193.5
15°	3438.3	3093.0	2402.3	1808.1	1437.3	1254.5	1178.3	1132.6	1122.4	1117.3	1107.2
17.5°	3504.4	3093.0	2270.2	1615.1	1274.8	1137.7	1081.8	1056.4	1051.3	1046.2	1041.2
20°	3595.8	3098.1	2128.0	1447.5	1158.0	1051.3	1005.6	975.1	970.1	965.0	965.0
22.5°	3687.2	3108.2	1990.9	1320.5	1081.8	985.3	929.4	898.9	888.8	888.8	888.8
25°	3804.0	3138.7	1863.9	1213.8	1015.8	924.3	853.2	827.8	822.8	822.8	817.7
27.5°	3941.1	3174.2	1752.2	1132.6	949.7	853.2	782.1	756.7	746.6	746.6	741.5
30°	4088.4	3209.8	1660.8	1071.6	883.7	782.1	716.1	685.6	675.5	680.6	675.5
32.5°	4251.0	3260.6	1589.7	1031.0	822.8	721.2	660.2	624.7	619.6	619.6	614.5
35°	4525.2	3402.8	1579.5	1010.7	772.0	675.5	614.5	579.0	573.9	573.9	568.8
37.5°	4819.8	3565.3	1625.2	1000.5	731.3	634.8	579.0	543.4	538.4	538.4	538.4
40°	5068.6	3687.2	1676.0	1000.5	706.0	599.3	548.5	518.0	518.0	518.0	518.0
42.5°	5236.2	3697.4	1665.8	1000.5	685.6	573.9	528.2	497.7	497.7	502.8	497.7
45°	5485.1	3748.2	1625.2	985.3	670.4	553.6	507.9	482.5	477.4	482.5	482.5
47.5°	5779.7	3839.6	1584.6	924.3	665.3	533.3	492.6	462.2	457.1	462.2	457.1
50°	6059.0	3920.8	1564.3	843.1	655.2	513.0	472.3	441.9	436.8	441.9	436.8
52.5°	6292.6	3956.4	1528.7	787.2	629.8	492.6	452.0	421.5	411.4	416.5	416.5
55°	6480.5	3946.2	1477.9	741.5	584.1	472.3	426.6	401.2	386.0	386.0	380.9
57.5°	6653.2	3951.3	1432.2	695.8	533.3	441.9	406.3	375.8	355.5	350.4	345.4
60°	6719.3	3925.9	1351.0	634.8	482.5	416.5	380.9	345.4	325.0	320.0	314.9
62.5°	6627.8	3834.5	1244.3	528.2	436.8	386.0	355.5	320.0	299.6	294.6	289.5
65°	6368.8	3661.8	1081.8	416.5	396.1	350.4	325.0	299.6	274.3	264.1	259.0
67.5°	5927.0	3413.0	878.6	335.2	350.4	320.0	304.7	274.3	243.8	233.6	228.5
70°	5297.2	3082.8	660.2	284.4	309.8	284.4	274.3	243.8	218.4	208.2	203.2
72.5°	4413.5	2549.6	462.2	243.8	269.2	248.9	238.7	218.4	193.0	177.8	177.8
75°	3336.8	1828.4	304.7	208.2	223.5	213.3	198.1	182.8	167.6	157.4	152.4
77.5°	1437.3	711.0	187.9	157.4	182.8	177.8	157.4	147.3	142.2	132.0	132.0
80°	619.6	289.5	116.8	116.8	132.0	127.0	121.9	111.7	111.7	106.7	101.6
82.5°	228.5	116.8	71.1	86.3	96.5	86.3	86.3	86.3	86.3	81.3	81.3
85°	55.9	35.6	35.6	50.8	55.9	50.8	55.9	50.8	50.8	50.8	45.7
87.5°	15.2	15.2	20.3	20.3	20.3	20.3	20.3	15.2	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)