

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: P561347

Luminaire Tested: **SDL-PA1-90-830-U-SL3**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561347
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-PA1-90-830-U-SL3
Description: Springdale
(1) 80 CRI, 3000K, 1180mA 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: 8082.1 lumens
Efficiency: N/A
Efficacy: 87.5 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

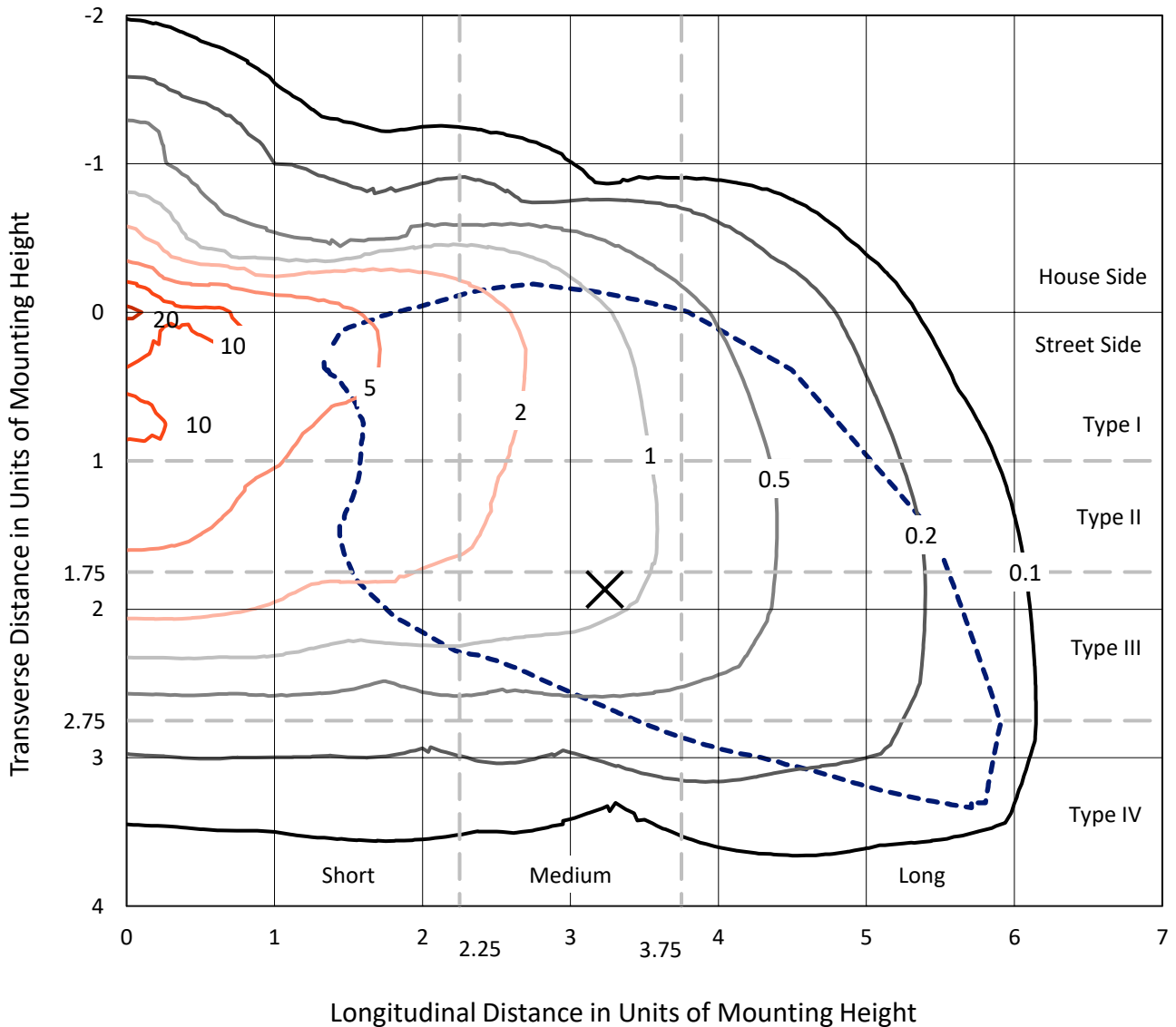
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

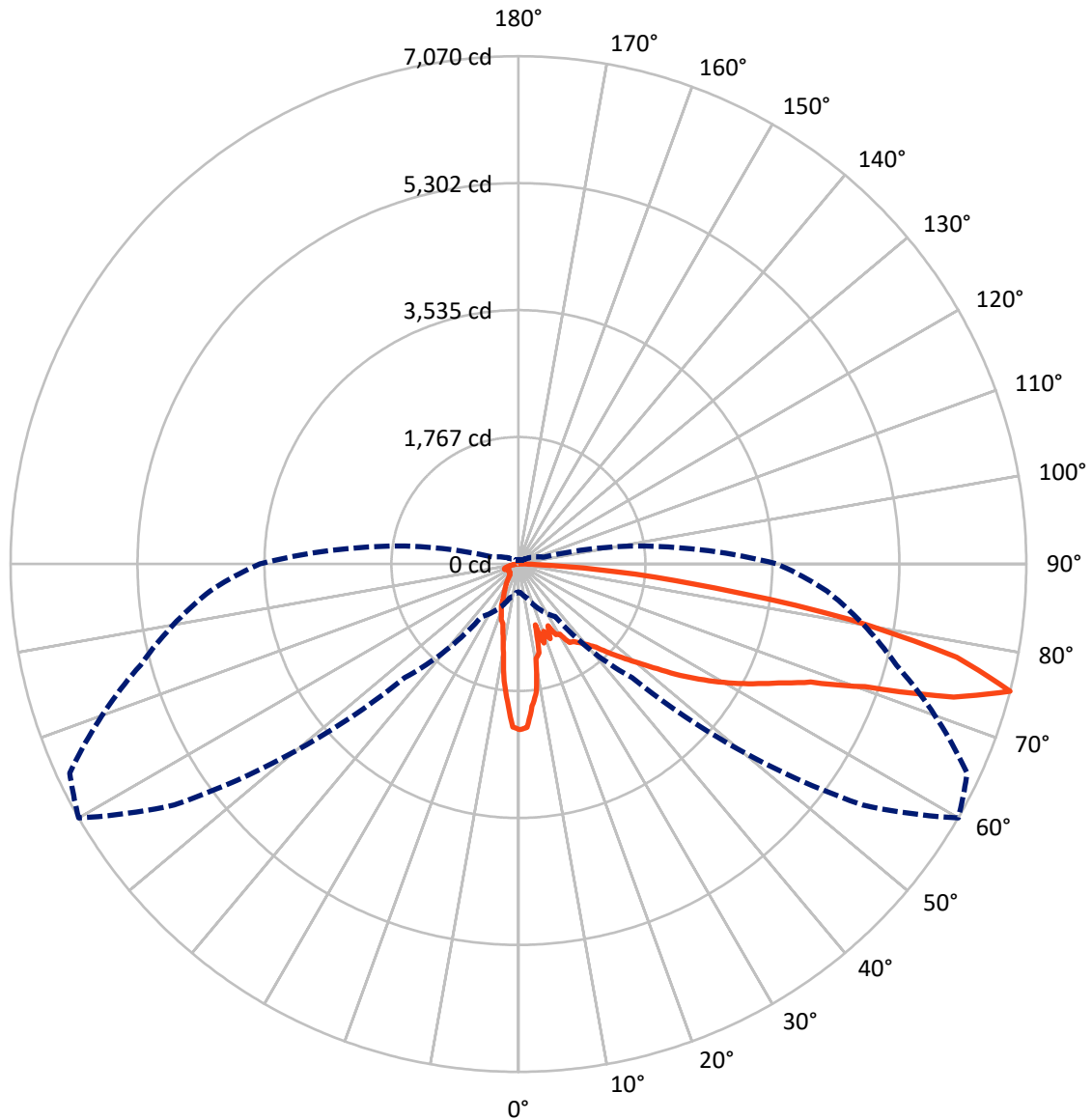
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.1 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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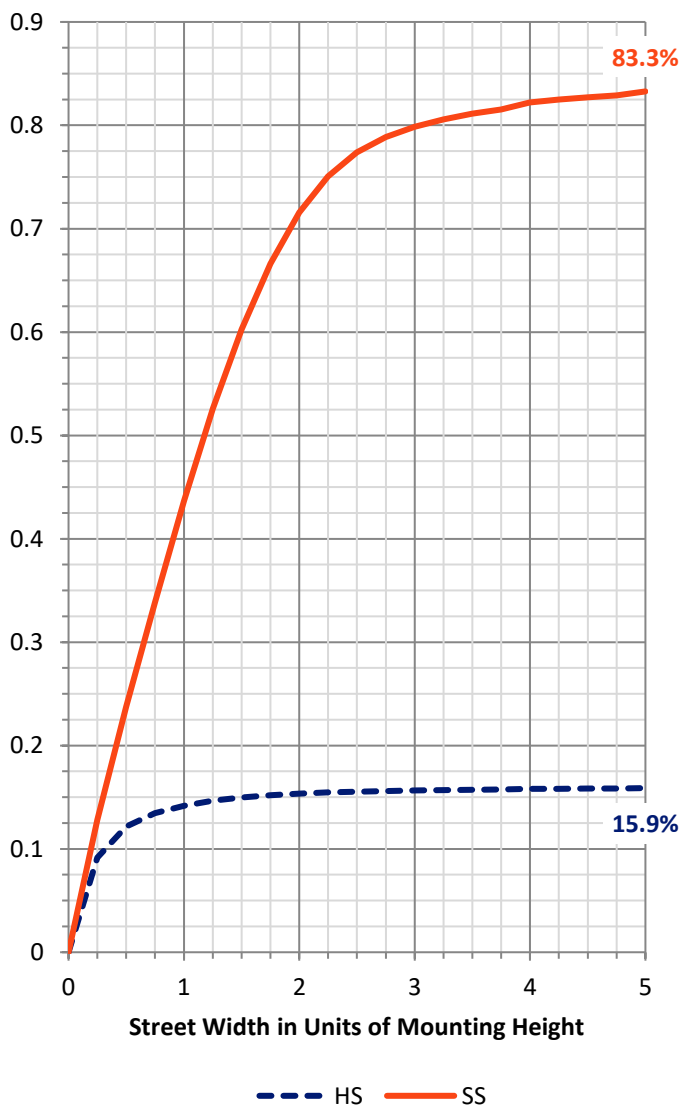
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.1	0.0	1299.1
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	6783.0	0.0	6783.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	8082.1	0.0	8082.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	2.1
10°-20°	303.4	3.8
20°-30°	397.5	4.9
30°-40°	655.9	8.1
40°-50°	1024.2	12.7
50°-60°	1559.3	19.3
60°-70°	1932.1	23.9
70°-80°	1706.9	21.1
80°-90°	334.6	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°	8082.1	100.0
0°-180°	8082.1	100.0

Coefficient of Utilization



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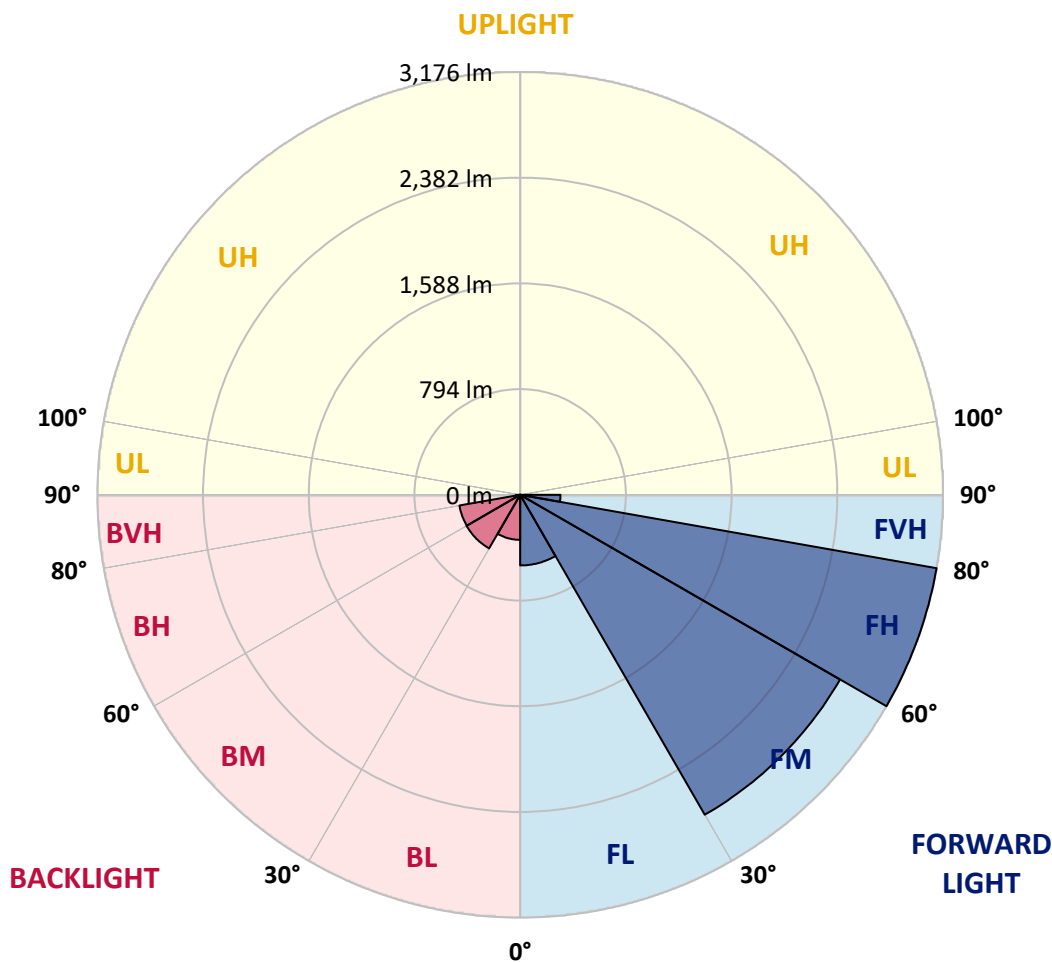
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.6	6.6			
FM	(30°-60°)	2774.0	34.3			
FH	(60°-80°)	3175.7	39.3			G2/5000
FVH	(80°-90°)	302.7	3.7			G3/500
BL	(0°-30°)	338.4	4.2	B1/500		
BM	(30°-60°)	465.5	5.8	B1/1000		
BH	(60°-80°)	463.3	5.7	B1/500		G1/500
BVH	(80°-90°)	31.9	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°	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3
2.5°	1914.7	2130.7	2080.4	2030.1	2107.0	2181.0	2204.7	2225.4	2237.3	2249.1	2260.9
5°	1778.6	1781.5	1784.5	1787.4	1796.3	1802.2	1814.1	1825.9	1837.7	1846.6	1858.5
7.5°	1373.1	1420.5	1497.4	1574.4	1621.7	1666.1	1692.7	1716.4	1734.2	1751.9	1769.7
10°	1527.0	1535.9	1538.9	1538.9	1553.7	1568.4	1456.0	1340.6	1396.8	1453.0	1390.9
12.5°	1198.5	1231.1	1328.7	1423.4	1453.0	1479.7	1426.4	1373.1	1290.3	1204.5	1198.5
15°	1376.1	1385.0	1387.9	1387.9	1296.2	1204.5	1142.3	1077.2	1127.5	1174.9	1065.4
17.5°	1065.4	1074.2	1151.2	1228.1	1242.9	1257.7	1192.6	1127.5	982.5	834.5	973.6
20°	1266.6	1272.5	1272.5	1272.5	1118.6	964.7	976.6	985.5	1032.8	1080.2	1041.7
22.5°	1021.0	1021.0	1021.0	1021.0	1068.3	1112.7	1018.0	923.3	976.6	1029.9	982.5
25°	1284.4	1293.2	1272.5	1248.8	1106.8	964.7	1009.1	1053.5	973.6	893.7	964.7
27.5°	1171.9	1163.0	1121.6	1077.2	1097.9	1118.6	1021.0	923.3	985.5	1047.6	1018.0
30°	1556.6	1530.0	1485.6	1441.2	1272.5	1103.8	1077.2	1050.6	997.3	941.1	1003.2
32.5°	2068.6	2000.5	1793.4	1586.2	1482.6	1379.1	1245.9	1112.7	1100.9	1086.1	1103.8
35°	2204.7	2160.3	2074.5	1985.7	1808.2	1627.6	1459.0	1287.3	1231.1	1171.9	1183.7
37.5°	2231.3	2216.5	2198.8	2178.1	1997.6	1817.0	1633.6	1450.1	1390.9	1328.7	1284.4
40°	2252.1	2263.9	2296.4	2326.0	2145.5	1962.0	1796.3	1627.6	1565.5	1500.4	1423.4
42.5°	2346.8	2379.3	2420.7	2459.2	2293.5	2127.8	1982.8	1837.7	1757.8	1677.9	1606.9
45°	2565.7	2583.5	2627.9	2669.3	2512.5	2352.7	2187.0	2018.3	1950.2	1882.1	1811.1
47.5°	2885.4	2914.9	2912.0	2909.0	2734.4	2556.9	2370.4	2181.0	2136.6	2089.3	2021.2
50°	3287.8	3267.1	3210.9	3154.7	2965.3	2772.9	2553.9	2332.0	2311.2	2287.6	2231.3
52.5°	3489.1	3474.3	3397.3	3317.4	3125.1	2932.7	2696.0	2456.3	2482.9	2509.5	2456.3
55°	3500.9	3492.0	3435.8	3379.6	3193.1	3006.7	2796.6	2586.5	2651.6	2716.7	2696.0
57.5°	3415.1	3418.0	3400.3	3379.6	3213.8	3048.1	2873.5	2698.9	2811.4	2920.9	2941.6
60°	3196.1	3240.5	3270.1	3299.7	3196.1	3092.5	2941.6	2790.7	2962.3	3133.9	3190.2
62.5°	2790.7	2829.1	2935.7	3039.2	3060.0	3077.7	2977.1	2873.5	3104.3	3332.2	3424.0
65°	2163.3	2216.5	2376.3	2536.2	2701.9	2867.6	2891.3	2914.9	3305.6	3696.2	3773.2
67.5°	1349.5	1379.1	1547.7	1713.5	2047.9	2379.3	2568.7	2758.1	3432.8	4104.6	4225.9
70°	713.2	757.6	840.5	920.4	1207.4	1494.5	1879.2	2263.9	3240.5	4217.1	4714.2
72.5°	541.6	559.3	603.7	648.1	748.7	849.3	1092.0	1334.7	2536.2	3734.7	4880.0
75°	390.6	405.4	452.8	497.2	597.8	695.4	796.1	893.7	1565.5	2237.3	4045.4
77.5°	227.9	233.8	257.5	278.2	435.0	591.9	701.4	807.9	970.7	1130.5	2888.3
80°	156.8	159.8	168.7	177.6	245.6	313.7	523.8	733.9	807.9	878.9	1914.7
82.5°	103.6	118.4	124.3	130.2	153.9	177.6	307.8	435.0	639.2	840.5	1308.0
85°	53.3	59.2	71.0	79.9	91.7	100.6	139.1	174.6	529.7	881.9	941.1
87.5°	5.9	8.9	11.8	11.8	14.8	17.8	26.6	35.5	159.8	284.1	242.7
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°	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3
2.5°	2272.8	2278.7	2275.7	2281.7	2284.6	2287.6	2290.5	2290.5	2287.6	2281.7	2275.7
5°	1870.3	1988.7	2189.9	2210.6	2231.3	2237.3	2243.2	2246.1	2240.2	2231.3	2222.5
7.5°	1784.5	1802.2	1621.7	1766.7	1908.8	1920.6	1929.5	1923.6	1926.5	1846.6	1763.8
10°	1328.7	1343.5	1349.5	1393.8	1435.3	1532.9	1630.6	1615.8	1604.0	1461.9	1316.9
12.5°	1192.6	1269.6	1287.3	1213.3	1139.3	1240.0	1340.6	1328.7	1308.0	1177.8	1047.6
15°	955.9	876.0	1047.6	1207.4	1364.3	1459.0	1550.7	1524.1	1500.4	1334.7	1166.0
17.5°	1109.8	1157.1	1100.9	1124.5	1148.2	1219.2	1287.3	1245.9	1231.1	1115.7	997.3
20°	1003.2	1000.3	961.8	1100.9	1240.0	1379.1	1515.2	1473.8	1402.7	1177.8	949.9
22.5°	935.2	1127.5	1210.4	1192.6	1171.9	1118.6	1062.4	1026.9	973.6	923.3	870.0
25°	1032.8	952.9	1018.0	1231.1	1441.2	1479.7	1518.1	1429.4	1313.9	1086.1	858.2
27.5°	988.4	1112.7	1195.6	1337.6	1476.7	1609.9	1743.1	1624.7	1473.8	1189.7	902.6
30°	1065.4	1133.4	1364.3	1630.6	1896.9	1944.3	1988.7	1825.9	1624.7	1337.6	1050.6
32.5°	1121.6	1302.1	1506.3	1713.5	1917.7	1953.2	1988.7	1805.2	1574.4	1257.7	941.1
35°	1192.6	1325.8	1512.2	1754.9	1997.6	2006.4	2012.4	1799.3	1538.9	1180.8	819.7
37.5°	1240.0	1390.9	1592.1	1849.6	2107.0	2089.3	2068.6	1825.9	1527.0	1127.5	728.0
40°	1346.5	1476.7	1692.7	1956.1	2219.5	2189.9	2160.3	1882.1	1530.0	1074.2	615.5
42.5°	1532.9	1583.2	1817.0	2098.2	2379.3	2346.8	2311.2	1979.8	1565.5	1044.6	520.8
45°	1737.1	1760.8	1962.0	2281.7	2601.3	2559.8	2518.4	2130.7	1630.6	1029.9	429.1
47.5°	1950.2	1944.3	2130.7	2518.4	2903.1	2814.3	2725.6	2308.3	1751.9	1059.4	367.0
50°	2172.2	2163.3	2343.8	2761.1	3178.3	3083.6	2988.9	2521.4	1891.0	1112.7	331.4
52.5°	2400.0	2420.7	2553.9	2988.9	3421.0	3335.2	3246.4	2752.2	2027.1	1171.9	316.6
55°	2672.3	2737.4	2790.7	3225.7	3660.7	3574.9	3486.1	2988.9	2216.5	1263.6	310.7
57.5°	2959.3	3045.2	3068.8	3465.4	3861.9	3805.7	3746.5	3213.8	2408.9	1370.2	328.5
60°	3246.4	3358.9	3444.7	3764.3	4080.9	4015.8	3950.7	3441.7	2589.4	1488.5	387.7
62.5°	3512.7	3669.6	3808.7	4042.5	4273.3	4196.3	4119.4	3640.0	2793.6	1651.3	506.0
65°	3847.1	3986.2	4137.2	4291.0	4442.0	4368.0	4294.0	3888.6	3065.9	1855.5	642.2
67.5°	4347.3	4388.7	4465.6	4560.3	4652.1	4607.7	4560.3	4193.4	3302.6	1973.9	642.2
70°	5208.4	5116.7	5001.3	4998.3	4992.4	4921.4	4847.4	4365.0	3317.4	1926.5	535.6
72.5°	6022.3	6335.9	5969.0	5702.6	5436.3	5122.6	4806.0	4134.2	2929.7	1677.9	426.1
75°	5850.6	7069.9	6892.3	6170.2	5448.1	4880.0	4311.8	3601.5	2411.9	1387.9	364.0
77.5°	4643.2	6238.3	6407.0	5744.1	5078.2	4308.8	3536.4	2784.7	1672.0	988.4	304.8
80°	2947.5	4663.9	4693.5	4078.0	3459.5	2633.8	1808.2	1213.3	804.9	523.8	242.7
82.5°	1775.6	2761.1	2403.0	1722.3	1041.7	722.1	399.5	384.7	295.9	219.0	142.0
85°	1000.3	1352.4	970.7	636.3	301.9	216.0	127.3	136.1	130.2	106.5	79.9
87.5°	198.3	233.8	159.8	91.7	23.7	23.7	20.7	20.7	14.8	14.8	11.8
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°	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3	2305.3
2.5°	2275.7	2275.7	2269.8	2263.9	2260.9	2258.0	2169.2	2080.4	2021.2	1959.1	1944.3
5°	2113.0	2003.5	1920.6	1837.7	1820.0	1802.2	1799.3	1796.3	1787.4	1775.6	1772.6
7.5°	1669.1	1571.4	1639.5	1704.6	1692.7	1677.9	1669.1	1657.2	1636.5	1615.8	1512.2
10°	1284.4	1251.8	1251.8	1248.8	1225.2	1201.5	1254.8	1308.0	1367.2	1426.4	1420.5
12.5°	1095.0	1139.3	1023.9	905.6	970.7	1032.8	1092.0	1148.2	1177.8	1207.4	1115.7
15°	1032.8	896.7	858.2	819.7	849.3	878.9	793.1	704.3	772.4	840.5	855.2
17.5°	926.3	855.2	816.8	775.3	662.9	547.5	585.9	624.4	621.5	618.5	603.7
20°	864.1	775.3	707.3	636.3	583.0	529.7	473.5	414.3	387.7	358.1	429.1
22.5°	822.7	775.3	633.3	491.3	449.8	408.4	364.0	316.6	334.4	349.2	361.0
25°	719.1	577.1	497.2	417.3	352.2	284.1	287.1	290.0	275.2	260.4	328.5
27.5°	728.0	550.4	426.1	301.9	278.2	251.5	236.7	219.0	242.7	263.4	269.3
30°	763.5	476.5	361.0	245.6	219.0	192.4	201.2	207.2	207.2	207.2	236.7
32.5°	677.7	414.3	307.8	198.3	183.5	165.7	168.7	168.7	183.5	198.3	213.1
35°	574.1	325.5	251.5	174.6	159.8	145.0	150.9	156.8	171.6	186.4	207.2
37.5°	494.2	257.5	207.2	156.8	148.0	139.1	142.0	145.0	159.8	171.6	189.4
40°	417.3	216.0	183.5	150.9	142.0	133.2	136.1	136.1	148.0	159.8	171.6
42.5°	361.0	198.3	174.6	148.0	139.1	127.3	130.2	130.2	139.1	148.0	156.8
45°	310.7	189.4	168.7	145.0	136.1	124.3	124.3	121.3	130.2	136.1	142.0
47.5°	278.2	186.4	165.7	145.0	133.2	118.4	115.4	112.5	121.3	127.3	136.1
50°	260.4	186.4	165.7	142.0	127.3	112.5	109.5	106.5	118.4	127.3	142.0
52.5°	254.5	189.4	165.7	142.0	124.3	106.5	106.5	106.5	127.3	148.0	153.9
55°	254.5	195.3	168.7	139.1	121.3	103.6	109.5	115.4	121.3	127.3	127.3
57.5°	260.4	192.4	162.8	133.2	121.3	106.5	103.6	100.6	103.6	106.5	106.5
60°	287.1	186.4	156.8	127.3	112.5	97.7	94.7	91.7	97.7	100.6	100.6
62.5°	346.2	183.5	156.8	127.3	109.5	91.7	91.7	88.8	91.7	94.7	97.7
65°	423.2	204.2	165.7	127.3	109.5	91.7	85.8	79.9	85.8	88.8	88.8
67.5°	440.9	239.7	192.4	142.0	115.4	88.8	82.9	76.9	82.9	85.8	85.8
70°	399.5	263.4	207.2	150.9	121.3	88.8	82.9	74.0	76.9	79.9	76.9
72.5°	343.3	257.5	204.2	148.0	118.4	85.8	79.9	71.0	74.0	74.0	71.0
75°	293.0	222.0	174.6	124.3	100.6	74.0	68.1	62.1	65.1	65.1	65.1
77.5°	245.6	183.5	142.0	97.7	79.9	59.2	56.2	53.3	56.2	59.2	56.2
80°	192.4	139.1	106.5	71.0	59.2	44.4	47.3	47.3	50.3	50.3	50.3
82.5°	112.5	82.9	68.1	50.3	41.4	32.6	35.5	38.5	41.4	41.4	41.4
85°	68.1	53.3	44.4	35.5	29.6	20.7	26.6	29.6	29.6	29.6	26.6
87.5°	11.8	11.8	11.8	11.8	8.9	5.9	11.8	14.8	14.8	14.8	11.8
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°	2305.3	2305.3	2305.3	2305.3
2.5°	1926.5	1926.5	1923.6	1923.6
5°	1769.7	1763.8	1757.8	1763.8
7.5°	1408.6	1367.2	1325.8	1337.6
10°	1411.6	1408.6	1405.7	1402.7
12.5°	1021.0	988.4	955.9	935.2
15°	867.1	858.2	846.4	846.4
17.5°	585.9	559.3	532.7	514.9
20°	500.1	514.9	526.8	532.7
22.5°	372.9	384.7	396.6	402.5
25°	393.6	423.2	449.8	452.8
27.5°	272.3	287.1	298.9	293.0
30°	266.3	275.2	284.1	284.1
32.5°	227.9	251.5	275.2	278.2
35°	227.9	239.7	251.5	254.5
37.5°	204.2	213.1	219.0	222.0
40°	183.5	189.4	192.4	192.4
42.5°	162.8	177.6	189.4	189.4
45°	145.0	183.5	222.0	233.8
47.5°	142.0	198.3	254.5	266.3
50°	153.9	207.2	257.5	263.4
52.5°	156.8	186.4	213.1	213.1
55°	124.3	139.1	150.9	148.0
57.5°	106.5	118.4	127.3	127.3
60°	100.6	115.4	127.3	130.2
62.5°	97.7	103.6	109.5	115.4
65°	88.8	88.8	88.8	88.8
67.5°	82.9	82.9	79.9	79.9
70°	74.0	74.0	74.0	74.0
72.5°	68.1	68.1	68.1	65.1
75°	62.1	62.1	59.2	59.2
77.5°	53.3	53.3	53.3	53.3
80°	47.3	47.3	44.4	44.4
82.5°	38.5	38.5	35.5	32.6
85°	23.7	23.7	20.7	17.8
87.5°	8.9	8.9	5.9	3.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)