

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: P841007

Luminaire Tested: **ARCH4-120-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841007
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: ARCH4-120-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 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: 12414 lumens
Efficiency: N/A
Efficacy: 101.8 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): 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



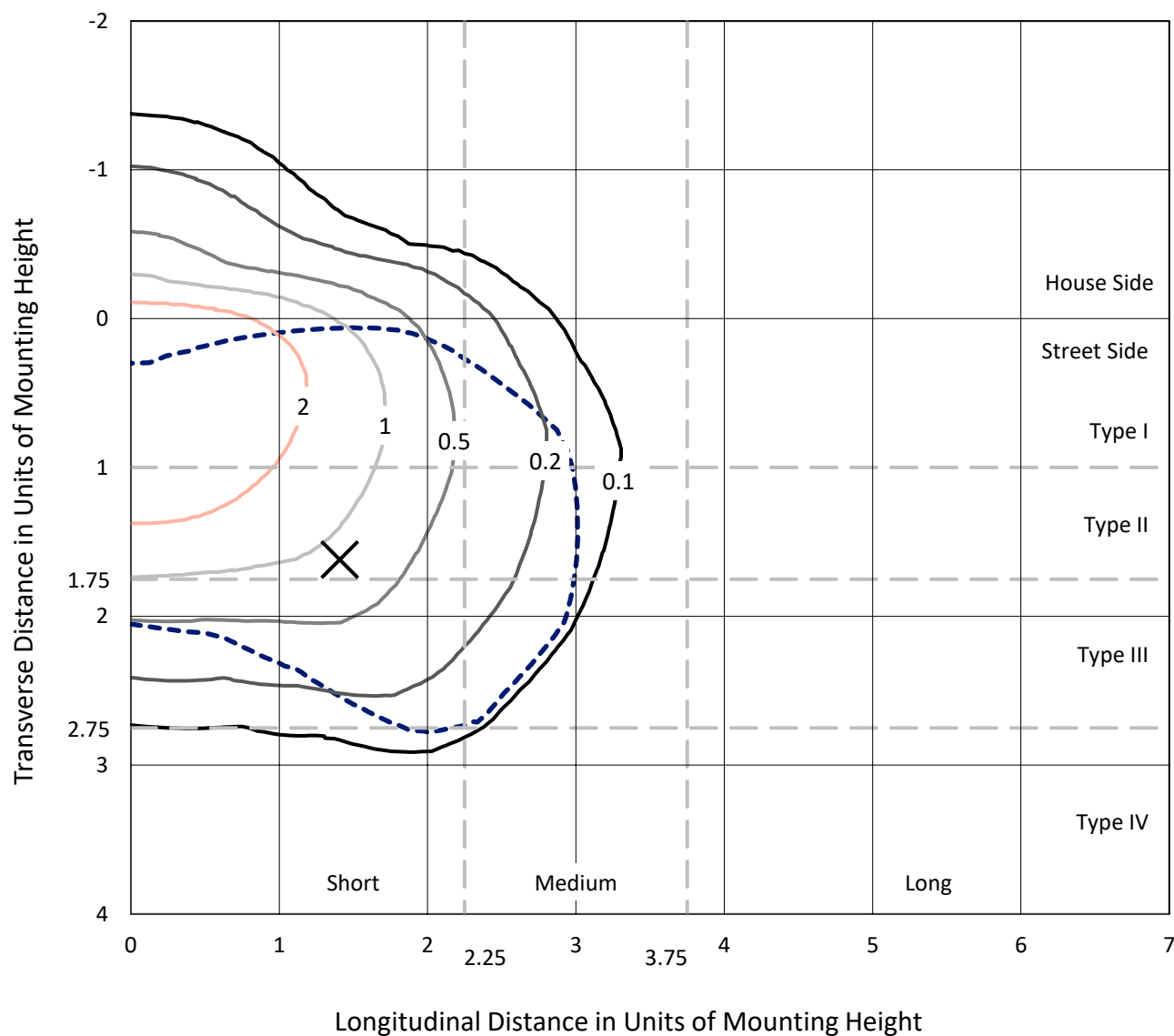
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

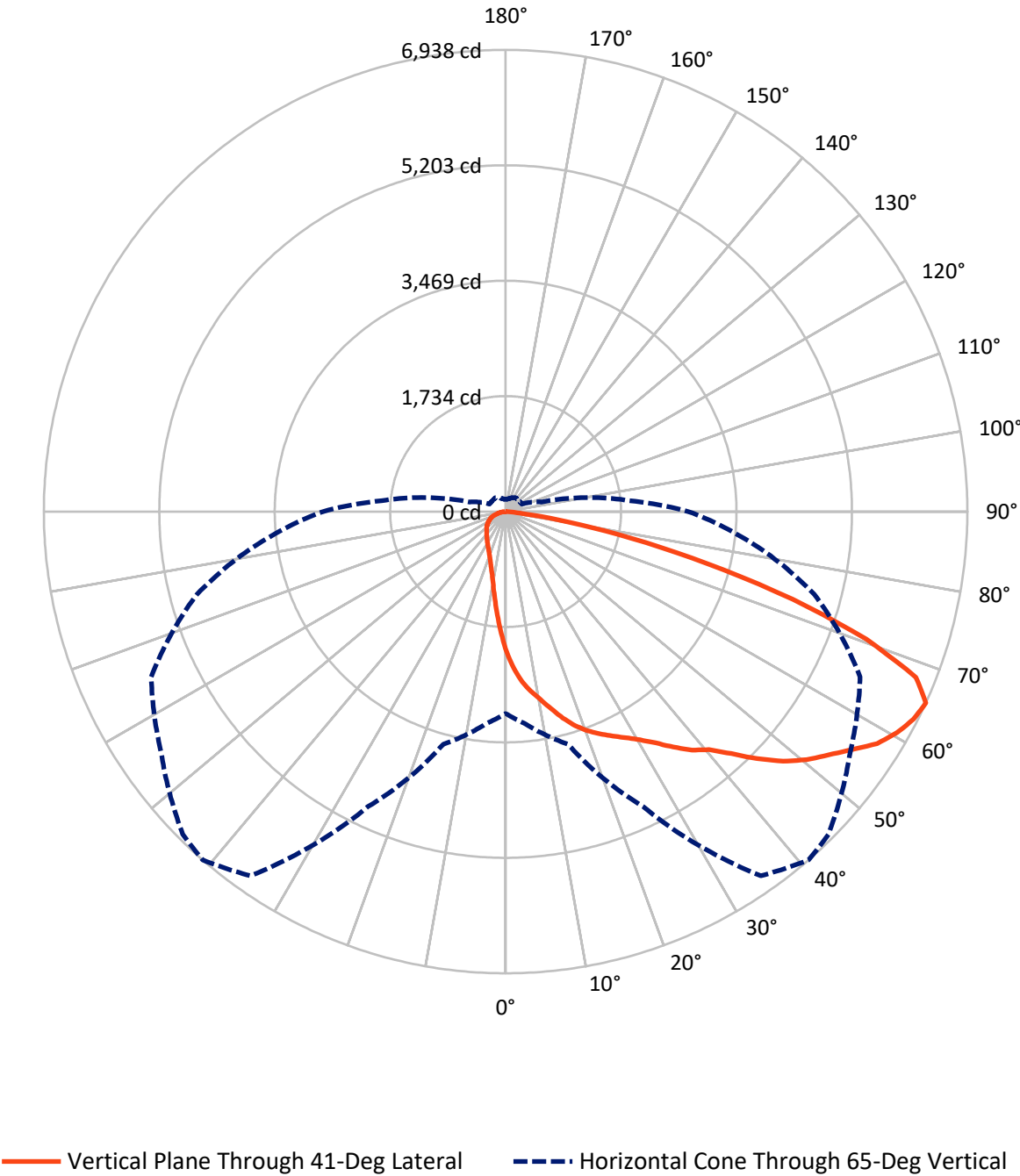


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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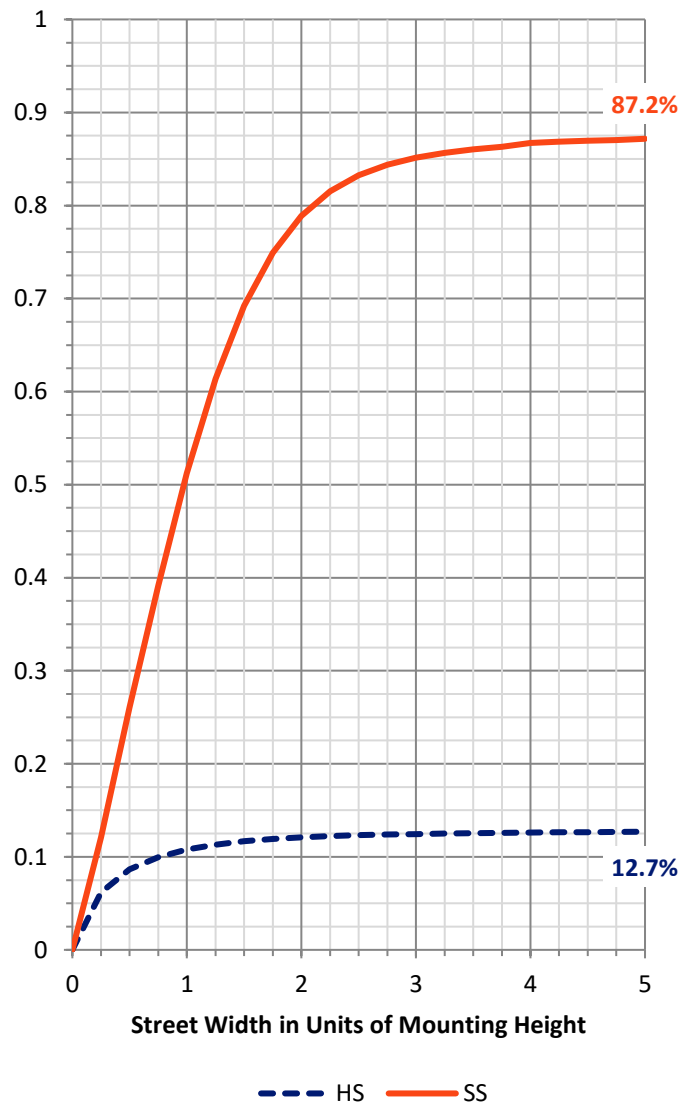
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1593.8	0.0	1593.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10820.2	0.0	10820.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	12414.0	0.0	12414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	1.6
10°-20°	591.0	4.8
20°-30°	1016.7	8.2
30°-40°	1542.0	12.4
40°-50°	2259.1	18.2
50°-60°	2852.7	23.0
60°-70°	2674.9	21.5
70°-80°	1192.2	9.6
80°-90°	88.3	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°	12414.0	100.0
0°-180°	12414.0	100.0

Coefficient of Utilization



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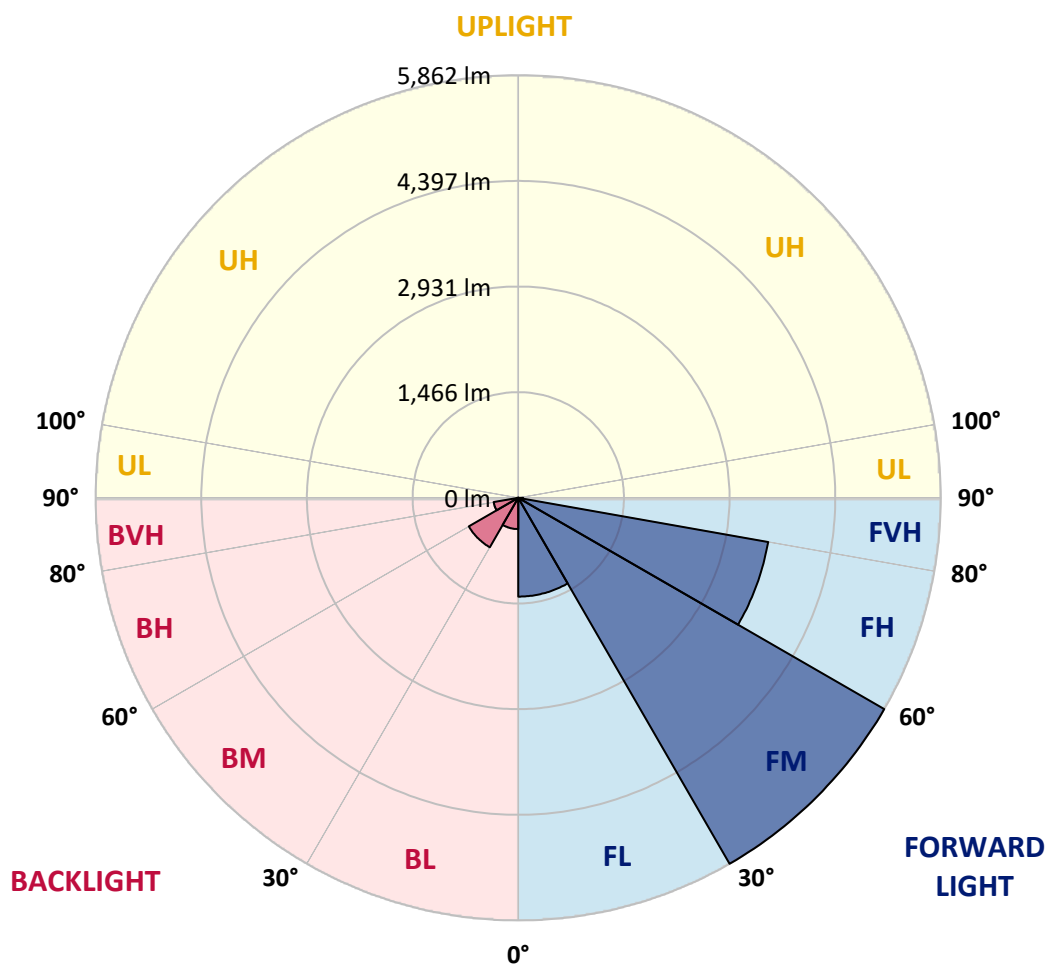
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1371.0	11.0			
FM	(30°-60°)	5862.4	47.2			
FH	(60°-80°)	3520.9	28.4			G2/5000
FVH	(80°-90°)	66.0	0.5			G1/100
BL	(0°-30°)	433.8	3.5	B1/500		
BM	(30°-60°)	791.4	6.4	B1/1000		
BH	(60°-80°)	346.2	2.8	B1/500		G1/500
BVH	(80°-90°)	22.4	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°	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3
2.5°	2439.9	2432.0	2426.8	2398.0	2398.0	2358.7	2361.4	2324.7	2280.2	2209.5	2133.6
5°	2670.3	2659.8	2646.7	2617.9	2607.4	2568.2	2562.9	2510.6	2434.7	2311.6	2175.5
7.5°	2871.9	2861.4	2843.1	2801.2	2772.4	2725.3	2712.2	2644.1	2560.3	2408.5	2217.4
10°	3055.1	3047.3	3023.7	2971.3	2932.1	2874.5	2850.9	2759.3	2654.6	2487.0	2251.4
12.5°	3241.0	3230.5	3199.1	3154.6	3107.5	3039.4	3010.6	2892.8	2759.3	2573.4	2301.2
15°	3413.8	3398.1	3374.5	3327.4	3285.5	3220.0	3188.6	3049.9	2887.6	2670.3	2366.6
17.5°	3526.3	3513.3	3492.3	3466.1	3432.1	3382.4	3350.9	3214.8	3015.8	2764.5	2434.7
20°	3594.4	3589.2	3581.3	3565.6	3549.9	3515.9	3492.3	3364.0	3154.6	2856.2	2500.1
22.5°	3646.8	3641.5	3638.9	3638.9	3641.5	3628.4	3612.7	3502.8	3288.1	2953.0	2560.3
25°	3727.9	3725.3	3720.1	3714.8	3733.2	3735.8	3730.5	3654.6	3455.7	3081.3	2636.2
27.5°	3840.5	3832.6	3822.2	3816.9	3835.3	3848.3	3858.8	3806.5	3633.7	3212.2	2722.6
30°	4013.3	3989.7	3963.5	3945.2	3958.3	3979.2	4002.8	3971.4	3816.9	3374.5	2811.6
32.5°	4217.5	4188.7	4128.5	4094.4	4128.5	4144.2	4162.5	4146.8	4008.0	3549.9	2900.7
35°	4466.2	4432.1	4369.3	4319.6	4379.8	4345.7	4337.9	4322.2	4188.7	3722.7	3000.1
37.5°	4879.8	4830.1	4730.6	4620.6	4620.6	4547.3	4518.5	4471.4	4351.0	3877.1	3097.0
40°	5358.9	5293.4	5165.2	5002.8	4853.6	4701.8	4683.5	4649.4	4542.1	4055.2	3207.0
42.5°	5885.1	5759.4	5581.4	5385.1	5144.2	4971.4	4929.5	4832.7	4728.0	4235.8	3316.9
45°	6468.9	6207.1	5947.9	5848.4	5450.5	5293.4	5214.9	5039.5	4921.7	4424.3	3432.1
47.5°	6563.1	6358.9	6186.1	6170.4	5735.9	5605.0	5516.0	5264.6	5131.1	4625.9	3552.5
50°	6510.8	6387.7	6406.1	6343.2	5945.3	5858.9	5790.8	5505.5	5337.9	4819.6	3662.5
52.5°	6290.9	6358.9	6463.6	6348.5	6144.3	6073.6	6039.5	5764.7	5531.7	4997.6	3762.0
55°	6029.1	6076.2	6301.3	6442.7	6374.6	6311.8	6280.4	6065.7	5722.8	5146.8	3853.6
57.5°	5646.9	5625.9	5874.6	6427.0	6615.5	6578.8	6544.8	6361.5	5900.8	5254.2	3911.2
60°	5073.5	5029.0	5343.2	6112.8	6694.0	6751.6	6735.9	6557.9	6036.9	5251.6	3887.6
62.5°	4081.3	4191.3	4625.9	5599.7	6728.1	6874.7	6845.9	6573.6	6081.4	5099.7	3738.4
65°	3034.2	3191.2	3618.0	4892.9	6680.9	6937.5	6859.0	6317.0	5874.6	4798.7	3411.2
67.5°	2186.0	2324.7	2636.2	4026.4	6228.0	6649.5	6557.9	5898.2	5398.2	4371.9	2958.3
70°	1494.8	1594.3	1806.4	2932.1	5317.0	5749.0	5691.4	5272.5	4646.8	3864.1	2403.3
72.5°	1055.0	1096.9	1233.0	1934.6	4039.5	4510.7	4442.6	4337.9	3733.2	3212.2	1869.2
75°	790.6	816.8	890.1	1251.4	2725.3	3125.8	3063.0	3123.2	2788.1	2432.0	1361.3
77.5°	298.4	324.6	505.3	798.5	1612.6	1918.9	1856.1	1892.8	1549.8	1227.8	678.0
80°	81.2	86.4	167.5	379.6	733.0	955.5	869.1	746.1	575.9	565.5	358.7
82.5°	34.0	39.3	75.9	204.2	261.8	261.8	219.9	272.3	219.9	264.4	172.8
85°	13.1	15.7	18.3	52.4	34.0	36.7	39.3	52.4	44.5	55.0	39.3
87.5°	0.0	0.0	0.0	2.6	2.6	5.2	2.6	5.2	7.9	7.9	7.9
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°	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3
2.5°	2102.2	2073.4	2031.5	1963.4	1892.8	1853.5	1803.7	1795.9	1743.5	1738.3	1717.4
5°	2115.3	2055.1	1947.7	1816.8	1688.6	1589.1	1515.8	1476.5	1400.6	1400.6	1379.6
7.5°	2125.8	2031.5	1858.7	1665.0	1489.6	1356.1	1256.6	1214.7	1146.6	1141.4	1125.7
10°	2128.4	2002.7	1761.9	1510.5	1295.9	1159.7	1062.9	1015.8	955.5	950.3	939.8
12.5°	2149.3	1987.0	1675.5	1377.0	1157.1	1010.5	916.3	877.0	829.9	824.6	814.2
15°	2183.3	1987.0	1602.2	1264.5	1034.1	897.9	816.8	780.1	746.1	740.9	735.6
17.5°	2217.4	1981.8	1528.9	1159.7	932.0	808.9	738.3	709.5	683.3	680.7	675.4
20°	2248.8	1979.1	1455.6	1070.7	853.4	735.6	680.7	654.5	633.5	633.5	630.9
22.5°	2280.2	1973.9	1384.9	987.0	785.4	680.7	633.5	604.7	589.0	589.0	586.4
25°	2327.3	1973.9	1319.4	916.3	730.4	638.8	591.7	570.7	557.6	555.0	555.0
27.5°	2382.3	1989.6	1261.8	853.4	683.3	596.9	560.2	539.3	523.6	518.3	521.0
30°	2442.5	2002.7	1209.5	798.5	638.8	565.5	526.2	505.3	489.6	484.3	486.9
32.5°	2502.7	2018.4	1162.4	748.7	594.3	536.7	497.4	473.8	458.1	455.5	455.5
35°	2568.2	2034.1	1115.2	706.8	557.6	507.9	471.2	445.0	434.6	429.3	432.0
37.5°	2633.6	2060.3	1070.7	667.6	531.4	481.7	447.7	421.5	413.6	411.0	411.0
40°	2712.2	2099.6	1052.4	641.4	507.9	458.1	429.3	403.2	395.3	395.3	395.3
42.5°	2777.6	2131.0	1036.7	612.6	489.6	437.2	411.0	390.1	384.8	382.2	384.8
45°	2843.1	2159.8	1015.8	586.4	466.0	416.2	395.3	374.4	369.1	369.1	369.1
47.5°	2908.5	2175.5	987.0	560.2	445.0	397.9	379.6	361.3	356.0	356.0	356.0
50°	2960.9	2188.6	945.1	531.4	421.5	382.2	363.9	345.6	340.3	340.3	340.3
52.5°	3013.2	2191.2	900.6	497.4	397.9	363.9	348.2	329.9	324.6	322.0	322.0
55°	3060.4	2188.6	848.2	458.1	371.7	342.9	329.9	314.2	303.7	293.2	298.4
57.5°	3094.4	2186.0	788.0	418.9	345.6	322.0	316.8	295.8	274.9	248.7	253.9
60°	3081.3	2157.2	722.5	369.1	316.8	301.1	301.1	272.3	235.6	222.5	225.1
62.5°	2997.5	2076.0	654.5	316.8	288.0	280.1	277.5	246.1	217.3	204.2	206.8
65°	2746.2	1871.8	555.0	269.6	259.2	256.6	256.6	227.8	201.6	185.9	188.5
67.5°	2364.0	1570.8	452.9	227.8	230.4	235.6	235.6	209.4	183.3	167.5	170.2
70°	1895.4	1227.8	361.3	196.3	199.0	206.8	212.1	188.5	164.9	149.2	149.2
72.5°	1426.8	932.0	290.6	164.9	178.0	178.0	185.9	167.5	144.0	128.3	130.9
75°	1034.1	667.6	230.4	138.7	154.5	151.8	151.8	141.4	123.0	112.6	112.6
77.5°	489.6	350.8	183.3	99.5	120.4	117.8	120.4	112.6	104.7	94.2	96.9
80°	240.8	172.8	117.8	70.7	83.8	86.4	94.2	89.0	86.4	78.5	78.5
82.5°	115.2	68.1	55.0	49.7	57.6	60.2	65.4	65.4	68.1	62.8	62.8
85°	31.4	18.3	23.6	31.4	36.7	39.3	44.5	47.1	47.1	44.5	47.1
87.5°	7.9	7.9	10.5	15.7	18.3	20.9	23.6	23.6	10.5	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)