

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: P559822

Luminaire Tested: **SDL-PA1-100-727-U-T4W-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-10)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-727-U-T4W-HSS
Description: Springdale
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6250.8 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.8
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

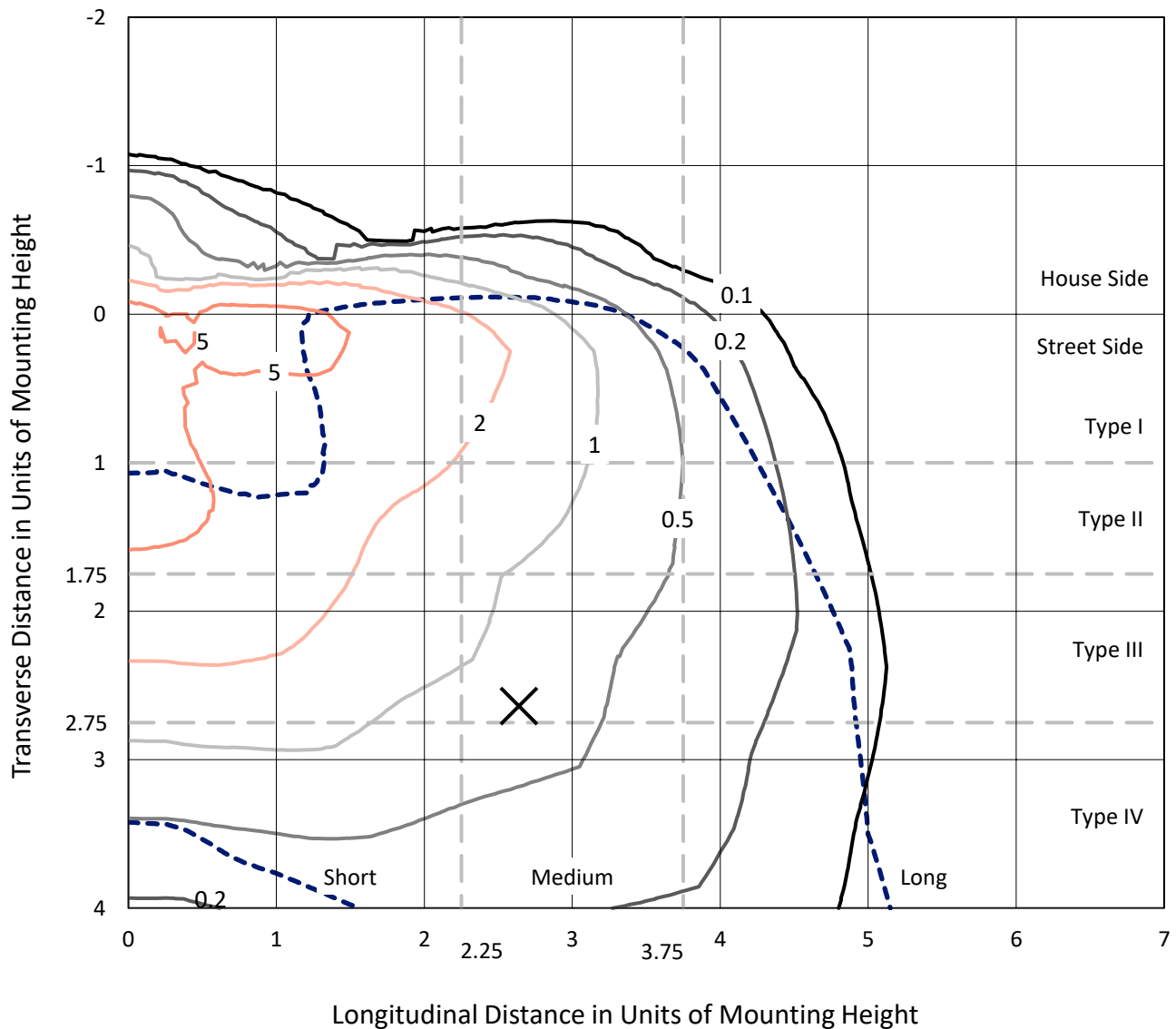


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

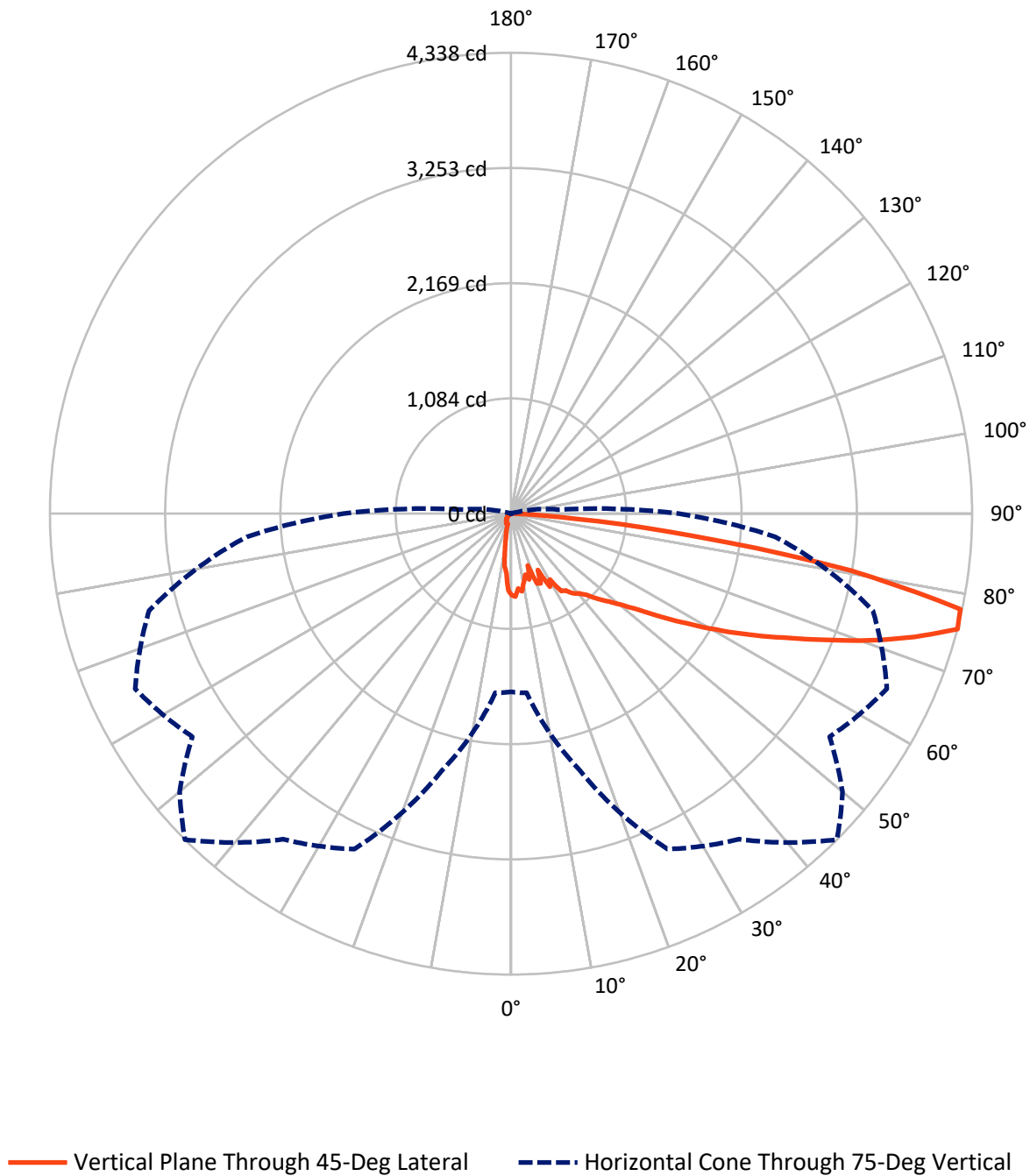


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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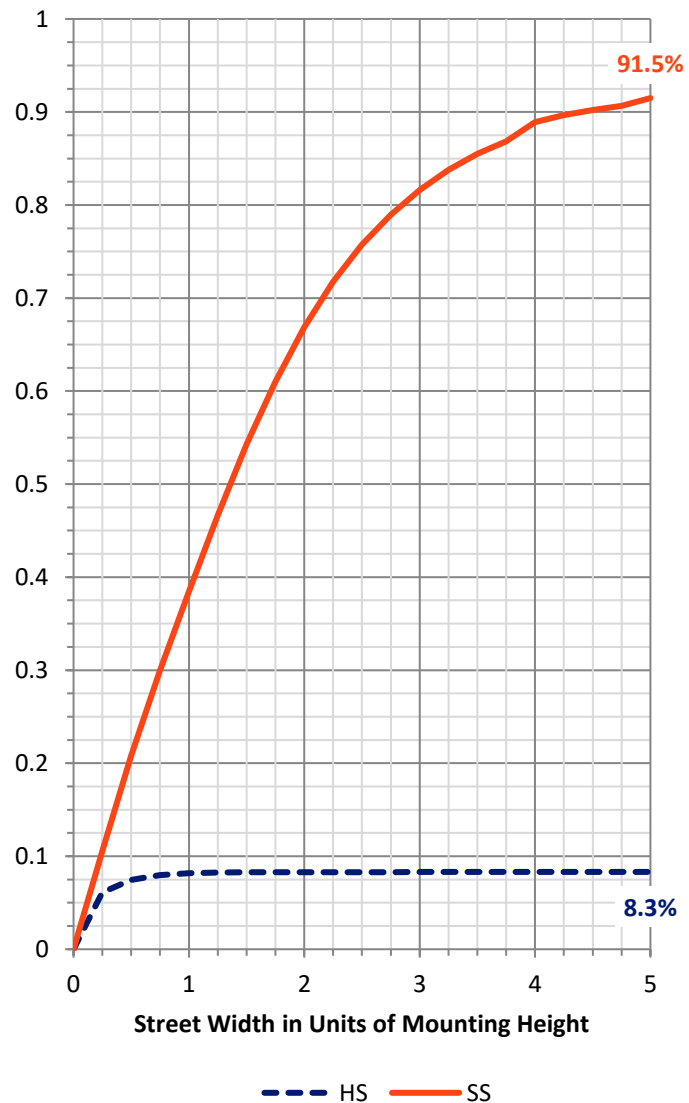
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	524.8	0.0	524.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5726.0	0.0	5726.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	6250.8	0.0	6250.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	1.0
10°-20°	130.8	2.1
20°-30°	221.2	3.5
30°-40°	407.4	6.5
40°-50°	668.6	10.7
50°-60°	1190.1	19.0
60°-70°	1780.6	28.5
70°-80°	1585.3	25.4
80°-90°	207.1	3.3
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°	6250.8	100.0
0°-180°	6250.8	100.0

Coefficient of Utilization



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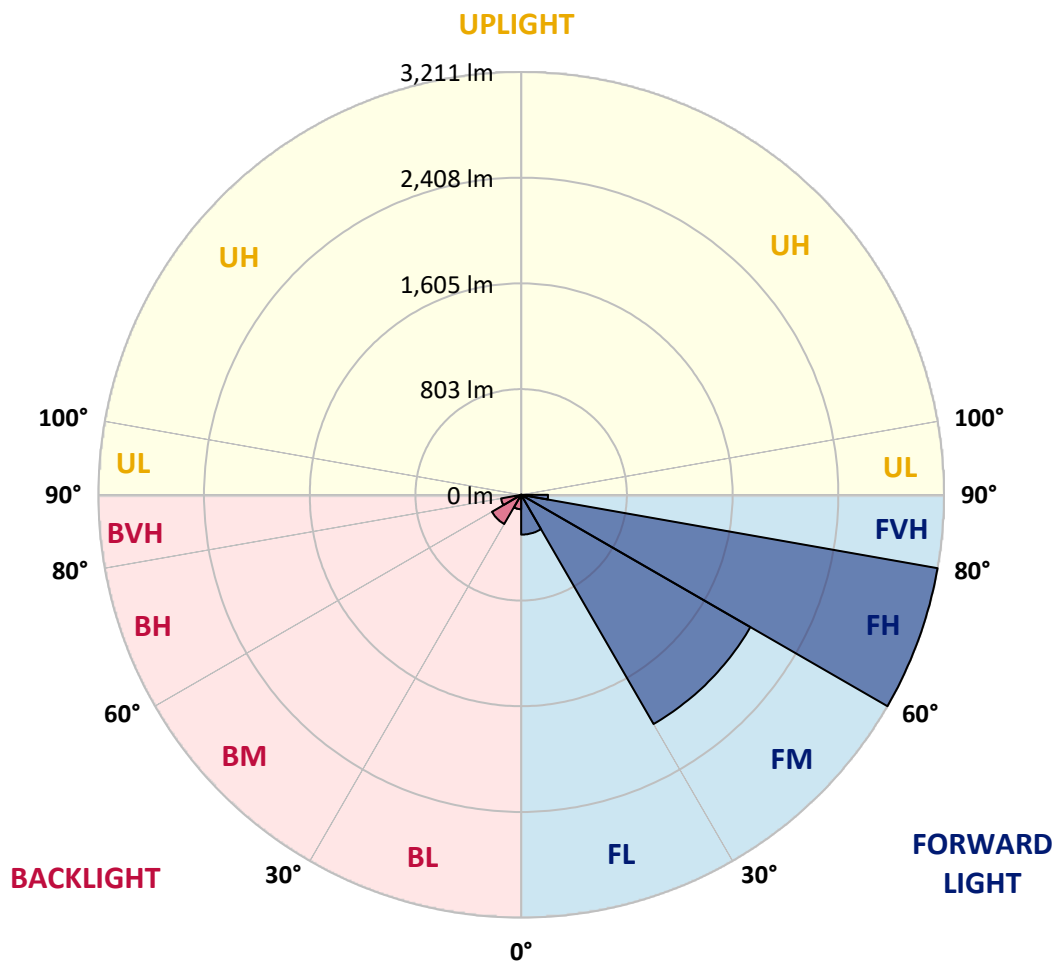
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.1	4.8			
FM	(30°-60°)	2009.4	32.1			
FH	(60°-80°)	3210.6	51.4			G2/5000
FVH	(80°-90°)	203.9	3.3			G2/225
BL	(0°-30°)	109.5	1.8	B0/110		
BM	(30°-60°)	256.7	4.1	B1/1000		
BH	(60°-80°)	155.4	2.5	B1/500		G1/500
BVH	(80°-90°)	3.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4
2.5°	713.0	766.4	772.7	775.9	782.1	785.3	785.3	785.3	785.3	782.1	782.1
5°	753.9	750.7	747.6	744.4	741.3	735.0	728.7	719.3	713.0	706.8	700.5
7.5°	738.2	741.3	750.7	757.0	753.9	750.7	757.0	760.2	750.7	738.2	725.6
10°	860.7	854.4	848.1	841.8	832.4	823.0	747.6	672.2	665.9	656.5	650.2
12.5°	753.9	848.1	848.1	848.1	848.1	848.1	797.8	747.6	669.1	590.5	499.4
15°	942.3	939.2	926.6	914.1	829.3	741.3	694.2	647.1	647.1	643.9	606.2
17.5°	782.1	782.1	845.0	904.6	870.1	835.5	769.6	703.6	609.4	512.0	549.7
20°	989.5	989.5	976.9	964.3	819.8	675.3	681.6	687.9	694.2	700.5	581.1
22.5°	813.6	807.3	801.0	794.7	810.4	826.1	697.3	565.4	640.8	713.0	556.0
25°	992.6	1002.0	995.7	986.3	857.5	728.7	757.0	782.1	684.8	587.4	681.6
27.5°	851.2	841.8	829.3	813.6	823.0	832.4	772.7	709.9	744.4	779.0	625.1
30°	1042.9	1046.0	1039.7	1033.4	910.9	788.4	785.3	779.0	750.7	719.3	703.6
32.5°	1291.0	1265.9	1177.9	1090.0	1014.6	939.2	879.5	819.8	845.0	867.0	782.1
35°	1410.4	1363.3	1325.6	1284.7	1159.1	1030.3	958.0	882.7	885.8	888.9	854.4
37.5°	1526.6	1457.5	1410.4	1363.3	1212.5	1061.7	983.2	904.6	929.8	951.8	914.1
40°	1567.4	1529.7	1501.5	1473.2	1313.0	1149.7	1058.6	964.3	976.9	986.3	973.8
42.5°	1671.1	1664.8	1649.1	1630.3	1438.6	1243.9	1134.0	1024.0	1036.6	1046.0	1039.7
45°	1919.2	1909.8	1909.8	1906.7	1658.5	1407.2	1262.7	1118.2	1130.8	1143.4	1137.1
47.5°	2239.6	2223.9	2205.1	2183.1	1919.2	1652.2	1444.9	1234.5	1234.5	1234.5	1243.9
50°	2575.7	2553.7	2512.9	2468.9	2201.9	1934.9	1671.1	1407.2	1379.0	1347.5	1382.1
52.5°	2924.4	2886.7	2817.6	2745.4	2509.8	2274.2	1975.8	1674.2	1589.4	1501.5	1545.4
55°	3112.9	3072.0	3024.9	2974.7	2783.0	2588.3	2283.6	1978.9	1847.0	1711.9	1759.0
57.5°	3266.8	3257.4	3235.4	3213.4	3065.8	2918.1	2613.4	2305.6	2126.6	1947.5	1988.3
60°	3477.2	3464.7	3474.1	3483.5	3370.4	3257.4	2968.4	2676.2	2446.9	2214.5	2201.9
62.5°	3634.3	3631.2	3678.3	3725.4	3665.7	3602.9	3279.3	2952.7	2729.6	2503.5	2440.7
65°	3489.8	3530.6	3706.5	3882.4	3873.0	3860.5	3558.9	3254.2	3034.3	2811.3	2729.6
67.5°	3185.1	3204.0	3464.7	3722.2	3835.3	3945.3	3731.7	3514.9	3342.2	3166.3	3015.5
70°	2899.3	2940.1	3169.4	3398.7	3690.8	3983.0	3813.3	3643.7	3609.2	3571.5	3376.7
72.5°	2622.8	2695.1	2908.7	3122.3	3511.8	3898.2	3797.6	3697.1	3832.2	3967.3	3734.8
75°	1677.4	1693.1	2098.3	2500.3	2993.5	3483.5	3612.3	3741.1	4039.5	4337.9	4070.9
77.5°	490.0	543.4	848.1	1152.8	1718.2	2280.5	2720.2	3160.0	3741.1	4322.2	3995.5
80°	166.5	179.0	223.0	263.9	565.4	867.0	1375.8	1881.5	2556.9	3232.2	3002.9
82.5°	81.7	84.8	106.8	125.6	191.6	257.6	518.3	775.9	1253.3	1727.6	1768.5
85°	25.1	25.1	37.7	50.3	81.7	113.1	194.8	273.3	433.5	590.5	499.4
87.5°	6.3	6.3	9.4	12.6	18.8	25.1	25.1	25.1	18.8	12.6	15.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4
2.5°	785.3	785.3	785.3	782.1	775.9	772.7	766.4	760.2	753.9	750.7	744.4
5°	691.1	731.9	769.6	772.7	772.7	763.3	753.9	744.4	735.0	725.6	716.2
7.5°	709.9	687.9	665.9	669.1	672.2	669.1	662.8	647.1	634.5	609.4	581.1
10°	568.5	552.8	534.0	540.3	546.6	562.3	578.0	565.4	546.6	499.4	449.2
12.5°	559.1	556.0	549.7	502.6	452.3	477.5	499.4	486.9	468.0	420.9	370.7
15°	477.5	480.6	480.6	527.7	574.8	593.7	609.4	593.7	571.7	508.9	442.9
17.5°	615.7	584.3	552.8	534.0	512.0	518.3	524.6	455.5	477.5	436.6	392.6
20°	637.7	534.0	430.3	515.1	600.0	628.2	656.5	640.8	612.5	512.0	408.3
22.5°	581.1	618.8	656.5	603.1	549.7	515.1	477.5	461.7	442.9	398.9	354.9
25°	719.3	615.7	508.9	609.4	706.8	713.0	719.3	691.1	659.6	534.0	408.3
27.5°	643.9	678.5	709.9	731.9	753.9	782.1	810.4	779.0	703.6	556.0	405.2
30°	766.4	813.6	860.7	932.9	1005.2	1027.2	1046.0	1011.4	951.8	703.6	452.3
32.5°	801.0	895.2	989.5	1017.7	1042.9	1071.1	1099.4	1071.1	998.9	697.3	392.6
35°	895.2	961.2	1024.0	1068.0	1112.0	1137.1	1162.2	1143.4	1046.0	687.9	329.8
37.5°	923.5	1011.4	1096.3	1146.5	1193.6	1215.6	1234.5	1234.5	1096.3	681.6	263.9
40°	967.5	1077.4	1187.4	1234.5	1278.4	1313.0	1344.4	1357.0	1152.8	678.5	201.0
42.5°	1055.4	1152.8	1250.2	1325.6	1397.8	1448.1	1498.3	1507.7	1218.8	687.9	153.9
45°	1149.7	1253.3	1357.0	1457.5	1558.0	1630.3	1699.4	1693.1	1297.3	713.0	125.6
47.5°	1284.7	1382.1	1479.5	1649.1	1815.6	1884.7	1950.6	1906.7	1379.0	744.4	109.9
50°	1422.9	1542.3	1661.7	1878.4	2092.0	2154.8	2214.5	2123.4	1457.5	782.1	103.7
52.5°	1602.0	1743.3	1884.7	2132.8	2381.0	2437.5	2494.1	2308.7	1517.2	807.3	97.4
55°	1812.4	1994.6	2176.8	2412.4	2644.8	2710.8	2776.8	2490.9	1545.4	819.8	94.2
57.5°	2066.9	2277.3	2484.6	2701.4	2915.0	3006.1	3094.0	2670.0	1558.0	823.0	88.0
60°	2315.0	2547.5	2779.9	2965.2	3150.6	3291.9	3430.1	2845.9	1551.7	816.7	78.5
62.5°	2544.3	2801.9	3056.3	3229.1	3401.9	3571.5	3741.1	2987.2	1510.9	788.4	62.8
65°	2783.0	3056.3	3326.5	3477.2	3628.0	3847.9	4064.6	3109.7	1454.3	750.7	44.0
67.5°	2999.8	3260.5	3521.2	3690.8	3860.5	4077.2	4290.8	3141.1	1372.7	703.6	31.4
70°	3182.0	3464.7	3744.2	3917.0	4089.8	4199.7	4306.5	3002.9	1209.3	615.7	22.0
72.5°	3433.3	3687.7	3939.0	4026.9	4111.7	3920.1	3725.4	2503.5	907.8	464.9	18.8
75°	3659.4	3781.9	3901.3	3712.8	3524.4	3009.2	2494.1	1576.9	442.9	232.4	18.8
77.5°	3430.1	3364.2	3298.2	2720.2	2139.1	1589.4	1036.6	618.8	138.2	75.4	12.6
80°	2484.6	2183.1	1878.4	1300.4	719.3	480.6	238.7	138.2	34.6	22.0	9.4
82.5°	1338.1	1033.4	725.6	468.0	210.5	141.4	69.1	47.1	15.7	12.6	6.3
85°	483.7	383.2	279.6	216.7	153.9	91.1	25.1	15.7	9.4	9.4	6.3
87.5°	44.0	50.3	56.5	44.0	28.3	18.8	6.3	6.3	6.3	6.3	3.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4
2.5°	741.3	738.2	735.0	728.7	725.6	722.5	700.5	678.5	653.4	628.2	628.2
5°	675.3	634.5	612.5	590.5	574.8	559.1	556.0	549.7	543.4	537.1	534.0
7.5°	565.4	549.7	537.1	524.6	508.9	493.2	477.5	461.7	449.2	436.6	408.3
10°	424.1	398.9	380.1	361.2	351.8	339.2	320.4	298.4	298.4	298.4	295.3
12.5°	367.5	364.4	317.3	267.0	251.3	235.6	232.4	229.3	223.0	213.6	201.0
15°	364.4	282.7	241.9	197.9	188.5	175.9	157.1	135.1	131.9	125.6	141.4
17.5°	329.8	267.0	219.9	172.8	138.2	103.7	109.9	113.1	128.8	141.4	150.8
20°	298.4	188.5	157.1	122.5	113.1	100.5	106.8	113.1	109.9	103.7	119.4
22.5°	279.6	201.0	147.6	94.2	100.5	106.8	100.5	91.1	106.8	122.5	131.9
25°	270.1	128.8	116.2	100.5	94.2	88.0	100.5	109.9	103.7	97.4	116.2
27.5°	267.0	128.8	109.9	88.0	94.2	100.5	97.4	91.1	103.7	113.1	109.9
30°	285.8	116.2	103.7	91.1	88.0	84.8	91.1	97.4	97.4	94.2	109.9
32.5°	254.4	116.2	103.7	88.0	88.0	84.8	84.8	84.8	94.2	103.7	109.9
35°	219.9	106.8	97.4	84.8	81.7	78.5	81.7	81.7	91.1	97.4	109.9
37.5°	182.2	100.5	91.1	78.5	75.4	72.2	72.2	69.1	78.5	88.0	97.4
40°	147.6	94.2	84.8	72.2	69.1	66.0	66.0	66.0	72.2	75.4	81.7
42.5°	122.5	88.0	78.5	66.0	62.8	59.7	59.7	56.5	59.7	62.8	66.0
45°	106.8	84.8	75.4	62.8	59.7	53.4	50.3	47.1	47.1	47.1	47.1
47.5°	94.2	78.5	72.2	62.8	56.5	47.1	44.0	37.7	34.6	31.4	28.3
50°	88.0	72.2	66.0	56.5	50.3	40.8	34.6	28.3	25.1	18.8	18.8
52.5°	81.7	66.0	59.7	50.3	40.8	31.4	25.1	15.7	15.7	12.6	12.6
55°	78.5	62.8	53.4	44.0	34.6	22.0	15.7	9.4	9.4	6.3	6.3
57.5°	75.4	59.7	50.3	37.7	25.1	12.6	9.4	6.3	6.3	6.3	6.3
60°	66.0	53.4	40.8	25.1	15.7	6.3	6.3	3.1	6.3	6.3	6.3
62.5°	53.4	40.8	28.3	15.7	9.4	3.1	3.1	3.1	6.3	6.3	6.3
65°	37.7	28.3	18.8	9.4	6.3	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	28.3	22.0	15.7	6.3	6.3	3.1	3.1	3.1	3.1	3.1	3.1
70°	18.8	15.7	12.6	6.3	6.3	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	15.7	12.6	9.4	3.1	3.1	0.0	3.1	3.1	3.1	3.1	3.1
75°	15.7	12.6	9.4	3.1	3.1	0.0	3.1	3.1	3.1	3.1	3.1
77.5°	12.6	9.4	6.3	3.1	3.1	0.0	3.1	6.3	6.3	6.3	6.3
80°	9.4	6.3	6.3	3.1	3.1	0.0	3.1	6.3	6.3	6.3	6.3
82.5°	6.3	6.3	6.3	3.1	3.1	0.0	6.3	9.4	9.4	6.3	6.3
85°	6.3	3.1	3.1	3.1	3.1	3.1	6.3	9.4	9.4	9.4	6.3
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	6.3	9.4	9.4	9.4	6.3
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):

	165°	170°	175°	180°
0°	766.4	766.4	766.4	766.4
2.5°	625.1	625.1	621.9	621.9
5°	527.7	527.7	524.6	524.6
7.5°	380.1	373.8	364.4	367.5
10°	292.1	285.8	279.6	285.8
12.5°	188.5	191.6	191.6	182.2
15°	153.9	166.5	175.9	175.9
17.5°	160.2	160.2	157.1	157.1
20°	135.1	147.6	160.2	160.2
22.5°	138.2	131.9	125.6	125.6
25°	131.9	141.4	147.6	147.6
27.5°	106.8	109.9	113.1	113.1
30°	122.5	128.8	131.9	131.9
32.5°	116.2	122.5	125.6	128.8
35°	119.4	125.6	128.8	128.8
37.5°	106.8	109.9	113.1	113.1
40°	84.8	88.0	91.1	91.1
42.5°	66.0	66.0	62.8	66.0
45°	44.0	44.0	40.8	44.0
47.5°	25.1	25.1	25.1	25.1
50°	15.7	15.7	15.7	15.7
52.5°	9.4	9.4	9.4	9.4
55°	6.3	6.3	6.3	6.3
57.5°	6.3	6.3	3.1	3.1
60°	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	0.0	0.0
65°	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0
75°	3.1	3.1	0.0	0.0
77.5°	3.1	3.1	0.0	0.0
80°	3.1	3.1	0.0	0.0
82.5°	3.1	3.1	0.0	0.0
85°	3.1	3.1	3.1	0.0
87.5°	3.1	3.1	3.1	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)