

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: P561229

Luminaire Tested: **SDL-PA1-90-727-U-T4W-HSS-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-727-U-T4W-HSS-A
Description: Springdale
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS, HOUSE SIDE SHEILD AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5799.8 lumens
Efficiency: N/A
Efficacy: 62.8 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 - U3 - G2

Input Watts (W): 92.4
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

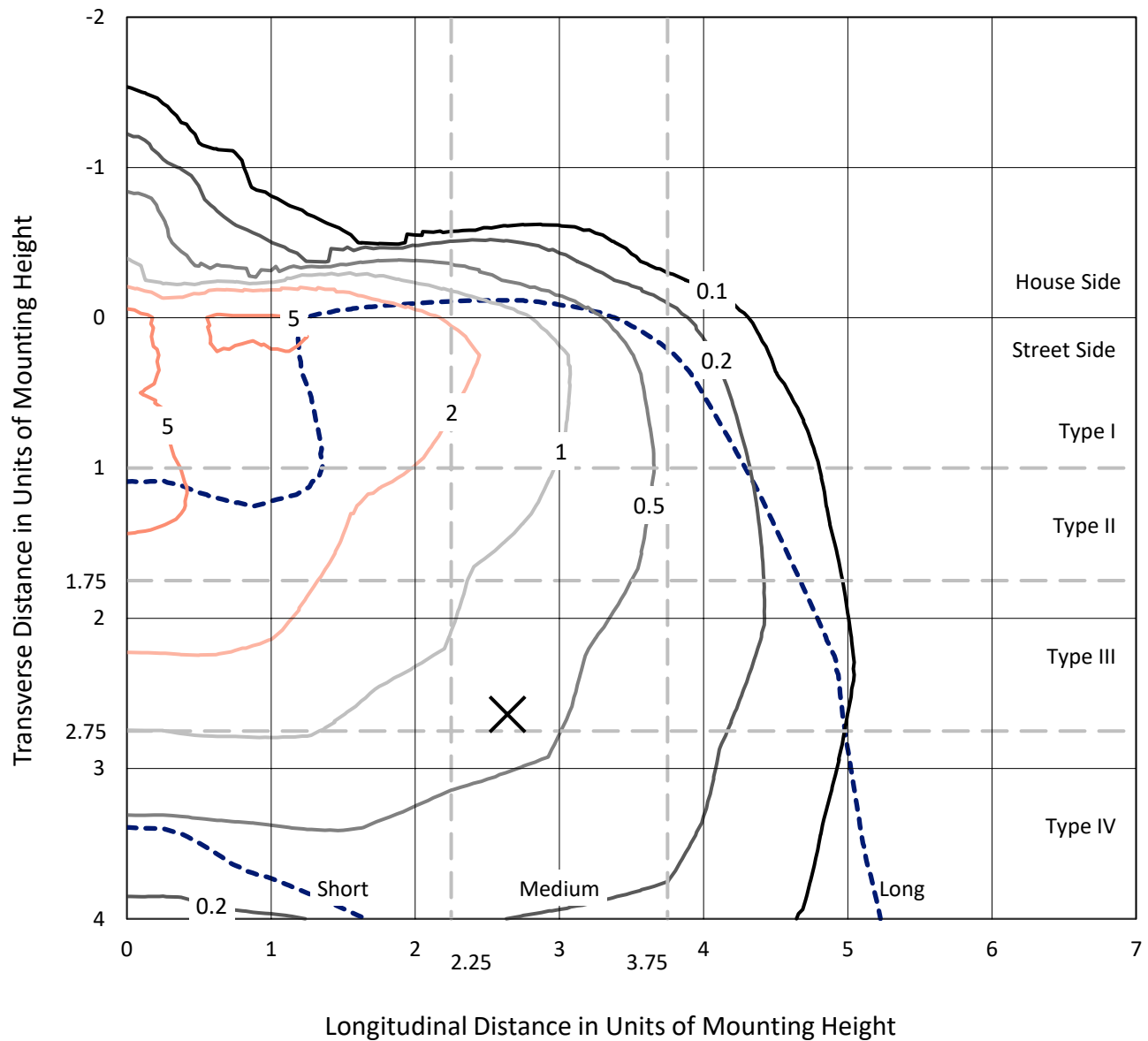


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

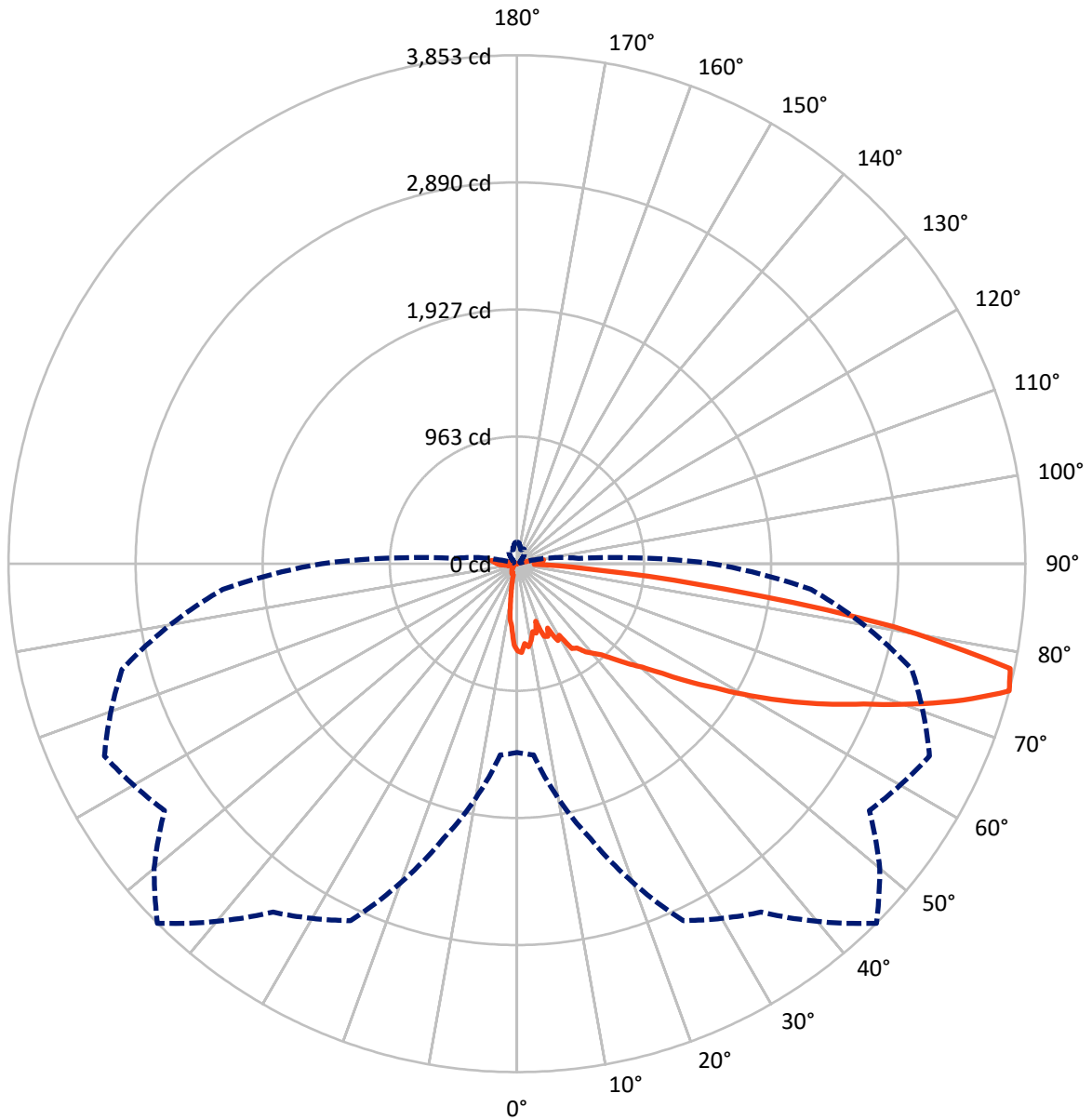


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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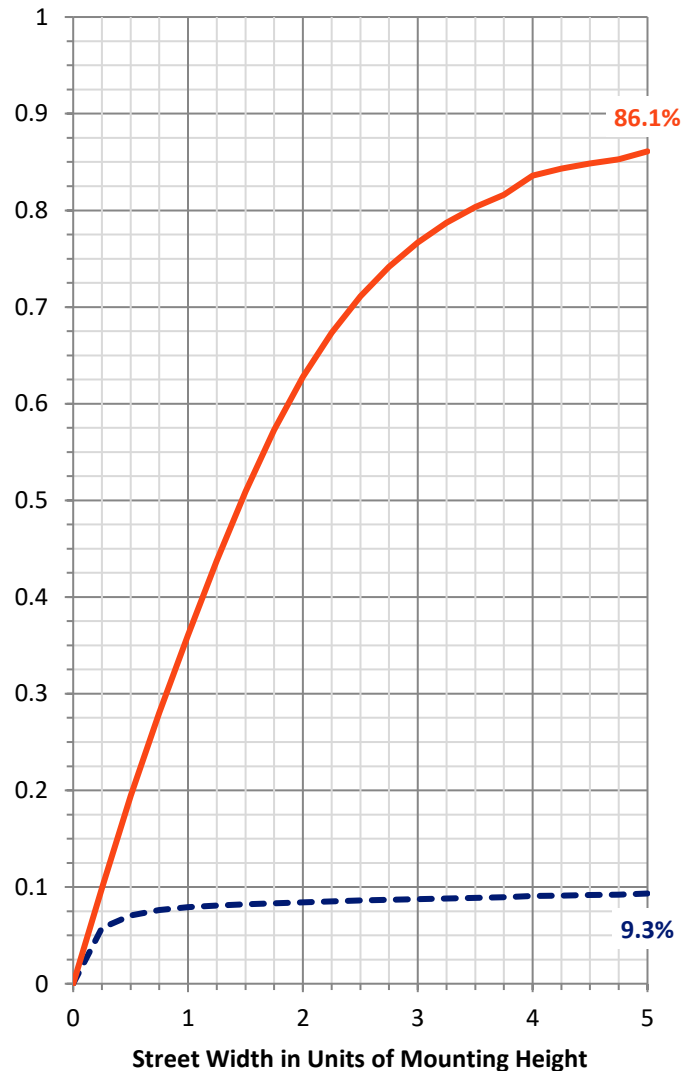
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	595.1	104.1	699.2
	% Fixture	10.3	1.8	12.1
Street Side	Lumens	5020.1	80.5	5100.6
	% Fixture	86.6	1.4	87.9
Total	Lumens	5615.3	184.6	5799.8
	% Fixture	96.8	3.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	0.9
10°-20°	111.0	1.9
20°-30°	186.2	3.2
30°-40°	345.2	6.0
40°-50°	581.8	10.0
50°-60°	1044.2	18.0
60°-70°	1567.9	27.0
70°-80°	1434.4	24.7
80°-90°	293.3	5.1
90°-100°	140.3	2.4
100°-110°	29.9	0.5
110°-120°	5.7	0.1
120°-130°	4.5	0.1
130°-140°	2.0	0.0
140°-150°	1.1	0.0
150°-160°	1.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5615.3	96.8
0°-180°	5799.8	100.0



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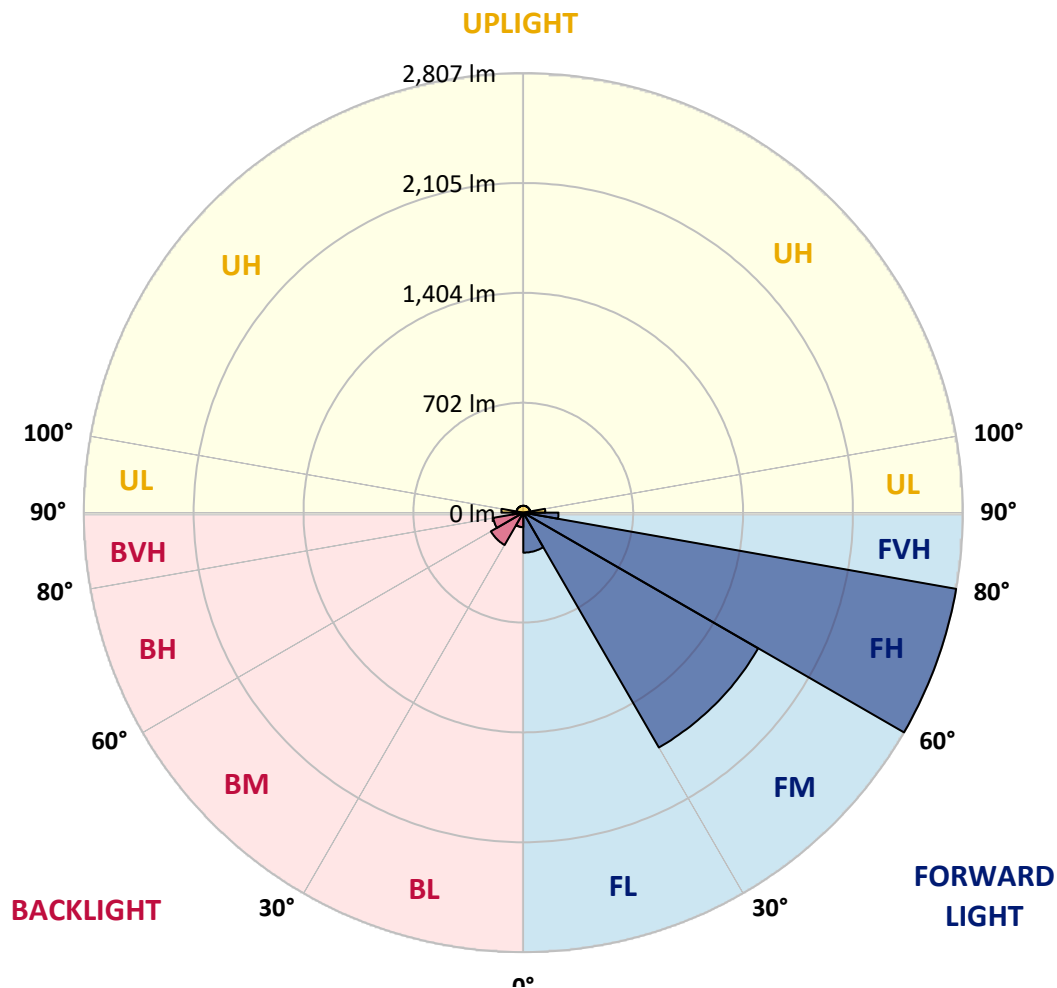
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.5	4.4			
FM	(30°-60°)	1732.4	29.9			
FH	(60°-80°)	2807.3	48.4			G2/5000
FVH	(80°-90°)	224.9	3.9			G2/225
BL	(0°-30°)	92.9	1.6	B0/110		
BM	(30°-60°)	238.8	4.1	B1/1000		
BH	(60°-80°)	195.0	3.4	B1/500		G1/500
BVH	(80°-90°)	68.4	1.2			G1/100
UL	(90°-100°)	140.3	2.4		U3/500	
UH	(100°-180°)	44.2	0.8		U2/50	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8
2.5°	642.2	673.3	663.9	679.5	676.4	673.3	673.3	676.4	673.3	667.1	660.8
5°	654.6	645.3	639.1	636.0	623.6	608.1	601.9	595.7	660.8	660.8	648.4
7.5°	673.3	673.3	660.8	651.5	651.5	636.0	620.5	608.1	577.1	567.8	567.8
10°	716.7	710.5	701.2	682.6	589.5	592.6	558.5	490.2	459.2	471.6	490.2
12.5°	726.0	722.9	710.5	707.4	620.5	527.4	437.5	490.2	468.5	390.9	434.4
15°	778.7	772.5	747.7	704.3	530.5	546.1	508.8	437.5	418.8	477.8	511.9
17.5°	663.9	663.9	744.6	682.6	577.1	459.2	456.1	508.8	459.2	428.2	425.1
20°	816.0	816.0	781.8	558.5	592.6	586.4	471.6	533.6	449.9	508.8	542.9
22.5°	679.5	676.4	701.2	691.9	567.8	598.8	484.0	487.1	536.7	459.2	394.0
25°	828.4	828.4	809.8	601.9	645.3	539.8	552.3	583.3	477.8	580.2	586.4
27.5°	713.6	710.5	676.4	688.8	601.9	660.8	502.6	549.2	586.4	626.7	688.8
30°	871.8	878.0	862.5	654.6	670.2	629.8	598.8	636.0	710.5	834.6	874.9
32.5°	1076.6	1082.8	918.4	788.1	673.3	766.3	642.2	701.2	816.0	874.9	918.4
35°	1197.6	1151.1	1079.7	881.1	726.0	784.9	738.4	747.7	850.1	943.2	974.2
37.5°	1300.0	1237.9	1154.2	909.1	766.3	847.0	769.4	781.8	921.5	1005.2	1045.6
40°	1334.1	1296.9	1250.3	971.1	816.0	893.5	806.7	834.6	989.7	1085.9	1147.9
42.5°	1417.9	1421.0	1393.1	1058.0	868.7	943.2	868.7	887.3	1079.7	1197.6	1287.6
45°	1641.3	1647.5	1616.4	1206.9	933.9	1030.1	968.0	977.3	1182.1	1368.2	1483.0
47.5°	1926.7	1905.0	1873.9	1405.5	1033.2	1129.3	1082.8	1073.5	1303.1	1591.6	1694.0
50°	2215.2	2174.9	2109.7	1678.5	1203.8	1231.7	1200.7	1194.5	1448.9	1821.2	1932.9
52.5°	2516.2	2485.2	2348.6	1936.0	1458.2	1380.6	1346.5	1380.6	1638.2	2075.6	2178.0
55°	2674.4	2643.4	2556.5	2212.1	1703.3	1573.0	1514.1	1576.1	1929.8	2314.5	2447.9
57.5°	2804.7	2795.4	2755.1	2500.7	2001.2	1777.8	1718.8	1777.8	2162.5	2537.9	2696.1
60°	2990.9	2953.6	2990.9	2779.9	2289.7	2029.1	1948.4	2010.5	2447.9	2733.4	2969.2
62.5°	3124.3	3115.0	3189.4	3093.3	2531.7	2292.8	2174.9	2233.8	2699.2	2941.2	3239.1
65°	2981.6	3028.1	3325.9	3298.0	2804.7	2562.7	2438.6	2420.0	2904.0	3164.6	3527.6
67.5°	2727.2	2758.2	3192.5	3403.5	3043.6	2835.7	2686.8	2599.9	3093.3	3366.3	3757.2
70°	2485.2	2522.4	2919.5	3409.7	3158.4	3186.3	2978.5	2817.1	3282.5	3592.8	3806.8
72.5°	2292.8	2326.9	2683.7	3335.3	3198.7	3536.9	3298.0	3046.7	3465.6	3599.0	3325.9
75°	1430.3	1455.1	2159.4	2984.7	3223.6	3853.4	3589.7	3260.8	3450.1	3099.5	2236.9
77.5°	440.6	449.9	924.6	1970.1	2801.6	3822.4	3540.0	3065.3	2891.6	1967.0	1020.7
80°	152.0	155.1	238.9	701.2	1675.4	2900.9	2699.2	2255.6	1728.1	726.0	384.7
82.5°	71.4	77.6	111.7	235.8	682.6	1585.4	1594.7	1340.3	726.0	322.7	260.6
85°	24.8	24.8	46.5	102.4	263.7	611.2	580.2	539.8	381.6	291.6	242.0
87.5°	9.3	9.3	15.5	27.9	65.2	130.3	164.4	201.7	201.7	204.8	245.1
90°	9.3	9.3	6.2	6.2	46.5	136.5	164.4	183.1	167.5	186.2	266.8
92.5°	9.3	9.3	6.2	6.2	49.6	158.2	183.1	198.6	176.8	198.6	294.7
95°	9.3	9.3	6.2	6.2	55.8	192.4	214.1	211.0	176.8	207.9	316.5
97.5°	12.4	12.4	6.2	3.1	49.6	204.8	229.6	223.4	152.0	158.2	248.2
100°	12.4	12.4	6.2	3.1	31.0	152.0	183.1	179.9	99.3	24.8	71.4
102.5°	12.4	12.4	6.2	3.1	6.2	71.4	86.9	90.0	58.9	9.3	12.4
105°	15.5	15.5	6.2	3.1	3.1	12.4	27.9	37.2	21.7	6.2	12.4
107.5°	15.5	15.5	6.2	3.1	3.1	6.2	6.2	9.3	9.3	6.2	15.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	12.4	12.4	3.1	6.2	3.1	3.1	3.1	3.1	3.1	6.2	15.5
115°	6.2	6.2	3.1	3.1	0.0	3.1	3.1	3.1	3.1	6.2	12.4
117.5°	3.1	3.1	0.0	3.1	0.0	3.1	3.1	3.1	6.2	6.2	15.5
120°	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1	9.3	18.6
122.5°	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1	9.3	18.6
125°	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1	9.3	18.6
127.5°	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1	9.3	15.5
130°	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1	6.2	12.4
132.5°	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1	6.2	9.3
135°	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	6.2
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1
140°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1
145°	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
147.5°	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
150°	9.3	9.3	6.2	3.1	0.0	0.0	3.1	3.1	3.1	3.1	3.1
152.5°	6.2	6.2	9.3	3.1	0.0	0.0	3.1	3.1	6.2	3.1	3.1
155°	6.2	6.2	3.1	0.0	0.0	0.0	0.0	3.1	3.1	6.2	6.2
157.5°	3.1	3.1	3.1	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1
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°	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8
2.5°	654.6	651.5	642.2	636.0	626.7	617.4	570.9	542.9	539.8	536.7	539.8
5°	642.2	632.9	617.4	546.1	511.9	480.9	471.6	465.4	449.9	449.9	453.0
7.5°	555.4	549.2	499.5	477.8	449.9	421.9	397.1	378.5	332.0	316.5	310.3
10°	487.1	474.7	387.8	344.4	316.5	285.4	285.4	260.6	248.2	238.9	235.8
12.5°	421.9	412.6	341.3	313.4	235.8	204.8	189.3	173.7	164.4	158.2	155.1
15°	493.3	477.8	366.1	251.3	173.7	145.8	114.8	111.7	139.6	145.8	148.9
17.5°	394.0	403.3	325.8	220.3	142.7	90.0	99.3	117.9	133.4	133.4	130.3
20°	524.3	502.6	353.7	176.8	102.4	90.0	96.2	86.9	124.1	133.4	133.4
22.5°	381.6	363.0	291.6	164.4	80.7	86.9	80.7	102.4	114.8	102.4	105.5
25°	567.8	539.8	338.2	114.8	83.8	74.5	93.1	80.7	111.7	121.0	124.1
27.5°	704.3	611.2	332.0	108.6	74.5	83.8	77.6	93.1	90.0	96.2	96.2
30°	840.8	788.1	375.4	99.3	74.5	71.4	80.7	80.7	102.4	111.7	111.7
32.5°	899.7	837.7	328.9	96.2	74.5	71.4	71.4	86.9	96.2	114.8	114.8
35°	961.8	878.0	276.1	90.0	71.4	68.3	68.3	86.9	102.4	114.8	117.9
37.5°	1045.6	921.5	223.4	86.9	68.3	65.2	58.9	77.6	108.6	121.0	124.1
40°	1151.1	983.5	173.7	80.7	62.1	58.9	55.8	77.6	93.1	108.6	108.6
42.5°	1315.5	1051.8	136.5	77.6	58.9	52.7	52.7	65.2	90.0	102.4	102.4
45°	1483.0	1132.4	114.8	74.5	55.8	49.6	49.6	65.2	68.3	86.9	86.9
47.5°	1669.2	1213.1	105.5	71.4	55.8	43.4	43.4	58.9	58.9	80.7	83.8
50°	1861.5	1281.4	99.3	68.3	49.6	40.3	49.6	40.3	49.6	77.6	83.8
52.5°	2029.1	1337.2	93.1	62.1	46.5	37.2	46.5	40.3	49.6	71.4	71.4
55°	2199.7	1368.2	90.0	58.9	43.4	31.0	46.5	43.4	46.5	65.2	65.2
57.5°	2351.7	1377.5	86.9	58.9	37.2	27.9	43.4	52.7	40.3	52.7	58.9
60°	2488.3	1368.2	77.6	52.7	27.9	27.9	46.5	62.1	55.8	62.1	62.1
62.5°	2615.5	1334.1	62.1	43.4	21.7	27.9	58.9	68.3	52.7	65.2	71.4
65°	2724.1	1287.6	46.5	34.1	15.5	31.0	62.1	77.6	62.1	74.5	80.7
67.5°	2773.7	1225.5	37.2	27.9	15.5	34.1	65.2	86.9	71.4	83.8	90.0
70°	2689.9	1098.3	31.0	27.9	12.4	40.3	68.3	93.1	80.7	105.5	108.6
72.5°	2233.8	862.5	27.9	27.9	21.7	49.6	86.9	105.5	99.3	142.7	139.6
75°	1479.9	471.6	27.9	24.8	27.9	58.9	105.5	124.1	108.6	161.3	161.3
77.5°	682.6	207.9	24.8	27.9	31.0	65.2	121.0	148.9	124.1	183.1	179.9
80°	297.8	127.2	24.8	24.8	34.1	71.4	136.5	167.5	136.5	201.7	201.7
82.5°	223.4	114.8	21.7	24.8	46.5	80.7	158.2	186.2	152.0	217.2	214.1
85°	207.9	108.6	24.8	27.9	52.7	102.4	186.2	201.7	158.2	223.4	223.4
87.5°	211.0	105.5	24.8	27.9	71.4	130.3	211.0	217.2	173.7	235.8	235.8
90°	217.2	108.6	27.9	31.0	80.7	142.7	235.8	232.7	195.5	248.2	248.2
92.5°	232.7	108.6	31.0	34.1	86.9	158.2	257.5	238.9	211.0	257.5	251.3
95°	242.0	108.6	34.1	37.2	102.4	173.7	273.0	232.7	223.4	238.9	232.7
97.5°	179.9	80.7	40.3	43.4	105.5	195.5	251.3	198.6	145.8	142.7	145.8
100°	58.9	27.9	43.4	46.5	68.3	136.5	186.2	142.7	77.6	58.9	58.9
102.5°	15.5	15.5	40.3	43.4	37.2	58.9	108.6	93.1	52.7	3.1	6.2
105°	15.5	12.4	24.8	34.1	21.7	15.5	43.4	52.7	40.3	3.1	3.1
107.5°	15.5	12.4	12.4	18.6	6.2	6.2	12.4	12.4	12.4	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	18.6	12.4	6.2	6.2	6.2	3.1	3.1	3.1	3.1	9.3	12.4
115°	15.5	12.4	3.1	6.2	3.1	3.1	3.1	3.1	6.2	12.4	15.5
117.5°	15.5	12.4	3.1	3.1	3.1	3.1	3.1	3.1	6.2	15.5	18.6
120°	18.6	15.5	3.1	3.1	3.1	3.1	3.1	3.1	6.2	18.6	18.6
122.5°	18.6	15.5	3.1	3.1	3.1	3.1	0.0	3.1	9.3	18.6	18.6
125°	18.6	15.5	3.1	3.1	3.1	0.0	0.0	3.1	9.3	18.6	21.7
127.5°	15.5	12.4	3.1	3.1	3.1	0.0	0.0	3.1	6.2	15.5	18.6
130°	12.4	9.3	3.1	3.1	3.1	0.0	0.0	0.0	6.2	15.5	15.5
132.5°	9.3	6.2	3.1	3.1	3.1	0.0	0.0	0.0	6.2	12.4	12.4
135°	6.2	6.2	3.1	3.1	3.1	0.0	0.0	0.0	3.1	9.3	9.3
137.5°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	3.1	3.1	3.1
140°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
155°	6.2	6.2	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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110°	15.5	15.5	6.2	6.2	3.1	3.1	3.1	3.1	6.2	6.2	15.5
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110°	15.5	12.4	6.2	6.2	6.2	6.2	6.2	3.1	3.1	6.2	6.2
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(END OF REPORT)