

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: P560644

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

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-19)
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-A
Description: Springdale
(1) 80 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II R OPTICS
AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4191.1 lumens
Efficiency: N/A
Efficacy: 80.0 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 - G2

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

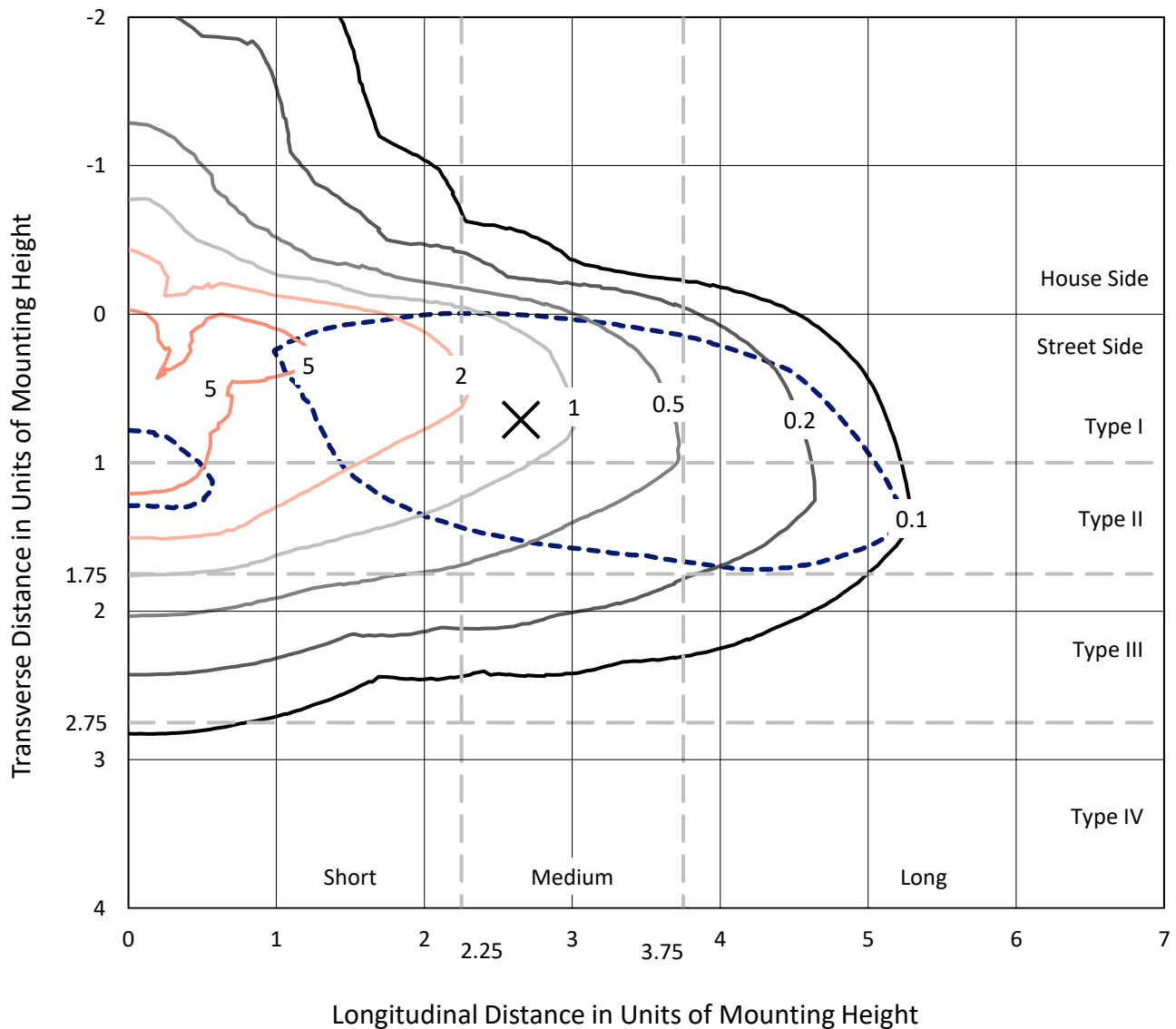


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

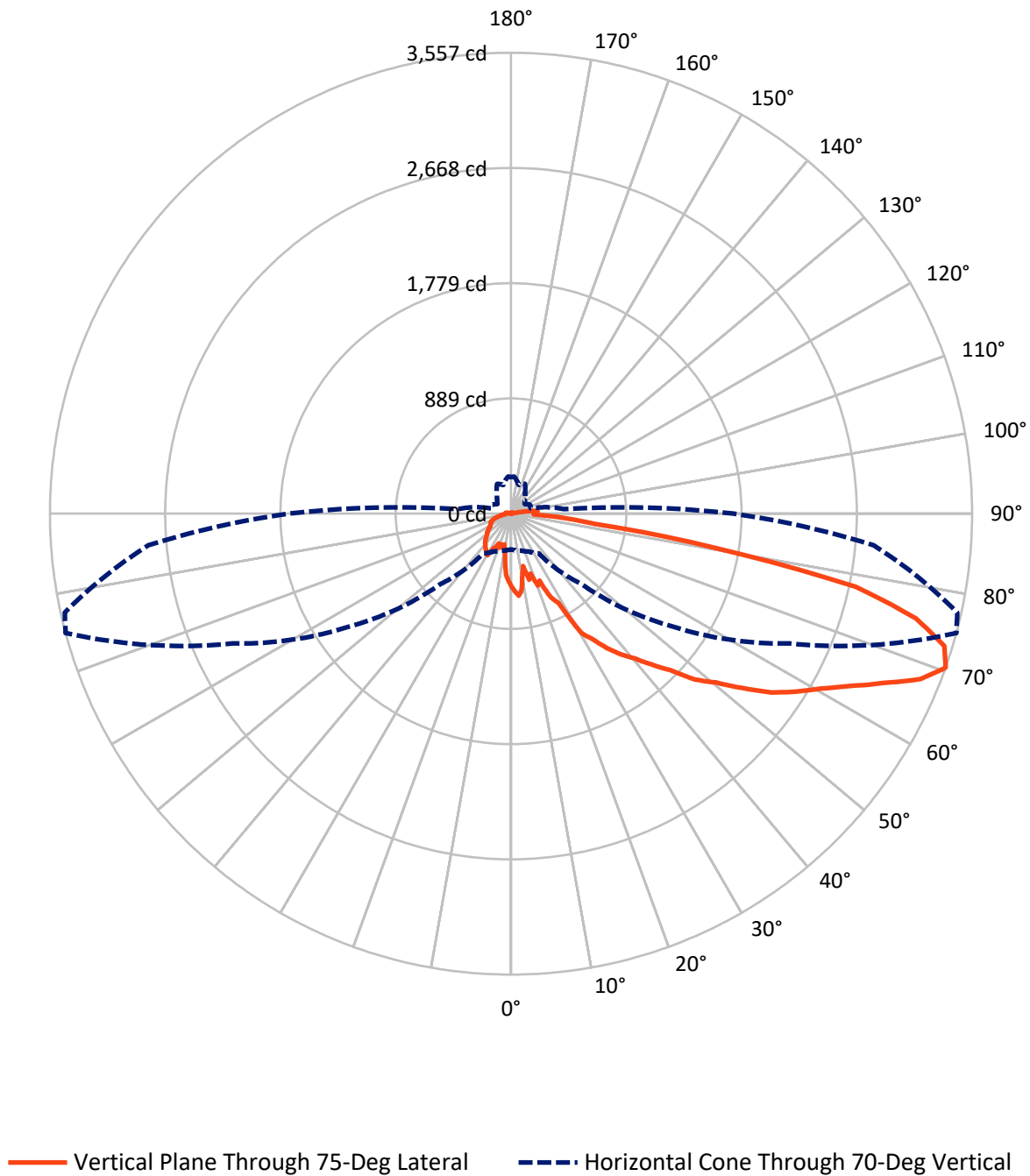


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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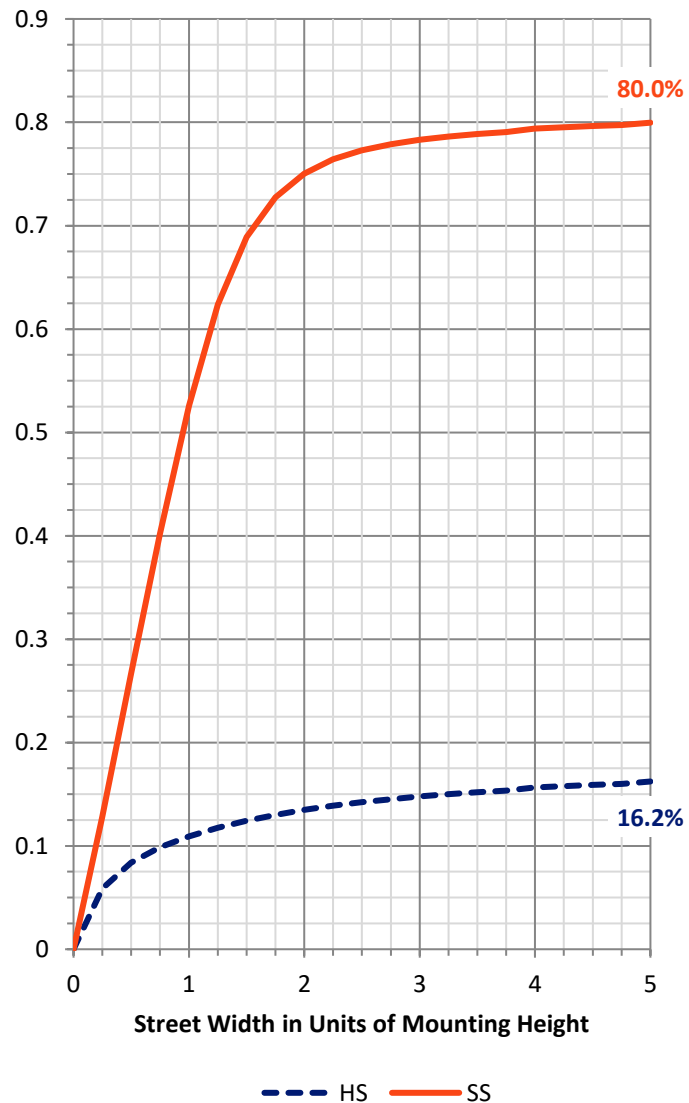
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.5	42.8	759.3
	% Fixture	17.1	1.0	18.1
Street Side	Lumens	3377.6	54.2	3431.8
	% Fixture	80.6	1.3	81.9
Total	Lumens	4094.0	97.0	4191.1
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.1
10°-20°	122.2	2.9
20°-30°	220.7	5.3
30°-40°	451.0	10.8
40°-50°	708.2	16.9
50°-60°	869.6	20.7
60°-70°	864.9	20.6
70°-80°	639.7	15.3
80°-90°	170.9	4.1
90°-100°	63.2	1.5
100°-110°	14.8	0.4
110°-120°	7.0	0.2
120°-130°	6.2	0.1
130°-140°	3.0	0.1
140°-150°	1.5	0.0
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4094.0	97.7
0°-180°	4191.1	100.0

Coefficient of Utilization



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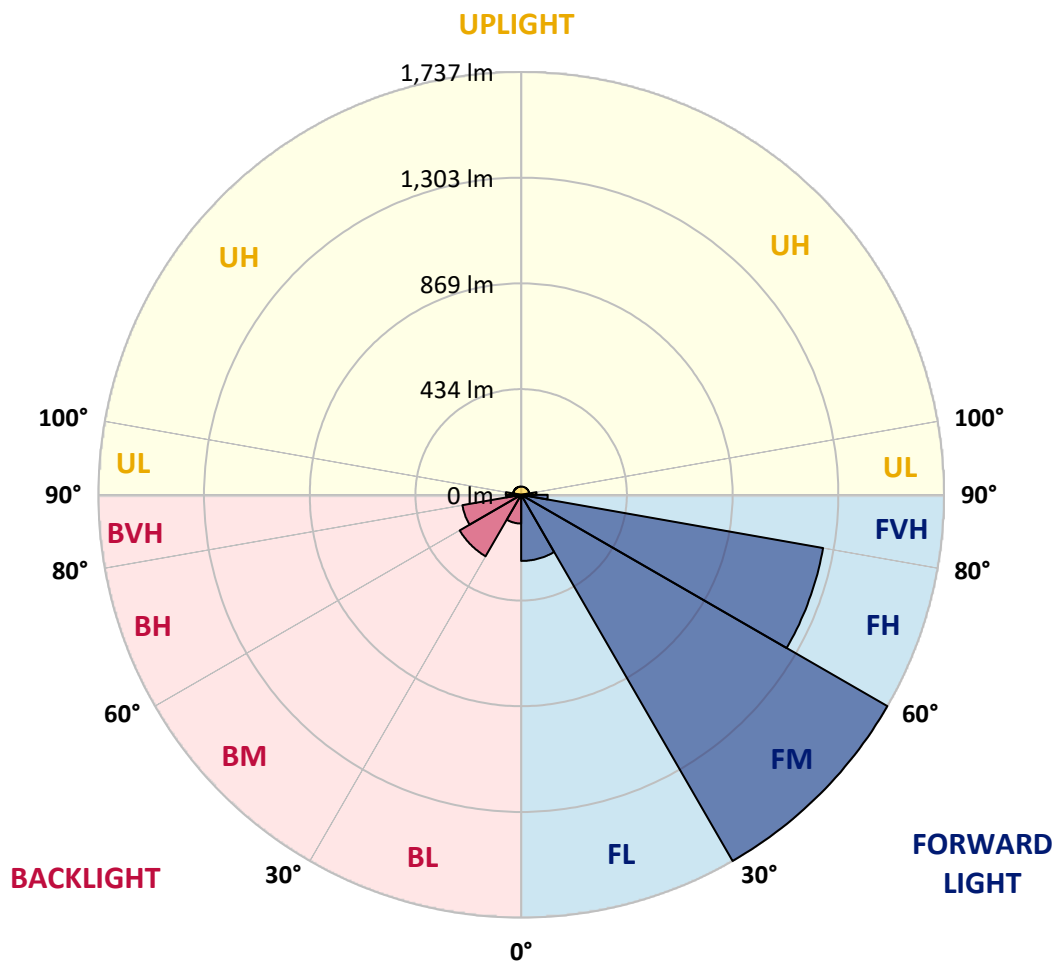
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.6	6.5			
FM	(30°-60°)	1737.3	41.5			
FH	(60°-80°)	1259.5	30.1			G1/1800
FVH	(80°-90°)	109.1	2.6			G2/225
BL	(0°-30°)	118.1	2.8	B1/500		
BM	(30°-60°)	291.5	7.0	B1/1000		
BH	(60°-80°)	245.1	5.8	B1/500		G1/500
BVH	(80°-90°)	61.8	1.5			G1/100
UL	(90°-100°)	63.2	1.5		U3/500	
UH	(100°-180°)	33.9	0.8		U2/50	

BUG Rating: B1-U3-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8
2.5°	583.1	615.8	630.6	646.9	661.7	653.5	640.4	620.7	602.7	596.2	576.5
5°	643.7	640.4	638.7	633.8	625.6	610.9	592.9	663.3	635.5	624.0	591.2
7.5°	566.7	656.8	666.6	676.4	673.1	655.1	632.2	568.3	592.9	578.1	537.2
10°	692.8	692.8	689.5	692.8	655.1	625.6	535.6	497.9	479.9	519.2	481.5
12.5°	589.6	642.0	707.5	720.6	663.3	581.4	543.8	525.7	414.4	409.5	438.9
15°	686.2	694.4	696.1	699.3	565.0	609.3	502.8	466.8	529.0	514.3	519.2
17.5°	551.9	560.1	666.6	660.0	607.6	486.4	588.0	527.4	486.4	468.4	461.9
20°	694.4	696.1	691.2	558.5	586.3	635.5	550.3	533.9	592.9	591.2	566.7
22.5°	591.2	592.9	610.9	673.1	606.0	642.0	553.6	666.6	561.8	563.4	437.3
25°	791.1	792.7	776.3	599.4	681.3	602.7	671.5	599.4	717.4	694.4	640.4
27.5°	830.4	769.8	707.5	743.6	650.2	748.5	638.7	725.5	779.6	774.7	782.9
30°	1053.1	1056.4	1013.8	814.0	761.6	738.7	737.0	861.5	1067.9	1076.0	940.1
32.5°	1426.5	1406.9	1197.2	1004.0	820.5	900.8	827.1	997.4	1154.7	1149.7	1007.3
35°	1596.9	1577.2	1498.6	1239.8	948.3	972.9	933.6	1061.3	1274.2	1236.5	1074.4
37.5°	1741.0	1737.7	1672.2	1365.9	1077.7	1113.7	997.4	1139.9	1377.4	1338.1	1143.2
40°	1865.5	1854.0	1796.7	1478.9	1210.3	1212.0	1077.7	1234.9	1469.1	1478.9	1210.3
42.5°	1968.6	1958.8	1911.3	1592.0	1289.0	1298.8	1162.8	1331.5	1592.0	1610.0	1315.2
45°	2011.2	2016.1	1983.4	1693.5	1359.4	1377.4	1264.4	1429.8	1723.0	1737.7	1408.5
47.5°	2042.3	2044.0	2035.8	1777.0	1434.7	1442.9	1364.3	1518.2	1913.0	1883.5	1518.2
50°	1971.9	1965.4	1973.6	1840.9	1500.2	1510.1	1447.8	1610.0	2048.9	2011.2	1632.9
52.5°	1786.8	1795.0	1880.2	1808.1	1521.5	1541.2	1526.4	1690.2	2237.2	2207.8	1796.7
55°	1321.7	1357.7	1603.4	1673.8	1519.9	1554.3	1598.5	1842.5	2435.4	2391.2	1935.9
57.5°	1069.5	1069.5	1213.6	1444.5	1436.4	1546.1	1672.2	1945.7	2592.7	2561.5	2075.1
60°	858.2	858.2	936.8	1146.5	1274.2	1505.1	1747.5	2098.0	2741.7	2723.7	2197.9
62.5°	673.1	671.5	737.0	854.9	1044.9	1415.1	1786.8	2229.1	2928.4	2925.1	2394.5
65°	486.4	493.0	548.7	622.4	820.5	1246.4	1785.2	2347.0	3152.8	3162.6	2615.6
67.5°	360.3	363.6	394.7	448.8	563.4	1033.5	1706.6	2428.9	3406.6	3390.3	2756.4
70°	276.8	281.7	294.8	322.6	375.1	768.1	1516.6	2371.5	3557.3	3526.2	2808.8
72.5°	232.6	234.2	232.6	247.3	250.6	520.8	1215.3	2153.7	3495.1	3446.0	2664.7
75°	198.2	196.5	194.9	198.2	185.1	343.9	871.3	1822.9	3226.5	3141.3	2353.5
77.5°	170.3	168.7	162.1	163.8	147.4	253.9	594.5	1429.8	2718.8	2519.0	1768.8
80°	140.9	140.9	135.9	135.9	124.5	193.3	380.0	986.0	1583.8	1424.9	920.4
82.5°	109.7	108.1	108.1	111.4	106.5	150.7	248.9	491.3	653.5	612.5	430.7
85°	59.0	59.0	67.2	75.3	73.7	91.7	190.0	289.9	386.5	373.4	240.8
87.5°	18.0	18.0	19.7	24.6	26.2	49.1	119.6	140.9	175.2	193.3	190.0
90°	19.7	18.0	13.1	14.7	16.4	36.0	111.4	135.9	176.9	196.5	201.5
92.5°	22.9	21.3	13.1	13.1	16.4	29.5	106.5	132.7	193.3	212.9	217.8
95°	24.6	22.9	13.1	13.1	16.4	26.2	95.0	131.0	206.4	232.6	232.6
97.5°	22.9	21.3	9.8	11.5	14.7	22.9	73.7	108.1	144.1	158.9	183.4
100°	19.7	19.7	6.6	9.8	13.1	16.4	42.6	59.0	42.6	40.9	40.9
102.5°	18.0	18.0	6.6	8.2	9.8	11.5	19.7	31.1	9.8	11.5	14.7
105°	18.0	19.7	4.9	6.6	6.6	6.6	9.8	16.4	8.2	9.8	14.7
107.5°	18.0	19.7	4.9	4.9	6.6	4.9	4.9	6.6	8.2	9.8	16.4
110°	16.4	16.4	3.3	4.9	4.9	4.9	3.3	4.9	8.2	11.5	16.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	11.5	11.5	3.3	4.9	4.9	4.9	3.3	4.9	8.2	11.5	16.4
115°	8.2	6.6	3.3	4.9	3.3	4.9	3.3	4.9	8.2	11.5	14.7
117.5°	6.6	4.9	3.3	3.3	3.3	3.3	1.6	4.9	9.8	13.1	18.0
120°	6.6	6.6	3.3	3.3	3.3	3.3	1.6	4.9	14.7	16.4	22.9
122.5°	6.6	6.6	3.3	3.3	3.3	3.3	1.6	3.3	13.1	18.0	24.6
125°	6.6	6.6	3.3	3.3	3.3	3.3	1.6	3.3	11.5	16.4	21.3
127.5°	6.6	6.6	3.3	1.6	3.3	3.3	3.3	3.3	9.8	13.1	18.0
130°	6.6	6.6	3.3	1.6	3.3	3.3	3.3	3.3	8.2	9.8	14.7
132.5°	4.9	4.9	3.3	1.6	3.3	1.6	1.6	3.3	6.6	8.2	11.5
135°	3.3	3.3	3.3	1.6	3.3	1.6	1.6	1.6	3.3	4.9	8.2
137.5°	1.6	3.3	1.6	1.6	3.3	1.6	1.6	1.6	1.6	1.6	3.3
140°	1.6	1.6	1.6	1.6	3.3	1.6	1.6	1.6	1.6	1.6	1.6
142.5°	1.6	1.6	1.6	1.6	3.3	3.3	1.6	1.6	1.6	1.6	1.6
145°	1.6	1.6	1.6	1.6	4.9	3.3	1.6	1.6	1.6	1.6	1.6
147.5°	1.6	1.6	1.6	6.6	4.9	3.3	1.6	1.6	1.6	1.6	1.6
150°	8.2	8.2	8.2	6.6	4.9	3.3	4.9	1.6	1.6	1.6	1.6
152.5°	8.2	8.2	9.8	4.9	3.3	1.6	1.6	6.6	4.9	3.3	3.3
155°	6.6	4.9	4.9	1.6	1.6	1.6	1.6	1.6	4.9	6.6	6.6
157.5°	1.6	1.6	3.3	1.6	1.6	1.6	1.6	1.6	3.3	1.6	1.6
160°	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8
2.5°	565.0	551.9	520.8	497.9	470.1	445.5	424.2	376.7	368.5	363.6	362.0
5°	565.0	537.2	476.6	402.9	345.6	332.5	325.9	325.9	322.6	324.3	325.9
7.5°	501.2	463.5	371.8	314.5	324.3	324.3	325.9	317.7	291.5	294.8	289.9
10°	438.9	391.4	280.1	255.5	280.1	281.7	319.4	334.1	339.0	340.7	340.7
12.5°	404.5	337.4	242.4	250.6	226.0	258.8	304.6	340.7	309.5	293.2	293.2
15°	465.1	399.6	271.9	219.5	222.7	258.8	230.9	322.6	334.1	337.4	337.4
17.5°	417.6	352.1	248.9	226.0	248.9	212.9	260.4	296.4	283.3	268.6	267.0
20°	501.2	416.0	278.4	221.1	219.5	252.2	230.9	242.4	303.0	304.6	303.0
22.5°	389.8	332.5	247.3	250.6	219.5	240.8	227.7	250.6	239.1	237.5	239.1
25°	540.5	430.7	285.0	216.2	229.3	212.9	229.3	211.3	253.9	257.1	258.8
27.5°	661.7	514.3	303.0	234.2	199.8	217.8	204.7	211.3	196.5	204.7	208.0
30°	787.8	599.4	370.1	258.8	211.3	186.7	190.0	188.3	212.9	211.3	208.0
32.5°	828.7	610.9	353.8	270.2	209.6	188.3	173.6	185.1	203.1	217.8	219.5
35°	869.7	619.1	340.7	258.8	204.7	176.9	170.3	190.0	204.7	206.4	211.3
37.5°	917.2	625.6	327.6	242.4	190.0	173.6	168.7	176.9	209.6	206.4	201.5
40°	961.4	628.9	311.2	227.7	173.6	170.3	157.2	176.9	185.1	191.6	194.9
42.5°	1040.0	648.6	298.1	214.6	162.1	162.1	150.7	165.4	190.0	193.3	191.6
45°	1097.3	642.0	280.1	203.1	150.7	144.1	147.4	180.2	191.6	211.3	208.0
47.5°	1179.2	658.4	258.8	185.1	140.9	132.7	139.2	175.2	196.5	211.3	214.6
50°	1259.5	655.1	240.8	170.3	134.3	126.1	154.0	170.3	193.3	217.8	217.8
52.5°	1364.3	660.0	232.6	157.2	126.1	126.1	158.9	172.0	198.2	214.6	214.6
55°	1457.7	642.0	212.9	152.3	124.5	121.2	160.5	178.5	199.8	214.6	216.2
57.5°	1526.4	606.0	198.2	147.4	122.8	124.5	160.5	193.3	186.7	214.6	219.5
60°	1601.8	566.7	185.1	147.4	122.8	129.4	165.4	204.7	204.7	224.4	224.4
62.5°	1705.0	542.1	178.5	149.0	119.6	134.3	180.2	222.7	206.4	237.5	239.1
65°	1791.8	509.4	173.6	155.6	121.2	140.9	188.3	237.5	216.2	252.2	250.6
67.5°	1793.4	460.2	167.1	162.1	122.8	145.8	188.3	247.3	227.7	265.3	260.4
70°	1714.8	411.1	157.2	162.1	127.7	150.7	188.3	253.9	229.3	286.6	281.7
72.5°	1546.1	335.8	142.5	155.6	135.9	157.2	198.2	252.2	229.3	309.5	304.6
75°	1315.2	268.6	122.8	142.5	135.9	165.4	204.7	250.6	221.1	294.8	285.0
77.5°	1000.7	219.5	103.2	124.5	129.4	168.7	204.7	247.3	214.6	275.2	268.6
80°	515.9	154.0	83.5	106.5	121.2	165.4	203.1	234.2	191.6	244.0	240.8
82.5°	283.3	113.0	67.2	78.6	101.5	155.6	196.5	211.3	168.7	199.8	191.6
85°	183.4	81.9	54.0	63.9	85.2	129.4	165.4	167.1	119.6	144.1	135.9
87.5°	137.6	47.5	34.4	39.3	59.0	72.1	104.8	108.1	75.3	88.4	83.5
90°	144.1	47.5	36.0	40.9	52.4	54.0	77.0	81.9	59.0	67.2	67.2
92.5°	154.0	47.5	37.7	42.6	47.5	42.6	60.6	67.2	49.1	54.0	52.4
95°	157.2	45.9	40.9	44.2	42.6	34.4	49.1	54.0	40.9	40.9	40.9
97.5°	114.6	32.8	40.9	44.2	39.3	27.8	37.7	42.6	26.2	21.3	21.3
100°	31.1	16.4	39.3	42.6	34.4	22.9	32.8	32.8	16.4	11.5	11.5
102.5°	13.1	13.1	34.4	37.7	26.2	14.7	22.9	22.9	11.5	4.9	4.9
105°	13.1	9.8	24.6	27.8	18.0	8.2	11.5	13.1	8.2	4.9	4.9
107.5°	13.1	9.8	11.5	14.7	8.2	6.6	6.6	6.6	4.9	4.9	4.9
110°	14.7	9.8	6.6	8.2	6.6	4.9	4.9	4.9	4.9	6.6	8.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	16.4	11.5	6.6	8.2	6.6	4.9	4.9	4.9	6.6	14.7	14.7
115°	14.7	9.8	6.6	6.6	4.9	4.9	3.3	3.3	6.6	18.0	18.0
117.5°	16.4	11.5	6.6	6.6	4.9	3.3	3.3	3.3	8.2	21.3	21.3
120°	19.7	13.1	6.6	4.9	3.3	3.3	3.3	3.3	9.8	22.9	22.9
122.5°	21.3	14.7	6.6	4.9	3.3	1.6	3.3	4.9	11.5	22.9	22.9
125°	18.0	13.1	6.6	4.9	3.3	1.6	3.3	4.9	11.5	21.3	22.9
127.5°	16.4	11.5	6.6	3.3	3.3	1.6	1.6	4.9	9.8	16.4	19.7
130°	13.1	9.8	4.9	3.3	3.3	1.6	1.6	3.3	9.8	14.7	18.0
132.5°	11.5	8.2	4.9	3.3	3.3	1.6	1.6	3.3	9.8	13.1	13.1
135°	8.2	6.6	3.3	3.3	3.3	1.6	3.3	1.6	6.6	11.5	11.5
137.5°	4.9	3.3	3.3	3.3	3.3	1.6	1.6	1.6	4.9	6.6	6.6
140°	1.6	1.6	3.3	3.3	3.3	1.6	1.6	1.6	3.3	3.3	3.3
142.5°	1.6	1.6	3.3	3.3	3.3	1.6	1.6	1.6	3.3	3.3	3.3
145°	1.6	1.6	1.6	3.3	3.3	1.6	1.6	1.6	1.6	1.6	3.3
147.5°	1.6	1.6	1.6	3.3	1.6	1.6	1.6	1.6	1.6	1.6	3.3
150°	1.6	1.6	1.6	3.3	3.3	1.6	1.6	3.3	3.3	3.3	3.3
152.5°	1.6	1.6	3.3	3.3	1.6	1.6	1.6	3.3	3.3	3.3	3.3
155°	4.9	4.9	3.3	3.3	1.6	1.6	0.0	1.6	3.3	3.3	3.3
157.5°	1.6	1.6	3.3	1.6	1.6	1.6	0.0	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6	1.6	1.6	1.6
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)