

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: P561178

Luminaire Tested: **SDL-PA1-80-830-U-T2U-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-80-830-U-T2U-HSS
Description: Springdale
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5356.7 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 82
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

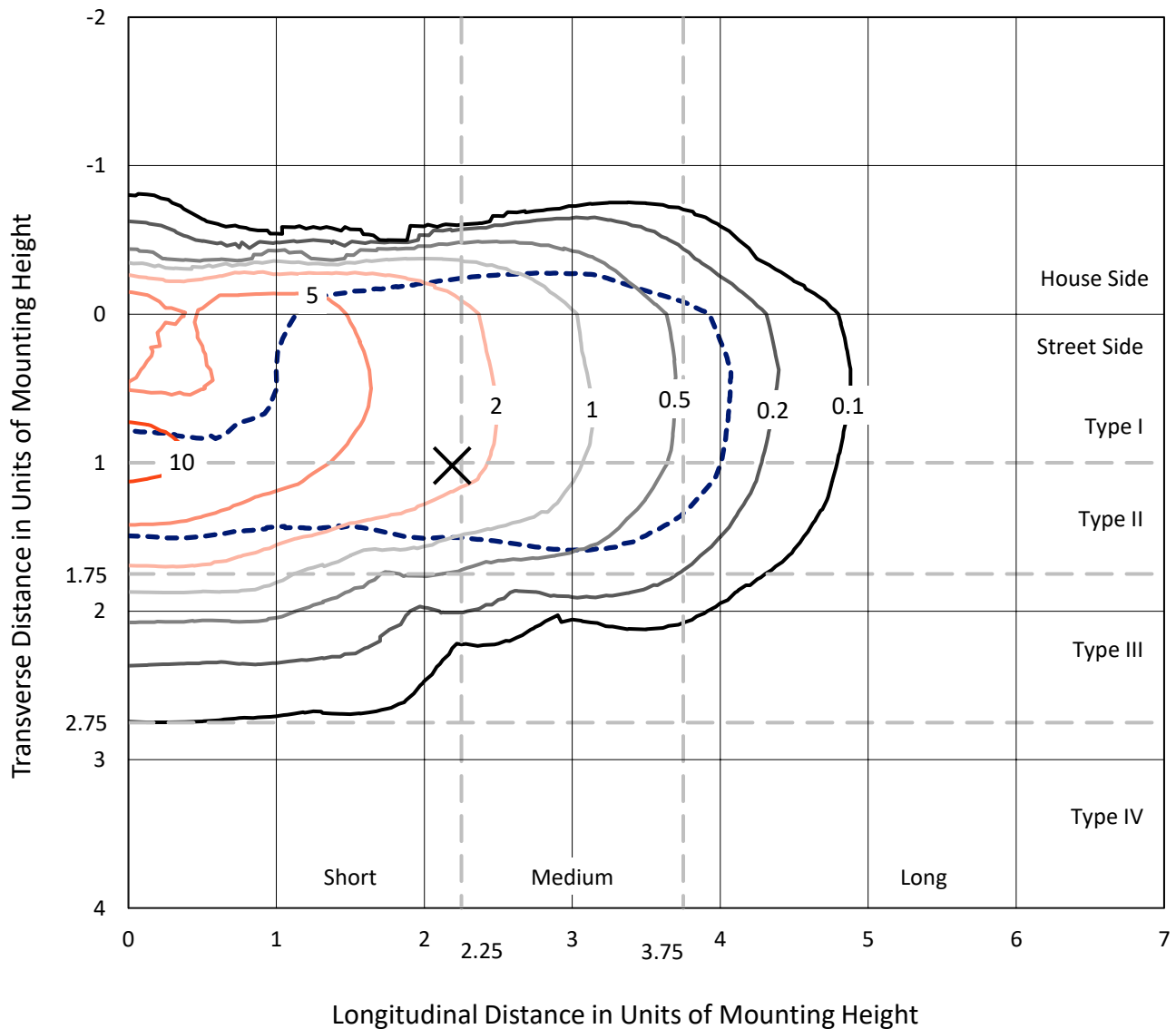


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

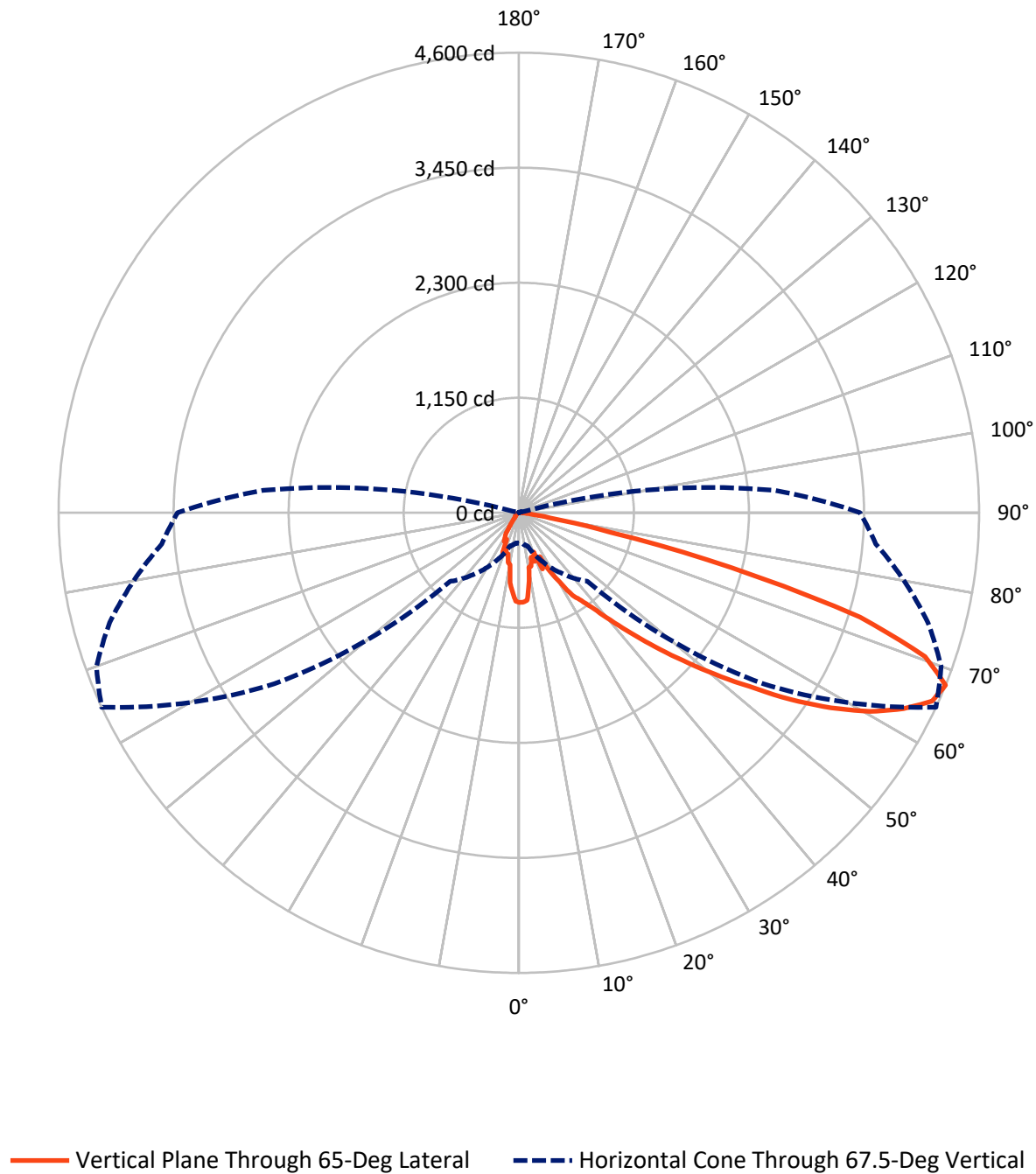


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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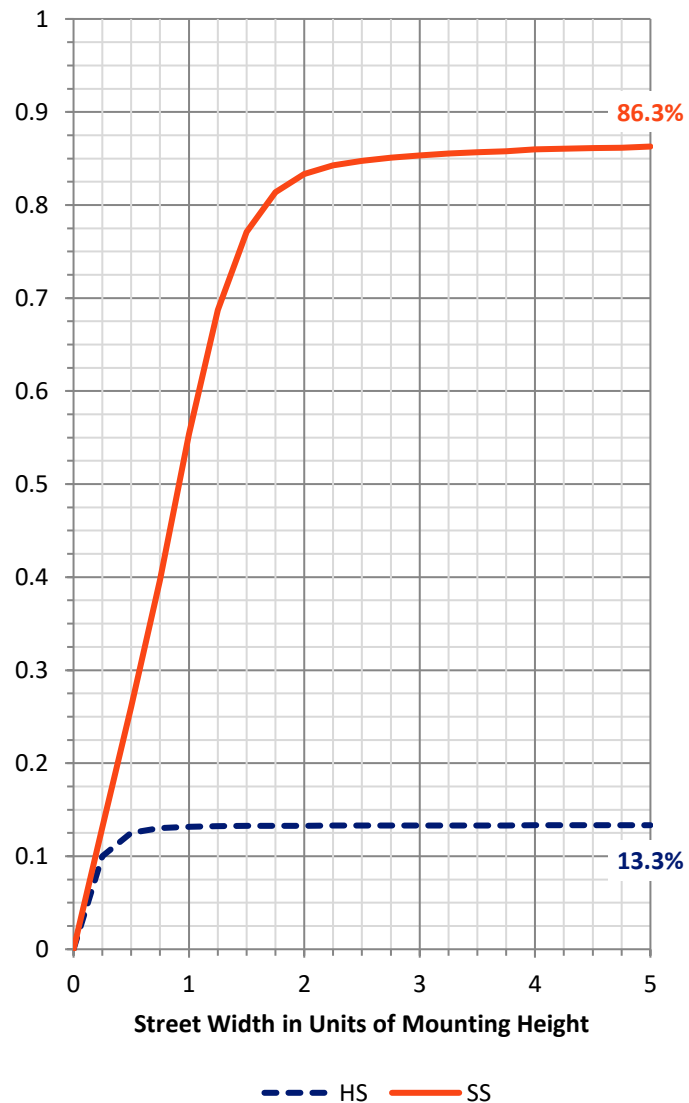
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	724.3	0.0	724.3
	% Fixture	13.5	0.0	13.5
Street Side	Lumens	4632.4	0.0	4632.4
	% Fixture	86.5	0.0	86.5
Total	Lumens	5356.7	0.0	5356.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.3
10°-20°	133.2	2.5
20°-30°	201.1	3.8
30°-40°	463.1	8.6
40°-50°	1015.9	19.0
50°-60°	1491.4	27.8
60°-70°	1295.4	24.2
70°-80°	642.3	12.0
80°-90°	45.6	0.9
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°	5356.7	100.0
0°-180°	5356.7	100.0

Coefficient of Utilization



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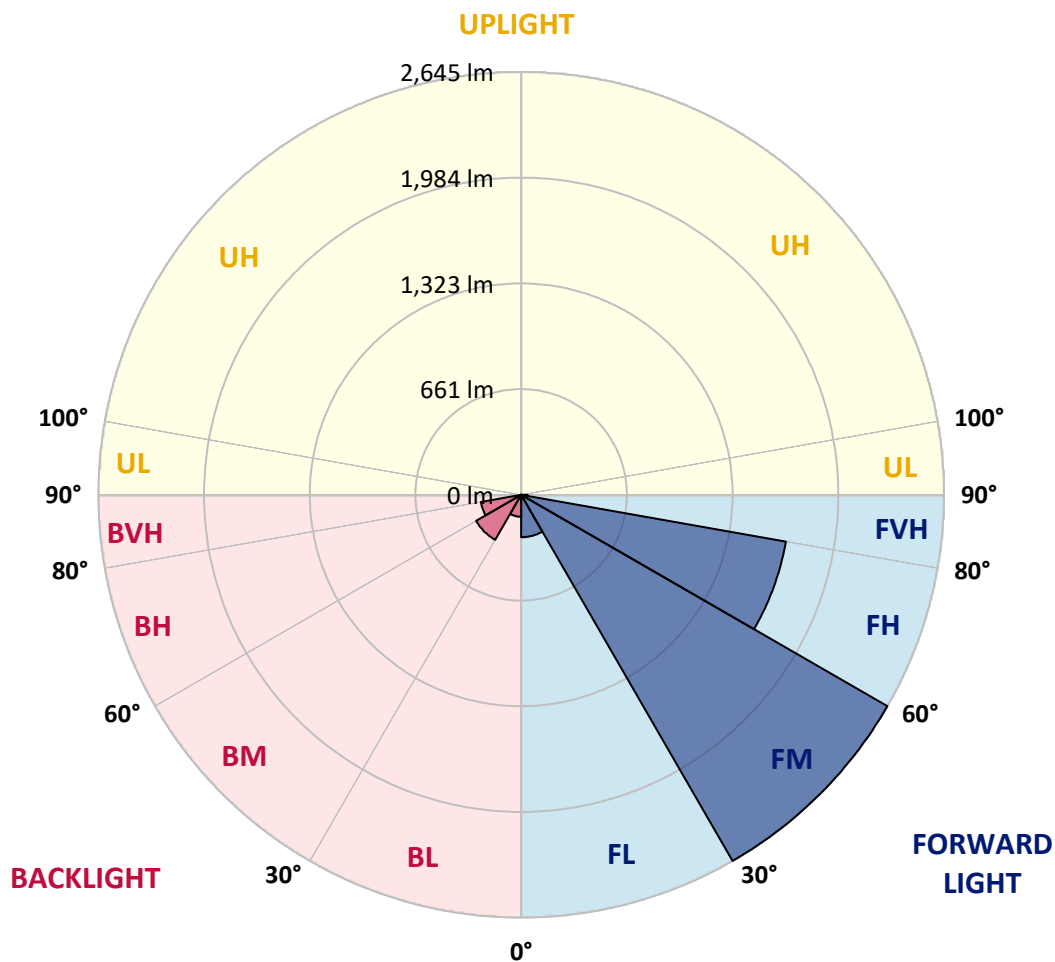
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.5	5.0			
FM	(30°-60°)	2645.0	49.4			
FH	(60°-80°)	1681.8	31.4			G1/1800
FVH	(80°-90°)	40.1	0.7			G1/100
BL	(0°-30°)	137.6	2.6	B1/500		
BM	(30°-60°)	325.3	6.1	B1/1000		
BH	(60°-80°)	255.9	4.8	B1/500		G1/500
BVH	(80°-90°)	5.5	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8
2.5°	751.0	813.1	832.0	850.9	867.1	883.3	886.0	888.7	894.1	896.8	899.5
5°	734.7	737.5	737.5	734.7	737.5	740.2	740.2	740.2	740.2	740.2	742.9
7.5°	588.9	659.1	680.7	699.6	710.4	718.5	723.9	726.6	729.3	732.0	734.7
10°	710.4	707.7	710.4	710.4	713.1	713.1	651.0	588.9	610.5	629.4	597.0
12.5°	564.6	621.3	645.6	669.9	686.1	699.6	672.6	642.9	586.2	526.8	529.5
15°	680.7	680.7	680.7	680.7	629.4	575.4	540.3	502.4	532.2	559.2	505.1
17.5°	548.4	548.4	597.0	645.6	645.6	642.9	607.8	570.0	494.3	418.7	486.2
20°	678.0	678.0	680.7	683.4	594.3	505.1	534.9	561.9	572.7	583.5	559.2
22.5°	553.8	553.8	561.9	567.3	599.7	632.1	545.7	459.2	529.5	599.7	551.1
25°	715.8	718.5	723.9	726.6	645.6	561.9	599.7	637.5	561.9	486.2	561.9
27.5°	648.3	637.5	637.5	634.8	661.8	686.1	632.1	578.1	626.7	675.3	618.6
30°	910.3	902.2	891.4	880.6	778.0	675.3	678.0	678.0	659.1	640.2	672.6
32.5°	1261.5	1248.0	1156.1	1064.3	988.7	913.0	834.7	756.4	783.4	807.7	791.5
35°	1693.7	1693.7	1607.3	1520.8	1350.6	1180.5	1048.1	913.0	902.2	891.4	907.6
37.5°	2206.9	2152.9	2050.3	1947.6	1736.9	1523.5	1320.9	1118.3	1094.0	1067.0	1040.0
40°	2587.8	2579.7	2501.4	2423.1	2163.7	1904.4	1666.7	1426.3	1347.9	1266.9	1207.5
42.5°	2984.9	2955.2	2893.1	2828.2	2566.2	2301.5	2047.6	1791.0	1682.9	1574.8	1469.5
45°	3271.3	3263.2	3209.1	3155.1	2941.7	2725.6	2460.9	2193.4	2123.2	2053.0	1855.8
47.5°	3449.5	3403.6	3382.0	3357.7	3174.0	2990.3	2766.1	2539.2	2528.4	2514.9	2266.4
50°	3395.5	3355.0	3360.4	3365.8	3276.7	3187.5	3017.3	2844.5	2874.2	2903.9	2698.6
52.5°	3109.2	3074.1	3122.7	3168.6	3165.9	3163.2	3101.1	3036.2	3144.3	3249.6	3109.2
55°	2536.5	2560.8	2658.1	2755.3	2820.1	2882.3	2971.4	3057.9	3263.2	3465.7	3438.7
57.5°	1988.1	2042.2	2142.1	2239.4	2344.7	2447.4	2636.5	2825.5	3171.3	3514.4	3633.2
60°	1334.4	1369.6	1545.1	1718.0	1815.3	1912.5	2117.8	2320.4	2790.4	3257.7	3568.4
62.5°	829.3	848.2	948.2	1048.1	1245.3	1442.5	1545.1	1645.1	2152.9	2658.1	3233.4
65°	510.5	505.1	545.7	583.5	778.0	969.8	1037.3	1102.1	1439.8	1774.7	2668.9
67.5°	305.2	302.5	324.2	345.8	434.9	524.0	629.4	734.7	853.6	969.8	1977.3
70°	248.5	253.9	262.0	270.1	294.4	318.8	416.0	513.2	510.5	507.8	1188.6
72.5°	208.0	213.4	229.6	243.1	262.0	278.2	335.0	389.0	364.7	340.4	567.3
75°	154.0	156.7	178.3	197.2	226.9	253.9	267.4	278.2	267.4	256.6	286.3
77.5°	102.6	102.6	121.6	140.5	170.2	199.9	216.1	232.3	213.4	194.5	202.6
80°	64.8	64.8	75.6	83.7	113.5	143.2	162.1	181.0	164.8	145.9	143.2
82.5°	37.8	40.5	45.9	51.3	70.2	89.1	102.6	116.2	135.1	151.3	121.6
85°	16.2	18.9	24.3	27.0	37.8	45.9	54.0	62.1	78.3	94.5	78.3
87.5°	2.7	2.7	5.4	8.1	10.8	13.5	13.5	13.5	13.5	10.8	13.5
90°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8
2.5°	899.5	896.8	894.1	894.1	894.1	891.4	888.7	888.7	888.7	886.0	883.3
5°	742.9	810.4	877.9	880.6	886.0	883.3	880.6	877.9	875.2	872.5	867.1
7.5°	734.7	729.3	723.9	705.0	769.9	769.9	767.2	767.2	761.8	740.2	718.5
10°	561.9	559.2	553.8	561.9	575.4	621.3	664.5	661.8	653.7	602.4	551.1
12.5°	532.2	540.3	548.4	521.3	470.0	513.2	556.5	551.1	545.7	499.7	451.1
15°	451.1	456.5	461.9	505.1	583.5	624.0	661.8	656.4	651.0	597.0	540.3
17.5°	553.8	532.2	510.5	540.3	513.2	532.2	551.1	529.5	513.2	491.6	470.0
20°	532.2	475.4	418.7	505.1	605.1	637.5	669.9	661.8	645.6	594.3	540.3
22.5°	499.7	556.5	610.5	583.5	534.9	505.1	475.4	461.9	451.1	453.8	456.5
25°	634.8	561.9	486.2	615.9	694.2	705.0	713.1	688.8	661.8	605.1	545.7
27.5°	559.2	613.2	664.5	715.8	742.9	751.0	756.4	791.5	734.7	659.1	583.5
30°	705.0	751.0	796.9	910.3	1002.2	1018.4	1034.6	994.1	948.2	856.3	764.5
32.5°	775.3	880.6	983.3	1037.3	1075.1	1088.6	1102.1	1048.1	996.8	877.9	756.4
35°	921.1	999.5	1077.8	1139.9	1212.9	1215.6	1218.3	1158.9	1094.0	921.1	748.3
37.5°	1010.3	1112.9	1212.9	1283.1	1396.6	1388.5	1380.4	1310.1	1231.8	988.7	745.6
40°	1145.3	1277.7	1407.4	1474.9	1612.7	1588.4	1564.0	1483.0	1396.6	1061.6	726.6
42.5°	1364.1	1504.6	1645.1	1701.8	1853.1	1826.1	1796.4	1688.3	1577.6	1121.0	664.5
45°	1655.9	1782.8	1909.8	2009.8	2128.6	2085.4	2042.2	1926.0	1763.9	1172.4	580.8
47.5°	2015.2	2109.7	2204.2	2401.4	2487.9	2401.4	2312.3	2171.8	1966.5	1215.6	464.6
50°	2493.3	2514.9	2533.8	2779.6	2866.1	2733.7	2601.3	2420.4	2174.5	1264.2	351.2
52.5°	2966.0	2925.5	2882.3	3147.0	3179.4	3003.8	2825.5	2636.5	2328.5	1291.2	251.2
55°	3411.7	3355.0	3295.6	3484.7	3463.0	3230.7	2998.4	2768.8	2423.1	1299.3	175.6
57.5°	3752.1	3717.0	3679.1	3765.6	3684.6	3411.7	3138.9	2909.3	2493.3	1312.8	129.7
60°	3876.3	3954.7	4033.0	4022.2	3873.6	3584.6	3295.6	3052.5	2536.5	1318.2	97.2
62.5°	3808.8	4062.7	4314.0	4211.3	4030.3	3725.1	3417.1	3182.1	2555.4	1315.5	75.6
65°	3563.0	4051.9	4538.2	4368.0	4141.1	3835.8	3530.6	3319.9	2577.0	1318.2	59.4
67.5°	2982.2	3792.6	4600.3	4492.2	4232.9	3908.8	3581.9	3411.7	2566.2	1307.4	48.6
70°	1866.6	3087.6	4308.5	4392.3	4232.9	3876.3	3519.8	3384.7	2469.0	1253.4	37.8
72.5°	791.5	2179.9	3568.4	3933.1	4043.8	3698.1	3352.3	3184.8	2261.0	1145.3	29.7
75°	313.3	1253.4	2193.4	2771.5	3111.9	2966.0	2817.4	2593.2	1483.0	753.7	21.6
77.5°	210.7	572.7	934.6	1361.4	1623.5	1680.2	1736.9	1480.3	591.6	305.2	16.2
80°	140.5	229.6	318.8	488.9	583.5	551.1	515.9	424.1	181.0	97.2	13.5
82.5°	89.1	118.9	148.6	167.5	172.9	124.3	75.6	62.1	21.6	16.2	8.1
85°	59.4	70.2	81.0	83.7	83.7	59.4	32.4	16.2	8.1	8.1	5.4
87.5°	16.2	18.9	18.9	18.9	13.5	10.8	8.1	5.4	5.4	5.4	5.4
90°	8.1	10.8	10.8	10.8	8.1	8.1	5.4	5.4	5.4	5.4	5.4

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8
2.5°	883.3	883.3	880.6	877.9	877.9	875.2	848.2	818.5	791.5	761.8	759.1
5°	832.0	794.2	759.1	723.9	718.5	710.4	710.4	707.7	707.7	705.0	705.0
7.5°	713.1	707.7	702.3	696.9	694.2	688.8	686.1	680.7	678.0	672.6	642.9
10°	540.3	526.8	526.8	524.0	529.5	534.9	532.2	526.8	561.9	597.0	594.3
12.5°	480.8	507.8	483.5	456.5	464.6	470.0	478.1	486.2	483.5	478.1	437.6
15°	483.5	424.1	405.2	383.6	394.4	402.5	332.3	259.3	245.8	232.3	216.1
17.5°	451.1	432.2	418.7	402.5	307.9	210.7	189.1	167.5	148.6	127.0	124.3
20°	456.5	370.1	345.8	318.8	245.8	172.9	132.4	91.8	81.0	70.2	81.0
22.5°	445.7	432.2	316.1	199.9	148.6	97.2	81.0	62.1	67.5	72.9	72.9
25°	418.7	291.7	226.9	162.1	113.5	62.1	64.8	64.8	59.4	51.3	56.7
27.5°	453.8	321.5	205.3	86.4	75.6	62.1	56.7	48.6	48.6	48.6	45.9
30°	524.0	280.9	175.6	70.2	59.4	48.6	45.9	43.2	40.5	35.1	37.8
32.5°	497.0	237.7	148.6	59.4	51.3	43.2	37.8	32.4	32.4	32.4	32.4
35°	451.1	151.3	102.6	51.3	43.2	35.1	32.4	27.0	27.0	27.0	27.0
37.5°	421.4	97.2	70.2	40.5	35.1	29.7	27.0	21.6	21.6	21.6	24.3
40°	397.1	67.5	51.3	35.1	29.7	21.6	18.9	16.2	18.9	18.9	18.9
42.5°	362.0	56.7	43.2	29.7	24.3	18.9	16.2	13.5	16.2	16.2	16.2
45°	316.1	51.3	37.8	24.3	21.6	16.2	13.5	10.8	13.5	13.5	13.5
47.5°	253.9	43.2	32.4	21.6	18.9	13.5	13.5	10.8	10.8	10.8	10.8
50°	197.2	40.5	29.7	18.9	16.2	10.8	10.8	8.1	10.8	10.8	10.8
52.5°	143.2	35.1	27.0	16.2	13.5	8.1	8.1	8.1	8.1	8.1	8.1
55°	102.6	29.7	21.6	13.5	10.8	8.1	8.1	5.4	8.1	8.1	8.1
57.5°	78.3	27.0	18.9	10.8	8.1	5.4	5.4	5.4	5.4	5.4	5.4
60°	62.1	24.3	18.9	10.8	8.1	5.4	5.4	2.7	5.4	5.4	5.4
62.5°	48.6	18.9	16.2	10.8	8.1	5.4	5.4	2.7	5.4	5.4	5.4
65°	37.8	16.2	13.5	8.1	5.4	2.7	2.7	2.7	5.4	5.4	5.4
67.5°	32.4	13.5	10.8	8.1	5.4	2.7	5.4	5.4	5.4	5.4	5.4
70°	27.0	13.5	10.8	8.1	5.4	2.7	5.4	5.4	8.1	8.1	5.4
72.5°	21.6	10.8	8.1	5.4	5.4	2.7	5.4	5.4	8.1	8.1	5.4
75°	16.2	8.1	8.1	5.4	5.4	2.7	5.4	8.1	8.1	8.1	5.4
77.5°	13.5	8.1	8.1	5.4	5.4	2.7	5.4	8.1	8.1	8.1	8.1
80°	10.8	5.4	5.4	5.4	2.7	0.0	5.4	10.8	10.8	8.1	8.1
82.5°	8.1	5.4	5.4	5.4	2.7	0.0	5.4	10.8	10.8	8.1	8.1
85°	5.4	5.4	5.4	5.4	5.4	2.7	8.1	10.8	10.8	8.1	8.1
87.5°	5.4	5.4	5.4	5.4	5.4	2.7	5.4	8.1	8.1	8.1	8.1
90°	5.4	5.4	8.1	8.1	5.4	2.7	5.4	8.1	8.1	8.1	8.1

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	896.8	896.8	896.8	896.8
2.5°	753.7	759.1	761.8	756.4
5°	702.3	702.3	699.6	707.7
7.5°	610.5	594.3	575.4	561.9
10°	588.9	575.4	561.9	564.6
12.5°	394.4	353.9	313.3	326.9
15°	199.9	189.1	178.3	178.3
17.5°	118.9	108.1	94.5	97.2
20°	89.1	89.1	89.1	89.1
22.5°	70.2	67.5	62.1	59.4
25°	59.4	59.4	59.4	59.4
27.5°	43.2	43.2	40.5	37.8
30°	37.8	37.8	37.8	35.1
32.5°	29.7	32.4	32.4	32.4
35°	27.0	27.0	27.0	27.0
37.5°	24.3	24.3	21.6	21.6
40°	18.9	18.9	18.9	18.9
42.5°	16.2	16.2	16.2	16.2
45°	13.5	13.5	13.5	13.5
47.5°	10.8	10.8	10.8	10.8
50°	10.8	10.8	8.1	8.1
52.5°	8.1	8.1	5.4	5.4
55°	5.4	5.4	5.4	5.4
57.5°	5.4	5.4	2.7	2.7
60°	5.4	5.4	2.7	2.7
62.5°	2.7	2.7	2.7	2.7
65°	2.7	2.7	0.0	0.0
67.5°	2.7	2.7	0.0	0.0
70°	2.7	2.7	0.0	0.0
72.5°	2.7	2.7	0.0	0.0
75°	2.7	2.7	0.0	0.0
77.5°	5.4	2.7	0.0	0.0
80°	5.4	5.4	2.7	0.0
82.5°	5.4	5.4	2.7	0.0
85°	5.4	5.4	2.7	0.0
87.5°	5.4	5.4	2.7	0.0
90°	5.4	5.4	2.7	0.0

(END OF REPORT)