

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: P560860

Luminaire Tested: **SDL-PA1-70-727-U-SL3-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560860
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-PA1-70-727-U-SL3-A
Description: Springdale
(1) 70 CRI, 2700K, 930mA 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: 6613.7 lumens
Efficiency: N/A
Efficacy: 91.6 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): 72.2
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

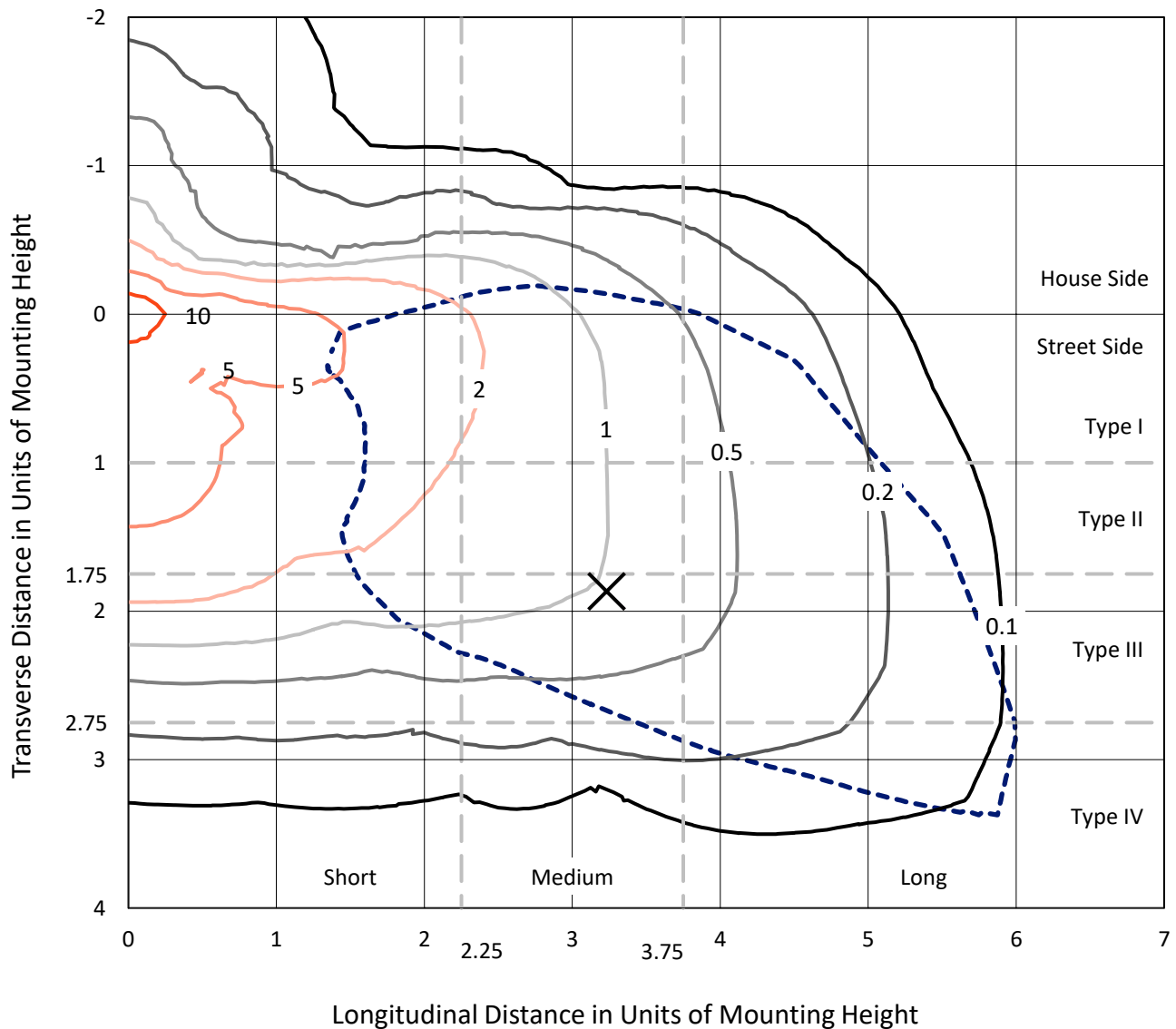


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

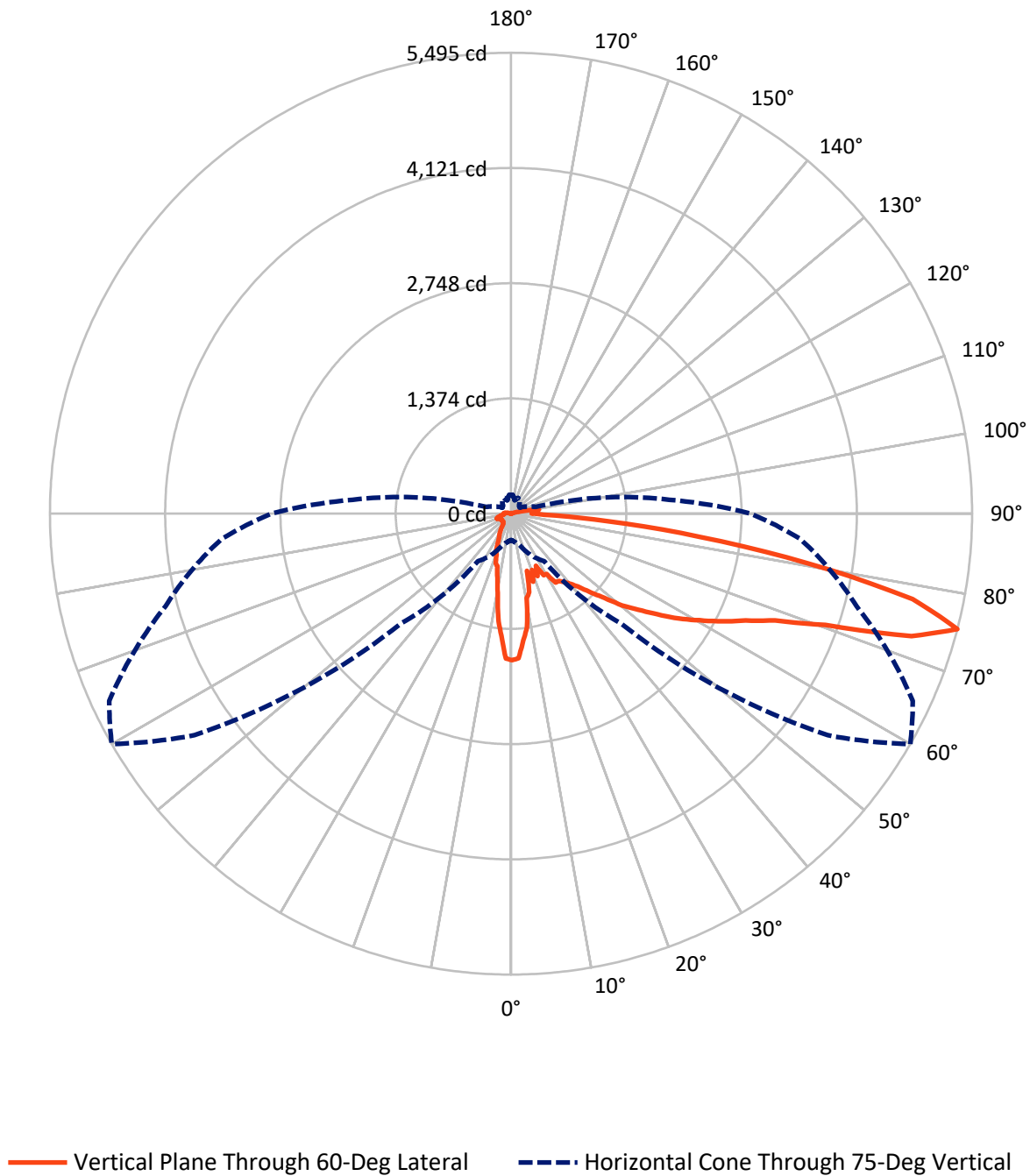


Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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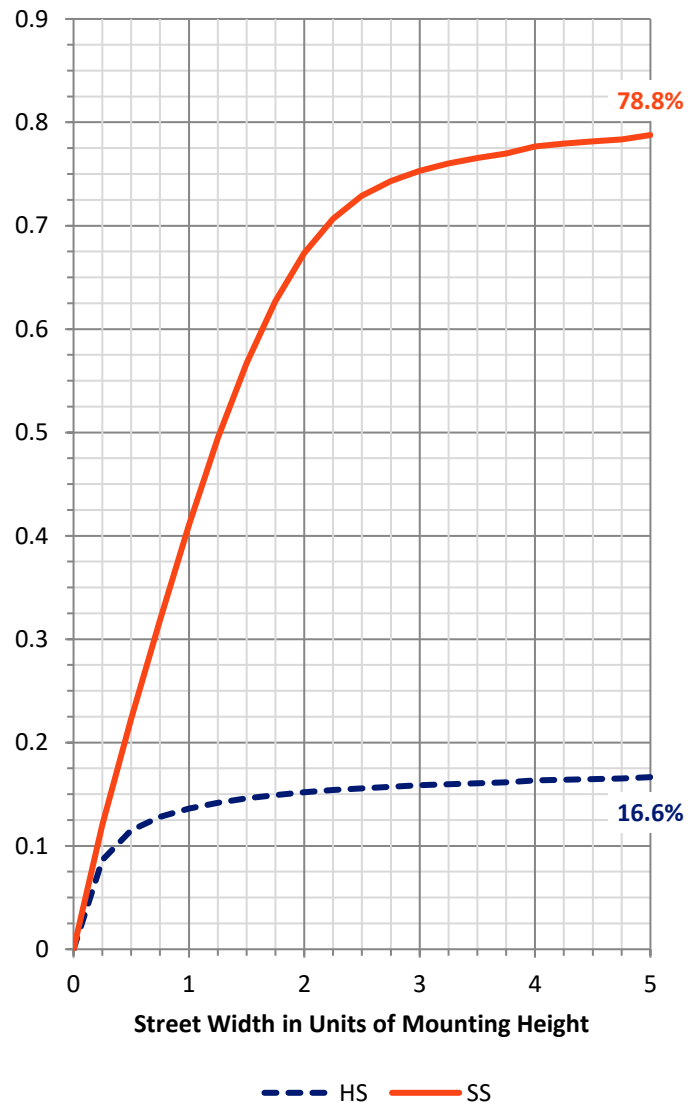
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1161.1	88.0	1249.1
	% Fixture	17.6	1.3	18.9
Street Side	Lumens	5271.5	93.1	5364.6
	% Fixture	79.7	1.4	81.1
Total	Lumens	6432.5	181.2	6613.7
	% Fixture	97.3	2.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	1.9
10°-20°	228.7	3.5
20°-30°	296.4	4.5
30°-40°	494.0	7.5
40°-50°	790.9	12.0
50°-60°	1214.3	18.4
60°-70°	1517.2	22.9
70°-80°	1383.8	20.9
80°-90°	378.7	5.7
90°-100°	127.2	1.9
100°-110°	28.9	0.4
110°-120°	9.2	0.1
120°-130°	8.6	0.1
130°-140°	4.1	0.1
140°-150°	1.7	0.0
150°-160°	1.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6432.5	97.3
0°-180°	6613.7	100.0

Coefficient of Utilization



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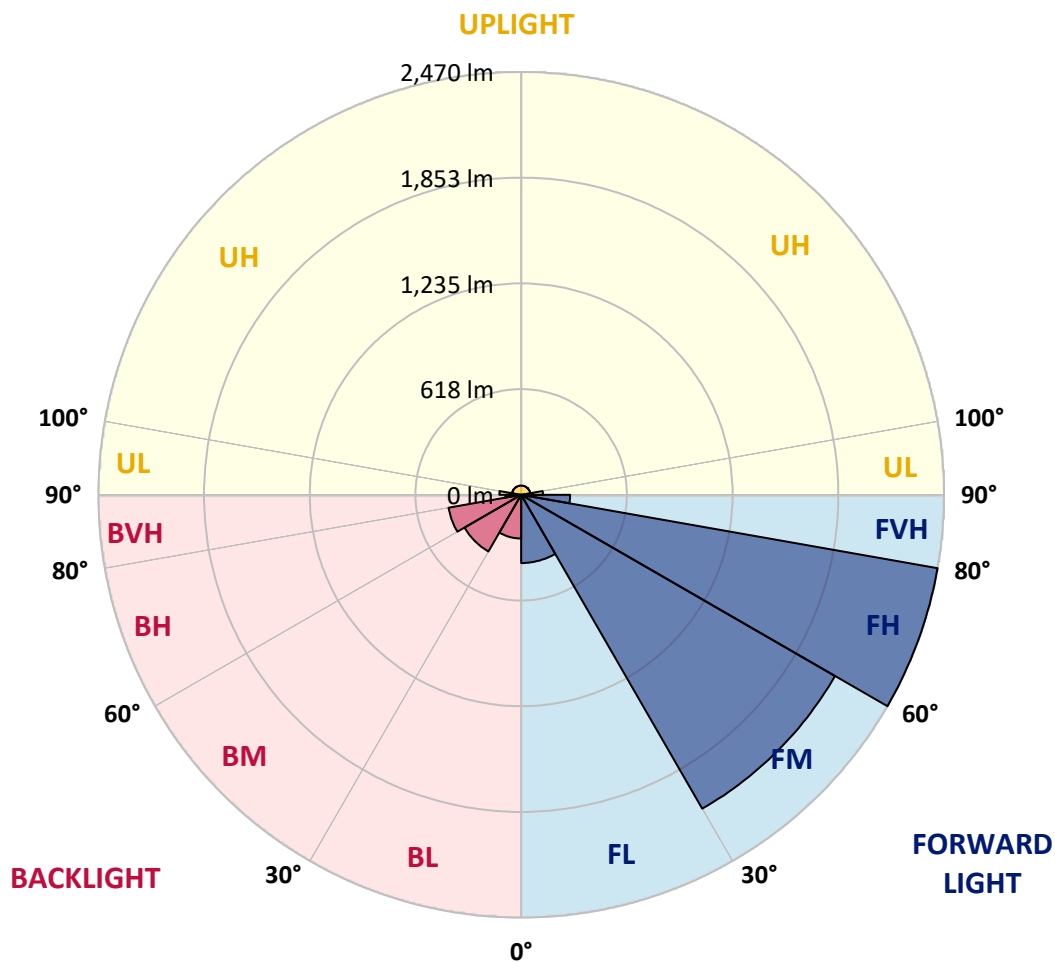
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	398.4	6.0			
FM	(30°-60°)	2117.1	32.0			
FH	(60°-80°)	2470.3	37.4			G2/5000
FVH	(80°-90°)	285.8	4.3			G3/500
BL	(0°-30°)	255.3	3.9	B1/500		
BM	(30°-60°)	382.1	5.8	B1/1000		
BH	(60°-80°)	430.8	6.5	B1/500		G1/500
BVH	(80°-90°)	92.9	1.4			G1/100
UL	(90°-100°)	127.2	1.9		U3/500	
UH	(100°-180°)	54.0	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°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6
2.5°	1465.4	1602.1	1589.2	1695.0	1695.0	1718.2	1728.5	1725.9	1736.3	1746.6	1744.0
5°	1349.3	1351.9	1362.2	1385.4	1393.1	1400.9	1426.7	1517.0	1669.2	1705.3	1705.3
7.5°	1114.5	1176.4	1253.8	1266.7	1313.2	1336.4	1364.7	1369.9	1266.7	1452.5	1470.5
10°	1130.0	1132.6	1127.4	1155.8	1122.2	1109.3	1019.0	1024.2	1034.5	1104.2	1243.5
12.5°	884.9	936.5	1047.4	1099.0	1016.5	926.2	921.0	964.9	982.9	879.7	1096.4
15°	1011.3	1016.5	1019.0	1021.6	758.5	879.7	768.8	706.9	792.0	998.4	1135.1
17.5°	792.0	797.2	918.4	915.9	835.9	675.9	835.9	853.9	820.4	848.8	949.4
20°	928.8	931.3	923.6	717.2	732.7	828.1	719.8	717.2	758.5	977.8	1104.2
22.5°	763.6	753.3	750.7	820.4	745.6	797.2	699.1	810.1	879.7	872.0	833.3
25°	957.1	954.6	915.9	714.6	763.6	675.9	817.8	686.2	761.1	1055.2	1104.2
27.5°	895.2	859.1	794.6	825.6	712.0	792.0	727.5	830.7	877.2	1083.5	1279.6
30°	1158.4	1132.6	1057.7	833.3	786.9	730.1	779.1	833.3	998.4	1395.7	1462.8
32.5°	1529.9	1501.5	1233.2	1021.6	825.6	864.3	820.4	977.8	1101.6	1424.1	1475.7
35°	1643.4	1604.7	1473.1	1238.3	946.8	918.4	874.6	985.5	1117.1	1498.9	1498.9
37.5°	1707.9	1705.3	1643.4	1367.3	1068.1	1052.6	941.7	1034.5	1179.0	1571.1	1555.7
40°	1718.2	1731.1	1759.5	1480.8	1212.5	1179.0	1029.4	1101.6	1266.7	1658.9	1627.9
42.5°	1803.3	1826.5	1891.0	1630.5	1357.0	1326.1	1132.6	1199.6	1362.2	1787.8	1780.1
45°	1940.1	1963.3	2020.0	1795.6	1483.4	1462.8	1300.3	1341.5	1517.0	2014.9	1942.6
47.5°	2223.8	2229.0	2205.8	1932.3	1620.2	1620.2	1462.8	1501.5	1656.3	2223.8	2154.2
50°	2507.6	2476.7	2373.5	2094.9	1756.9	1795.6	1630.5	1720.8	1813.6	2435.4	2339.9
52.5°	2665.0	2659.8	2520.5	2218.7	1875.6	1950.4	1824.0	1901.4	1958.1	2649.5	2515.4
55°	2670.2	2662.4	2567.0	2278.0	1986.5	2110.3	2017.5	2118.1	2159.3	2817.2	2755.3
57.5°	2585.0	2605.7	2556.6	2311.6	2040.7	2265.1	2252.2	2360.6	2381.2	3015.9	2920.4
60°	2450.9	2448.3	2507.6	2342.5	2123.2	2412.2	2468.9	2579.9	2690.8	3168.1	3067.5
62.5°	2115.5	2138.7	2306.4	2342.5	2213.5	2603.1	2711.4	2827.5	2964.3	3307.4	3199.0
65°	1656.3	1669.2	1932.3	2172.2	2239.3	2858.5	2956.5	3072.6	3217.1	3449.3	3346.1
67.5°	1001.0	1086.1	1313.2	1787.8	2107.8	3165.5	3346.1	3395.1	3477.7	3609.2	3562.8
70°	570.2	595.9	704.3	1124.8	1759.5	3263.5	4063.3	3975.6	3890.4	3921.4	3833.7
72.5°	433.4	448.9	497.9	665.6	1052.6	2881.7	4667.0	4992.0	4625.7	4246.5	3825.9
75°	314.7	330.2	379.2	536.6	691.4	1847.2	4605.1	5495.1	5283.6	4261.9	3459.6
77.5°	196.1	198.6	227.0	456.6	621.7	926.2	3604.1	4894.0	4986.9	3980.7	2868.8
80°	136.7	139.3	144.5	245.1	572.7	743.0	2419.9	3593.8	3725.3	2770.8	1462.8
82.5°	98.0	103.2	108.4	144.5	371.5	709.5	1506.6	2262.5	1994.2	1003.6	593.4
85°	51.6	56.8	69.7	87.7	149.6	771.4	903.0	1150.6	910.7	407.6	353.4
87.5°	20.6	18.1	15.5	23.2	41.3	296.7	350.9	387.0	299.3	229.6	281.2
90°	18.1	15.5	10.3	12.9	18.1	105.8	221.9	247.7	206.4	224.4	283.8
92.5°	18.1	15.5	10.3	10.3	18.1	105.8	265.7	270.9	214.1	229.6	296.7
95°	18.1	18.1	10.3	10.3	18.1	95.5	314.7	309.6	221.9	242.5	314.7
97.5°	18.1	18.1	7.7	10.3	18.1	64.5	325.1	335.4	216.7	172.9	260.6
100°	18.1	18.1	7.7	7.7	15.5	41.3	227.0	245.1	160.0	56.8	64.5
102.5°	18.1	18.1	7.7	7.7	10.3	28.4	100.6	121.3	95.5	18.1	20.6
105°	18.1	20.6	5.2	5.2	7.7	15.5	43.9	49.0	38.7	12.9	23.2
107.5°	20.6	23.2	5.2	5.2	5.2	7.7	15.5	18.1	10.3	10.3	23.2
110°	23.2	23.2	5.2	5.2	5.2	7.7	5.2	5.2	7.7	10.3	25.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	18.1	15.5	2.6	5.2	5.2	5.2	5.2	5.2	5.2	10.3	25.8
115°	10.3	7.7	2.6	5.2	5.2	5.2	2.6	5.2	7.7	10.3	23.2
117.5°	10.3	7.7	2.6	2.6	2.6	5.2	2.6	2.6	7.7	12.9	28.4
120°	7.7	7.7	2.6	2.6	2.6	2.6	2.6	5.2	5.2	18.1	38.7
122.5°	7.7	7.7	2.6	2.6	2.6	2.6	2.6	5.2	5.2	18.1	38.7
125°	10.3	10.3	5.2	2.6	2.6	2.6	2.6	5.2	5.2	15.5	36.1
127.5°	7.7	7.7	5.2	2.6	2.6	2.6	2.6	5.2	5.2	12.9	28.4
130°	7.7	7.7	5.2	2.6	2.6	2.6	2.6	5.2	2.6	12.9	23.2
132.5°	7.7	7.7	5.2	2.6	2.6	2.6	2.6	2.6	2.6	7.7	18.1
135°	7.7	7.7	5.2	2.6	2.6	2.6	2.6	2.6	2.6	5.2	12.9
137.5°	5.2	5.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.2
140°	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
142.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
145°	2.6	2.6	2.6	2.6	5.2	2.6	2.6	2.6	2.6	2.6	2.6
147.5°	2.6	2.6	2.6	5.2	5.2	5.2	2.6	2.6	2.6	2.6	2.6
150°	5.2	5.2	10.3	7.7	5.2	2.6	2.6	2.6	2.6	2.6	2.6
152.5°	10.3	10.3	10.3	7.7	2.6	2.6	5.2	7.7	2.6	2.6	2.6
155°	7.7	7.7	7.7	2.6	2.6	2.6	2.6	2.6	5.2	7.7	7.7
157.5°	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
160°	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6	1746.6
2.5°	1736.3	1741.4	1736.3	1731.1	1725.9	1710.5	1604.7	1475.7	1465.4	1475.7	1470.5
5°	1692.4	1692.4	1689.8	1511.8	1406.0	1375.1	1367.3	1359.6	1344.1	1336.4	1341.5
7.5°	1460.2	1452.5	1362.2	1202.2	1302.8	1266.7	1246.1	1235.8	1081.0	1024.2	1029.4
10°	1220.3	1220.3	1013.9	957.1	952.0	967.5	1073.2	1065.5	1044.8	1031.9	1044.8
12.5°	1052.6	1096.4	804.9	861.7	699.1	774.0	846.2	897.8	740.4	696.6	704.3
15°	1117.1	1101.6	884.9	675.9	616.6	650.1	521.1	652.7	642.4	621.7	619.2
17.5°	975.2	895.2	737.8	634.6	608.8	459.2	446.3	461.8	423.1	387.0	405.0
20°	1060.3	1016.5	781.7	565.0	469.5	417.9	314.7	294.1	374.1	392.1	389.6
22.5°	884.9	737.8	639.8	562.4	379.2	299.3	237.3	260.6	278.6	296.7	304.4
25°	1039.7	959.7	699.1	420.5	307.0	219.3	214.1	193.5	291.5	332.8	330.2
27.5°	1199.6	1086.1	673.3	394.7	221.9	188.3	172.9	196.1	203.8	229.6	245.1
30°	1341.5	1204.8	779.1	366.3	185.8	141.9	154.8	160.0	198.6	214.1	214.1
32.5°	1336.4	1171.3	696.6	312.2	152.2	129.0	129.0	152.2	175.4	211.5	214.1
35°	1333.8	1145.5	621.7	242.5	134.2	113.5	118.7	144.5	175.4	196.1	198.6
37.5°	1364.7	1137.7	546.9	196.1	121.3	108.4	113.5	136.7	188.3	209.0	209.0
40°	1411.2	1142.9	472.1	167.7	116.1	105.8	108.4	144.5	170.3	188.3	188.3
42.5°	1553.1	1217.7	407.6	154.8	116.1	103.2	103.2	134.2	172.9	203.8	206.4
45°	1658.9	1277.0	358.6	154.8	113.5	98.0	108.4	134.2	152.2	224.4	239.9
47.5°	1829.1	1385.4	312.2	154.8	113.5	95.5	100.6	131.6	160.0	258.0	268.3
50°	1999.4	1493.7	291.5	154.8	113.5	92.9	113.5	126.4	160.0	268.3	276.0
52.5°	2180.0	1627.9	278.6	154.8	113.5	98.0	123.8	152.2	172.9	239.9	237.3
55°	2365.7	1746.6	270.9	160.0	113.5	98.0	134.2	141.9	147.1	185.8	190.9
57.5°	2538.6	1891.0	286.4	160.0	110.9	103.2	126.4	139.3	129.0	162.5	165.1
60°	2675.3	2022.6	325.1	154.8	108.4	103.2	129.0	152.2	144.5	178.0	183.2
62.5°	2832.7	2161.9	415.4	157.4	108.4	105.8	144.5	165.1	147.1	175.4	185.8
65°	3039.1	2373.5	516.0	172.9	110.9	110.9	147.1	178.0	147.1	172.9	172.9
67.5°	3271.3	2569.5	516.0	201.2	118.7	118.7	147.1	188.3	157.4	172.9	172.9
70°	3441.5	2579.9	425.7	221.9	129.0	126.4	152.2	196.1	160.0	190.9	188.3
72.5°	3253.2	2298.7	353.4	219.3	139.3	131.6	172.9	201.2	162.5	216.7	214.1
75°	2855.9	1896.2	307.0	196.1	126.4	134.2	180.6	206.4	165.1	227.0	221.9
77.5°	2252.2	1382.8	260.6	165.1	110.9	129.0	185.8	211.5	170.3	239.9	237.3
80°	1091.3	694.0	211.5	139.3	100.6	123.8	185.8	209.0	167.7	247.7	247.7
82.5°	492.8	345.7	144.5	95.5	100.6	126.4	190.9	211.5	167.7	242.5	239.9
85°	319.9	237.3	92.9	74.8	100.6	144.5	193.5	201.2	160.0	224.4	224.4
87.5°	239.9	165.1	49.0	46.4	110.9	157.4	193.5	185.8	154.8	211.5	206.4
90°	245.1	175.4	51.6	46.4	118.7	160.0	193.5	183.2	149.6	190.9	190.9
92.5°	265.7	193.5	59.3	51.6	121.3	144.5	183.2	165.1	139.3	165.1	162.5
95°	288.9	216.7	69.7	59.3	105.8	105.8	144.5	134.2	118.7	126.4	126.4
97.5°	211.5	154.8	61.9	64.5	80.0	67.1	95.5	90.3	61.9	56.8	54.2
100°	61.9	51.6	56.8	61.9	56.8	49.0	72.2	69.7	41.3	20.6	20.6
102.5°	23.2	25.8	51.6	56.8	43.9	36.1	51.6	56.8	33.5	5.2	7.7
105°	20.6	18.1	36.1	43.9	25.8	20.6	25.8	36.1	20.6	5.2	5.2
107.5°	23.2	18.1	18.1	23.2	10.3	10.3	10.3	12.9	7.7	5.2	5.2
110°	23.2	18.1	10.3	10.3	7.7	7.7	7.7	5.2	5.2	5.2	5.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.2	18.1	10.3	10.3	7.7	7.7	5.2	5.2	7.7	12.9	12.9
115°	25.8	20.6	10.3	7.7	5.2	7.7	5.2	2.6	7.7	18.1	18.1
117.5°	31.0	23.2	7.7	7.7	5.2	5.2	5.2	2.6	7.7	23.2	25.8
120°	38.7	28.4	10.3	5.2	5.2	5.2	5.2	2.6	10.3	25.8	28.4
122.5°	38.7	31.0	10.3	5.2	5.2	2.6	2.6	5.2	10.3	25.8	28.4
125°	36.1	28.4	10.3	5.2	5.2	2.6	2.6	2.6	12.9	25.8	28.4
127.5°	28.4	25.8	10.3	5.2	2.6	2.6	2.6	5.2	10.3	23.2	23.2
130°	23.2	20.6	7.7	5.2	2.6	2.6	2.6	2.6	10.3	18.1	20.6
132.5°	18.1	15.5	7.7	5.2	2.6	2.6	2.6	2.6	10.3	18.1	18.1
135°	12.9	12.9	5.2	2.6	2.6	2.6	2.6	2.6	7.7	12.9	15.5
137.5°	5.2	5.2	5.2	2.6	2.6	2.6	2.6	2.6	5.2	7.7	7.7
140°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	2.6	5.2	5.2
142.5°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	2.6	2.6	2.6	5.2
145°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	2.6	2.6	2.6	2.6
147.5°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	2.6	2.6	2.6	2.6
150°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	2.6	2.6	2.6	2.6
152.5°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	2.6	2.6	5.2	5.2
155°	7.7	7.7	7.7	5.2	2.6	0.0	0.0	0.0	2.6	2.6	5.2
157.5°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0	2.6	2.6	2.6
160°	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	2.6	2.6	2.6
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)