

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: P561186

Luminaire Tested: **SDL-PA1-80-830-U-T4W-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561186
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-PA1-80-830-U-T4W-HSS
Description: Springdale
(1) 80 CRI, 3000K, 1050mA 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: 5370.2 lumens
Efficiency: N/A
Efficacy: 65.5 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): 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

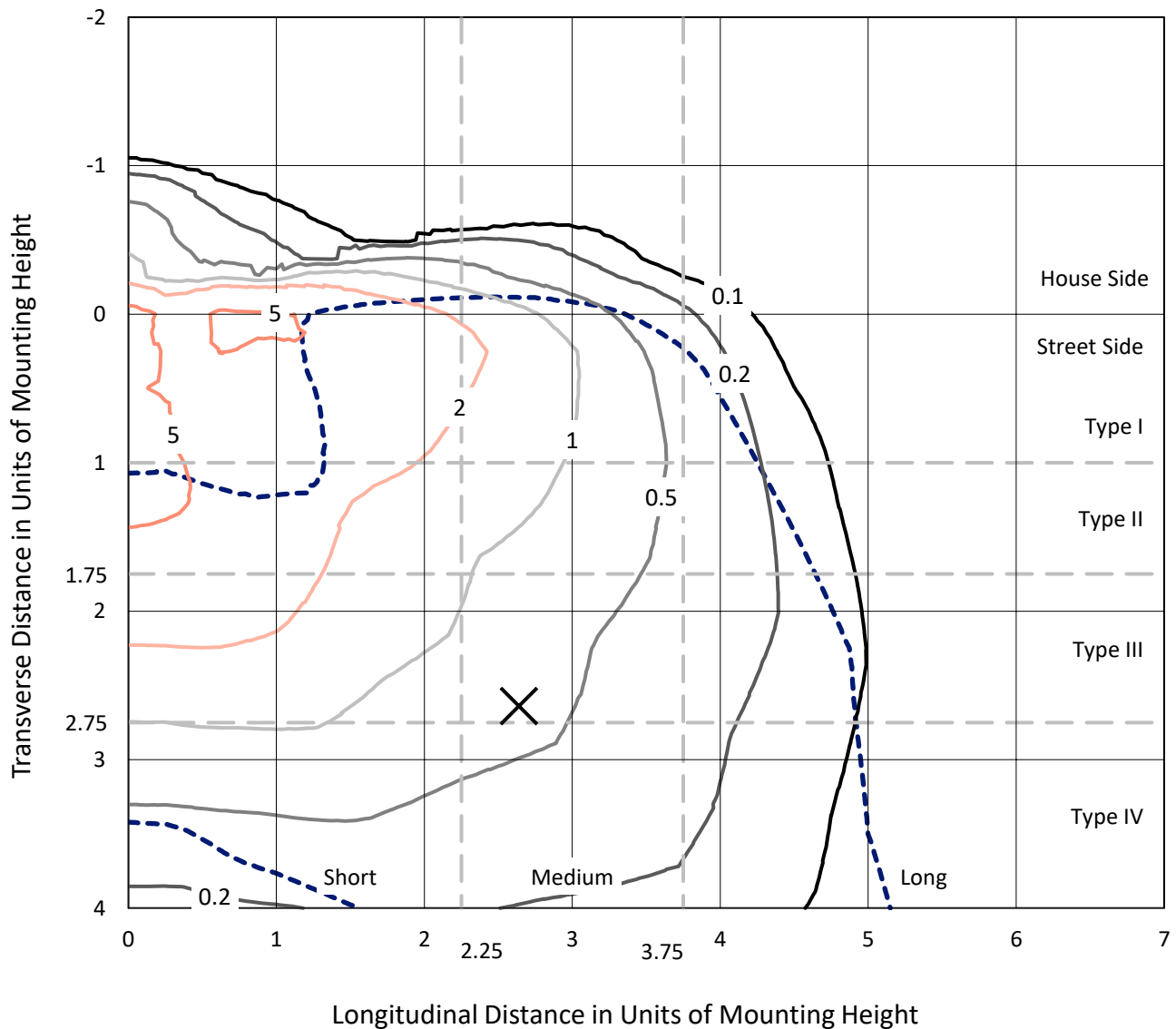


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

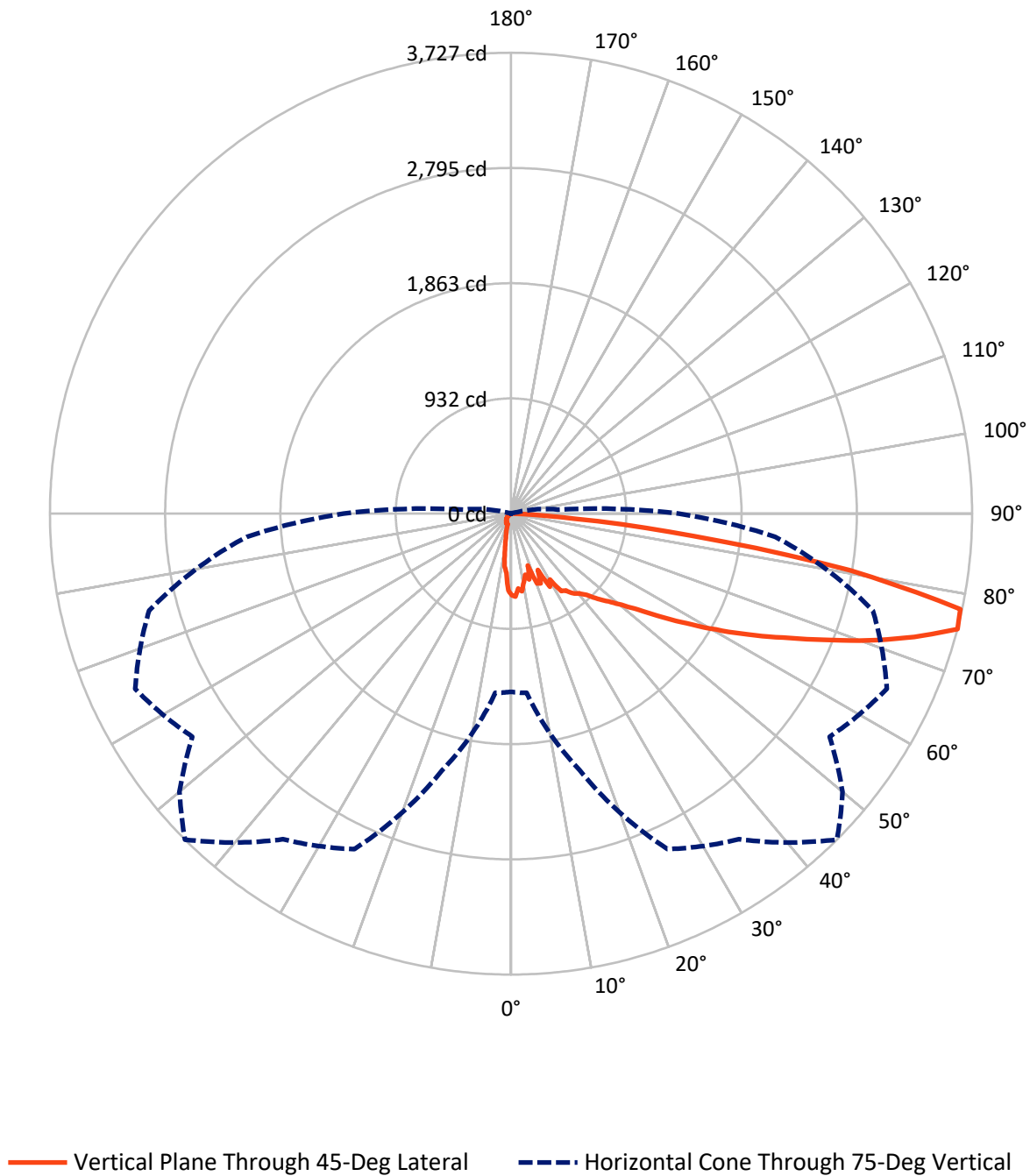


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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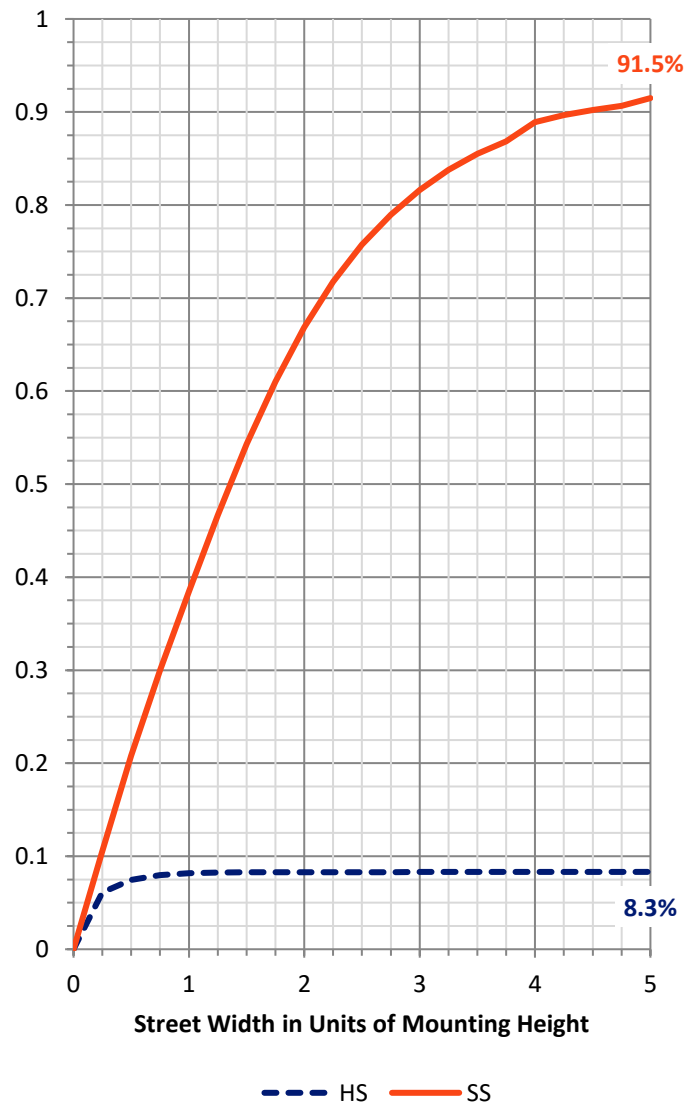
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	450.9	0.0	450.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4919.3	0.0	4919.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	5370.2	0.0	5370.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	1.0
10°-20°	112.4	2.1
20°-30°	190.1	3.5
30°-40°	350.0	6.5
40°-50°	574.4	10.7
50°-60°	1022.4	19.0
60°-70°	1529.8	28.5
70°-80°	1362.0	25.4
80°-90°	177.9	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°	5370.2	100.0
0°-180°	5370.2	100.0

Coefficient of Utilization



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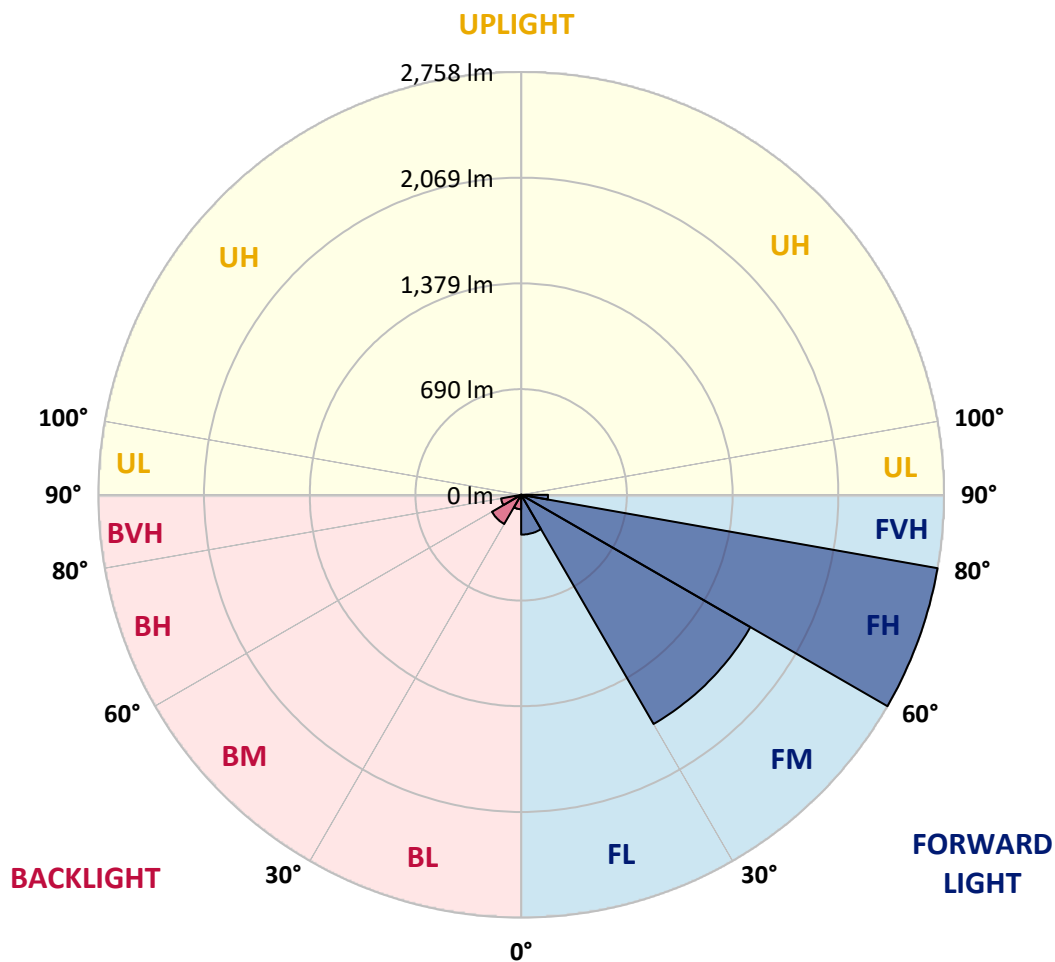
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.6	4.8			
FM	(30°-60°)	1726.3	32.1			
FH	(60°-80°)	2758.3	51.4			G2/5000
FVH	(80°-90°)	175.2	3.3			G2/225
BL	(0°-30°)	94.1	1.8	B0/110		
BM	(30°-60°)	220.6	4.1	B1/1000		
BH	(60°-80°)	133.5	2.5	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5
2.5°	612.6	658.5	663.9	666.5	671.9	674.6	674.6	674.6	674.6	671.9	671.9
5°	647.7	645.0	642.3	639.6	636.9	631.5	626.1	618.0	612.6	607.2	601.8
7.5°	634.2	636.9	645.0	650.4	647.7	645.0	650.4	653.1	645.0	634.2	623.4
10°	739.4	734.0	728.6	723.2	715.1	707.0	642.3	577.5	572.1	564.0	558.6
12.5°	647.7	728.6	728.6	728.6	728.6	728.6	685.4	642.3	574.8	507.3	429.1
15°	809.6	806.9	796.1	785.3	712.4	636.9	596.4	555.9	555.9	553.2	520.8
17.5°	671.9	671.9	725.9	777.2	747.5	717.8	661.2	604.5	523.5	439.9	472.3
20°	850.1	850.1	839.3	828.5	704.3	580.2	585.6	591.0	596.4	601.8	499.2
22.5°	698.9	693.5	688.1	682.7	696.2	709.7	599.1	485.7	550.5	612.6	477.6
25°	852.8	860.8	855.5	847.4	736.7	626.1	650.4	671.9	588.3	504.6	585.6
27.5°	731.3	723.2	712.4	698.9	707.0	715.1	663.9	609.9	639.6	669.2	537.0
30°	895.9	898.6	893.2	887.8	782.6	677.3	674.6	669.2	645.0	618.0	604.5
32.5°	1109.1	1087.5	1012.0	936.4	871.6	806.9	755.6	704.3	725.9	744.8	671.9
35°	1211.7	1171.2	1138.8	1103.7	995.8	885.1	823.1	758.3	761.0	763.7	734.0
37.5°	1311.5	1252.1	1211.7	1171.2	1041.7	912.1	844.7	777.2	798.8	817.7	785.3
40°	1346.6	1314.2	1289.9	1265.6	1128.0	987.7	909.4	828.5	839.3	847.4	836.6
42.5°	1435.6	1430.2	1416.8	1400.6	1236.0	1068.6	974.2	879.7	890.5	898.6	893.2
45°	1648.8	1640.7	1640.7	1638.0	1424.9	1209.0	1084.8	960.7	971.5	982.3	976.9
47.5°	1924.1	1910.6	1894.4	1875.5	1648.8	1419.5	1241.3	1060.5	1060.5	1060.5	1068.6
50°	2212.8	2193.9	2158.9	2121.1	1891.7	1662.3	1435.6	1209.0	1184.7	1157.7	1187.4
52.5°	2512.4	2480.0	2420.6	2358.6	2156.2	1953.8	1697.4	1438.3	1365.5	1289.9	1327.7
55°	2674.3	2639.2	2598.7	2555.6	2390.9	2223.6	1961.9	1700.1	1586.8	1470.7	1511.2
57.5°	2806.5	2798.4	2779.5	2760.7	2633.8	2507.0	2245.2	1980.8	1826.9	1673.1	1708.2
60°	2987.3	2976.5	2984.6	2992.7	2895.6	2798.4	2550.2	2299.2	2102.2	1902.5	1891.7
62.5°	3122.3	3119.6	3160.0	3200.5	3149.2	3095.3	2817.3	2536.7	2345.1	2150.8	2096.8
65°	2998.1	3033.2	3184.3	3335.4	3327.4	3316.6	3057.5	2795.7	2606.8	2415.2	2345.1
67.5°	2736.4	2752.6	2976.5	3197.8	3295.0	3389.4	3205.9	3019.7	2871.3	2720.2	2590.6
70°	2490.8	2525.9	2722.9	2919.9	3170.8	3421.8	3276.1	3130.4	3100.7	3068.3	2901.0
72.5°	2253.3	2315.4	2498.9	2682.4	3017.0	3348.9	3262.6	3176.2	3292.3	3408.3	3208.6
75°	1441.0	1454.5	1802.7	2148.1	2571.7	2992.7	3103.4	3214.0	3470.4	3726.7	3497.4
77.5°	421.0	466.9	728.6	990.4	1476.1	1959.2	2337.0	2714.8	3214.0	3713.2	3432.6
80°	143.0	153.8	191.6	226.7	485.7	744.8	1182.0	1616.5	2196.6	2776.8	2579.8
82.5°	70.2	72.9	91.8	107.9	164.6	221.3	445.3	666.5	1076.7	1484.2	1519.3
85°	21.6	21.6	32.4	43.2	70.2	97.1	167.3	234.8	372.4	507.3	429.1
87.5°	5.4	5.4	8.1	10.8	16.2	21.6	21.6	21.6	16.2	10.8	13.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5
2.5°	674.6	674.6	674.6	671.9	666.5	663.9	658.5	653.1	647.7	645.0	639.6
5°	593.7	628.8	661.2	663.9	663.9	655.8	647.7	639.6	631.5	623.4	615.3
7.5°	609.9	591.0	572.1	574.8	577.5	574.8	569.4	555.9	545.1	523.5	499.2
10°	488.4	475.0	458.8	464.2	469.6	483.0	496.5	485.7	469.6	429.1	385.9
12.5°	480.3	477.6	472.3	431.8	388.6	410.2	429.1	418.3	402.1	361.6	318.4
15°	410.2	412.9	412.9	453.4	493.8	510.0	523.5	510.0	491.1	437.2	380.5
17.5°	528.9	501.9	475.0	458.8	439.9	445.3	450.7	391.3	410.2	375.1	337.3
20°	547.8	458.8	369.7	442.6	515.4	539.7	564.0	550.5	526.2	439.9	350.8
22.5°	499.2	531.6	564.0	518.1	472.3	442.6	410.2	396.7	380.5	342.7	304.9
25°	618.0	528.9	437.2	523.5	607.2	612.6	618.0	593.7	566.7	458.8	350.8
27.5°	553.2	582.9	609.9	628.8	647.7	671.9	696.2	669.2	604.5	477.6	348.1
30°	658.5	698.9	739.4	801.5	863.5	882.4	898.6	868.9	817.7	604.5	388.6
32.5°	688.1	769.1	850.1	874.3	895.9	920.2	944.5	920.2	858.1	599.1	337.3
35°	769.1	825.8	879.7	917.5	955.3	976.9	998.5	982.3	898.6	591.0	283.4
37.5°	793.4	868.9	941.8	985.0	1025.5	1044.4	1060.5	1060.5	941.8	585.6	226.7
40°	831.2	925.6	1020.1	1060.5	1098.3	1128.0	1155.0	1165.8	990.4	582.9	172.7
42.5°	906.7	990.4	1074.0	1138.8	1200.9	1244.0	1287.2	1295.3	1047.1	591.0	132.2
45°	987.7	1076.7	1165.8	1252.1	1338.5	1400.6	1459.9	1454.5	1114.5	612.6	107.9
47.5°	1103.7	1187.4	1271.0	1416.8	1559.8	1619.1	1675.8	1638.0	1184.7	639.6	94.5
50°	1222.5	1325.0	1427.6	1613.8	1797.3	1851.2	1902.5	1824.2	1252.1	671.9	89.1
52.5°	1376.3	1497.7	1619.1	1832.3	2045.5	2094.1	2142.7	1983.5	1303.4	693.5	83.7
55°	1557.1	1713.6	1870.1	2072.5	2272.2	2328.9	2385.5	2140.0	1327.7	704.3	81.0
57.5°	1775.7	1956.5	2134.6	2320.8	2504.3	2582.5	2658.1	2293.8	1338.5	707.0	75.6
60°	1988.9	2188.6	2388.2	2547.5	2706.7	2828.1	2946.9	2444.9	1333.1	701.6	67.5
62.5°	2185.9	2407.1	2625.7	2774.1	2922.6	3068.3	3214.0	2566.4	1298.0	677.3	54.0
65°	2390.9	2625.7	2857.8	2987.3	3116.9	3305.8	3492.0	2671.6	1249.4	645.0	37.8
67.5°	2577.1	2801.1	3025.1	3170.8	3316.6	3502.8	3686.3	2698.6	1179.3	604.5	27.0
70°	2733.7	2976.5	3216.7	3365.1	3513.6	3608.0	3699.8	2579.8	1039.0	528.9	18.9
72.5°	2949.6	3168.1	3384.0	3459.6	3532.4	3367.8	3200.5	2150.8	779.9	399.4	16.2
75°	3143.8	3249.1	3351.6	3189.7	3027.8	2585.2	2142.7	1354.7	380.5	199.7	16.2
77.5°	2946.9	2890.2	2833.5	2337.0	1837.7	1365.5	890.5	531.6	118.7	64.8	10.8
80°	2134.6	1875.5	1613.8	1117.2	618.0	412.9	205.1	118.7	29.7	18.9	8.1
82.5°	1149.6	887.8	623.4	402.1	180.8	121.4	59.4	40.5	13.5	10.8	5.4
85°	415.6	329.2	240.2	186.2	132.2	78.3	21.6	13.5	8.1	8.1	5.4
87.5°	37.8	43.2	48.6	37.8	24.3	16.2	5.4	5.4	5.4	5.4	2.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5
2.5°	636.9	634.2	631.5	626.1	623.4	620.7	601.8	582.9	561.3	539.7	539.7
5°	580.2	545.1	526.2	507.3	493.8	480.3	477.6	472.3	466.9	461.5	458.8
7.5°	485.7	472.3	461.5	450.7	437.2	423.7	410.2	396.7	385.9	375.1	350.8
10°	364.3	342.7	326.5	310.3	302.2	291.4	275.3	256.4	256.4	256.4	253.7
12.5°	315.7	313.0	272.6	229.4	215.9	202.4	199.7	197.0	191.6	183.5	172.7
15°	313.0	242.9	207.8	170.0	161.9	151.1	134.9	116.0	113.3	107.9	121.4
17.5°	283.4	229.4	188.9	148.4	118.7	89.1	94.5	97.1	110.6	121.4	129.5
20°	256.4	161.9	134.9	105.2	97.1	86.4	91.8	97.1	94.5	89.1	102.5
22.5°	240.2	172.7	126.8	81.0	86.4	91.8	86.4	78.3	91.8	105.2	113.3
25°	232.1	110.6	99.8	86.4	81.0	75.6	86.4	94.5	89.1	83.7	99.8
27.5°	229.4	110.6	94.5	75.6	81.0	86.4	83.7	78.3	89.1	97.1	94.5
30°	245.6	99.8	89.1	78.3	75.6	72.9	78.3	83.7	83.7	81.0	94.5
32.5°	218.6	99.8	89.1	75.6	75.6	72.9	72.9	72.9	81.0	89.1	94.5
35°	188.9	91.8	83.7	72.9	70.2	67.5	70.2	70.2	78.3	83.7	94.5
37.5°	156.5	86.4	78.3	67.5	64.8	62.1	62.1	59.4	67.5	75.6	83.7
40°	126.8	81.0	72.9	62.1	59.4	56.7	56.7	56.7	62.1	64.8	70.2
42.5°	105.2	75.6	67.5	56.7	54.0	51.3	51.3	48.6	51.3	54.0	56.7
45°	91.8	72.9	64.8	54.0	51.3	45.9	43.2	40.5	40.5	40.5	40.5
47.5°	81.0	67.5	62.1	54.0	48.6	40.5	37.8	32.4	29.7	27.0	24.3
50°	75.6	62.1	56.7	48.6	43.2	35.1	29.7	24.3	21.6	16.2	16.2
52.5°	70.2	56.7	51.3	43.2	35.1	27.0	21.6	13.5	13.5	10.8	10.8
55°	67.5	54.0	45.9	37.8	29.7	18.9	13.5	8.1	8.1	5.4	5.4
57.5°	64.8	51.3	43.2	32.4	21.6	10.8	8.1	5.4	5.4	5.4	5.4
60°	56.7	45.9	35.1	21.6	13.5	5.4	5.4	2.7	5.4	5.4	5.4
62.5°	45.9	35.1	24.3	13.5	8.1	2.7	2.7	2.7	5.4	5.4	5.4
65°	32.4	24.3	16.2	8.1	5.4	2.7	2.7	2.7	2.7	2.7	2.7
67.5°	24.3	18.9	13.5	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7
70°	16.2	13.5	10.8	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7
72.5°	13.5	10.8	8.1	2.7	2.7	0.0	2.7	2.7	2.7	2.7	2.7
75°	13.5	10.8	8.1	2.7	2.7	0.0	2.7	2.7	2.7	2.7	2.7
77.5°	10.8	8.1	5.4	2.7	2.7	0.0	2.7	5.4	5.4	5.4	5.4
80°	8.1	5.4	5.4	2.7	2.7	0.0	2.7	5.4	5.4	5.4	5.4
82.5°	5.4	5.4	5.4	2.7	2.7	0.0	5.4	8.1	8.1	5.4	5.4
85°	5.4	2.7	2.7	2.7	2.7	2.7	5.4	8.1	8.1	8.1	5.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	5.4	8.1	8.1	8.1	5.4
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°	658.5	658.5	658.5	658.5
2.5°	537.0	537.0	534.3	534.3
5°	453.4	453.4	450.7	450.7
7.5°	326.5	321.1	313.0	315.7
10°	251.0	245.6	240.2	245.6
12.5°	161.9	164.6	164.6	156.5
15°	132.2	143.0	151.1	151.1
17.5°	137.6	137.6	134.9	134.9
20°	116.0	126.8	137.6	137.6
22.5°	118.7	113.3	107.9	107.9
25°	113.3	121.4	126.8	126.8
27.5°	91.8	94.5	97.1	97.1
30°	105.2	110.6	113.3	113.3
32.5°	99.8	105.2	107.9	110.6
35°	102.5	107.9	110.6	110.6
37.5°	91.8	94.5	97.1	97.1
40°	72.9	75.6	78.3	78.3
42.5°	56.7	56.7	54.0	56.7
45°	37.8	37.8	35.1	37.8
47.5°	21.6	21.6	21.6	21.6
50°	13.5	13.5	13.5	13.5
52.5°	8.1	8.1	8.1	8.1
55°	5.4	5.4	5.4	5.4
57.5°	5.4	5.4	2.7	2.7
60°	2.7	2.7	2.7	2.7
62.5°	2.7	2.7	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°	2.7	2.7	0.0	0.0
77.5°	2.7	2.7	0.0	0.0
80°	2.7	2.7	0.0	0.0
82.5°	2.7	2.7	0.0	0.0
85°	2.7	2.7	2.7	0.0
87.5°	2.7	2.7	2.7	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)