

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: P841052

Luminaire Tested: **ARCH4-120-750-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841052
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: ARCH4-120-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1000mA 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: 14897 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122
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



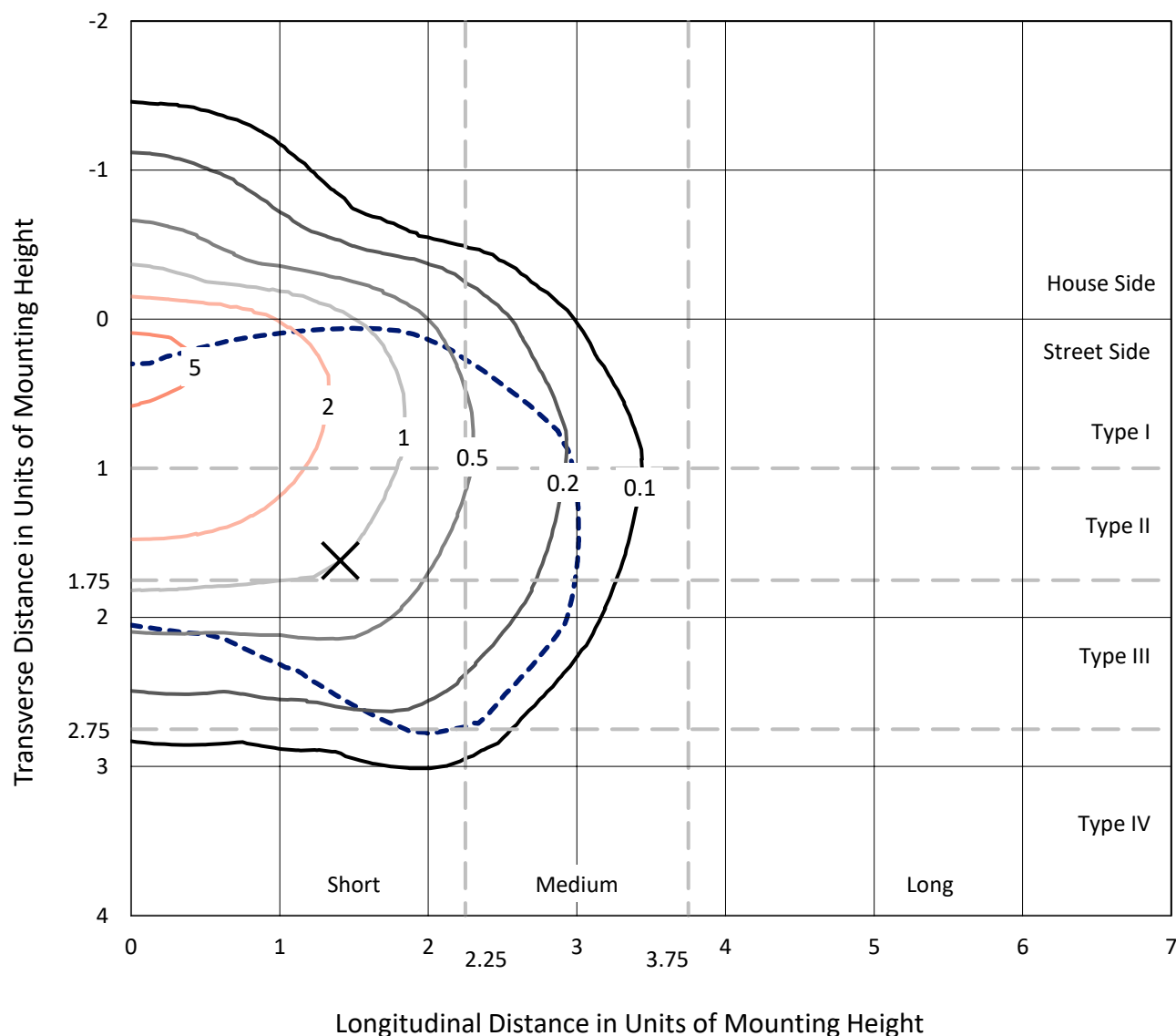
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

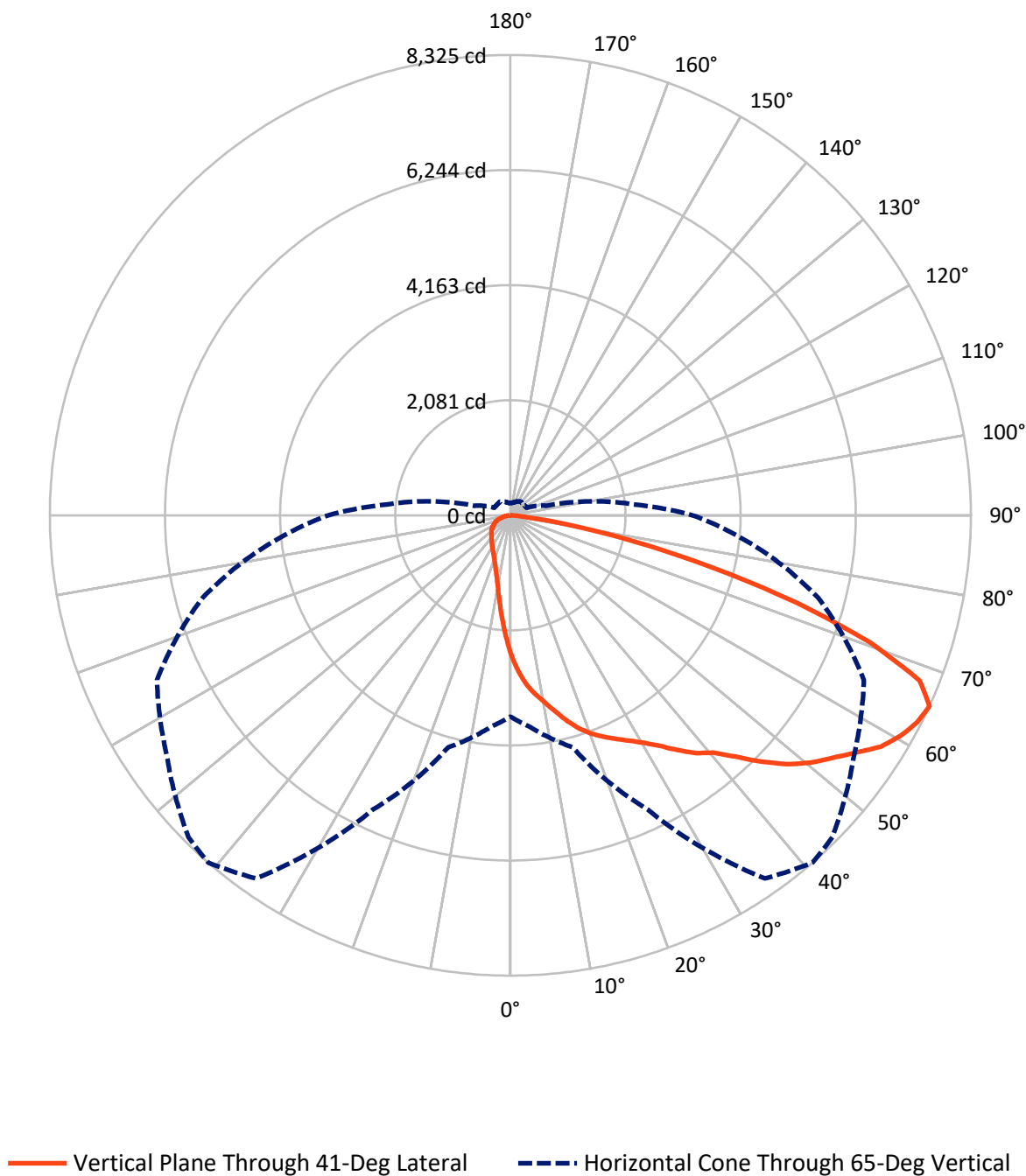


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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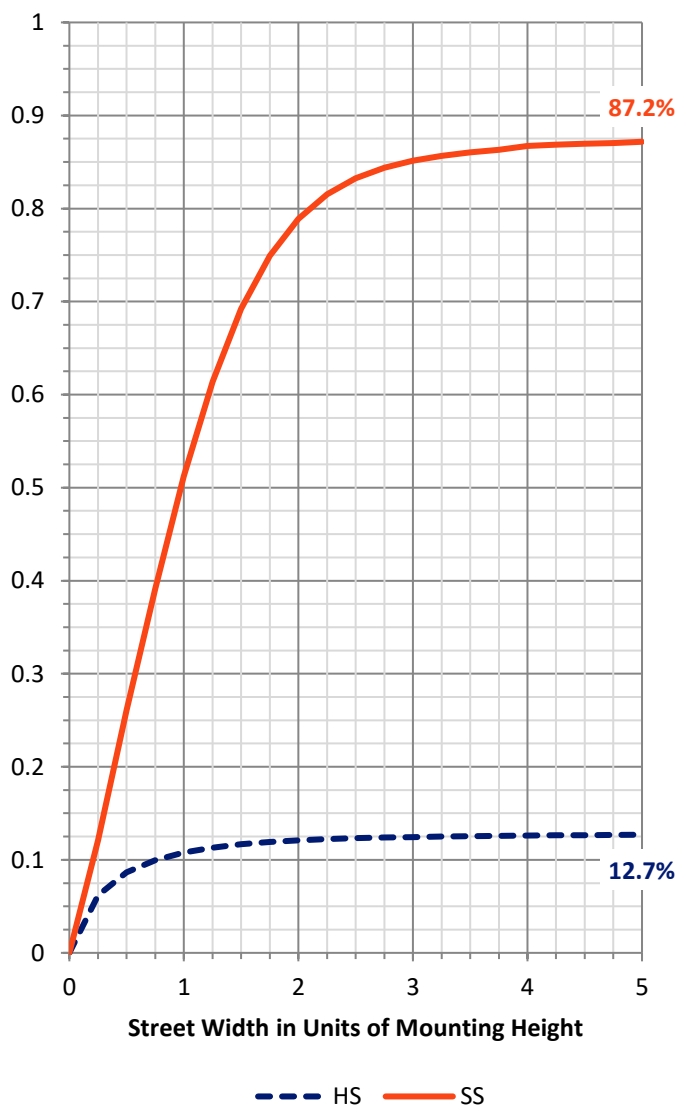
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1912.5	0.0	1912.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12984.5	0.0	12984.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	14897.0	0.0	14897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	1.6
10°-20°	709.2	4.8
20°-30°	1220.1	8.2
30°-40°	1850.4	12.4
40°-50°	2710.9	18.2
50°-60°	3423.3	23.0
60°-70°	3210.0	21.5
70°-80°	1430.7	9.6
80°-90°	106.0	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°	14897.0	100.0
0°-180°	14897.0	100.0

Coefficient of Utilization



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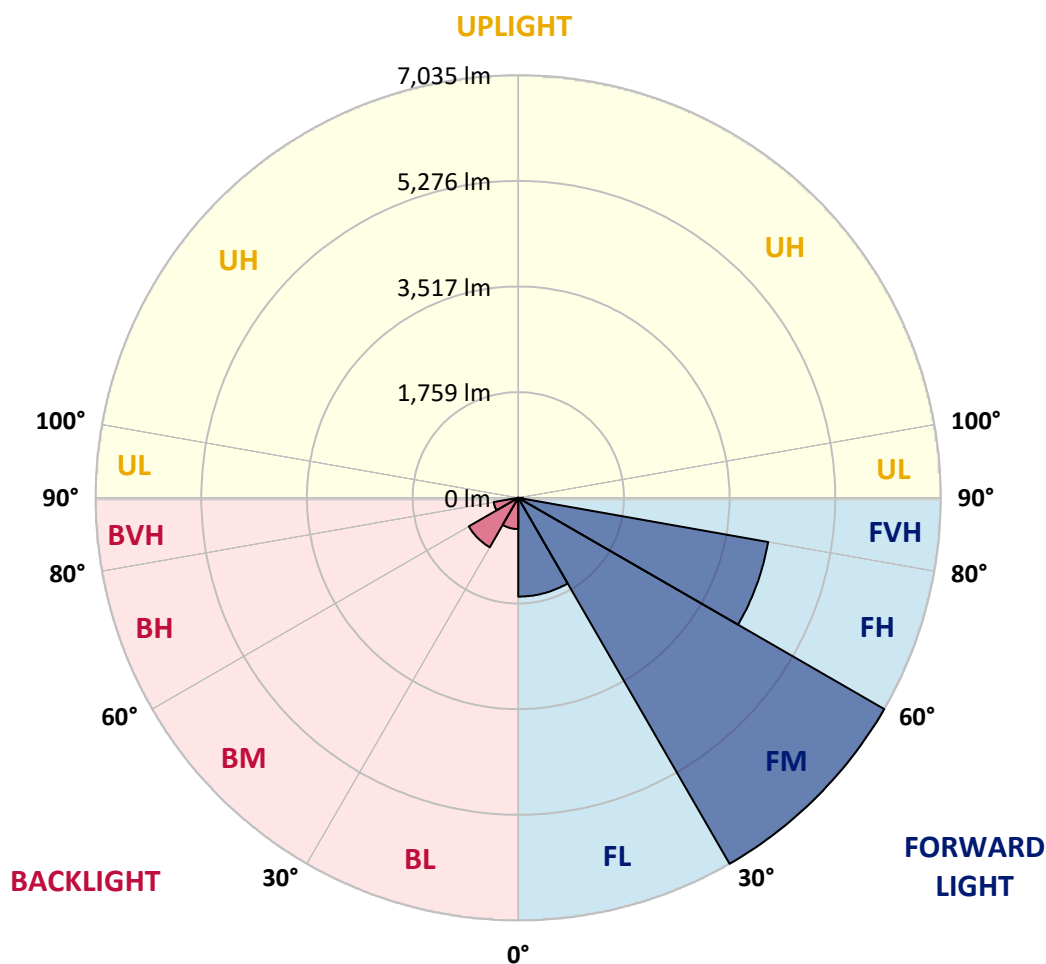
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1645.2	11.0			
FM	(30°-60°)	7034.9	47.2			
FH	(60°-80°)	4225.2	28.4			G2/5000
FVH	(80°-90°)	79.1	0.5			G1/100
BL	(0°-30°)	520.6	3.5	B2/1000		
BM	(30°-60°)	949.7	6.4	B1/1000		
BH	(60°-80°)	415.5	2.8	B1/500		G1/500
BVH	(80°-90°)	26.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2927.9	2918.5	2912.2	2877.7	2877.7	2830.5	2833.7	2789.7	2736.3	2651.5	2560.4
5°	3204.4	3191.8	3176.1	3141.5	3129.0	3081.9	3075.6	3012.7	2921.6	2774.0	2610.6
7.5°	3446.3	3433.7	3411.7	3361.5	3326.9	3270.4	3254.6	3173.0	3072.4	2890.2	2660.9
10°	3666.2	3656.8	3628.5	3565.7	3518.5	3449.4	3421.1	3311.2	3185.5	2984.5	2701.7
12.5°	3889.2	3876.7	3839.0	3785.6	3729.0	3647.3	3612.8	3471.4	3311.2	3088.1	2761.4
15°	4096.6	4077.7	4049.5	3992.9	3942.6	3864.1	3826.4	3659.9	3465.1	3204.4	2840.0
17.5°	4231.7	4216.0	4190.8	4159.4	4118.6	4058.9	4021.2	3857.8	3619.1	3317.5	2921.6
20°	4313.3	4307.1	4297.6	4278.8	4259.9	4219.1	4190.8	4036.9	3785.6	3427.4	3000.2
22.5°	4376.2	4369.9	4366.8	4366.8	4369.9	4354.2	4335.3	4203.4	3945.8	3543.7	3072.4
25°	4473.6	4470.4	4464.1	4457.9	4479.8	4483.0	4476.7	4385.6	4146.8	3697.6	3163.5
27.5°	4608.7	4599.2	4586.7	4580.4	4602.4	4618.1	4630.6	4567.8	4360.5	3854.7	3267.2
30°	4816.0	4787.7	4756.3	4734.3	4750.0	4775.2	4803.4	4765.7	4580.4	4049.5	3374.0
32.5°	5061.0	5026.5	4954.2	4913.4	4954.2	4973.1	4995.1	4976.2	4809.7	4259.9	3480.8
35°	5359.5	5318.6	5243.2	5183.6	5255.8	5215.0	5205.5	5186.7	5026.5	4467.3	3600.2
37.5°	5855.8	5796.2	5676.8	5544.8	5544.8	5456.9	5422.3	5365.8	5221.3	4652.6	3716.5
40°	6430.7	6352.2	6198.3	6003.5	5824.4	5642.2	5620.2	5579.4	5450.6	4866.3	3848.4
42.5°	7062.2	6911.4	6697.8	6462.2	6173.1	5965.8	5915.5	5799.3	5673.6	5083.0	3980.3
45°	7762.8	7448.6	7137.6	7018.2	6540.7	6352.2	6258.0	6047.5	5906.1	5309.2	4118.6
47.5°	7875.9	7630.8	7423.5	7404.6	6883.1	6726.1	6619.2	6317.7	6157.4	5551.1	4263.1
50°	7813.0	7665.4	7687.4	7612.0	7134.5	7030.8	6949.1	6606.7	6405.6	5783.6	4395.0
52.5°	7549.1	7630.8	7756.5	7618.3	7373.2	7288.4	7247.6	6917.7	6638.1	5997.2	4514.4
55°	7235.0	7291.5	7561.7	7731.4	7649.7	7574.3	7536.6	7279.0	6867.4	6176.3	4624.4
57.5°	6776.3	6751.2	7049.6	7712.5	7938.7	7894.7	7853.9	7634.0	7081.0	6305.1	4693.5
60°	6088.3	6034.9	6411.9	7335.5	8032.9	8102.1	8083.2	7869.6	7244.4	6301.9	4665.2
62.5°	4897.7	5029.6	5551.1	6719.8	8073.8	8249.7	8215.1	7888.4	7297.8	6119.7	4486.1
65°	3641.1	3829.5	4341.6	5871.6	8017.2	8325.1	8230.9	7580.6	7049.6	5758.5	4093.4
67.5°	2623.2	2789.7	3163.5	4831.7	7473.7	7979.5	7869.6	7077.9	6477.9	5246.4	3549.9
70°	1793.8	1913.2	2167.7	3518.5	6380.5	6898.8	6829.7	6327.1	5576.2	4636.9	2883.9
72.5°	1266.0	1316.3	1479.7	2321.6	4847.4	5412.9	5331.2	5205.5	4479.8	3854.7	2243.1
75°	948.7	980.2	1068.1	1501.7	3270.4	3751.0	3675.6	3747.9	3345.7	2918.5	1633.6
77.5°	358.1	389.6	606.3	958.2	1935.2	2302.8	2227.4	2271.3	1859.8	1473.4	813.7
80°	97.4	103.7	201.1	455.5	879.6	1146.7	1043.0	895.3	691.1	678.6	430.4
82.5°	40.8	47.1	91.1	245.0	314.2	314.2	263.9	326.7	263.9	317.3	207.3
85°	15.7	18.8	22.0	62.8	40.8	44.0	47.1	62.8	53.4	66.0	47.1
87.5°	0.0	0.0	0.0	3.1	3.1	6.3	3.1	6.3	9.4	9.4	9.4
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°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2522.7	2488.1	2437.8	2356.2	2271.3	2224.2	2164.5	2155.1	2092.3	2086.0	2060.9
5°	2538.4	2466.1	2337.3	2180.2	2026.3	1906.9	1819.0	1771.8	1680.7	1680.7	1655.6
7.5°	2550.9	2437.8	2230.5	1998.0	1787.5	1627.3	1507.9	1457.7	1376.0	1369.7	1350.9
10°	2554.1	2403.3	2114.3	1812.7	1555.1	1391.7	1275.5	1218.9	1146.7	1140.4	1127.8
12.5°	2579.2	2384.4	2010.6	1652.5	1388.6	1212.6	1099.5	1052.4	995.9	989.6	977.0
15°	2620.1	2384.4	1922.6	1517.4	1240.9	1077.6	980.2	936.2	895.3	889.1	882.8
17.5°	2660.9	2378.2	1834.7	1391.7	1118.4	970.7	885.9	851.4	819.9	816.8	810.5
20°	2698.6	2375.0	1746.7	1284.9	1024.1	882.8	816.8	785.4	760.3	760.3	757.1
22.5°	2736.3	2368.7	1661.9	1184.4	942.5	816.8	760.3	725.7	706.8	706.8	703.7
25°	2792.8	2368.7	1583.3	1099.5	876.5	766.5	710.0	684.9	669.1	666.0	666.0
27.5°	2858.8	2387.6	1514.2	1024.1	819.9	716.3	672.3	647.2	628.3	622.0	625.2
30°	2931.1	2403.3	1451.4	958.2	766.5	678.6	631.5	606.3	587.5	581.2	584.3
32.5°	3003.3	2422.1	1394.8	898.5	713.1	644.0	596.9	568.6	549.8	546.6	546.6
35°	3081.9	2441.0	1338.3	848.2	669.1	609.5	565.5	534.1	521.5	515.2	518.4
37.5°	3160.4	2472.4	1284.9	801.1	637.7	578.0	537.2	505.8	496.4	493.2	493.2
40°	3254.6	2519.5	1262.9	769.7	609.5	549.8	515.2	483.8	474.4	474.4	474.4
42.5°	3333.2	2557.2	1244.1	735.1	587.5	524.6	493.2	468.1	461.8	458.7	461.8
45°	3411.7	2591.8	1218.9	703.7	559.2	499.5	474.4	449.2	443.0	443.0	443.0
47.5°	3490.3	2610.6	1184.4	672.3	534.1	477.5	455.5	433.5	427.3	427.3	427.3
50°	3553.1	2626.3	1134.1	637.7	505.8	458.7	436.7	414.7	408.4	408.4	408.4
52.5°	3615.9	2629.5	1080.7	596.9	477.5	436.7	417.8	395.8	389.6	386.4	386.4
55°	3672.5	2626.3	1017.9	549.8	446.1	411.5	395.8	377.0	364.4	351.9	358.1
57.5°	3713.3	2623.2	945.6	502.6	414.7	386.4	380.1	355.0	329.9	298.4	304.7
60°	3697.6	2588.6	867.1	443.0	380.1	361.3	361.3	326.7	282.7	267.0	270.2
62.5°	3597.1	2491.2	785.4	380.1	345.6	336.1	333.0	295.3	260.7	245.0	248.2
65°	3295.5	2246.2	666.0	323.6	311.0	307.9	307.9	273.3	241.9	223.0	226.2
67.5°	2836.8	1884.9	543.5	273.3	276.5	282.7	282.7	251.3	219.9	201.1	204.2
70°	2274.5	1473.4	433.5	235.6	238.8	248.2	254.5	226.2	197.9	179.1	179.1
72.5°	1712.1	1118.4	348.7	197.9	213.6	213.6	223.0	201.1	172.8	153.9	157.1
75°	1240.9	801.1	276.5	166.5	185.4	182.2	182.2	169.6	147.7	135.1	135.1
77.5°	587.5	421.0	219.9	119.4	144.5	141.4	144.5	135.1	125.7	113.1	116.2
80°	289.0	207.3	141.4	84.8	100.5	103.7	113.1	106.8	103.7	94.2	94.2
82.5°	138.2	81.7	66.0	59.7	69.1	72.3	78.5	78.5	81.7	75.4	75.4
85°	37.7	22.0	28.3	37.7	44.0	47.1	53.4	56.5	56.5	53.4	56.5
87.5°	9.4	9.4	12.6	18.8	22.0	25.1	28.3	28.3	12.6	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)