

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: P561149

Luminaire Tested: **SDL-PA1-80-827-U-SL3**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-16)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-80-827-U-SL3
Description: Springdale
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6822.7 lumens
Efficiency: N/A
Efficacy: 83.2 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 - U0 - G3

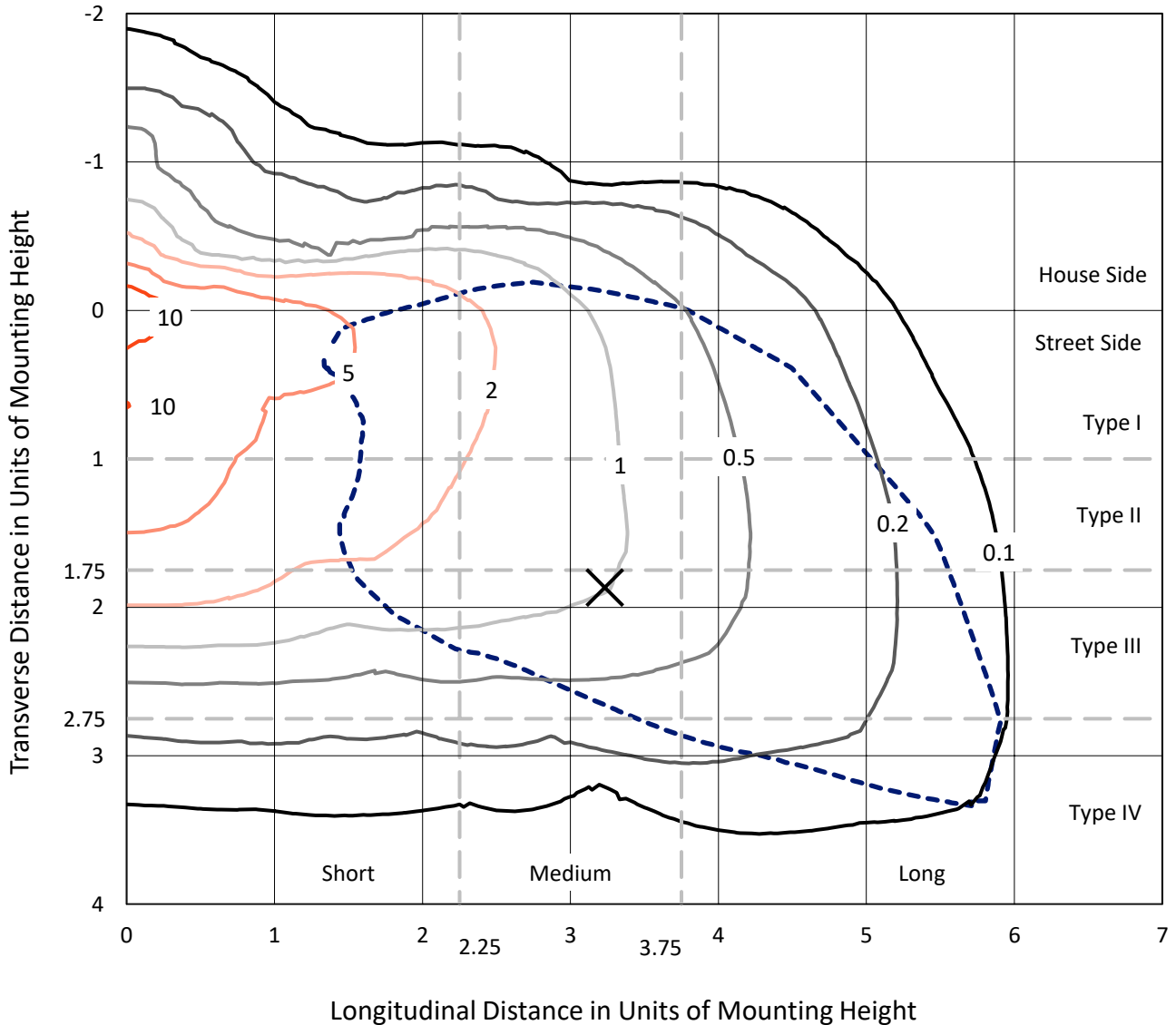
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

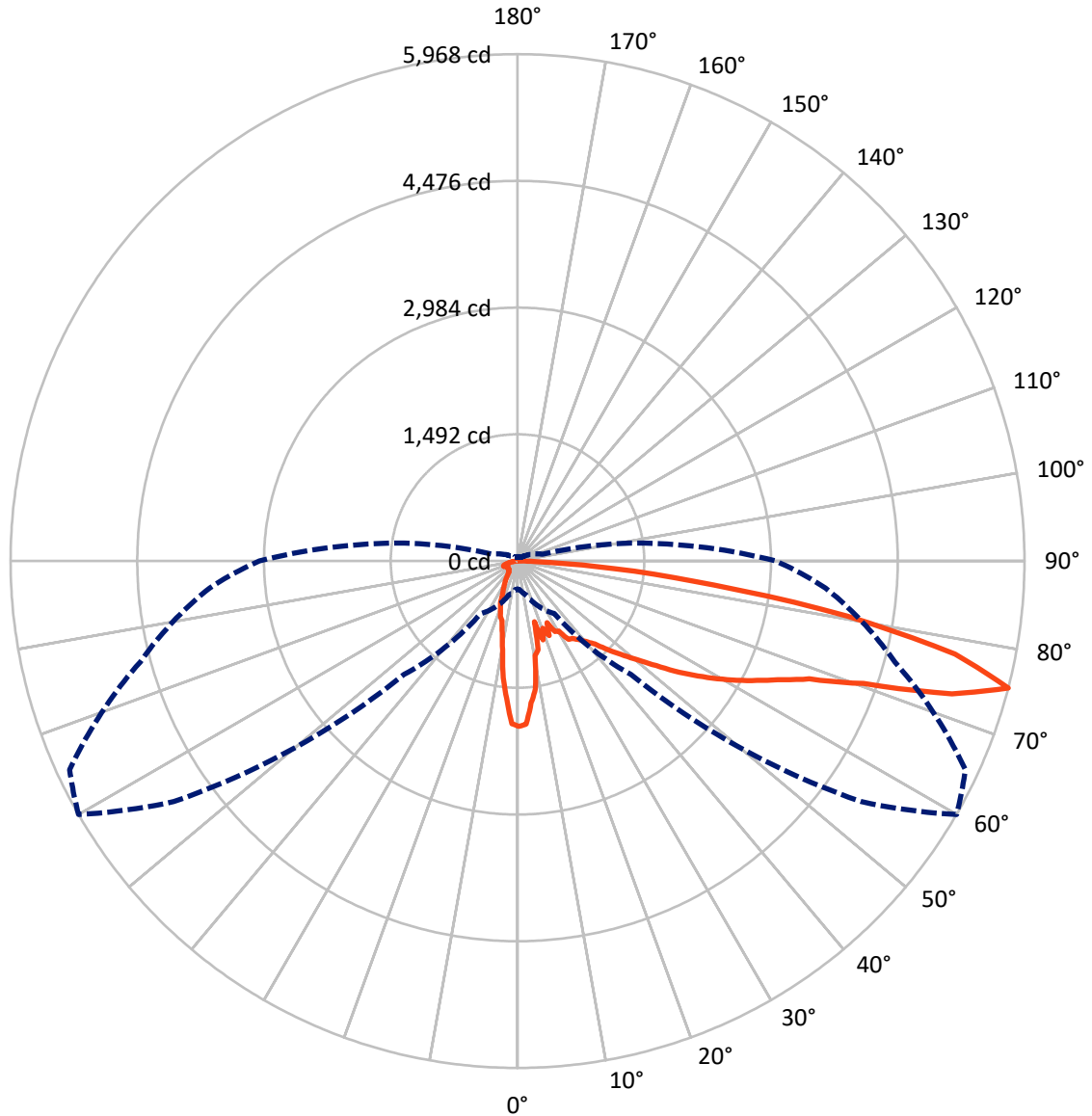
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.5 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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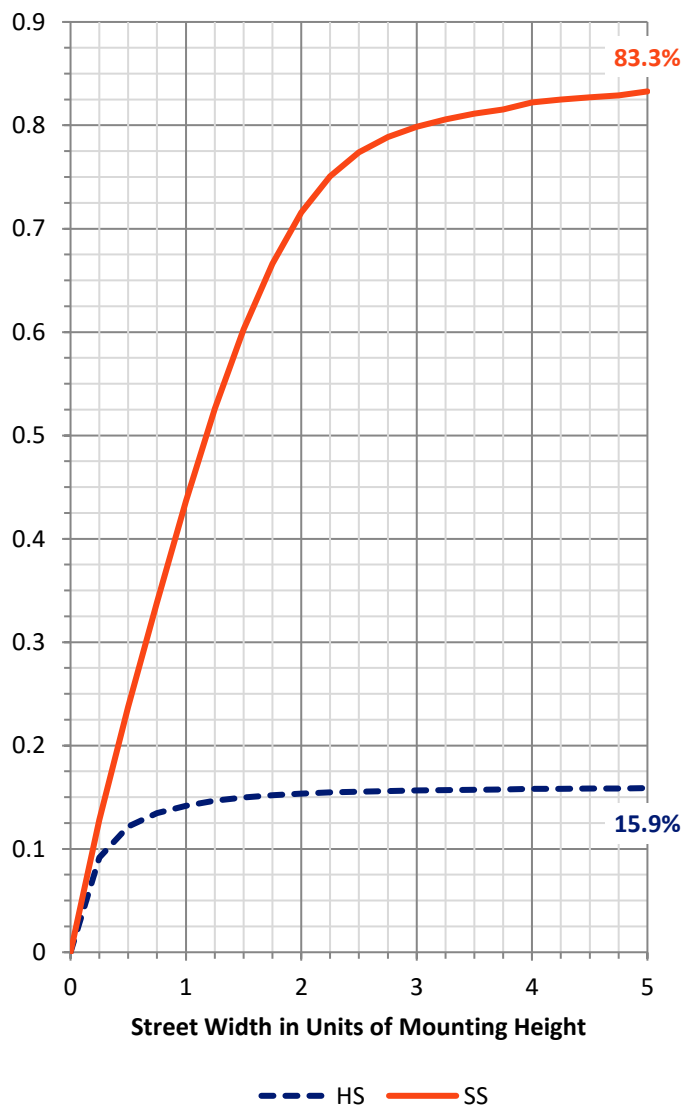
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1096.6	0.0	1096.6
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	5726.1	0.0	5726.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	6822.7	0.0	6822.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	2.1
10°-20°	256.1	3.8
20°-30°	335.5	4.9
30°-40°	553.7	8.1
40°-50°	864.6	12.7
50°-60°	1316.4	19.3
60°-70°	1631.0	23.9
70°-80°	1440.9	21.1
80°-90°	282.5	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6822.7	100.0
0°-180°	6822.7	100.0

Coefficient of Utilization



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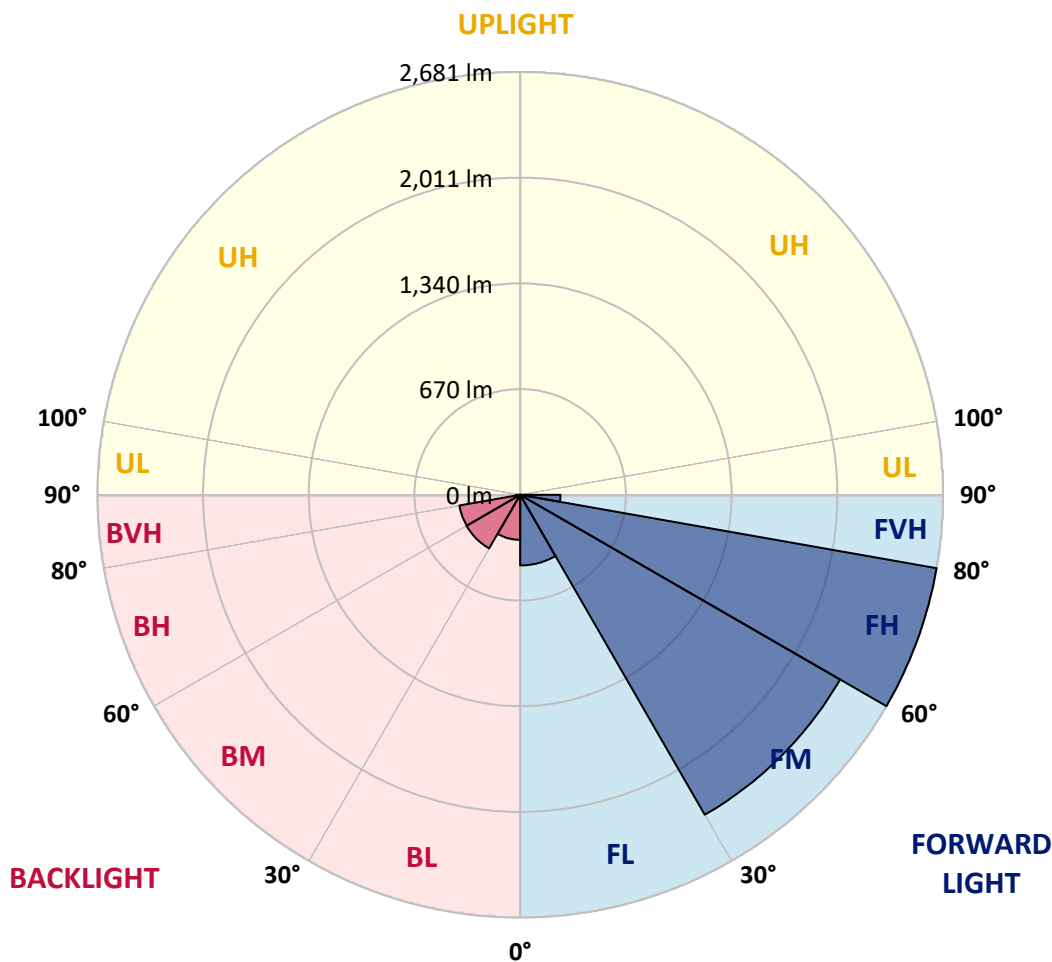
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.9	6.6			
FM (30°-60°)	2341.8	34.3			
FH (60°-80°)	2680.8	39.3			G2/5000
FVH (80°-90°)	255.5	3.7			G3/500
BL (0°-30°)	285.7	4.2	B1/500		
BM (30°-60°)	392.9	5.8	B1/1000		
BH (60°-80°)	391.1	5.7	B1/500		G1/500
BVH (80°-90°)	26.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1
2.5°	1616.3	1798.7	1756.2	1713.8	1778.7	1841.2	1861.2	1878.7	1888.6	1898.6	1908.6
5°	1501.4	1503.9	1506.4	1508.9	1516.4	1521.4	1531.4	1541.4	1551.4	1558.9	1568.9
7.5°	1159.2	1199.1	1264.1	1329.0	1369.0	1406.5	1429.0	1449.0	1464.0	1478.9	1493.9
10°	1289.1	1296.6	1299.1	1299.1	1311.6	1324.1	1229.1	1131.7	1179.2	1226.6	1174.2
12.5°	1011.8	1039.3	1121.7	1201.6	1226.6	1249.1	1204.1	1159.2	1089.2	1016.8	1011.8
15°	1161.7	1169.2	1171.7	1171.7	1094.2	1016.8	964.3	909.3	951.8	991.8	899.4
17.5°	899.4	906.9	971.8	1036.8	1049.2	1061.7	1006.8	951.8	829.4	704.5	821.9
20°	1069.2	1074.2	1074.2	1074.2	944.3	814.4	824.4	831.9	871.9	911.8	879.4
22.5°	861.9	861.9	861.9	861.9	901.9	939.3	859.4	779.4	824.4	869.4	829.4
25°	1084.2	1091.7	1074.2	1054.2	934.3	814.4	851.9	889.4	821.9	754.5	814.4
27.5°	989.3	981.8	946.8	909.3	926.8	944.3	861.9	779.4	831.9	884.4	859.4
30°	1314.1	1291.6	1254.1	1216.6	1074.2	931.8	909.3	886.9	841.9	794.4	846.9
32.5°	1746.2	1688.8	1513.9	1339.0	1251.6	1164.2	1051.7	939.3	929.3	916.8	931.8
35°	1861.2	1823.7	1751.2	1676.3	1526.4	1374.0	1231.6	1086.7	1039.3	989.3	999.3
37.5°	1883.7	1871.2	1856.2	1838.7	1686.3	1533.9	1379.0	1224.1	1174.2	1121.7	1084.2
40°	1901.1	1911.1	1938.6	1963.6	1811.2	1656.3	1516.4	1374.0	1321.6	1266.6	1201.6
42.5°	1981.1	2008.6	2043.5	2076.0	1936.1	1796.2	1673.8	1551.4	1483.9	1416.5	1356.5
45°	2165.9	2180.9	2218.4	2253.4	2121.0	1986.1	1846.2	1703.8	1646.3	1588.9	1528.9
47.5°	2435.8	2460.7	2458.2	2455.7	2308.3	2158.5	2001.1	1841.2	1803.7	1763.7	1706.3
50°	2775.5	2758.0	2710.6	2663.1	2503.2	2340.8	2156.0	1968.6	1951.1	1931.1	1883.7
52.5°	2945.4	2932.9	2867.9	2800.5	2638.1	2475.7	2275.9	2073.5	2096.0	2118.5	2073.5
55°	2955.4	2947.9	2900.4	2853.0	2695.6	2538.2	2360.8	2183.4	2238.4	2293.4	2275.9
57.5°	2882.9	2885.4	2870.4	2853.0	2713.1	2573.2	2425.8	2278.4	2373.3	2465.7	2483.2
60°	2698.1	2735.5	2760.5	2785.5	2698.1	2610.6	2483.2	2355.8	2500.7	2645.6	2693.1
62.5°	2355.8	2388.3	2478.2	2565.7	2583.1	2598.1	2513.2	2425.8	2620.6	2813.0	2890.4
65°	1826.2	1871.2	2006.1	2141.0	2280.9	2420.8	2440.8	2460.7	2790.5	3120.3	3185.2
67.5°	1139.2	1164.2	1306.6	1446.5	1728.8	2008.6	2168.4	2328.3	2897.9	3465.0	3567.4
70°	602.1	639.5	709.5	776.9	1019.3	1261.6	1586.4	1911.1	2735.5	3560.0	3979.6
72.5°	457.2	472.2	509.6	547.1	632.0	717.0	921.8	1126.7	2141.0	3152.7	4119.5
75°	329.8	342.3	382.2	419.7	504.6	587.1	672.0	754.5	1321.6	1888.6	3415.1
77.5°	192.4	197.4	217.3	234.8	367.2	499.6	592.1	682.0	819.4	954.3	2438.3
80°	132.4	134.9	142.4	149.9	207.4	264.8	442.2	619.6	682.0	742.0	1616.3
82.5°	87.4	99.9	104.9	109.9	129.9	149.9	259.8	367.2	539.6	709.5	1104.2
85°	45.0	50.0	60.0	67.5	77.4	84.9	117.4	147.4	447.2	744.5	794.4
87.5°	5.0	7.5	10.0	10.0	12.5	15.0	22.5	30.0	134.9	239.8	204.9
90°	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1
2.5°	1918.6	1923.6	1921.1	1926.1	1928.6	1931.1	1933.6	1933.6	1931.1	1926.1	1921.1
5°	1578.9	1678.8	1848.7	1866.2	1883.7	1888.6	1893.6	1896.1	1891.1	1883.7	1876.2
7.5°	1506.4	1521.4	1369.0	1491.4	1611.3	1621.3	1628.8	1623.8	1626.3	1558.9	1488.9
10°	1121.7	1134.2	1139.2	1176.7	1211.6	1294.1	1376.5	1364.0	1354.0	1234.1	1111.7
12.5°	1006.8	1071.7	1086.7	1024.3	961.8	1046.8	1131.7	1121.7	1104.2	994.3	884.4
15°	806.9	739.5	884.4	1019.3	1151.7	1231.6	1309.1	1286.6	1266.6	1126.7	984.3
17.5°	936.8	976.8	929.3	949.3	969.3	1029.3	1086.7	1051.7	1039.3	941.8	841.9
20°	846.9	844.4	811.9	929.3	1046.8	1164.2	1279.1	1244.1	1184.2	994.3	801.9
22.5°	789.4	951.8	1021.8	1006.8	989.3	944.3	896.9	866.9	821.9	779.4	734.5
25°	871.9	804.4	859.4	1039.3	1216.6	1249.1	1281.6	1206.6	1109.2	916.8	724.5
27.5°	834.4	939.3	1009.3	1129.2	1246.6	1359.0	1471.4	1371.5	1244.1	1004.3	762.0
30°	899.4	956.8	1151.7	1376.5	1601.4	1641.3	1678.8	1541.4	1371.5	1129.2	886.9
32.5°	946.8	1099.2	1271.6	1446.5	1618.8	1648.8	1678.8	1523.9	1329.0	1061.7	794.4
35°	1006.8	1119.2	1276.6	1481.4	1686.3	1693.8	1698.8	1518.9	1299.1	996.8	692.0
37.5°	1046.8	1174.2	1344.0	1561.4	1778.7	1763.7	1746.2	1541.4	1289.1	951.8	614.6
40°	1136.7	1246.6	1429.0	1651.3	1873.7	1848.7	1823.7	1588.9	1291.6	906.9	519.6
42.5°	1294.1	1336.5	1533.9	1771.2	2008.6	1981.1	1951.1	1671.3	1321.6	881.9	439.7
45°	1466.4	1486.4	1656.3	1926.1	2195.9	2161.0	2126.0	1798.7	1376.5	869.4	362.2
47.5°	1646.3	1641.3	1798.7	2126.0	2450.7	2375.8	2300.9	1948.6	1478.9	894.4	309.8
50°	1833.7	1826.2	1978.6	2330.8	2683.1	2603.1	2523.2	2128.5	1596.4	939.3	279.8
52.5°	2026.0	2043.5	2156.0	2523.2	2887.9	2815.5	2740.5	2323.3	1711.3	989.3	267.3
55°	2255.9	2310.8	2355.8	2723.0	3090.3	3017.8	2942.9	2523.2	1871.2	1066.7	262.3
57.5°	2498.2	2570.7	2590.6	2925.4	3260.2	3212.7	3162.7	2713.1	2033.5	1156.7	277.3
60°	2740.5	2835.5	2907.9	3177.7	3445.0	3390.1	3335.1	2905.4	2185.9	1256.6	327.3
62.5°	2965.4	3097.8	3215.2	3412.6	3607.4	3542.5	3477.5	3072.8	2358.3	1394.0	427.2
65°	3247.7	3365.1	3492.5	3622.4	3749.8	3687.4	3624.9	3282.6	2588.1	1566.4	542.1
67.5°	3669.9	3704.8	3769.8	3849.7	3927.2	3889.7	3849.7	3540.0	2788.0	1666.3	542.1
70°	4396.9	4319.4	4222.0	4219.5	4214.5	4154.5	4092.1	3684.9	2800.5	1626.3	452.2
72.5°	5083.9	5348.7	5038.9	4814.1	4589.2	4324.4	4057.1	3490.0	2473.2	1416.5	359.7
75°	4939.0	5968.2	5818.3	5208.8	4599.2	4119.5	3639.9	3040.3	2036.0	1171.7	307.3
77.5°	3919.7	5266.2	5408.6	4849.0	4286.9	3637.4	2985.4	2350.8	1411.5	834.4	257.3
80°	2488.2	3937.2	3962.2	3442.5	2920.4	2223.4	1526.4	1024.3	679.5	442.2	204.9
82.5°	1498.9	2330.8	2028.5	1454.0	879.4	609.6	337.3	324.8	249.8	184.9	119.9
85°	844.4	1141.7	819.4	537.1	254.8	182.4	107.4	114.9	109.9	89.9	67.5
87.5°	167.4	197.4	134.9	77.4	20.0	20.0	17.5	17.5	12.5	12.5	10.0
90°	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1
2.5°	1921.1	1921.1	1916.1	1911.1	1908.6	1906.1	1831.2	1756.2	1706.3	1653.8	1641.3
5°	1783.7	1691.3	1621.3	1551.4	1536.4	1521.4	1518.9	1516.4	1508.9	1498.9	1496.4
7.5°	1409.0	1326.5	1384.0	1439.0	1429.0	1416.5	1409.0	1399.0	1381.5	1364.0	1276.6
10°	1084.2	1056.7	1056.7	1054.2	1034.3	1014.3	1059.2	1104.2	1154.2	1204.1	1199.1
12.5°	924.3	961.8	864.4	764.5	819.4	871.9	921.8	969.3	994.3	1019.3	941.8
15°	871.9	757.0	724.5	692.0	717.0	742.0	669.5	594.6	652.0	709.5	722.0
17.5°	781.9	722.0	689.5	654.5	559.6	462.2	494.6	527.1	524.6	522.1	509.6
20°	729.5	654.5	597.1	537.1	492.1	447.2	399.7	349.7	327.3	302.3	362.2
22.5°	694.5	654.5	534.6	414.7	379.7	344.8	307.3	267.3	282.3	294.8	304.8
25°	607.1	487.2	419.7	352.2	297.3	239.8	242.3	244.8	232.3	219.8	277.3
27.5°	614.6	464.7	359.7	254.8	234.8	212.3	199.9	184.9	204.9	222.3	227.3
30°	644.5	402.2	304.8	207.4	184.9	162.4	169.9	174.9	174.9	174.9	199.9
32.5°	572.1	349.7	259.8	167.4	154.9	139.9	142.4	142.4	154.9	167.4	179.9
35°	484.7	274.8	212.3	147.4	134.9	122.4	127.4	132.4	144.9	157.4	174.9
37.5°	417.2	217.3	174.9	132.4	124.9	117.4	119.9	122.4	134.9	144.9	159.9
40°	352.2	182.4	154.9	127.4	119.9	112.4	114.9	114.9	124.9	134.9	144.9
42.5°	304.8	167.4	147.4	124.9	117.4	107.4	109.9	109.9	117.4	124.9	132.4
45°	262.3	159.9	142.4	122.4	114.9	104.9	104.9	102.4	109.9	114.9	119.9
47.5°	234.8	157.4	139.9	122.4	112.4	99.9	97.4	94.9	102.4	107.4	114.9
50°	219.8	157.4	139.9	119.9	107.4	94.9	92.4	89.9	99.9	107.4	119.9
52.5°	214.8	159.9	139.9	119.9	104.9	89.9	89.9	89.9	107.4	124.9	129.9
55°	214.8	164.9	142.4	117.4	102.4	87.4	92.4	97.4	102.4	107.4	107.4
57.5°	219.8	162.4	137.4	112.4	102.4	89.9	87.4	84.9	87.4	89.9	89.9
60°	242.3	157.4	132.4	107.4	94.9	82.4	79.9	77.4	82.4	84.9	84.9
62.5°	292.3	154.9	132.4	107.4	92.4	77.4	77.4	74.9	77.4	79.9	82.4
65°	357.2	172.4	139.9	107.4	92.4	77.4	72.4	67.5	72.4	74.9	74.9
67.5°	372.2	202.4	162.4	119.9	97.4	74.9	69.9	65.0	69.9	72.4	72.4
70°	337.3	222.3	174.9	127.4	102.4	74.9	69.9	62.5	65.0	67.5	65.0
72.5°	289.8	217.3	172.4	124.9	99.9	72.4	67.5	60.0	62.5	62.5	60.0
75°	247.3	187.4	147.4	104.9	84.9	62.5	57.5	52.5	55.0	55.0	55.0
77.5°	207.4	154.9	119.9	82.4	67.5	50.0	47.5	45.0	47.5	50.0	47.5
80°	162.4	117.4	89.9	60.0	50.0	37.5	40.0	40.0	42.5	42.5	42.5
82.5°	94.9	69.9	57.5	42.5	35.0	27.5	30.0	32.5	35.0	35.0	35.0
85°	57.5	45.0	37.5	30.0	25.0	17.5	22.5	25.0	25.0	25.0	22.5
87.5°	10.0	10.0	10.0	10.0	7.5	5.0	10.0	12.5	12.5	12.5	10.0
90°	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):

	165°	170°	175°	180°
0°	1946.1	1946.1	1946.1	1946.1
2.5°	1626.3	1626.3	1623.8	1623.8
5°	1493.9	1488.9	1483.9	1488.9
7.5°	1189.1	1154.2	1119.2	1129.2
10°	1191.6	1189.1	1186.7	1184.2
12.5°	861.9	834.4	806.9	789.4
15°	732.0	724.5	714.5	714.5
17.5°	494.6	472.2	449.7	434.7
20°	422.2	434.7	444.7	449.7
22.5°	314.8	324.8	334.8	339.8
25°	332.3	357.2	379.7	382.2
27.5°	229.8	242.3	252.3	247.3
30°	224.8	232.3	239.8	239.8
32.5°	192.4	212.3	232.3	234.8
35°	192.4	202.4	212.3	214.8
37.5°	172.4	179.9	184.9	187.4
40°	154.9	159.9	162.4	162.4
42.5°	137.4	149.9	159.9	159.9
45°	122.4	154.9	187.4	197.4
47.5°	119.9	167.4	214.8	224.8
50°	129.9	174.9	217.3	222.3
52.5°	132.4	157.4	179.9	179.9
55°	104.9	117.4	127.4	124.9
57.5°	89.9	99.9	107.4	107.4
60°	84.9	97.4	107.4	109.9
62.5°	82.4	87.4	92.4	97.4
65°	74.9	74.9	74.9	74.9
67.5°	69.9	69.9	67.5	67.5
70°	62.5	62.5	62.5	62.5
72.5°	57.5	57.5	57.5	55.0
75°	52.5	52.5	50.0	50.0
77.5°	45.0	45.0	45.0	45.0
80°	40.0	40.0	37.5	37.5
82.5°	32.5	32.5	30.0	27.5
85°	20.0	20.0	17.5	15.0
87.5°	7.5	7.5	5.0	2.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)