

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: P559955

Luminaire Tested: **SDL-PA1-100-830-U-T4W**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-830-U-T4W
Description: Springdale
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8156.3 lumens
Efficiency: N/A
Efficacy: 87.0 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: B2 - U0 - G3

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

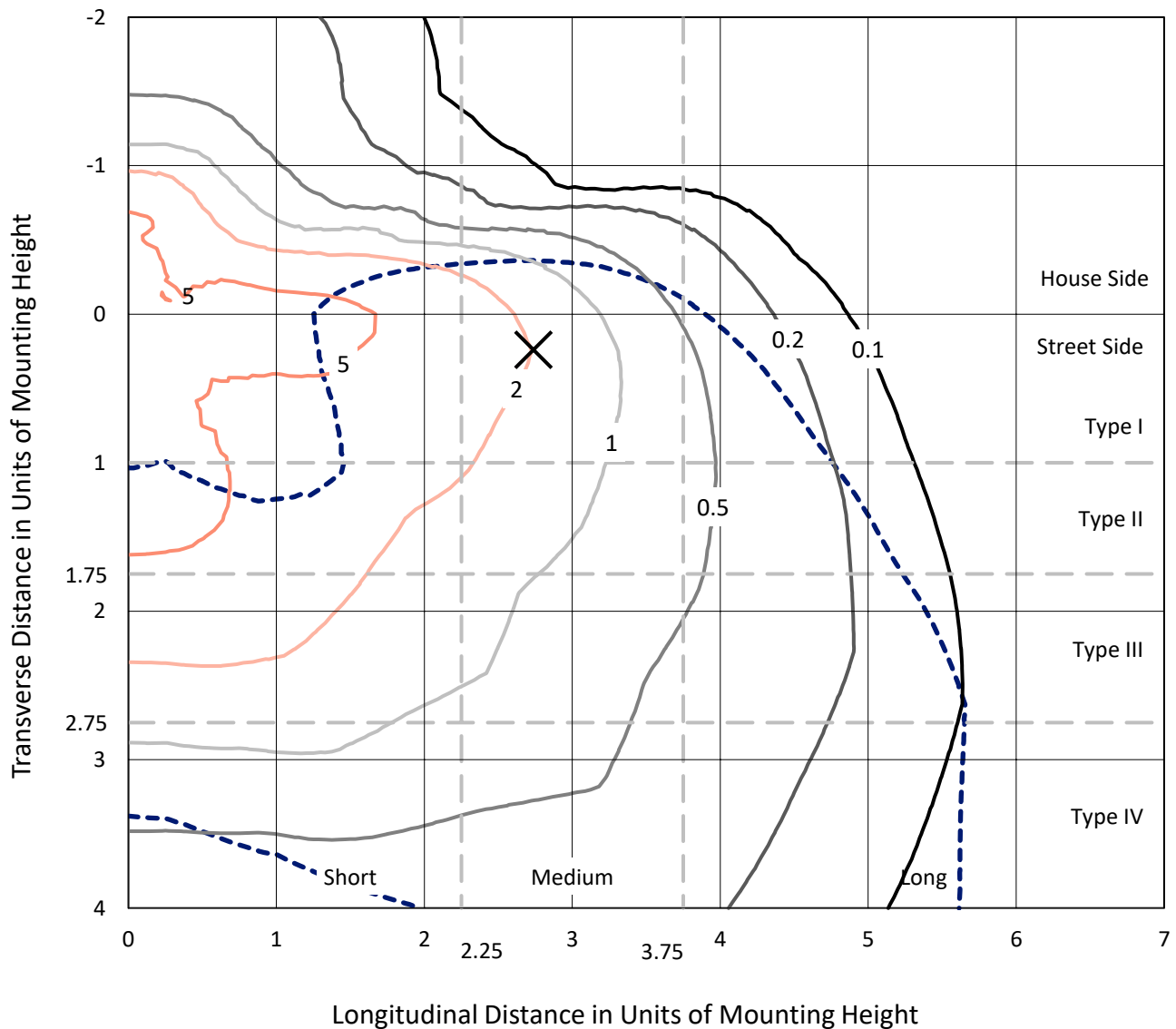


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

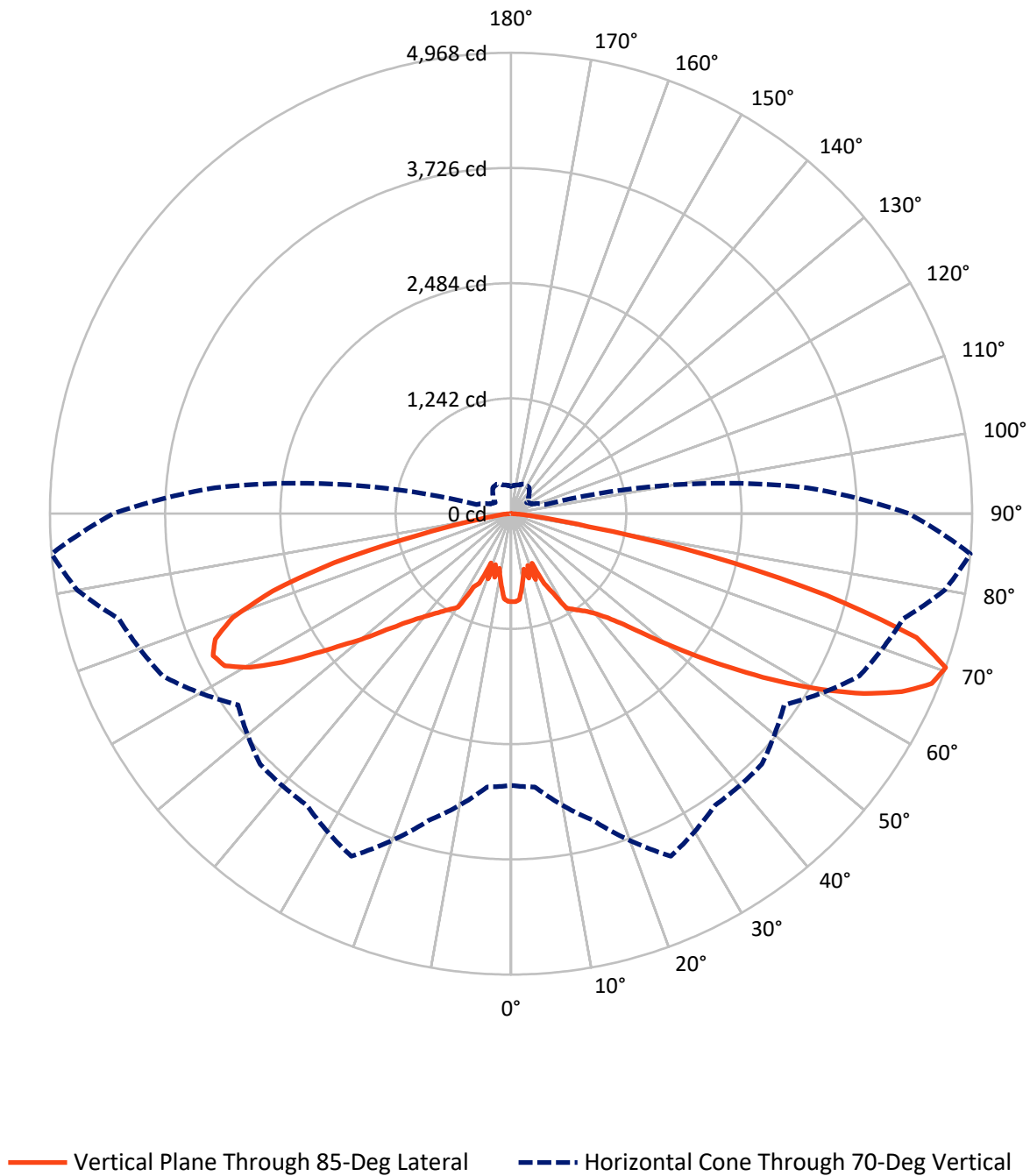


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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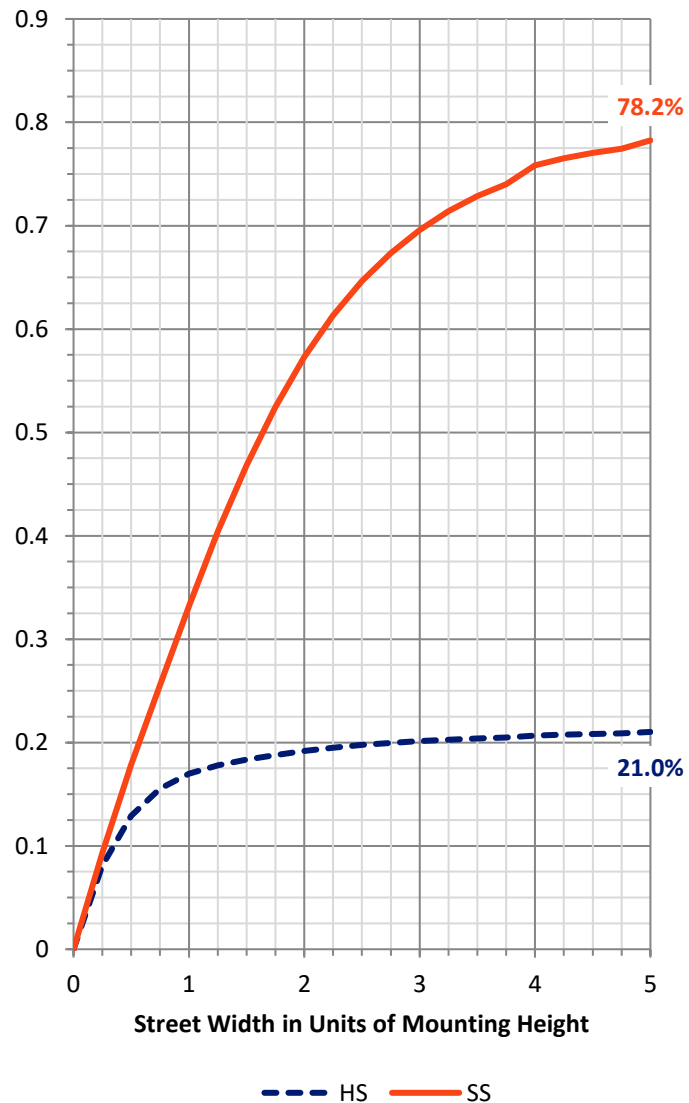
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1753.7	0.0	1753.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6402.6	0.0	6402.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	8156.3	0.0	8156.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.0
10°-20°	198.5	2.4
20°-30°	347.0	4.3
30°-40°	611.2	7.5
40°-50°	922.1	11.3
50°-60°	1466.8	18.0
60°-70°	2150.8	26.4
70°-80°	2016.9	24.7
80°-90°	364.2	4.5
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°	8156.3	100.0
0°-180°	8156.3	100.0

Coefficient of Utilization



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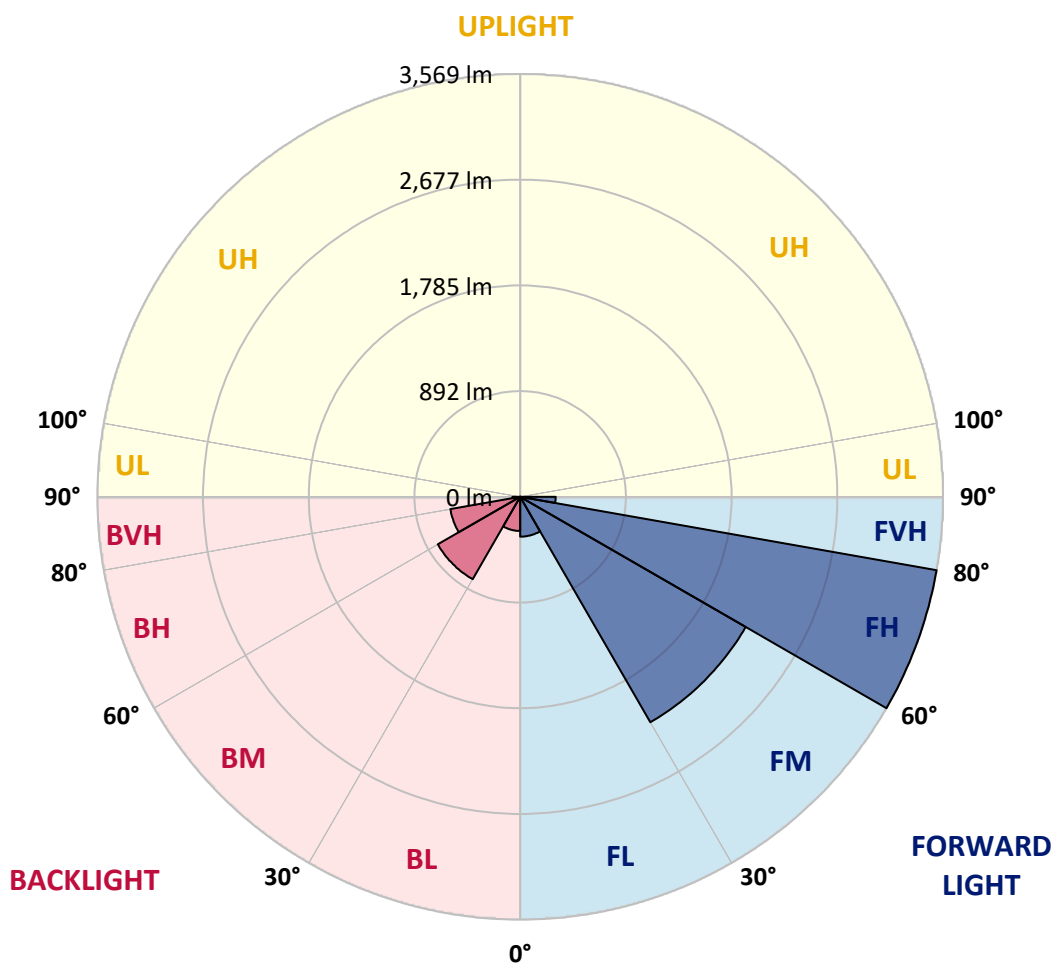
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.3	4.1			
FM	(30°-60°)	2197.3	26.9			
FH	(60°-80°)	3569.1	43.8			G2/5000
FVH	(80°-90°)	299.9	3.7			G3/500
BL	(0°-30°)	288.0	3.5	B1/500		
BM	(30°-60°)	802.8	9.8	B1/1000		
BH	(60°-80°)	598.6	7.3	B2/1000		G2/1000
BVH	(80°-90°)	64.3	0.8			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4
2.5°	861.1	897.3	915.3	933.4	939.4	945.4	945.4	942.4	942.4	942.4	948.4
5°	876.2	873.2	873.2	873.2	870.2	867.1	864.1	858.1	855.1	849.1	846.1
7.5°	803.9	864.1	867.1	870.2	870.2	867.1	873.2	879.2	873.2	864.1	852.1
10°	954.5	951.4	945.4	939.4	930.4	921.3	852.1	779.8	785.8	791.9	734.7
12.5°	828.0	885.2	909.3	933.4	936.4	936.4	888.2	837.0	770.8	704.6	677.5
15°	1011.7	1005.6	993.6	981.6	900.3	816.0	767.8	719.6	719.6	719.6	638.3
17.5°	852.1	849.1	903.3	957.5	927.4	897.3	828.0	758.8	656.4	551.0	617.2
20°	1044.8	1044.8	1029.7	1014.7	876.2	734.7	743.7	749.7	752.7	752.7	722.6
22.5°	876.2	870.2	876.2	879.2	879.2	879.2	752.7	626.3	695.5	761.8	692.5
25°	1044.8	1047.8	1044.8	1041.8	915.3	785.8	806.9	828.0	731.7	632.3	698.5
27.5°	912.3	909.3	894.2	879.2	882.2	885.2	819.0	749.7	788.9	828.0	758.8
30°	1117.0	1120.1	1111.0	1099.0	972.5	846.1	840.0	831.0	803.9	776.8	800.9
32.5°	1348.9	1348.9	1255.6	1162.2	1083.9	1002.6	936.4	870.2	897.3	924.4	894.2
35°	1472.3	1466.3	1436.2	1403.1	1258.6	1111.0	1020.7	927.4	936.4	942.4	942.4
37.5°	1692.1	1689.1	1647.0	1604.8	1409.1	1210.4	1093.0	972.5	990.6	1005.6	984.6
40°	1966.1	1966.1	1933.0	1896.9	1647.0	1394.1	1228.5	1062.9	1059.8	1053.8	1029.7
42.5°	2231.1	2240.1	2219.0	2198.0	1905.9	1613.9	1397.1	1180.3	1153.2	1126.1	1102.0
45°	2405.7	2417.8	2435.8	2453.9	2164.8	1875.8	1622.9	1367.0	1315.8	1261.6	1219.4
47.5°	2583.4	2565.3	2589.4	2613.5	2366.6	2119.7	1842.7	1565.7	1481.4	1397.1	1351.9
50°	2749.0	2742.9	2752.0	2761.0	2559.3	2357.5	2071.5	1785.5	1683.1	1577.7	1526.5
52.5°	2965.8	2944.7	2932.6	2920.6	2749.0	2577.3	2306.4	2032.4	1911.9	1788.5	1728.3
55°	3173.5	3164.5	3146.4	3125.3	2977.8	2830.3	2544.2	2258.2	2131.7	2005.3	1936.0
57.5°	3387.3	3381.3	3378.2	3375.2	3245.8	3116.3	2824.2	2529.2	2384.6	2237.1	2179.9
60°	3589.0	3592.0	3616.1	3637.2	3537.8	3438.5	3143.4	2848.3	2664.7	2478.0	2420.8
62.5°	3709.4	3718.5	3778.7	3835.9	3781.7	3727.5	3423.4	3116.3	2923.6	2727.9	2688.7
65°	3555.9	3601.1	3775.7	3950.3	3950.3	3950.3	3673.3	3393.3	3224.7	3056.1	3023.0
67.5°	3212.6	3257.8	3507.7	3754.6	3884.1	4013.5	3832.9	3652.2	3537.8	3420.4	3378.2
70°	2929.6	2956.7	3191.6	3423.4	3748.6	4073.8	3956.3	3835.9	3829.9	3820.9	3706.4
72.5°	2691.8	2752.0	2944.7	3134.4	3583.0	4031.6	4028.6	4025.6	4149.0	4272.5	4052.7
75°	2152.8	2146.8	2327.4	2508.1	3013.9	3516.7	3799.8	4079.8	4435.1	4787.4	4450.1
77.5°	960.5	1026.7	1198.3	1370.0	1824.6	2276.3	2821.2	3366.2	4149.0	4928.9	4585.6
80°	274.0	289.0	337.2	382.4	596.2	806.9	1379.0	1948.1	2932.6	3914.2	3682.3
82.5°	144.5	150.5	180.7	207.8	268.0	325.2	542.0	755.7	1601.8	2444.9	2234.1
85°	69.3	63.2	81.3	96.3	129.5	162.6	249.9	337.2	620.2	903.3	779.8
87.5°	15.1	15.1	18.1	18.1	27.1	36.1	54.2	72.3	69.3	63.2	75.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4
2.5°	951.4	954.5	957.5	954.5	951.4	948.4	948.4	945.4	945.4	942.4	936.4
5°	843.1	885.2	927.4	930.4	933.4	933.4	930.4	927.4	921.3	918.3	912.3
7.5°	840.0	825.0	809.9	812.9	816.0	819.0	819.0	809.9	806.9	782.8	758.8
10°	674.4	659.4	644.3	653.4	662.4	695.5	713.6	707.6	701.5	659.4	614.2
12.5°	650.4	644.3	638.3	593.2	548.0	587.1	614.2	611.2	602.2	563.0	523.9
15°	557.0	560.0	560.0	611.2	662.4	695.5	719.6	713.6	707.6	659.4	611.2
17.5°	680.5	647.3	611.2	602.2	593.2	608.2	587.1	554.0	575.1	569.1	563.0
20°	689.5	608.2	523.9	608.2	692.5	713.6	758.8	755.7	746.7	704.6	662.4
22.5°	623.3	671.4	716.6	671.4	626.3	596.2	581.1	575.1	572.1	584.1	593.2
25°	764.8	674.4	581.1	692.5	800.9	825.0	837.0	828.0	825.0	770.8	716.6
27.5°	686.5	734.7	782.8	819.0	855.1	885.2	975.5	888.2	885.2	834.0	779.8
30°	822.0	873.2	924.4	1017.7	1111.0	1162.2	1180.3	1174.3	1159.2	1077.9	996.6
32.5°	864.1	966.5	1065.9	1108.0	1147.2	1201.4	1228.5	1225.4	1210.4	1114.0	1014.7
35°	942.4	1017.7	1093.0	1150.2	1204.4	1255.6	1279.6	1288.7	1270.6	1150.2	1026.7
37.5°	963.5	1059.8	1156.2	1216.4	1276.6	1315.8	1336.8	1363.9	1342.9	1198.3	1050.8
40°	1005.6	1120.1	1231.5	1291.7	1348.9	1385.0	1421.2	1454.3	1427.2	1252.5	1074.9
42.5°	1074.9	1192.3	1306.7	1376.0	1442.2	1493.4	1535.6	1580.7	1529.5	1303.7	1074.9
45°	1177.3	1285.7	1394.1	1487.4	1577.7	1640.9	1701.2	1764.4	1662.0	1370.0	1074.9
47.5°	1306.7	1412.1	1514.5	1662.0	1809.6	1866.8	1939.0	1999.2	1833.6	1454.3	1074.9
50°	1472.3	1589.8	1707.2	1902.9	2095.6	2149.8	2240.1	2285.3	2062.5	1583.7	1102.0
52.5°	1665.0	1794.5	1921.0	2149.8	2378.6	2468.9	2589.4	2619.5	2294.3	1713.2	1129.1
55°	1866.8	2041.4	2213.0	2465.9	2715.8	2803.2	2974.8	2998.9	2592.4	1872.8	1150.2
57.5°	2122.7	2327.4	2529.2	2776.1	3019.9	3143.4	3411.4	3420.4	2938.7	2068.5	1195.3
60°	2363.6	2619.5	2872.4	3107.3	3342.1	3534.8	3844.9	3847.9	3263.8	2216.0	1165.2
62.5°	2649.6	2953.7	3254.8	3456.5	3658.3	3896.1	4269.5	4215.3	3492.7	2234.1	975.5
65°	2986.8	3300.0	3613.1	3784.7	3953.3	4224.3	4627.8	4420.0	3555.9	2131.7	704.6
67.5°	3333.1	3625.1	3917.2	4052.7	4188.2	4531.4	4889.7	4444.1	3462.6	1978.2	490.8
70°	3592.0	3866.0	4140.0	4257.4	4374.9	4745.2	4968.0	4287.5	3200.6	1791.5	382.4
72.5°	3829.9	4088.8	4344.7	4405.0	4462.2	4651.9	4570.6	3778.7	2697.8	1508.5	316.1
75°	4112.9	4278.5	4441.1	4332.7	4224.3	3968.4	3507.7	2755.0	1975.2	1123.1	271.0
77.5°	4242.4	4203.2	4161.1	3790.7	3420.4	2733.9	2179.9	1592.8	1002.6	617.2	231.8
80°	3450.5	3293.9	3134.4	2514.1	1893.9	1294.7	849.1	539.0	367.3	277.0	186.7
82.5°	2020.3	1656.0	1291.7	948.4	605.2	424.5	277.0	219.8	171.6	162.6	150.5
85°	653.4	578.1	502.8	397.4	292.1	180.7	105.4	96.3	90.3	99.4	105.4
87.5°	87.3	87.3	84.3	63.2	39.1	21.1	12.0	9.0	9.0	12.0	12.0
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°	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4
2.5°	936.4	933.4	930.4	927.4	924.4	918.3	894.2	870.2	861.1	849.1	840.0
5°	882.2	852.1	831.0	809.9	800.9	788.9	791.9	794.9	797.9	797.9	797.9
7.5°	764.8	770.8	773.8	773.8	782.8	788.9	794.9	797.9	785.8	773.8	758.8
10°	608.2	599.2	611.2	620.2	635.3	647.3	686.5	725.6	761.8	797.9	812.9
12.5°	554.0	584.1	560.0	535.9	584.1	629.3	683.5	737.7	770.8	800.9	773.8
15°	563.0	511.9	517.9	520.9	581.1	638.3	605.2	572.1	665.4	755.7	782.8
17.5°	554.0	545.0	578.1	608.2	551.0	493.8	575.1	653.4	695.5	737.7	725.6
20°	599.2	532.9	532.9	532.9	584.1	635.3	596.2	557.0	602.2	647.3	722.6
22.5°	620.2	644.3	596.2	545.0	578.1	611.2	611.2	608.2	659.4	707.6	695.5
25°	626.3	535.9	578.1	617.2	596.2	572.1	599.2	623.3	638.3	653.4	719.6
27.5°	716.6	653.4	605.2	554.0	593.2	632.3	623.3	614.2	626.3	638.3	653.4
30°	849.1	701.5	647.3	590.1	569.1	545.0	572.1	596.2	641.3	686.5	746.7
32.5°	888.2	758.8	671.4	581.1	578.1	572.1	581.1	587.1	638.3	686.5	770.8
35°	882.2	734.7	650.4	563.0	545.0	526.9	542.0	554.0	629.3	704.6	785.8
37.5°	876.2	698.5	611.2	523.9	511.9	496.8	511.9	526.9	584.1	641.3	716.6
40°	867.1	656.4	572.1	484.8	469.7	454.6	469.7	481.7	526.9	572.1	632.3
42.5°	846.1	614.2	529.9	442.6	430.6	415.5	427.5	439.6	478.7	517.9	554.0
45°	822.0	566.1	484.8	403.5	391.4	379.4	388.4	394.4	430.6	463.7	481.7
47.5°	794.9	514.9	439.6	364.3	352.3	340.2	349.3	355.3	382.4	409.5	415.5
50°	788.9	472.7	403.5	331.2	322.2	310.1	316.1	322.2	343.2	361.3	361.3
52.5°	776.8	421.5	364.3	304.1	298.1	289.0	292.1	295.1	310.1	325.2	322.2
55°	767.8	385.4	334.2	283.0	277.0	268.0	271.0	274.0	289.0	301.1	298.1
57.5°	776.8	355.3	310.1	261.9	255.9	249.9	255.9	261.9	277.0	292.1	292.1
60°	746.7	325.2	283.0	240.9	237.9	231.8	246.9	258.9	283.0	304.1	310.1
62.5°	638.3	298.1	261.9	225.8	228.8	228.8	255.9	280.0	313.1	343.2	349.3
65°	490.8	277.0	246.9	213.8	228.8	243.9	280.0	316.1	346.3	376.4	367.3
67.5°	376.4	261.9	237.9	210.8	243.9	274.0	307.1	340.2	355.3	367.3	352.3
70°	316.1	246.9	228.8	207.8	240.9	274.0	307.1	340.2	346.3	352.3	337.2
72.5°	277.0	234.9	216.8	198.7	225.8	252.9	292.1	328.2	334.2	337.2	322.2
75°	246.9	219.8	198.7	177.6	204.7	228.8	268.0	307.1	313.1	316.1	304.1
77.5°	216.8	201.7	177.6	153.6	180.7	207.8	243.9	280.0	289.0	298.1	283.0
80°	180.7	171.6	153.6	135.5	165.6	192.7	225.8	258.9	268.0	277.0	261.9
82.5°	144.5	138.5	126.5	114.4	144.5	174.6	207.8	237.9	246.9	252.9	234.9
85°	105.4	105.4	99.4	93.3	123.4	150.5	171.6	192.7	189.7	186.7	174.6
87.5°	15.1	15.1	21.1	27.1	36.1	42.2	54.2	63.2	66.2	66.2	51.2
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):

	165°	170°	175°	180°
0°	948.4	948.4	948.4	948.4
2.5°	831.0	831.0	828.0	834.0
5°	797.9	800.9	800.9	803.9
7.5°	743.7	728.6	710.6	713.6
10°	828.0	831.0	834.0	834.0
12.5°	743.7	731.7	716.6	719.6
15°	806.9	816.0	825.0	828.0
17.5°	710.6	707.6	704.6	701.5
20°	794.9	809.9	825.0	825.0
22.5°	683.5	683.5	683.5	686.5
25°	785.8	803.9	819.0	819.0
27.5°	665.4	707.6	749.7	782.8
30°	803.9	812.9	822.0	825.0
32.5°	852.1	897.3	939.4	948.4
35°	864.1	885.2	903.3	912.3
37.5°	791.9	809.9	828.0	840.0
40°	689.5	704.6	719.6	728.6
42.5°	587.1	590.1	593.2	608.2
45°	499.8	484.8	469.7	466.7
47.5°	418.5	397.4	376.4	373.4
50°	358.3	340.2	322.2	322.2
52.5°	316.1	304.1	292.1	292.1
55°	295.1	289.0	280.0	280.0
57.5°	292.1	289.0	286.0	286.0
60°	313.1	316.1	316.1	316.1
62.5°	352.3	355.3	355.3	355.3
65°	355.3	349.3	343.2	343.2
67.5°	337.2	328.2	319.2	313.1
70°	319.2	313.1	304.1	295.1
72.5°	304.1	298.1	289.0	280.0
75°	289.0	280.0	268.0	261.9
77.5°	268.0	261.9	252.9	246.9
80°	243.9	237.9	228.8	216.8
82.5°	216.8	219.8	219.8	189.7
85°	159.6	150.5	138.5	114.4
87.5°	33.1	30.1	24.1	21.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)