

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: P560645

Luminaire Tested: **SDL-PA1-50-830-U-T2R-HSS-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-17)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-50-830-U-T2R-HSS-A
Description: Springdale
(1) 80 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II R OPTICS,
HOUSE SIDE SHIELD AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3886.9 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Medium
BUG Rating: B1 - U3 - G1

Input Watts (W): 52.4
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

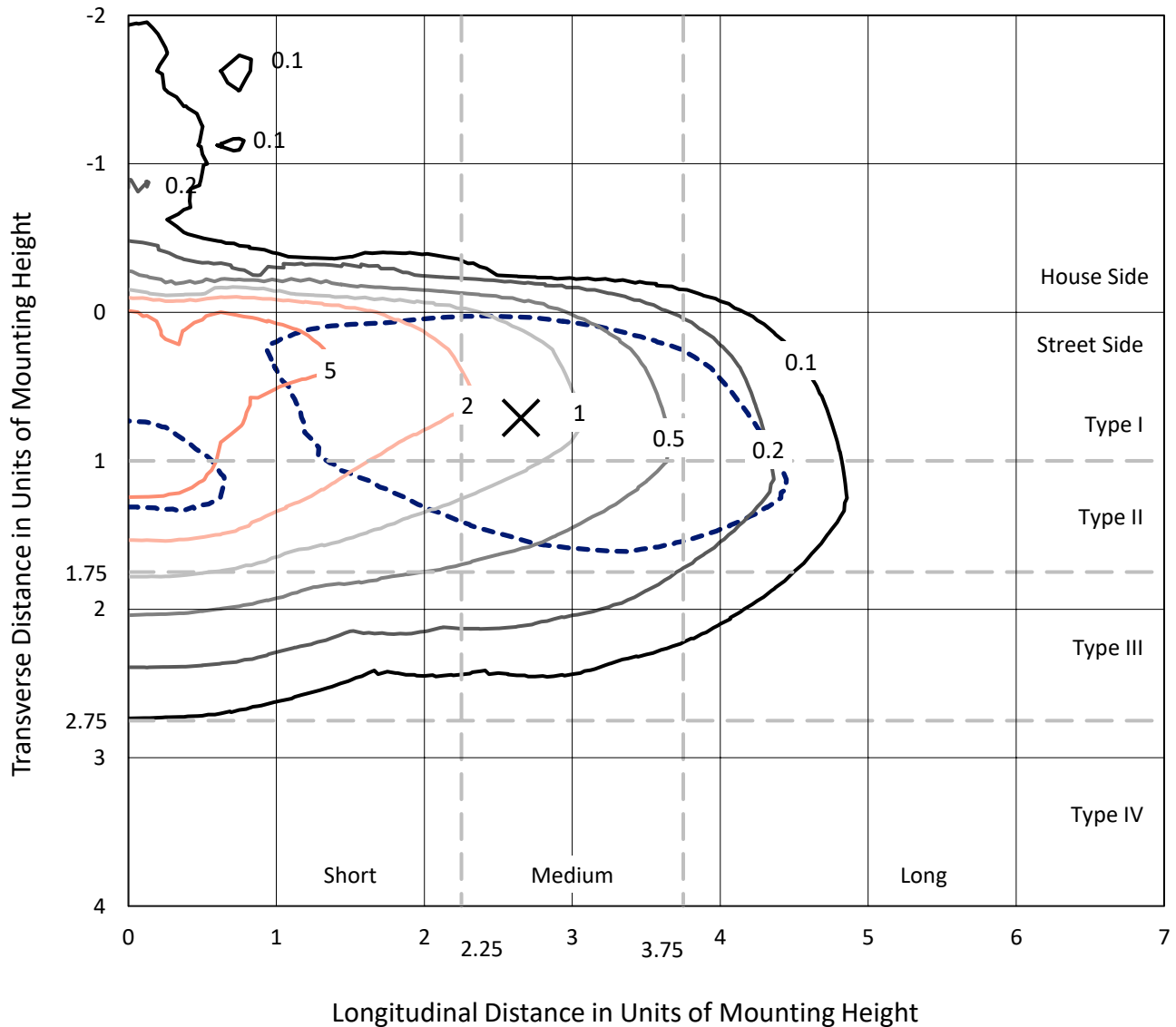


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

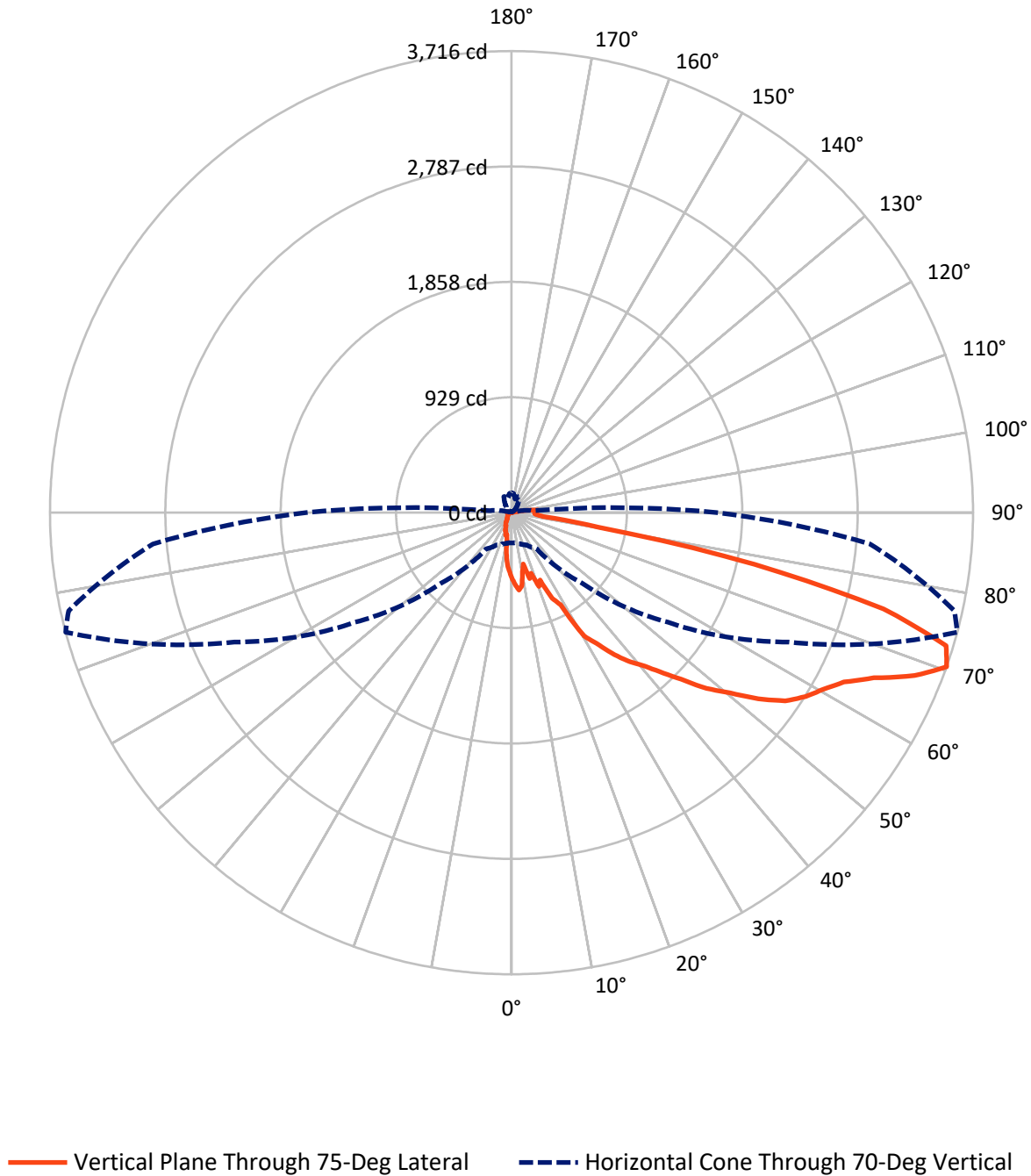


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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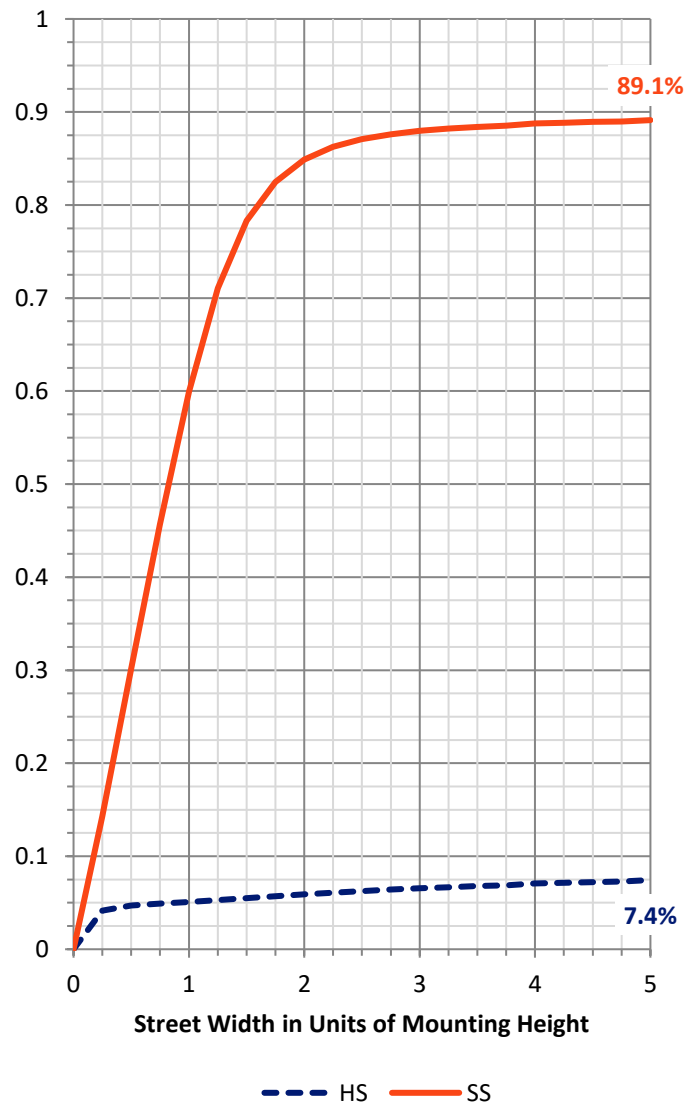
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	316.7	39.4	356.1
	% Fixture	8.1	1.0	9.2
Street Side	Lumens	3481.3	49.6	3530.8
	% Fixture	89.6	1.3	90.8
Total	Lumens	3798.0	89.0	3886.9
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.1
10°-20°	102.5	2.6
20°-30°	192.4	4.9
30°-40°	431.7	11.1
40°-50°	710.4	18.3
50°-60°	870.8	22.4
60°-70°	815.6	21.0
70°-80°	531.1	13.7
80°-90°	101.5	2.6
90°-100°	58.2	1.5
100°-110°	13.1	0.3
110°-120°	6.7	0.2
120°-130°	5.6	0.1
130°-140°	2.8	0.1
140°-150°	1.4	0.0
150°-160°	1.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3798.0	97.7
0°-180°	3886.9	100.0

Coefficient of Utilization



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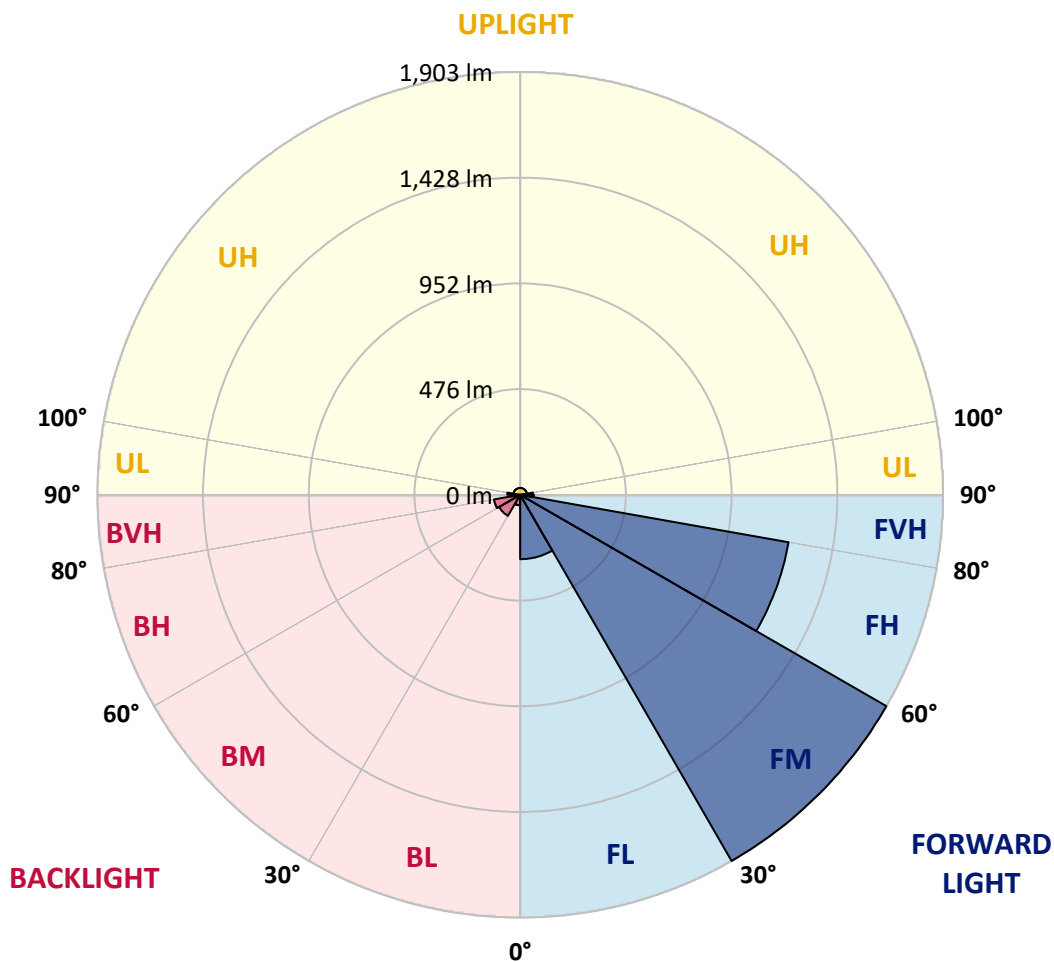
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.6	7.4			
FM	(30°-60°)	1903.5	49.0			
FH	(60°-80°)	1226.8	31.6			G1/1800
FVH	(80°-90°)	61.4	1.6			G1/100
BL	(0°-30°)	47.3	1.2	B0/110		
BM	(30°-60°)	109.5	2.8	B0/220		
BH	(60°-80°)	119.9	3.1	B1/500		G1/500
BVH	(80°-90°)	40.0	1.0			G1/100
UL	(90°-100°)	58.2	1.5		U3/500	
UH	(100°-180°)	30.7	0.8		U2/50	

BUG Rating: B1-U3-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	528.8	528.8	528.8	528.8	528.8	528.8	528.8	528.8	528.8	528.8	528.8
2.5°	590.0	627.1	638.2	656.8	666.1	654.9	634.5	608.6	580.7	573.3	549.2
5°	669.8	662.4	656.8	656.8	645.7	621.5	599.3	667.9	625.3	616.0	567.7
7.5°	608.6	666.1	708.7	712.5	706.9	688.3	656.8	586.3	595.6	584.4	525.1
10°	736.6	738.4	731.0	736.6	684.6	658.7	556.6	513.9	480.5	525.1	471.3
12.5°	610.4	701.3	753.3	771.8	706.9	621.5	569.6	547.3	424.9	413.7	426.7
15°	745.9	749.6	755.1	736.6	573.3	651.2	528.8	488.0	551.0	536.2	526.9
17.5°	590.0	597.4	723.6	716.2	664.2	515.8	629.0	560.3	512.1	493.5	480.5
20°	751.4	753.3	751.4	569.6	619.7	693.9	591.9	573.3	634.5	627.1	593.7
22.5°	630.8	630.8	673.5	731.0	651.2	695.8	603.0	714.3	590.0	586.3	441.6
25°	872.0	872.0	842.3	645.7	738.4	654.9	716.2	642.0	762.6	736.6	662.4
27.5°	847.9	821.9	775.5	814.5	714.3	820.1	693.9	783.0	840.5	864.6	825.6
30°	1178.2	1178.2	1128.1	872.0	836.8	792.2	801.5	937.0	1152.2	1155.9	998.2
32.5°	1595.6	1565.9	1300.6	1124.4	914.7	994.5	905.4	1102.1	1252.4	1246.8	1061.3
35°	1766.3	1757.0	1675.4	1380.4	1059.4	1089.1	1020.5	1165.2	1387.8	1350.7	1137.3
37.5°	1940.7	1925.9	1842.4	1525.1	1211.6	1250.5	1105.8	1257.9	1512.1	1458.3	1220.8
40°	2048.3	2050.2	1990.8	1640.1	1332.2	1352.6	1207.8	1371.1	1612.3	1623.4	1293.2
42.5°	2161.5	2159.6	2111.4	1775.6	1432.3	1458.3	1289.5	1478.7	1747.8	1760.7	1415.6
45°	2222.7	2219.0	2191.2	1868.4	1512.1	1530.7	1415.6	1610.5	1912.9	1909.2	1515.8
47.5°	2237.6	2243.1	2241.3	1959.3	1595.6	1603.0	1528.8	1706.9	2113.3	2072.4	1647.6
50°	2154.1	2157.8	2183.8	2031.6	1656.8	1664.3	1617.9	1816.4	2282.1	2233.9	1766.3
52.5°	1922.2	1944.4	2053.9	1987.1	1682.8	1710.6	1701.4	1899.9	2488.0	2428.7	1912.9
55°	1428.6	1480.6	1731.1	1820.1	1669.8	1712.5	1775.6	2052.0	2675.4	2603.1	2031.6
57.5°	1139.2	1148.5	1296.9	1541.8	1564.1	1703.2	1853.5	2144.8	2792.3	2720.0	2117.0
60°	899.9	914.7	1011.2	1207.8	1365.5	1647.6	1875.8	2239.4	2885.1	2823.9	2211.6
62.5°	697.6	695.8	770.0	901.7	1100.2	1530.7	1846.1	2296.9	3003.8	2957.4	2380.4
65°	486.1	486.1	549.2	654.9	833.1	1321.0	1786.7	2378.6	3206.1	3193.1	2590.1
67.5°	332.1	339.5	382.2	434.2	571.5	1074.3	1697.7	2462.1	3501.1	3439.8	2792.3
70°	243.1	243.1	259.8	287.6	356.2	801.5	1538.1	2463.9	3716.3	3653.2	2898.1
72.5°	180.0	180.0	193.0	205.9	224.5	532.5	1261.6	2308.1	3660.6	3560.4	2682.9
75°	94.6	94.6	146.6	152.1	150.3	345.1	931.4	1896.2	3094.7	2927.8	2100.3
77.5°	74.2	76.1	83.5	118.7	109.5	226.4	519.5	1167.0	2000.1	1796.0	1137.3
80°	53.8	52.0	64.9	76.1	64.9	131.7	244.9	512.1	708.7	614.1	374.8
82.5°	31.5	33.4	39.0	55.7	55.7	92.8	159.6	224.5	254.2	252.3	224.5
85°	3.7	5.6	20.4	37.1	33.4	53.8	133.6	155.9	200.4	204.1	200.4
87.5°	3.7	3.7	5.6	7.4	9.3	35.3	113.2	135.4	185.5	198.5	200.4
90°	7.4	5.6	3.7	3.7	5.6	27.8	105.8	139.2	196.7	200.4	209.7
92.5°	9.3	7.4	3.7	1.9	5.6	22.3	100.2	139.2	204.1	217.1	226.4
95°	13.0	11.1	3.7	1.9	5.6	18.6	85.3	131.7	213.4	235.6	244.9
97.5°	16.7	14.8	3.7	3.7	5.6	14.8	66.8	103.9	141.0	159.6	172.5
100°	18.6	18.6	3.7	3.7	5.6	9.3	33.4	57.5	44.5	42.7	48.2
102.5°	20.4	20.4	3.7	3.7	3.7	5.6	11.1	24.1	9.3	9.3	14.8
105°	20.4	20.4	3.7	3.7	3.7	3.7	3.7	9.3	7.4	9.3	16.7
107.5°	18.6	20.4	3.7	5.6	5.6	3.7	3.7	3.7	7.4	11.1	16.7
110°	16.7	16.7	3.7	5.6	5.6	3.7	1.9	3.7	7.4	11.1	18.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	13.0	9.3	1.9	5.6	3.7	3.7	1.9	3.7	9.3	13.0	18.6
115°	5.6	3.7	1.9	3.7	3.7	3.7	1.9	3.7	9.3	14.8	18.6
117.5°	3.7	1.9	1.9	1.9	1.9	3.7	1.9	5.6	13.0	16.7	22.3
120°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	5.6	16.7	18.6	26.0
122.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.7	16.7	18.6	26.0
125°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.7	13.0	16.7	22.3
127.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.7	9.3	13.0	18.6
130°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	9.3	11.1	14.8
132.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	5.6	7.4	11.1
135°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.7	3.7	7.4
137.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
140°	1.9	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
142.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
145°	1.9	1.9	1.9	1.9	3.7	1.9	1.9	1.9	1.9	1.9	1.9
147.5°	1.9	1.9	1.9	3.7	3.7	3.7	1.9	1.9	1.9	1.9	1.9
150°	3.7	5.6	9.3	7.4	3.7	1.9	3.7	1.9	1.9	1.9	1.9
152.5°	9.3	9.3	7.4	7.4	1.9	1.9	3.7	3.7	1.9	1.9	1.9
155°	7.4	7.4	5.6	1.9	1.9	1.9	1.9	3.7	5.6	7.4	5.6
157.5°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
160°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	528.8	528.8	528.8	528.8	528.8	528.8	528.8	528.8	528.8	528.8	528.8
2.5°	530.6	512.1	471.3	439.7	406.3	387.8	352.5	322.8	300.6	296.9	296.9
5°	530.6	493.5	421.2	343.2	270.9	233.8	213.4	200.4	191.1	187.4	185.5
7.5°	475.0	426.7	330.3	239.3	207.8	174.4	150.3	131.7	115.0	109.5	103.9
10°	415.6	356.2	224.5	165.1	131.7	109.5	98.3	92.8	87.2	85.3	85.3
12.5°	369.2	308.0	180.0	135.4	92.8	77.9	74.2	70.5	68.6	66.8	64.9
15°	450.9	369.2	187.4	92.8	64.9	55.7	52.0	53.8	57.5	57.5	57.5
17.5°	417.5	324.7	155.9	70.5	53.8	40.8	44.5	48.2	52.0	46.4	44.5
20°	499.1	382.2	152.1	55.7	44.5	40.8	39.0	33.4	42.7	42.7	42.7
22.5°	361.8	289.4	115.0	52.0	37.1	35.3	29.7	33.4	35.3	29.7	29.7
25°	536.2	376.6	113.2	40.8	37.1	27.8	29.7	24.1	29.7	29.7	29.7
27.5°	664.2	445.3	100.2	42.7	31.5	27.8	22.3	24.1	22.3	22.3	22.3
30°	790.4	500.9	90.9	42.7	29.7	22.3	20.4	18.6	22.3	22.3	22.3
32.5°	827.5	488.0	72.4	44.5	27.8	20.4	16.7	18.6	18.6	20.4	20.4
35°	870.2	476.8	61.2	39.0	26.0	18.6	14.8	16.7	18.6	20.4	20.4
37.5°	911.0	458.3	55.7	35.3	22.3	16.7	13.0	14.8	39.0	42.7	42.7
40°	962.9	436.0	52.0	31.5	18.6	13.0	11.1	29.7	35.3	40.8	40.8
42.5°	1037.1	423.0	48.2	29.7	16.7	11.1	11.1	26.0	50.1	55.7	55.7
45°	1098.4	400.8	46.4	26.0	14.8	9.3	18.6	35.3	40.8	52.0	50.1
47.5°	1174.4	380.3	44.5	24.1	13.0	9.3	20.4	37.1	52.0	59.4	59.4
50°	1256.1	369.2	42.7	22.3	13.0	9.3	35.3	35.3	42.7	66.8	66.8
52.5°	1360.0	361.8	39.0	18.6	11.1	18.6	48.2	42.7	52.0	68.6	68.6
55°	1410.1	337.7	37.1	16.7	9.3	18.6	52.0	48.2	53.8	72.4	72.4
57.5°	1454.6	313.6	33.4	16.7	9.3	24.1	55.7	61.2	52.0	63.1	70.5
60°	1495.4	289.4	29.7	14.8	9.3	29.7	61.2	85.3	72.4	85.3	85.3
62.5°	1590.0	270.9	26.0	16.7	7.4	33.4	79.8	103.9	81.6	103.9	102.0
65°	1679.1	248.6	24.1	14.8	9.3	39.0	87.2	120.6	89.1	120.6	120.6
67.5°	1714.4	220.8	22.3	14.8	9.3	44.5	87.2	133.6	105.8	135.4	137.3
70°	1653.1	181.8	20.4	16.7	11.1	50.1	90.9	142.9	113.2	157.7	157.7
72.5°	1404.5	124.3	20.4	18.6	22.3	55.7	107.6	148.4	118.7	189.2	191.1
75°	1048.3	70.5	22.3	20.4	24.1	63.1	118.7	154.0	124.3	191.1	191.1
77.5°	597.4	48.2	22.3	24.1	29.7	63.1	124.3	159.6	122.5	187.4	183.7
80°	207.8	35.3	22.3	27.8	37.1	63.1	126.2	157.7	118.7	174.4	174.4
82.5°	141.0	29.7	22.3	27.8	44.5	66.8	124.3	148.4	105.8	146.6	141.0
85°	131.7	24.1	24.1	29.7	48.2	66.8	113.2	128.0	89.1	109.5	107.6
87.5°	129.9	22.3	27.8	31.5	52.0	61.2	96.5	105.8	72.4	89.1	87.2
90°	135.4	22.3	29.7	33.4	48.2	50.1	77.9	89.1	59.4	70.5	68.6
92.5°	144.7	22.3	31.5	37.1	42.7	37.1	63.1	70.5	50.1	53.8	52.0
95°	154.0	22.3	35.3	39.0	35.3	27.8	48.2	57.5	40.8	39.0	39.0
97.5°	102.0	16.7	37.1	39.0	29.7	20.4	37.1	44.5	24.1	20.4	20.4
100°	33.4	13.0	39.0	40.8	27.8	14.8	31.5	33.4	18.6	9.3	9.3
102.5°	14.8	13.0	35.3	35.3	24.1	11.1	22.3	24.1	13.0	3.7	3.7
105°	13.0	7.4	20.4	26.0	16.7	5.6	11.1	13.0	7.4	3.7	3.7
107.5°	14.8	7.4	11.1	14.8	7.4	5.6	5.6	5.6	3.7	3.7	3.7
110°	14.8	7.4	5.6	9.3	7.4	5.6	3.7	3.7	3.7	5.6	5.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	16.7	7.4	5.6	7.4	5.6	5.6	3.7	3.7	7.4	13.0	13.0
115°	16.7	7.4	5.6	7.4	5.6	5.6	3.7	1.9	7.4	18.6	20.4
117.5°	18.6	9.3	3.7	5.6	3.7	3.7	3.7	1.9	9.3	24.1	24.1
120°	22.3	9.3	3.7	3.7	3.7	1.9	3.7	3.7	9.3	26.0	26.0
122.5°	22.3	11.1	3.7	3.7	3.7	1.9	1.9	3.7	11.1	24.1	26.0
125°	18.6	9.3	3.7	3.7	3.7	1.9	1.9	3.7	11.1	22.3	26.0
127.5°	14.8	9.3	3.7	3.7	3.7	1.9	1.9	3.7	11.1	18.6	20.4
130°	13.0	7.4	3.7	3.7	3.7	1.9	1.9	3.7	9.3	14.8	16.7
132.5°	9.3	5.6	3.7	3.7	3.7	1.9	1.9	1.9	9.3	14.8	14.8
135°	7.4	5.6	3.7	3.7	3.7	1.9	1.9	1.9	7.4	11.1	11.1
137.5°	3.7	1.9	3.7	3.7	3.7	1.9	1.9	1.9	5.6	5.6	5.6
140°	1.9	1.9	1.9	3.7	1.9	1.9	1.9	1.9	1.9	3.7	1.9
142.5°	1.9	1.9	1.9	3.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
145°	1.9	1.9	1.9	3.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
147.5°	1.9	1.9	1.9	3.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
150°	1.9	1.9	1.9	3.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
152.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	1.9	1.9	1.9	1.9
155°	3.7	3.7	1.9	3.7	1.9	1.9	0.0	1.9	1.9	1.9	1.9
157.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	1.9	1.9	1.9	1.9
160°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	1.9	1.9	1.9	1.9
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)