

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: P561168

Luminaire Tested: **SDL-PA1-80-830-U-SL3-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-15)
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-SL3-A
Description: Springdale
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6898.4 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium
BUG Rating: B1 - U3 - G3

Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): 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

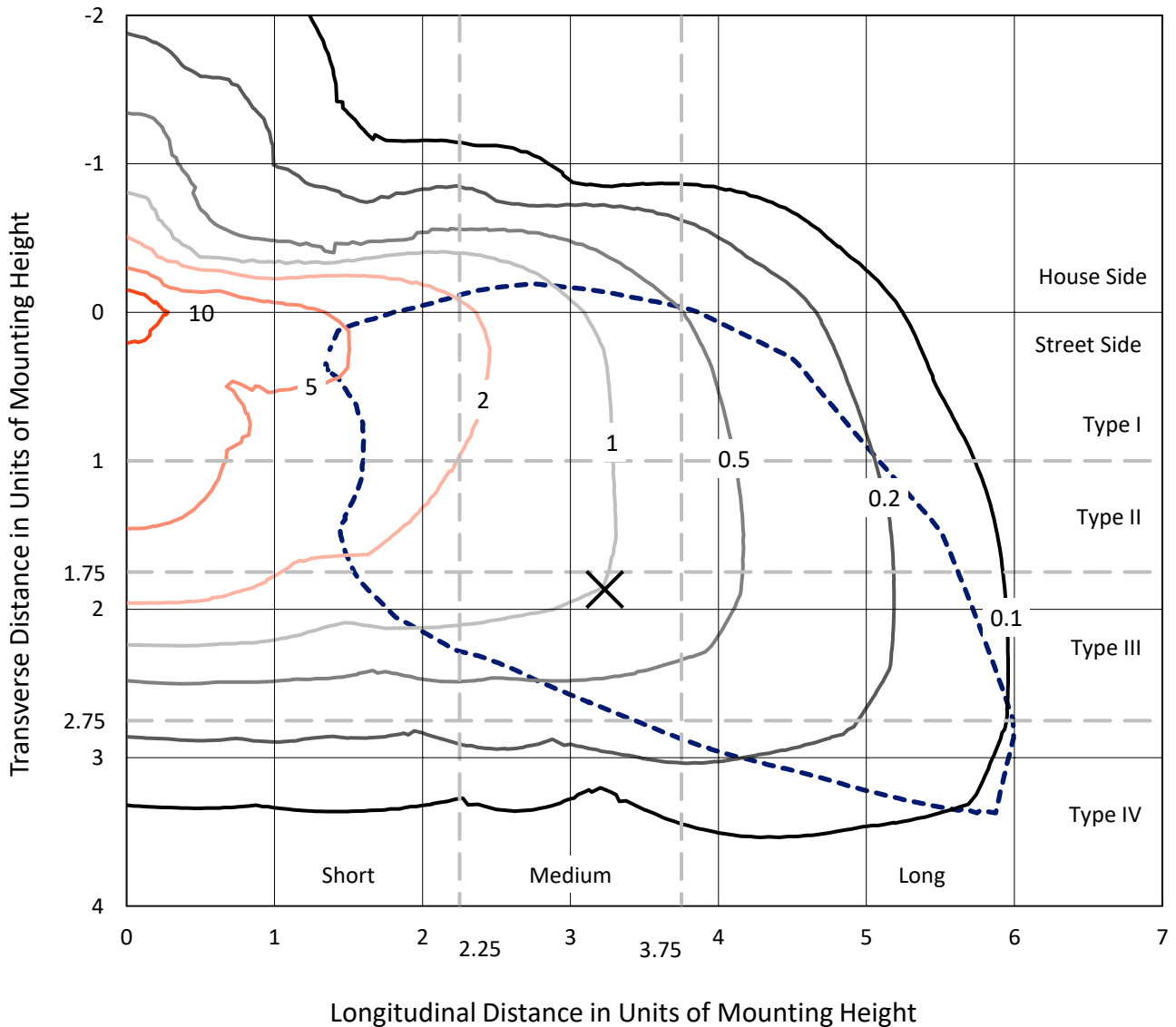


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Iso-Footcandle Lines of Horizontal Illumination

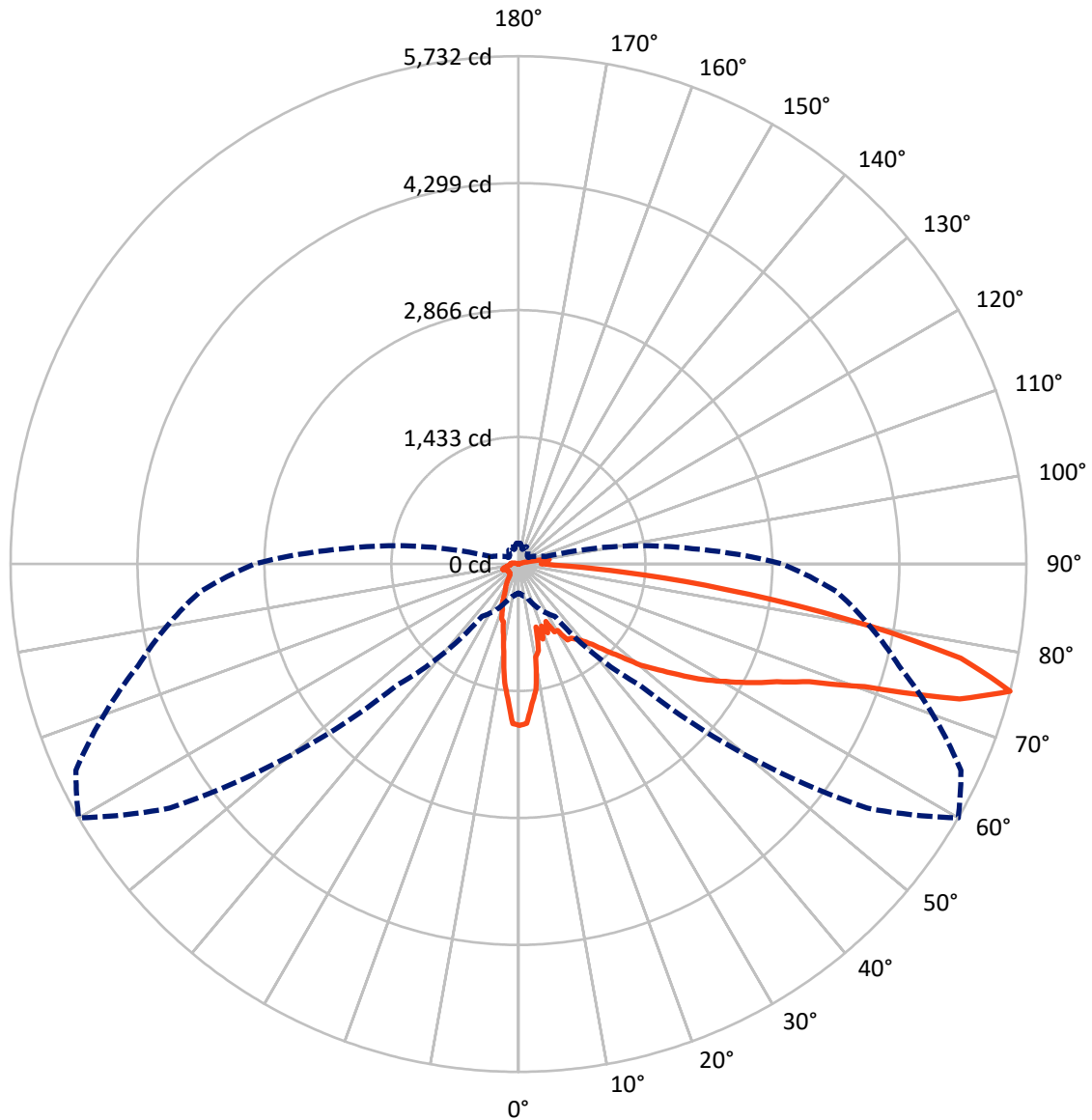
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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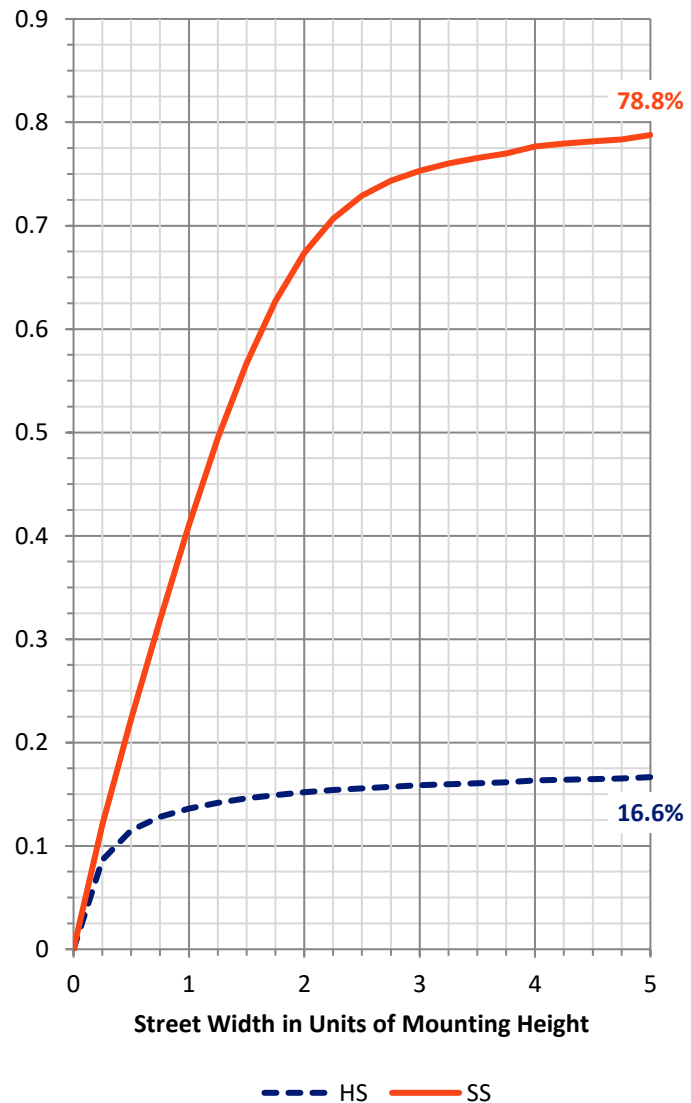
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1211.0	91.8	1302.9
	% Fixture	17.6	1.3	18.9
Street Side	Lumens	5498.4	97.1	5595.5
	% Fixture	79.7	1.4	81.1
Total	Lumens	6709.4	189.0	6898.4
	% Fixture	97.3	2.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	1.9
10°-20°	238.6	3.5
20°-30°	309.2	4.5
30°-40°	515.2	7.5
40°-50°	825.0	12.0
50°-60°	1266.5	18.4
60°-70°	1582.5	22.9
70°-80°	1443.4	20.9
80°-90°	395.0	5.7
90°-100°	132.6	1.9
100°-110°	30.1	0.4
110°-120°	9.6	0.1
120°-130°	8.9	0.1
130°-140°	4.2	0.1
140°-150°	1.8	0.0
150°-160°	1.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6709.4	97.3
0°-180°	6898.4	100.0



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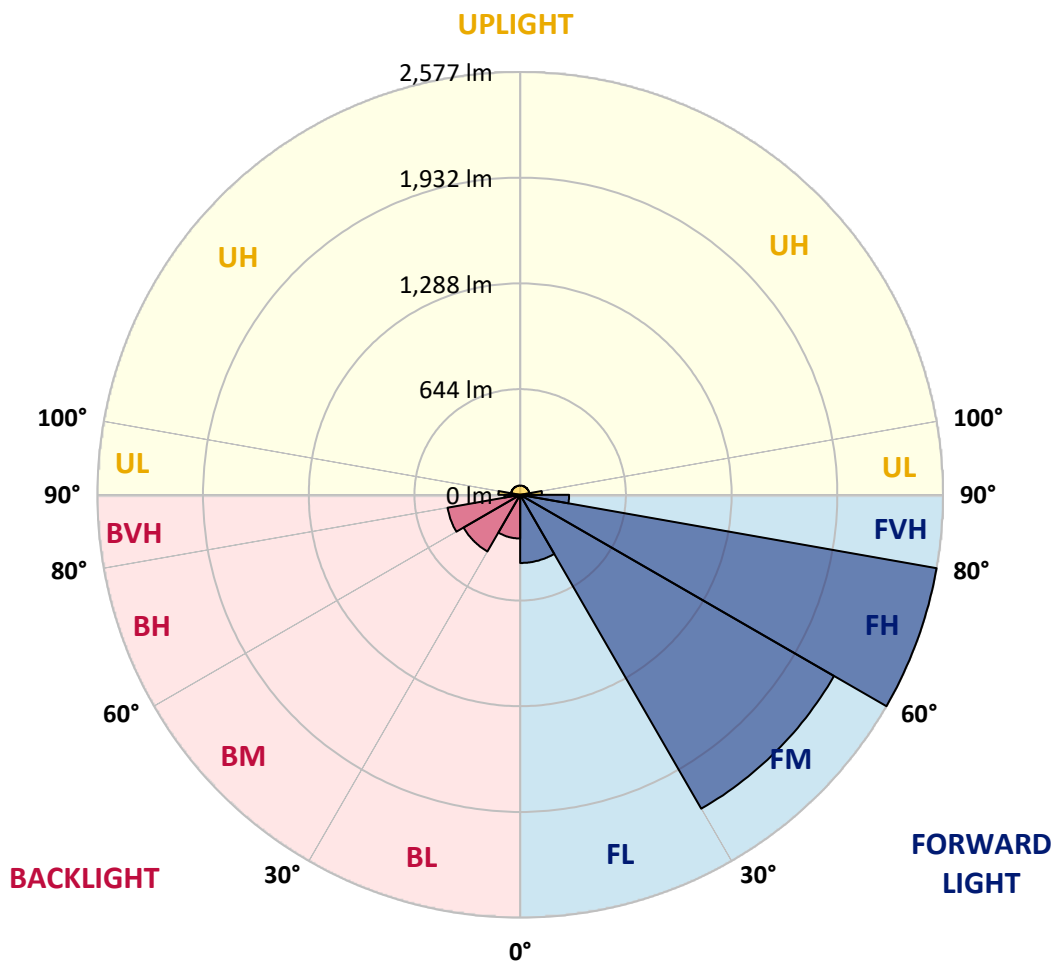
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.5	6.0			
FM	(30°-60°)	2208.2	32.0			
FH	(60°-80°)	2576.6	37.4			G2/5000
FVH	(80°-90°)	298.1	4.3			G3/500
BL	(0°-30°)	266.3	3.9	B1/500		
BM	(30°-60°)	398.5	5.8	B1/1000		
BH	(60°-80°)	449.3	6.5	B1/500		G1/500
BVH	(80°-90°)	96.9	1.4			G1/100
UL	(90°-100°)	132.6	1.9		U3/500	
UH	(100°-180°)	56.4	0.8		U3/500	

BUG Rating: B1-U3-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1528.4	1671.1	1657.6	1767.9	1767.9	1792.1	1802.9	1800.2	1811.0	1821.7	1819.1
5°	1407.3	1410.0	1420.8	1445.0	1453.1	1461.2	1488.1	1582.3	1741.0	1778.7	1778.7
7.5°	1162.5	1227.1	1307.8	1321.2	1369.7	1393.9	1423.5	1428.9	1321.2	1515.0	1533.8
10°	1178.6	1181.3	1175.9	1205.5	1170.5	1157.1	1062.9	1068.3	1079.1	1151.7	1297.0
12.5°	923.0	976.8	1092.5	1146.3	1060.2	966.0	960.7	1006.4	1025.2	917.6	1143.6
15°	1054.8	1060.2	1062.9	1065.6	791.1	917.6	801.9	737.3	826.1	1041.4	1184.0
17.5°	826.1	831.5	958.0	955.3	871.9	705.0	871.9	890.7	855.7	885.3	990.3
20°	968.7	971.4	963.3	748.1	764.2	863.8	750.8	748.1	791.1	1019.9	1151.7
22.5°	796.5	785.7	783.1	855.7	777.7	831.5	729.2	844.9	917.6	909.5	869.2
25°	998.3	995.6	955.3	745.4	796.5	705.0	853.0	715.8	793.8	1100.6	1151.7
27.5°	933.7	896.1	828.8	861.1	742.7	826.1	758.8	866.5	914.9	1130.2	1334.7
30°	1208.2	1181.3	1103.3	869.2	820.7	761.5	812.7	869.2	1041.4	1455.8	1525.7
32.5°	1595.7	1566.1	1286.3	1065.6	861.1	901.5	855.7	1019.9	1149.0	1485.4	1539.2
35°	1714.1	1673.7	1536.5	1291.6	987.6	958.0	912.2	1027.9	1165.2	1563.4	1563.4
37.5°	1781.4	1778.7	1714.1	1426.2	1114.0	1097.9	982.2	1079.1	1229.7	1638.8	1622.6
40°	1792.1	1805.6	1835.2	1544.6	1264.7	1229.7	1073.7	1149.0	1321.2	1730.3	1698.0
42.5°	1880.9	1905.2	1972.4	1700.7	1415.4	1383.1	1181.3	1251.3	1420.8	1864.8	1856.7
45°	2023.6	2047.8	2107.0	1872.9	1547.3	1525.7	1356.2	1399.3	1582.3	2101.6	2026.3
47.5°	2319.6	2325.0	2300.7	2015.5	1689.9	1689.9	1525.7	1566.1	1727.6	2319.6	2246.9
50°	2615.6	2583.3	2475.6	2185.0	1832.5	1872.9	1700.7	1794.8	1891.7	2540.2	2440.7
52.5°	2779.7	2774.3	2629.0	2314.2	1956.3	2034.3	1902.5	1983.2	2042.4	2763.6	2623.6
55°	2785.1	2777.0	2677.5	2376.1	2072.0	2201.2	2104.3	2209.2	2252.3	2938.5	2873.9
57.5°	2696.3	2717.8	2666.7	2411.1	2128.5	2362.6	2349.2	2462.2	2483.7	3145.7	3046.1
60°	2556.4	2553.7	2615.6	2443.4	2214.6	2516.0	2575.2	2690.9	2806.6	3304.4	3199.5
62.5°	2206.6	2230.8	2405.7	2443.4	2308.8	2715.1	2828.2	2949.2	3091.9	3449.8	3336.7
65°	1727.6	1741.0	2015.5	2265.8	2335.7	2981.5	3083.8	3204.9	3355.6	3597.8	3490.1
67.5°	1044.1	1132.9	1369.7	1864.8	2198.5	3301.8	3490.1	3541.2	3627.4	3764.6	3716.2
70°	594.7	621.6	734.6	1173.2	1835.2	3404.0	4238.2	4146.7	4057.9	4090.2	3998.7
72.5°	452.1	468.2	519.3	694.3	1097.9	3005.8	4867.9	5206.9	4824.8	4429.2	3990.6
75°	328.3	344.4	395.6	559.7	721.2	1926.7	4803.3	5731.7	5511.0	4445.4	3608.5
77.5°	204.5	207.2	236.8	476.3	648.5	966.0	3759.2	5104.7	5201.5	4152.1	2992.3
80°	142.6	145.3	150.7	255.6	597.4	775.0	2524.1	3748.4	3885.7	2890.0	1525.7
82.5°	102.3	107.6	113.0	150.7	387.5	740.0	1571.5	2359.9	2080.1	1046.8	618.9
85°	53.8	59.2	72.7	91.5	156.1	804.6	941.8	1200.1	949.9	425.2	368.7
87.5°	21.5	18.8	16.1	24.2	43.1	309.5	366.0	403.6	312.1	239.5	293.3
90°	18.8	16.1	10.8	13.5	18.8	110.3	231.4	258.3	215.3	234.1	296.0
92.5°	18.8	16.1	10.8	10.8	18.8	110.3	277.2	282.5	223.3	239.5	309.5
95°	18.8	18.8	10.8	10.8	18.8	99.6	328.3	322.9	231.4	252.9	328.3
97.5°	18.8	18.8	8.1	10.8	18.8	67.3	339.1	349.8	226.0	180.3	271.8
100°	18.8	18.8	8.1	8.1	16.1	43.1	236.8	255.6	166.8	59.2	67.3
102.5°	18.8	18.8	8.1	8.1	10.8	29.6	104.9	126.5	99.6	18.8	21.5
105°	18.8	21.5	5.4	5.4	8.1	16.1	45.7	51.1	40.4	13.5	24.2
107.5°	21.5	24.2	5.4	5.4	5.4	8.1	16.1	18.8	10.8	10.8	24.2
110°	24.2	24.2	5.4	5.4	5.4	8.1	5.4	5.4	8.1	10.8	26.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	18.8	16.1	2.7	5.4	5.4	5.4	5.4	5.4	5.4	10.8	26.9
115°	10.8	8.1	2.7	5.4	5.4	5.4	2.7	5.4	8.1	10.8	24.2
117.5°	10.8	8.1	2.7	2.7	2.7	5.4	2.7	2.7	8.1	13.5	29.6
120°	8.1	8.1	2.7	2.7	2.7	2.7	2.7	5.4	5.4	18.8	40.4
122.5°	8.1	8.1	2.7	2.7	2.7	2.7	2.7	5.4	5.4	18.8	40.4
125°	10.8	10.8	5.4	2.7	2.7	2.7	2.7	5.4	5.4	16.1	37.7
127.5°	8.1	8.1	5.4	2.7	2.7	2.7	2.7	5.4	5.4	13.5	29.6
130°	8.1	8.1	5.4	2.7	2.7	2.7	2.7	5.4	2.7	13.5	24.2
132.5°	8.1	8.1	5.4	2.7	2.7	2.7	2.7	2.7	2.7	8.1	18.8
135°	8.1	8.1	5.4	2.7	2.7	2.7	2.7	2.7	2.7	5.4	13.5
137.5°	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4
140°	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
142.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
145°	2.7	2.7	2.7	2.7	5.4	2.7	2.7	2.7	2.7	2.7	2.7
147.5°	2.7	2.7	2.7	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7
150°	5.4	5.4	10.8	8.1	5.4	2.7	2.7	2.7	2.7	2.7	2.7
152.5°	10.8	10.8	10.8	8.1	2.7	2.7	5.4	8.1	2.7	2.7	2.7
155°	8.1	8.1	8.1	2.7	2.7	2.7	2.7	2.7	5.4	8.1	8.1
157.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
160°	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1811.0	1816.4	1811.0	1805.6	1800.2	1784.1	1673.7	1539.2	1528.4	1539.2	1533.8
5°	1765.2	1765.2	1762.5	1576.9	1466.5	1434.3	1426.2	1418.1	1402.0	1393.9	1399.3
7.5°	1523.1	1515.0	1420.8	1254.0	1358.9	1321.2	1299.7	1288.9	1127.5	1068.3	1073.7
10°	1272.8	1272.8	1057.5	998.3	992.9	1009.1	1119.4	1111.3	1089.8	1076.4	1089.8
12.5°	1097.9	1143.6	839.6	898.8	729.2	807.3	882.6	936.4	772.3	726.5	734.6
15°	1165.2	1149.0	923.0	705.0	643.1	678.1	543.6	680.8	670.0	648.5	645.8
17.5°	1017.2	933.7	769.6	662.0	635.1	479.0	465.5	481.7	441.3	403.6	422.5
20°	1106.0	1060.2	815.3	589.3	489.7	435.9	328.3	306.8	390.2	409.0	406.3
22.5°	923.0	769.6	667.3	586.6	395.6	312.1	247.6	271.8	290.6	309.5	317.5
25°	1084.4	1001.0	729.2	438.6	320.2	228.7	223.3	201.8	304.1	347.1	344.4
27.5°	1251.3	1132.9	702.3	411.7	231.4	196.4	180.3	204.5	212.6	239.5	255.6
30°	1399.3	1256.7	812.7	382.1	193.7	148.0	161.5	166.8	207.2	223.3	223.3
32.5°	1393.9	1221.7	726.5	325.6	158.8	134.5	134.5	158.8	183.0	220.7	223.3
35°	1391.2	1194.8	648.5	252.9	139.9	118.4	123.8	150.7	183.0	204.5	207.2
37.5°	1423.5	1186.7	570.5	204.5	126.5	113.0	118.4	142.6	196.4	218.0	218.0
40°	1471.9	1192.1	492.4	174.9	121.1	110.3	113.0	150.7	177.6	196.4	196.4
42.5°	1619.9	1270.1	425.2	161.5	121.1	107.6	107.6	139.9	180.3	212.6	215.3
45°	1730.3	1332.0	374.0	161.5	118.4	102.3	113.0	139.9	158.8	234.1	250.3
47.5°	1907.9	1445.0	325.6	161.5	118.4	99.6	104.9	137.2	166.8	269.1	279.9
50°	2085.5	1558.0	304.1	161.5	118.4	96.9	118.4	131.9	166.8	279.9	287.9
52.5°	2273.8	1698.0	290.6	161.5	118.4	102.3	129.2	158.8	180.3	250.3	247.6
55°	2467.6	1821.7	282.5	166.8	118.4	102.3	139.9	148.0	153.4	193.7	199.1
57.5°	2647.9	1972.4	298.7	166.8	115.7	107.6	131.9	145.3	134.5	169.5	172.2
60°	2790.5	2109.7	339.1	161.5	113.0	107.6	134.5	158.8	150.7	185.7	191.1
62.5°	2954.6	2255.0	433.2	164.1	113.0	110.3	150.7	172.2	153.4	183.0	193.7
65°	3169.9	2475.6	538.2	180.3	115.7	115.7	153.4	185.7	153.4	180.3	180.3
67.5°	3412.1	2680.2	538.2	209.9	123.8	123.8	153.4	196.4	164.1	180.3	180.3
70°	3589.7	2690.9	444.0	231.4	134.5	131.9	158.8	204.5	166.8	199.1	196.4
72.5°	3393.2	2397.6	368.7	228.7	145.3	137.2	180.3	209.9	169.5	226.0	223.3
75°	2978.8	1977.8	320.2	204.5	131.9	139.9	188.4	215.3	172.2	236.8	231.4
77.5°	2349.2	1442.3	271.8	172.2	115.7	134.5	193.7	220.7	177.6	250.3	247.6
80°	1138.3	723.9	220.7	145.3	104.9	129.2	193.7	218.0	174.9	258.3	258.3
82.5°	514.0	360.6	150.7	99.6	104.9	131.9	199.1	220.7	174.9	252.9	250.3
85°	333.7	247.6	96.9	78.0	104.9	150.7	201.8	209.9	166.8	234.1	234.1
87.5°	250.3	172.2	51.1	48.4	115.7	164.1	201.8	193.7	161.5	220.7	215.3
90°	255.6	183.0	53.8	48.4	123.8	166.8	201.8	191.1	156.1	199.1	199.1
92.5°	277.2	201.8	61.9	53.8	126.5	150.7	191.1	172.2	145.3	172.2	169.5
95°	301.4	226.0	72.7	61.9	110.3	110.3	150.7	139.9	123.8	131.9	131.9
97.5°	220.7	161.5	64.6	67.3	83.4	70.0	99.6	94.2	64.6	59.2	56.5
100°	64.6	53.8	59.2	64.6	59.2	51.1	75.3	72.7	43.1	21.5	21.5
102.5°	24.2	26.9	53.8	59.2	45.7	37.7	53.8	59.2	35.0	5.4	8.1
105°	21.5	18.8	37.7	45.7	26.9	21.5	26.9	37.7	21.5	5.4	5.4
107.5°	24.2	18.8	18.8	24.2	10.8	10.8	10.8	13.5	8.1	5.4	5.4
110°	24.2	18.8	10.8	10.8	8.1	8.1	8.1	5.4	5.4	5.4	5.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.2	18.8	10.8	10.8	8.1	8.1	5.4	5.4	8.1	13.5	13.5
115°	26.9	21.5	10.8	8.1	5.4	8.1	5.4	2.7	8.1	18.8	18.8
117.5°	32.3	24.2	8.1	8.1	5.4	5.4	5.4	2.7	8.1	24.2	26.9
120°	40.4	29.6	10.8	5.4	5.4	5.4	5.4	2.7	10.8	26.9	29.6
122.5°	40.4	32.3	10.8	5.4	5.4	2.7	2.7	5.4	10.8	26.9	29.6
125°	37.7	29.6	10.8	5.4	5.4	2.7	2.7	2.7	13.5	26.9	29.6
127.5°	29.6	26.9	10.8	5.4	2.7	2.7	2.7	5.4	10.8	24.2	24.2
130°	24.2	21.5	8.1	5.4	2.7	2.7	2.7	2.7	10.8	18.8	21.5
132.5°	18.8	16.1	8.1	5.4	2.7	2.7	2.7	2.7	10.8	18.8	18.8
135°	13.5	13.5	5.4	2.7	2.7	2.7	2.7	2.7	8.1	13.5	16.1
137.5°	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	5.4	8.1	8.1
140°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	5.4	5.4
142.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7	2.7	5.4
145°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7	2.7	2.7
147.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7	2.7	2.7
150°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7	2.7	2.7
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7	5.4	5.4
155°	8.1	8.1	8.1	5.4	2.7	0.0	0.0	0.0	2.7	2.7	5.4
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	2.7	2.7	2.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)