

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: P559932

Luminaire Tested: **SDL-PA1-100-827-U-T4W-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559932
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-PA1-100-827-U-T4W-HSS
Description: Springdale
(1) 80 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: 5494.5 lumens
Efficiency: N/A
Efficacy: 58.6 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

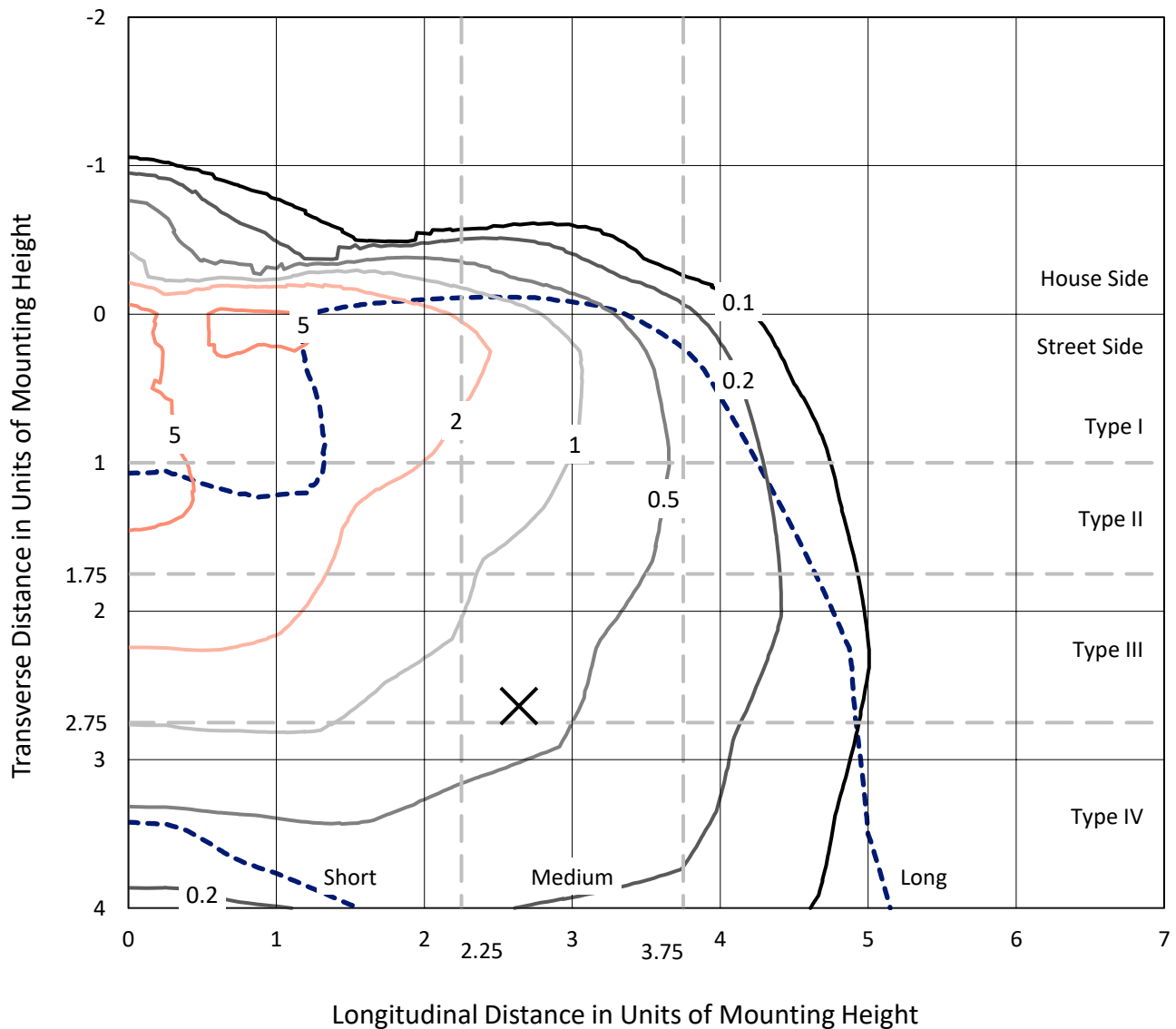


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

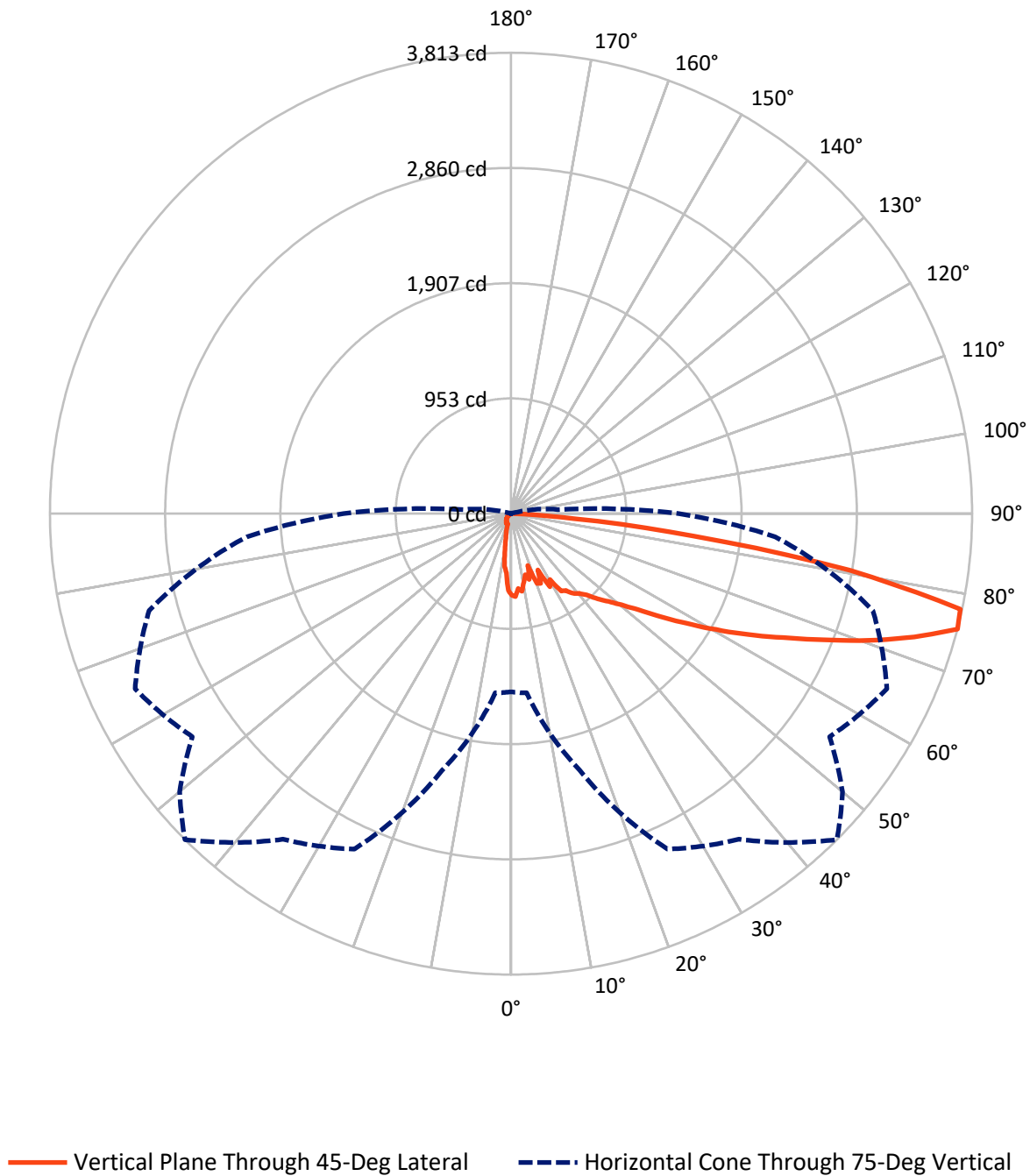


Based on 10 foot mounting height. Maximum calculated value = 7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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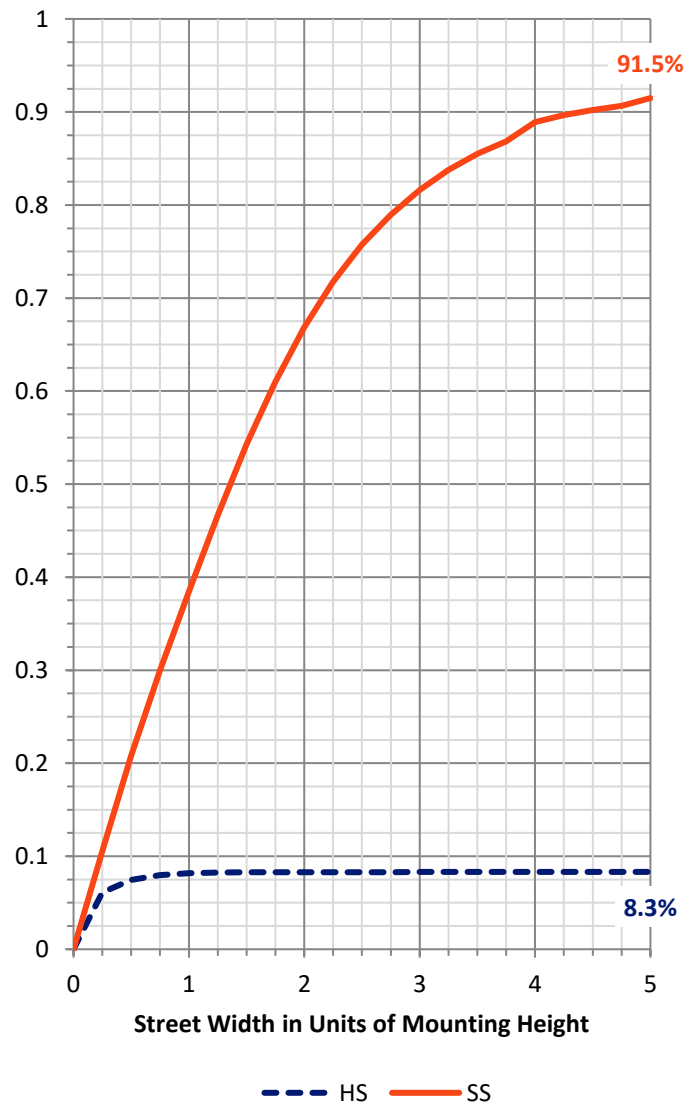
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	461.3	0.0	461.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5033.2	0.0	5033.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	5494.5	0.0	5494.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	1.0
10°-20°	115.0	2.1
20°-30°	194.5	3.5
30°-40°	358.1	6.5
40°-50°	587.7	10.7
50°-60°	1046.1	19.0
60°-70°	1565.2	28.5
70°-80°	1393.5	25.4
80°-90°	182.1	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°	5494.5	100.0
0°-180°	5494.5	100.0

Coefficient of Utilization



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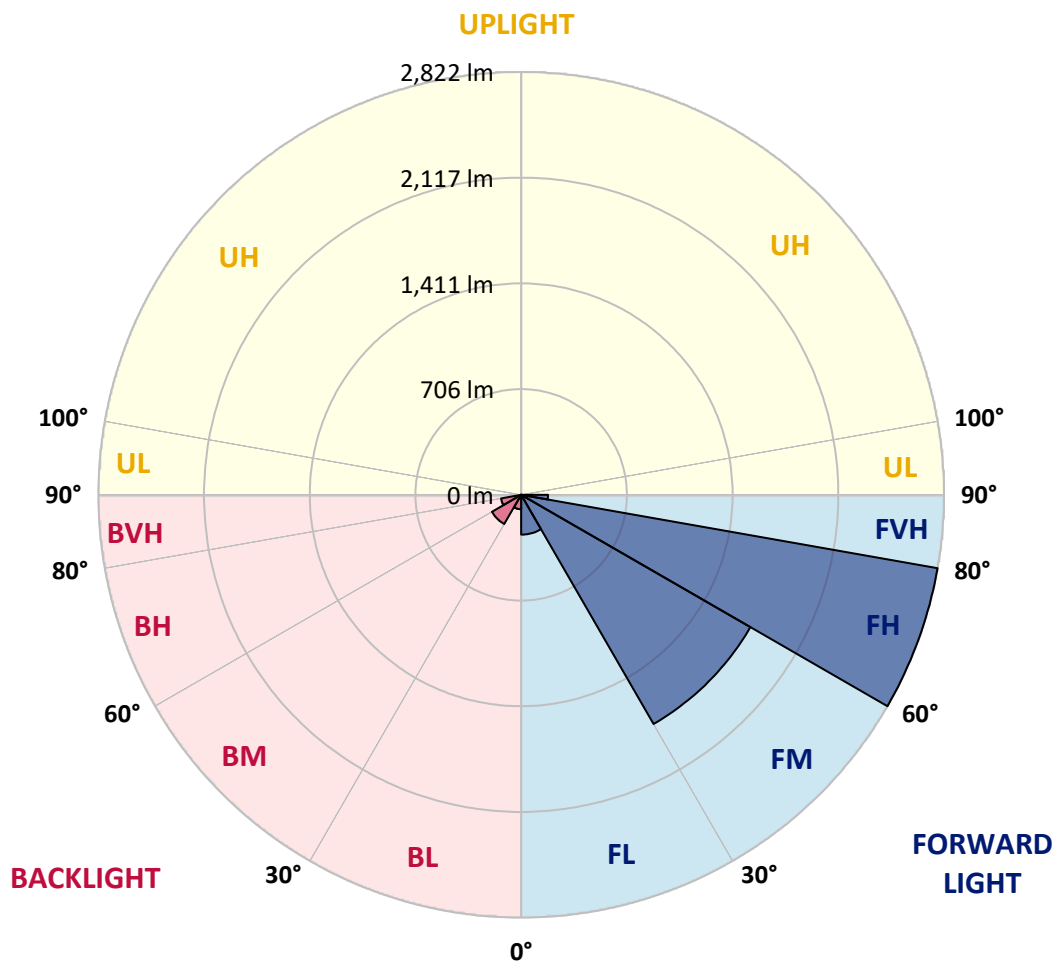
CATALOG NUMBER: SDL-PA1-100-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.6	4.8			
FM	(30°-60°)	1766.3	32.1			
FH	(60°-80°)	2822.1	51.4			G2/5000
FVH	(80°-90°)	179.3	3.3			G2/225
BL	(0°-30°)	96.2	1.8	B0/110		
BM	(30°-60°)	225.7	4.1	B1/1000		
BH	(60°-80°)	136.6	2.5	B1/500		G1/500
BVH	(80°-90°)	2.8	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°	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7
2.5°	626.8	673.7	679.2	682.0	687.5	690.3	690.3	690.3	690.3	687.5	687.5
5°	662.7	659.9	657.1	654.4	651.6	646.1	640.6	632.3	626.8	621.2	615.7
7.5°	648.9	651.6	659.9	665.4	662.7	659.9	665.4	668.2	659.9	648.9	637.8
10°	756.5	751.0	745.5	740.0	731.7	723.4	657.1	590.9	585.3	577.1	571.5
12.5°	662.7	745.5	745.5	745.5	745.5	745.5	701.3	657.1	588.1	519.1	439.0
15°	828.3	825.6	814.5	803.5	728.9	651.6	610.2	568.8	568.8	566.0	532.9
17.5°	687.5	687.5	742.7	795.2	764.8	734.4	676.5	618.5	535.6	450.1	483.2
20°	869.7	869.7	858.7	847.6	720.6	593.6	599.2	604.7	610.2	615.7	510.8
22.5°	715.1	709.6	704.1	698.6	712.4	726.2	613.0	497.0	563.3	626.8	488.7
25°	872.5	880.8	875.3	867.0	753.8	640.6	665.4	687.5	601.9	516.3	599.2
27.5°	748.3	740.0	728.9	715.1	723.4	731.7	679.2	624.0	654.4	684.7	549.5
30°	916.7	919.4	913.9	908.4	800.7	693.0	690.3	684.7	659.9	632.3	618.5
32.5°	1134.8	1112.7	1035.4	958.1	891.8	825.6	773.1	720.6	742.7	762.1	687.5
35°	1239.7	1198.3	1165.2	1129.3	1018.8	905.6	842.1	775.9	778.6	781.4	751.0
37.5°	1341.9	1281.1	1239.7	1198.3	1065.8	933.2	864.2	795.2	817.3	836.6	803.5
40°	1377.8	1344.6	1319.8	1294.9	1154.1	1010.6	930.5	847.6	858.7	867.0	855.9
42.5°	1468.9	1463.4	1449.6	1433.0	1264.6	1093.4	996.7	900.1	911.2	919.4	913.9
45°	1687.0	1678.7	1678.7	1676.0	1457.8	1237.0	1110.0	982.9	994.0	1005.0	999.5
47.5°	1968.6	1954.8	1938.3	1918.9	1687.0	1452.3	1270.1	1085.1	1085.1	1085.1	1093.4
50°	2264.1	2244.8	2208.9	2170.2	1935.5	1700.8	1468.9	1237.0	1212.1	1184.5	1214.9
52.5°	2570.6	2537.4	2476.7	2413.2	2206.1	1999.0	1736.7	1471.7	1397.1	1319.8	1358.4
55°	2736.2	2700.3	2658.9	2614.7	2446.3	2275.1	2007.3	1739.5	1623.5	1504.8	1546.2
57.5°	2871.5	2863.2	2843.9	2824.6	2694.8	2565.0	2297.2	2026.6	1869.2	1711.9	1747.8
60°	3056.5	3045.5	3053.7	3062.0	2962.6	2863.2	2609.2	2352.4	2150.9	1946.6	1935.5
62.5°	3194.6	3191.8	3233.2	3274.6	3222.2	3166.9	2882.6	2595.4	2399.4	2200.6	2145.4
65°	3067.6	3103.4	3258.1	3412.7	3404.4	3393.4	3128.3	2860.5	2667.2	2471.2	2399.4
67.5°	2799.7	2816.3	3045.5	3271.9	3371.3	3467.9	3280.2	3089.6	2937.8	2783.2	2650.6
70°	2548.5	2584.4	2785.9	2987.5	3244.3	3501.0	3351.9	3202.8	3172.5	3139.3	2968.2
72.5°	2305.5	2369.0	2556.8	2744.5	3086.9	3426.5	3338.1	3249.8	3368.5	3487.2	3282.9
75°	1474.4	1488.2	1844.4	2197.8	2631.3	3062.0	3175.2	3288.4	3550.7	3813.0	3578.3
77.5°	430.7	477.7	745.5	1013.3	1510.3	2004.5	2391.1	2777.6	3288.4	3799.2	3512.1
80°	146.3	157.4	196.0	231.9	497.0	762.1	1209.3	1653.9	2247.5	2841.1	2639.6
82.5°	71.8	74.5	93.9	110.4	168.4	226.4	455.6	682.0	1101.7	1518.6	1554.5
85°	22.1	22.1	33.1	44.2	71.8	99.4	171.2	240.2	381.0	519.1	439.0
87.5°	5.5	5.5	8.3	11.0	16.6	22.1	22.1	22.1	16.6	11.0	13.8
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°	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7
2.5°	690.3	690.3	690.3	687.5	682.0	679.2	673.7	668.2	662.7	659.9	654.4
5°	607.4	643.3	676.5	679.2	679.2	670.9	662.7	654.4	646.1	637.8	629.5
7.5°	624.0	604.7	585.3	588.1	590.9	588.1	582.6	568.8	557.7	535.6	510.8
10°	499.8	485.9	469.4	474.9	480.4	494.2	508.0	497.0	480.4	439.0	394.8
12.5°	491.5	488.7	483.2	441.8	397.6	419.7	439.0	428.0	411.4	370.0	325.8
15°	419.7	422.4	422.4	463.9	505.3	521.8	535.6	521.8	502.5	447.3	389.3
17.5°	541.2	513.6	485.9	469.4	450.1	455.6	461.1	400.4	419.7	383.8	345.1
20°	560.5	469.4	378.3	452.8	527.4	552.2	577.1	563.3	538.4	450.1	358.9
22.5°	510.8	543.9	577.1	530.1	483.2	452.8	419.7	405.9	389.3	350.7	312.0
25°	632.3	541.2	447.3	535.6	621.2	626.8	632.3	607.4	579.8	469.4	358.9
27.5°	566.0	596.4	624.0	643.3	662.7	687.5	712.4	684.7	618.5	488.7	356.2
30°	673.7	715.1	756.5	820.0	883.5	902.9	919.4	889.1	836.6	618.5	397.6
32.5°	704.1	786.9	869.7	894.6	916.7	941.5	966.4	941.5	878.0	613.0	345.1
35°	786.9	844.9	900.1	938.8	977.4	999.5	1021.6	1005.0	919.4	604.7	289.9
37.5°	811.8	889.1	963.6	1007.8	1049.2	1068.5	1085.1	1085.1	963.6	599.2	231.9
40°	850.4	947.0	1043.7	1085.1	1123.8	1154.1	1181.7	1192.8	1013.3	596.4	176.7
42.5°	927.7	1013.3	1098.9	1165.2	1228.7	1272.9	1317.0	1325.3	1071.3	604.7	135.3
45°	1010.6	1101.7	1192.8	1281.1	1369.5	1433.0	1493.7	1488.2	1140.3	626.8	110.4
47.5°	1129.3	1214.9	1300.5	1449.6	1595.9	1656.6	1714.6	1676.0	1212.1	654.4	96.6
50°	1250.8	1355.7	1460.6	1651.1	1838.9	1894.1	1946.6	1866.5	1281.1	687.5	91.1
52.5°	1408.1	1532.4	1656.6	1874.8	2092.9	2142.6	2192.3	2029.4	1333.6	709.6	85.6
55°	1593.1	1753.3	1913.4	2120.5	2324.8	2382.8	2440.8	2189.5	1358.4	720.6	82.8
57.5°	1816.8	2001.8	2184.0	2374.5	2562.3	2642.3	2719.7	2346.9	1369.5	723.4	77.3
60°	2034.9	2239.2	2443.5	2606.5	2769.4	2893.6	3015.1	2501.5	1364.0	717.9	69.0
62.5°	2236.5	2462.9	2686.5	2838.4	2990.2	3139.3	3288.4	2625.8	1328.1	693.0	55.2
65°	2446.3	2686.5	2924.0	3056.5	3189.0	3382.3	3572.8	2733.5	1278.4	659.9	38.7
67.5°	2636.8	2866.0	3095.2	3244.3	3393.4	3583.9	3771.6	2761.1	1206.6	618.5	27.6
70°	2797.0	3045.5	3291.2	3443.1	3594.9	3691.6	3785.4	2639.6	1063.0	541.2	19.3
72.5°	3017.9	3241.5	3462.4	3539.7	3614.2	3445.8	3274.6	2200.6	797.9	408.6	16.6
75°	3216.6	3324.3	3429.3	3263.6	3097.9	2645.1	2192.3	1386.1	389.3	204.3	16.6
77.5°	3015.1	2957.1	2899.1	2391.1	1880.3	1397.1	911.2	543.9	121.5	66.3	11.0
80°	2184.0	1918.9	1651.1	1143.1	632.3	422.4	209.8	121.5	30.4	19.3	8.3
82.5°	1176.2	908.4	637.8	411.4	185.0	124.2	60.7	41.4	13.8	11.0	5.5
85°	425.2	336.9	245.7	190.5	135.3	80.1	22.1	13.8	8.3	8.3	5.5
87.5°	38.7	44.2	49.7	38.7	24.8	16.6	5.5	5.5	5.5	5.5	2.8
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°	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7	673.7
2.5°	651.6	648.9	646.1	640.6	637.8	635.0	615.7	596.4	574.3	552.2	552.2
5°	593.6	557.7	538.4	519.1	505.3	491.5	488.7	483.2	477.7	472.1	469.4
7.5°	497.0	483.2	472.1	461.1	447.3	433.5	419.7	405.9	394.8	383.8	358.9
10°	372.7	350.7	334.1	317.5	309.2	298.2	281.6	262.3	262.3	262.3	259.5
12.5°	323.0	320.3	278.9	234.7	220.9	207.1	204.3	201.6	196.0	187.8	176.7
15°	320.3	248.5	212.6	173.9	165.7	154.6	138.1	118.7	116.0	110.4	124.2
17.5°	289.9	234.7	193.3	151.9	121.5	91.1	96.6	99.4	113.2	124.2	132.5
20°	262.3	165.7	138.1	107.7	99.4	88.4	93.9	99.4	96.6	91.1	104.9
22.5°	245.7	176.7	129.8	82.8	88.4	93.9	88.4	80.1	93.9	107.7	116.0
25°	237.5	113.2	102.2	88.4	82.8	77.3	88.4	96.6	91.1	85.6	102.2
27.5°	234.7	113.2	96.6	77.3	82.8	88.4	85.6	80.1	91.1	99.4	96.6
30°	251.3	102.2	91.1	80.1	77.3	74.5	80.1	85.6	85.6	82.8	96.6
32.5°	223.6	102.2	91.1	77.3	77.3	74.5	74.5	74.5	82.8	91.1	96.6
35°	193.3	93.9	85.6	74.5	71.8	69.0	71.8	71.8	80.1	85.6	96.6
37.5°	160.1	88.4	80.1	69.0	66.3	63.5	63.5	60.7	69.0	77.3	85.6
40°	129.8	82.8	74.5	63.5	60.7	58.0	58.0	58.0	63.5	66.3	71.8
42.5°	107.7	77.3	69.0	58.0	55.2	52.5	52.5	49.7	52.5	55.2	58.0
45°	93.9	74.5	66.3	55.2	52.5	46.9	44.2	41.4	41.4	41.4	41.4
47.5°	82.8	69.0	63.5	55.2	49.7	41.4	38.7	33.1	30.4	27.6	24.8
50°	77.3	63.5	58.0	49.7	44.2	35.9	30.4	24.8	22.1	16.6	16.6
52.5°	71.8	58.0	52.5	44.2	35.9	27.6	22.1	13.8	13.8	11.0	11.0
55°	69.0	55.2	46.9	38.7	30.4	19.3	13.8	8.3	8.3	5.5	5.5
57.5°	66.3	52.5	44.2	33.1	22.1	11.0	8.3	5.5	5.5	5.5	5.5
60°	58.0	46.9	35.9	22.1	13.8	5.5	5.5	2.8	5.5	5.5	5.5
62.5°	46.9	35.9	24.8	13.8	8.3	2.8	2.8	2.8	5.5	5.5	5.5
65°	33.1	24.8	16.6	8.3	5.5	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	24.8	19.3	13.8	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8
70°	16.6	13.8	11.0	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	13.8	11.0	8.3	2.8	2.8	0.0	2.8	2.8	2.8	2.8	2.8
75°	13.8	11.0	8.3	2.8	2.8	0.0	2.8	2.8	2.8	2.8	2.8
77.5°	11.0	8.3	5.5	2.8	2.8	0.0	2.8	5.5	5.5	5.5	5.5
80°	8.3	5.5	5.5	2.8	2.8	0.0	2.8	5.5	5.5	5.5	5.5
82.5°	5.5	5.5	5.5	2.8	2.8	0.0	5.5	8.3	8.3	5.5	5.5
85°	5.5	2.8	2.8	2.8	2.8	2.8	5.5	8.3	8.3	8.3	5.5
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	5.5	8.3	8.3	8.3	5.5
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°	673.7	673.7	673.7	673.7
2.5°	549.5	549.5	546.7	546.7
5°	463.9	463.9	461.1	461.1
7.5°	334.1	328.6	320.3	323.0
10°	256.8	251.3	245.7	251.3
12.5°	165.7	168.4	168.4	160.1
15°	135.3	146.3	154.6	154.6
17.5°	140.8	140.8	138.1	138.1
20°	118.7	129.8	140.8	140.8
22.5°	121.5	116.0	110.4	110.4
25°	116.0	124.2	129.8	129.8
27.5°	93.9	96.6	99.4	99.4
30°	107.7	113.2	116.0	116.0
32.5°	102.2	107.7	110.4	113.2
35°	104.9	110.4	113.2	113.2
37.5°	93.9	96.6	99.4	99.4
40°	74.5	77.3	80.1	80.1
42.5°	58.0	58.0	55.2	58.0
45°	38.7	38.7	35.9	38.7
47.5°	22.1	22.1	22.1	22.1
50°	13.8	13.8	13.8	13.8
52.5°	8.3	8.3	8.3	8.3
55°	5.5	5.5	5.5	5.5
57.5°	5.5	5.5	2.8	2.8
60°	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	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°	2.8	2.8	0.0	0.0
77.5°	2.8	2.8	0.0	0.0
80°	2.8	2.8	0.0	0.0
82.5°	2.8	2.8	0.0	0.0
85°	2.8	2.8	2.8	0.0
87.5°	2.8	2.8	2.8	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)