

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: P559939

Luminaire Tested: **SDL-PA1-100-830-U-SL3**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559939
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-PA1-100-830-U-SL3
Description: Springdale
(1) 80 CRI, 3000K, 1200mA 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: 8156.3 lumens
Efficiency: N/A
Efficacy: 87.0 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

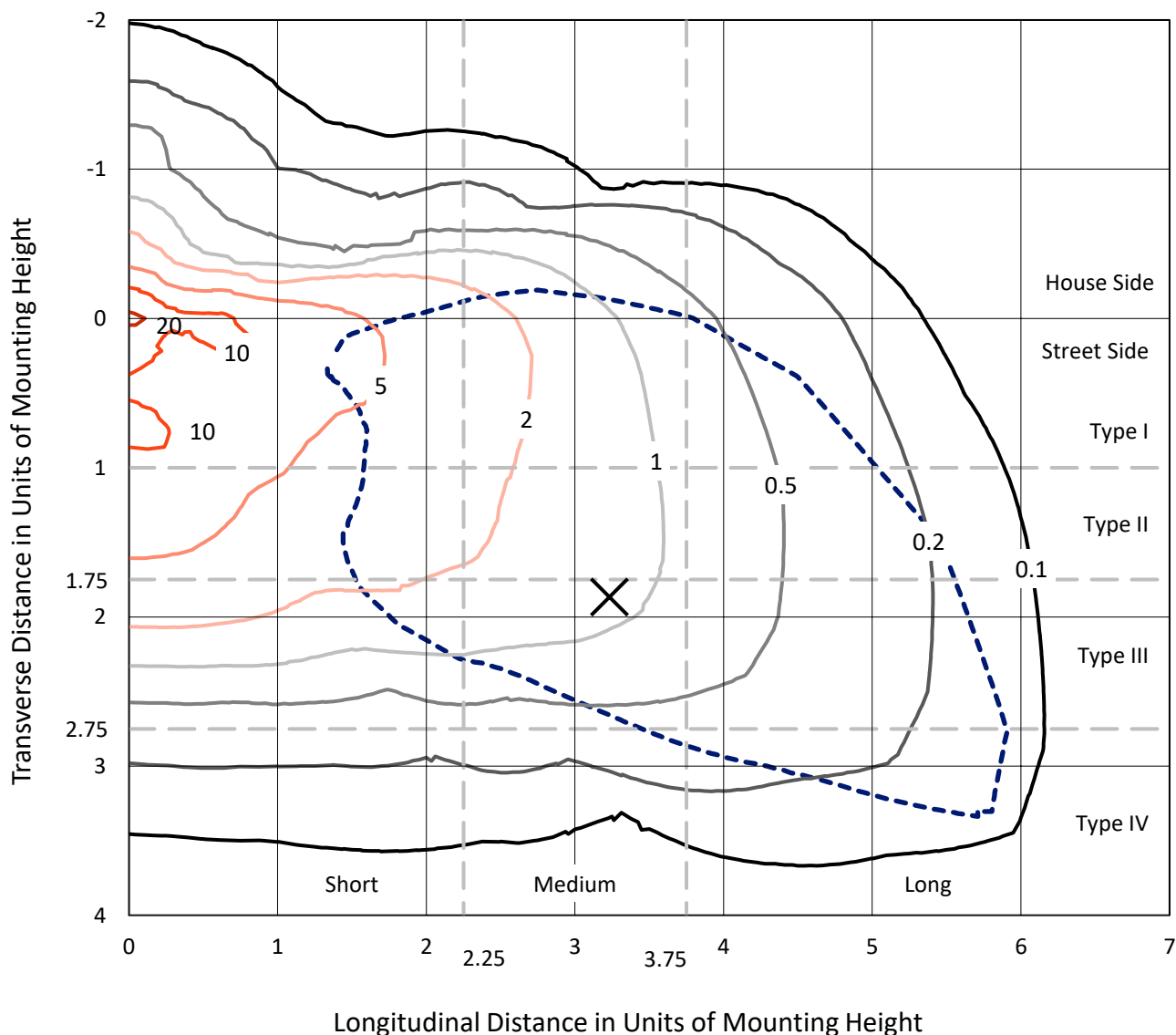
Input Watts (W): 93.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

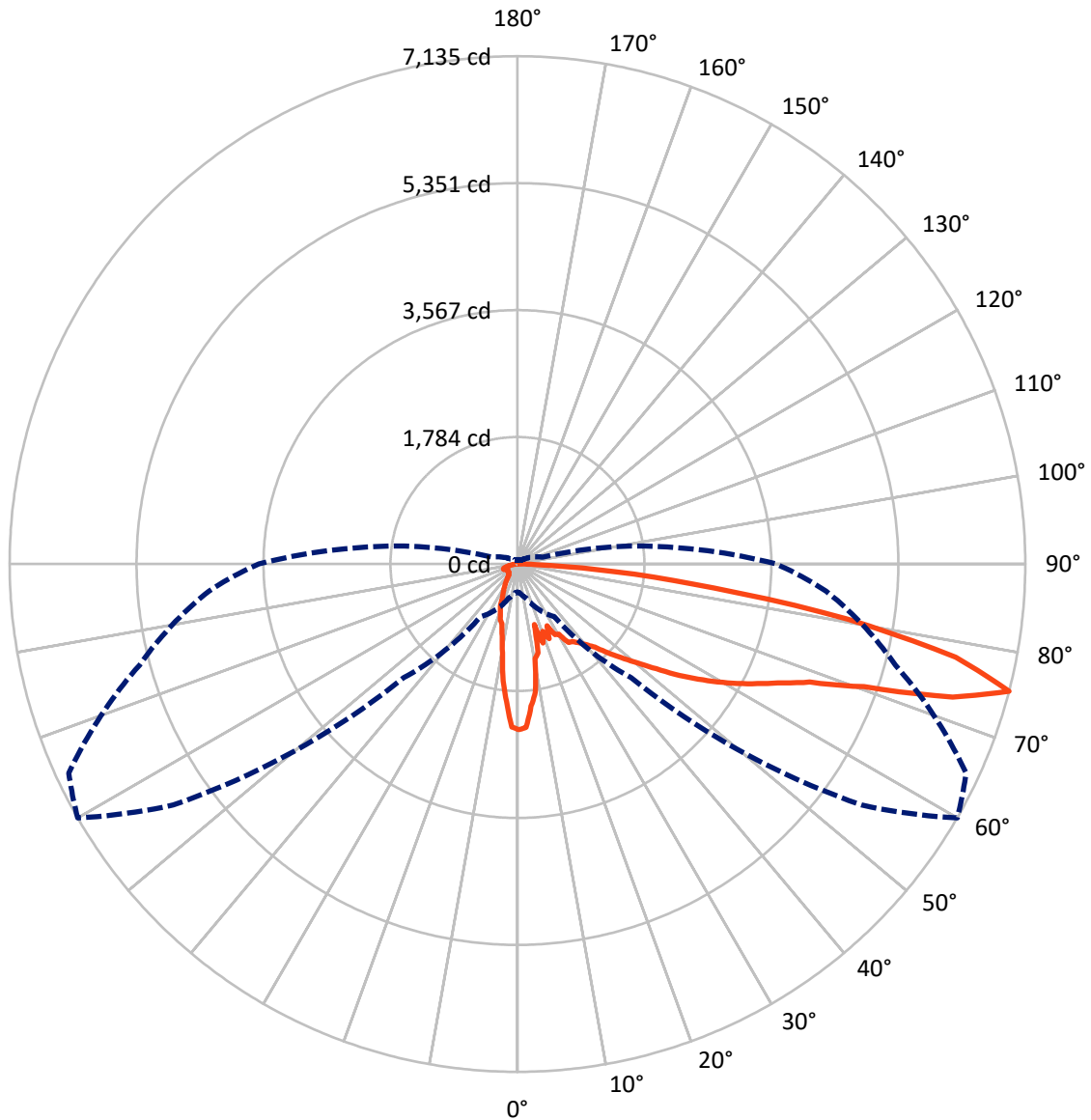
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.3 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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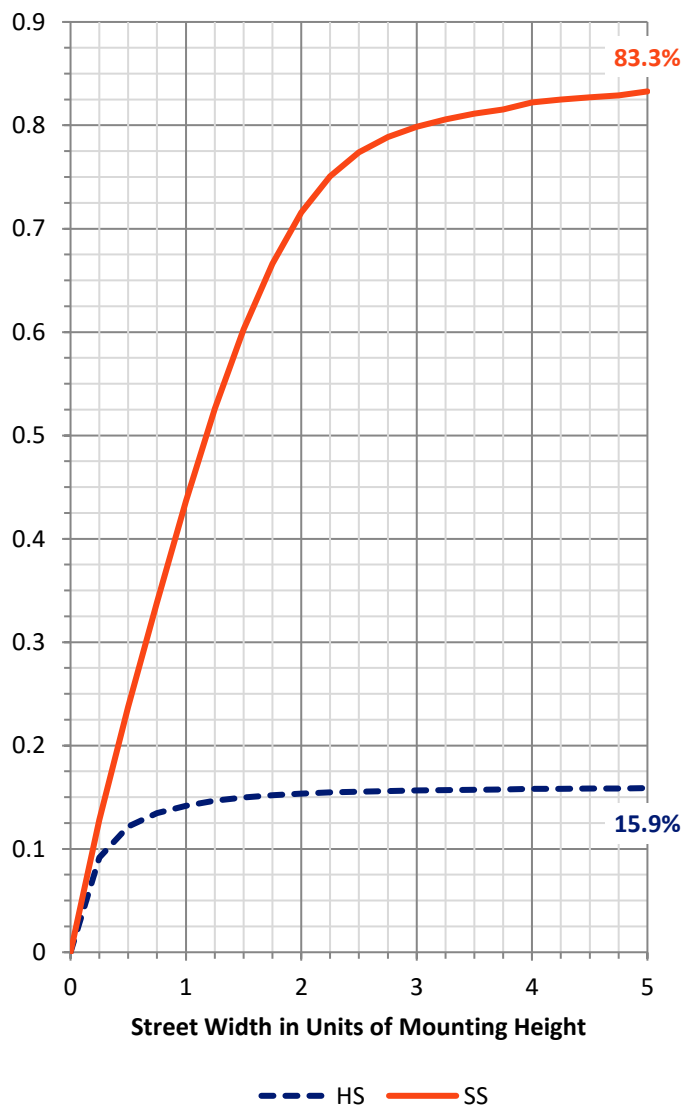
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.0	0.0	1311.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	6845.3	0.0	6845.3
	% Fixture	83.9	0.0	83.9
Total	Lumens	8156.3	0.0	8156.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	2.1
10°-20°	306.2	3.8
20°-30°	401.1	4.9
30°-40°	661.9	8.1
40°-50°	1033.7	12.7
50°-60°	1573.7	19.3
60°-70°	1949.8	23.9
70°-80°	1722.5	21.1
80°-90°	337.7	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°	8156.3	100.0
0°-180°	8156.3	100.0

Coefficient of Utilization



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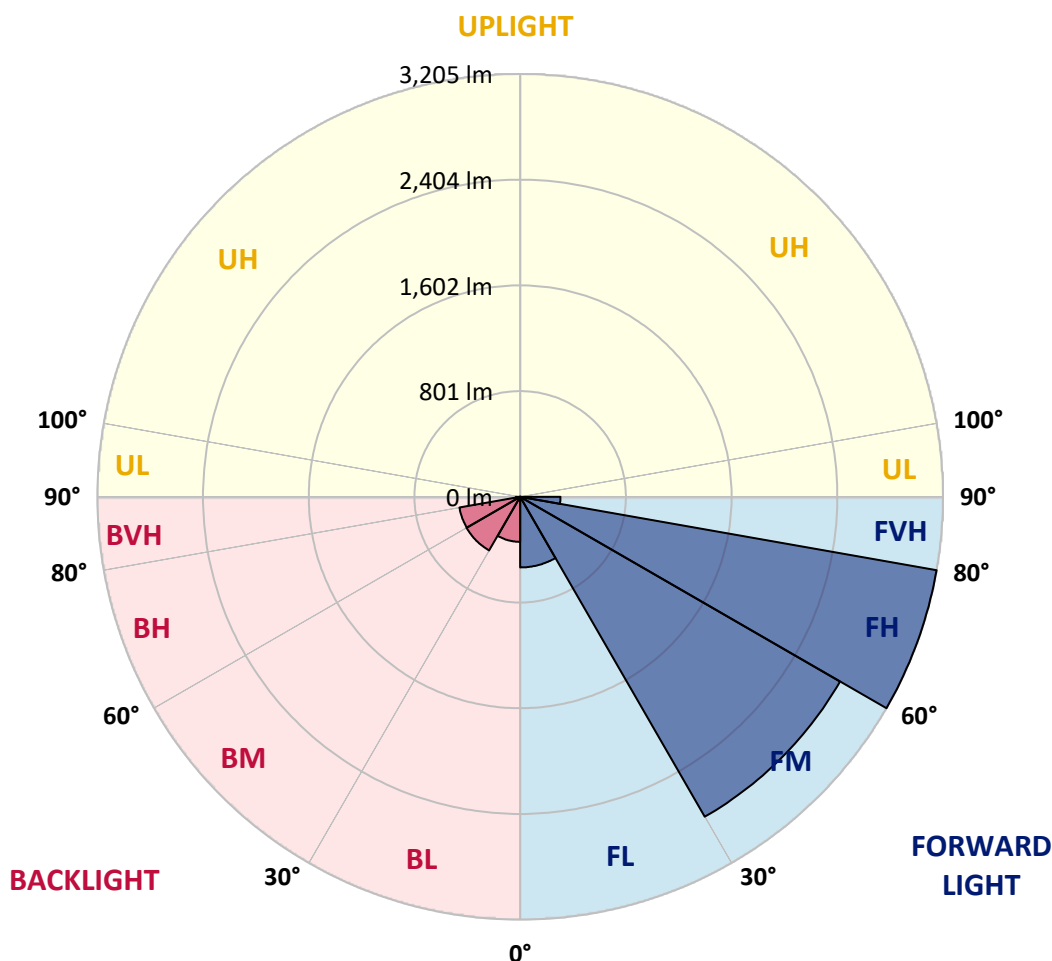
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.5	6.6			
FM (30°-60°)	2799.5	34.3			
FH (60°-80°)	3204.8	39.3			G2/5000
FVH (80°-90°)	305.5	3.7			G3/500
BL (0°-30°)	341.6	4.2	B1/500		
BM (30°-60°)	469.7	5.8	B1/1000		
BH (60°-80°)	467.5	5.7	B1/500		G1/500
BVH (80°-90°)	32.2	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°	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5
2.5°	1932.3	2150.3	2099.5	2048.7	2126.4	2201.1	2225.0	2245.9	2257.8	2269.7	2281.7
5°	1794.9	1797.9	1800.9	1803.9	1812.8	1818.8	1830.7	1842.7	1854.6	1863.6	1875.5
7.5°	1385.7	1433.5	1511.2	1588.8	1636.6	1681.4	1708.3	1732.2	1750.1	1768.0	1785.9
10°	1541.0	1550.0	1553.0	1553.0	1567.9	1582.9	1469.4	1352.9	1409.6	1466.4	1403.7
12.5°	1209.5	1242.4	1340.9	1436.5	1466.4	1493.3	1439.5	1385.7	1302.1	1215.5	1209.5
15°	1388.7	1397.7	1400.7	1400.7	1308.1	1215.5	1152.8	1087.1	1137.9	1185.6	1075.1
17.5°	1075.1	1084.1	1161.8	1239.4	1254.3	1269.3	1203.6	1137.9	991.5	842.2	982.6
20°	1278.2	1284.2	1284.2	1284.2	1128.9	973.6	985.5	994.5	1042.3	1090.1	1051.3
22.5°	1030.3	1030.3	1030.3	1030.3	1078.1	1122.9	1027.4	931.8	985.5	1039.3	991.5
25°	1296.1	1305.1	1284.2	1260.3	1117.0	973.6	1018.4	1063.2	982.6	901.9	973.6
27.5°	1182.7	1173.7	1131.9	1087.1	1108.0	1128.9	1030.3	931.8	994.5	1057.2	1027.4
30°	1570.9	1544.0	1499.2	1454.4	1284.2	1114.0	1087.1	1060.2	1006.5	949.7	1012.4
32.5°	2087.6	2018.9	1809.8	1600.8	1496.2	1391.7	1257.3	1122.9	1111.0	1096.0	1114.0
35°	2225.0	2180.2	2093.5	2003.9	1824.8	1642.6	1472.4	1299.1	1242.4	1182.7	1194.6
37.5°	2251.8	2236.9	2219.0	2198.1	2015.9	1833.7	1648.6	1463.4	1403.7	1340.9	1296.1
40°	2272.7	2284.7	2317.5	2347.4	2165.2	1980.1	1812.8	1642.6	1579.9	1514.2	1436.5
42.5°	2368.3	2401.2	2443.0	2481.8	2314.5	2147.3	2001.0	1854.6	1774.0	1693.4	1621.7
45°	2589.3	2607.2	2652.0	2693.8	2535.5	2374.3	2207.0	2036.8	1968.1	1899.4	1827.7
47.5°	2911.8	2941.7	2938.7	2935.7	2759.5	2580.3	2392.2	2201.1	2156.3	2108.5	2039.8
50°	3318.0	3297.1	3240.4	3183.6	2992.5	2798.4	2577.4	2353.4	2332.5	2308.6	2251.8
52.5°	3521.1	3506.2	3428.5	3347.9	3153.8	2959.6	2720.7	2478.8	2505.7	2532.6	2478.8
55°	3533.0	3524.1	3467.3	3410.6	3222.4	3034.3	2822.3	2610.2	2675.9	2741.6	2720.7
57.5°	3446.4	3449.4	3431.5	3410.6	3243.4	3076.1	2899.9	2723.7	2837.2	2947.7	2968.6
60°	3225.4	3270.2	3300.1	3330.0	3225.4	3120.9	2968.6	2816.3	2989.5	3162.7	3219.5
62.5°	2816.3	2855.1	2962.6	3067.1	3088.1	3106.0	3004.4	2899.9	3132.9	3362.8	3455.4
65°	2183.1	2236.9	2398.2	2559.4	2726.7	2893.9	2917.8	2941.7	3335.9	3730.2	3807.8
67.5°	1361.8	1391.7	1561.9	1729.2	2066.7	2401.2	2592.3	2783.4	3464.4	4142.3	4264.7
70°	719.7	764.5	848.2	928.8	1218.5	1508.2	1896.4	2284.7	3270.2	4255.8	4757.5
72.5°	546.5	564.5	609.2	654.0	755.6	857.1	1102.0	1346.9	2559.4	3769.0	4924.8
75°	394.2	409.2	456.9	501.7	603.3	701.8	803.4	901.9	1579.9	2257.8	4082.6
77.5°	230.0	235.9	259.8	280.7	439.0	597.3	707.8	815.3	979.6	1140.8	2914.8
80°	158.3	161.3	170.2	179.2	247.9	316.6	528.6	740.7	815.3	887.0	1932.3
82.5°	104.5	119.5	125.4	131.4	155.3	179.2	310.6	439.0	645.1	848.2	1320.0
85°	53.8	59.7	71.7	80.6	92.6	101.5	140.4	176.2	534.6	890.0	949.7
87.5°	6.0	9.0	11.9	11.9	14.9	17.9	26.9	35.8	161.3	286.7	244.9
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°	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5
2.5°	2293.6	2299.6	2296.6	2302.6	2305.6	2308.6	2311.6	2311.6	2308.6	2302.6	2296.6
5°	1887.5	2006.9	2210.0	2230.9	2251.8	2257.8	2263.8	2266.8	2260.8	2251.8	2242.9
7.5°	1800.9	1818.8	1636.6	1782.9	1926.3	1938.2	1947.2	1941.2	1944.2	1863.6	1780.0
10°	1340.9	1355.9	1361.8	1406.6	1448.5	1547.0	1645.6	1630.6	1618.7	1475.3	1329.0
12.5°	1203.6	1281.2	1299.1	1224.5	1149.8	1251.3	1352.9	1340.9	1320.0	1188.6	1057.2
15°	964.6	884.0	1057.2	1218.5	1376.8	1472.4	1564.9	1538.1	1514.2	1346.9	1176.7
17.5°	1119.9	1167.7	1111.0	1134.9	1158.8	1230.4	1299.1	1257.3	1242.4	1125.9	1006.5
20°	1012.4	1009.4	970.6	1111.0	1251.3	1391.7	1529.1	1487.3	1415.6	1188.6	958.7
22.5°	943.7	1137.9	1221.5	1203.6	1182.7	1128.9	1072.2	1036.3	982.6	931.8	878.0
25°	1042.3	961.7	1027.4	1242.4	1454.4	1493.3	1532.1	1442.5	1326.0	1096.0	866.1
27.5°	997.5	1122.9	1206.6	1349.9	1490.3	1624.7	1759.1	1639.6	1487.3	1200.6	910.9
30°	1075.1	1143.8	1376.8	1645.6	1914.4	1962.1	2006.9	1842.7	1639.6	1349.9	1060.2
32.5°	1131.9	1314.1	1520.1	1729.2	1935.3	1971.1	2006.9	1821.8	1588.8	1269.3	949.7
35°	1203.6	1338.0	1526.1	1771.0	2015.9	2024.9	2030.8	1815.8	1553.0	1191.6	827.3
37.5°	1251.3	1403.7	1606.7	1866.6	2126.4	2108.5	2087.6	1842.7	1541.0	1137.9	734.7
40°	1358.9	1490.3	1708.3	1974.1	2239.9	2210.0	2180.2	1899.4	1544.0	1084.1	621.2
42.5°	1547.0	1597.8	1833.7	2117.4	2401.2	2368.3	2332.5	1998.0	1579.9	1054.2	525.6
45°	1753.1	1777.0	1980.1	2302.6	2625.1	2583.3	2541.5	2150.3	1645.6	1039.3	433.0
47.5°	1968.1	1962.1	2150.3	2541.5	2929.8	2840.2	2750.6	2329.5	1768.0	1069.2	370.3
50°	2192.1	2183.1	2365.3	2786.4	3207.5	3111.9	3016.4	2544.5	1908.4	1122.9	334.5
52.5°	2422.1	2443.0	2577.4	3016.4	3452.4	3365.8	3276.2	2777.5	2045.8	1182.7	319.6
55°	2696.8	2762.5	2816.3	3255.3	3694.3	3607.7	3518.1	3016.4	2236.9	1275.2	313.6
57.5°	2986.5	3073.1	3097.0	3497.2	3897.4	3840.7	3780.9	3243.4	2431.0	1382.8	331.5
60°	3276.2	3389.7	3476.3	3798.8	4118.4	4052.7	3987.0	3473.3	2613.2	1502.2	391.2
62.5°	3545.0	3703.3	3843.6	4079.6	4312.5	4234.9	4157.2	3673.4	2819.3	1666.5	510.7
65°	3882.5	4022.8	4175.1	4330.4	4482.8	4408.1	4333.4	3924.3	3094.0	1872.5	648.1
67.5°	4387.2	4429.0	4506.6	4602.2	4694.8	4650.0	4602.2	4231.9	3332.9	1992.0	648.1
70°	5256.3	5163.7	5047.2	5044.2	5038.2	4966.6	4891.9	4405.1	3347.9	1944.2	540.6
72.5°	6077.6	6394.1	6023.8	5755.0	5486.2	5169.7	4850.1	4172.2	2956.6	1693.4	430.1
75°	5904.3	7134.8	6955.6	6226.9	5498.2	4924.8	4351.3	3634.6	2434.0	1400.7	367.3
77.5°	4685.8	6295.6	6465.8	5796.8	5124.9	4348.4	3568.9	2810.3	1687.4	997.5	307.6
80°	2974.6	4706.7	4736.6	4115.4	3491.2	2658.0	1824.8	1224.5	812.3	528.6	244.9
82.5°	1791.9	2786.4	2425.0	1738.2	1051.3	728.7	403.2	388.2	298.7	221.0	143.4
85°	1009.4	1364.8	979.6	642.1	304.6	218.0	128.4	137.4	131.4	107.5	80.6
87.5°	200.1	235.9	161.3	92.6	23.9	23.9	20.9	20.9	14.9	14.9	11.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5
2.5°	2296.6	2296.6	2290.7	2284.7	2281.7	2278.7	2189.1	2099.5	2039.8	1977.1	1962.1
5°	2132.4	2021.9	1938.2	1854.6	1836.7	1818.8	1815.8	1812.8	1803.9	1791.9	1788.9
7.5°	1684.4	1585.8	1654.5	1720.2	1708.3	1693.4	1684.4	1672.4	1651.5	1630.6	1526.1
10°	1296.1	1263.3	1263.3	1260.3	1236.4	1212.5	1266.3	1320.0	1379.8	1439.5	1433.5
12.5°	1105.0	1149.8	1033.3	913.9	979.6	1042.3	1102.0	1158.8	1188.6	1218.5	1125.9
15°	1042.3	904.9	866.1	827.3	857.1	887.0	800.4	710.8	779.5	848.2	863.1
17.5°	934.8	863.1	824.3	782.5	669.0	552.5	591.3	630.2	627.2	624.2	609.2
20°	872.1	782.5	713.8	642.1	588.3	534.6	477.8	418.1	391.2	361.4	433.0
22.5°	830.3	782.5	639.1	495.8	453.9	412.1	367.3	319.6	337.5	352.4	364.4
25°	725.7	582.4	501.7	421.1	355.4	286.7	289.7	292.7	277.7	262.8	331.5
27.5°	734.7	555.5	430.1	304.6	280.7	253.9	238.9	221.0	244.9	265.8	271.8
30°	770.5	480.8	364.4	247.9	221.0	194.1	203.1	209.1	209.1	209.1	238.9
32.5°	683.9	418.1	310.6	200.1	185.2	167.2	170.2	170.2	185.2	200.1	215.0
35°	579.4	328.5	253.9	176.2	161.3	146.3	152.3	158.3	173.2	188.2	209.1
37.5°	498.7	259.8	209.1	158.3	149.3	140.4	143.4	146.3	161.3	173.2	191.1
40°	421.1	218.0	185.2	152.3	143.4	134.4	137.4	137.4	149.3	161.3	173.2
42.5°	364.4	200.1	176.2	149.3	140.4	128.4	131.4	131.4	140.4	149.3	158.3
45°	313.6	191.1	170.2	146.3	137.4	125.4	125.4	122.4	131.4	137.4	143.4
47.5°	280.7	188.2	167.2	146.3	134.4	119.5	116.5	113.5	122.4	128.4	137.4
50°	262.8	188.2	167.2	143.4	128.4	113.5	110.5	107.5	119.5	128.4	143.4
52.5°	256.8	191.1	167.2	143.4	125.4	107.5	107.5	107.5	128.4	149.3	155.3
55°	256.8	197.1	170.2	140.4	122.4	104.5	110.5	116.5	122.4	128.4	128.4
57.5°	262.8	194.1	164.3	134.4	122.4	107.5	104.5	101.5	104.5	107.5	107.5
60°	289.7	188.2	158.3	128.4	113.5	98.6	95.6	92.6	98.6	101.5	101.5
62.5°	349.4	185.2	158.3	128.4	110.5	92.6	92.6	89.6	92.6	95.6	98.6
65°	427.1	206.1	167.2	128.4	110.5	92.6	86.6	80.6	86.6	89.6	89.6
67.5°	445.0	241.9	194.1	143.4	116.5	89.6	83.6	77.6	83.6	86.6	86.6
70°	403.2	265.8	209.1	152.3	122.4	89.6	83.6	74.7	77.6	80.6	77.6
72.5°	346.4	259.8	206.1	149.3	119.5	86.6	80.6	71.7	74.7	74.7	71.7
75°	295.7	224.0	176.2	125.4	101.5	74.7	68.7	62.7	65.7	65.7	65.7
77.5°	247.9	185.2	143.4	98.6	80.6	59.7	56.7	53.8	56.7	59.7	56.7
80°	194.1	140.4	107.5	71.7	59.7	44.8	47.8	47.8	50.8	50.8	50.8
82.5°	113.5	83.6	68.7	50.8	41.8	32.9	35.8	38.8	41.8	41.8	41.8
85°	68.7	53.8	44.8	35.8	29.9	20.9	26.9	29.9	29.9	29.9	26.9
87.5°	11.9	11.9	11.9	11.9	9.0	6.0	11.9	14.9	14.9	14.9	11.9
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):

	165°	170°	175°	180°
0°	2326.5	2326.5	2326.5	2326.5
2.5°	1944.2	1944.2	1941.2	1941.2
5°	1785.9	1780.0	1774.0	1780.0
7.5°	1421.6	1379.8	1338.0	1349.9
10°	1424.6	1421.6	1418.6	1415.6
12.5°	1030.3	997.5	964.6	943.7
15°	875.0	866.1	854.1	854.1
17.5°	591.3	564.5	537.6	519.7
20°	504.7	519.7	531.6	537.6
22.5°	376.3	388.2	400.2	406.2
25°	397.2	427.1	453.9	456.9
27.5°	274.8	289.7	301.6	295.7
30°	268.8	277.7	286.7	286.7
32.5°	230.0	253.9	277.7	280.7
35°	230.0	241.9	253.9	256.8
37.5°	206.1	215.0	221.0	224.0
40°	185.2	191.1	194.1	194.1
42.5°	164.3	179.2	191.1	191.1
45°	146.3	185.2	224.0	235.9
47.5°	143.4	200.1	256.8	268.8
50°	155.3	209.1	259.8	265.8
52.5°	158.3	188.2	215.0	215.0
55°	125.4	140.4	152.3	149.3
57.5°	107.5	119.5	128.4	128.4
60°	101.5	116.5	128.4	131.4
62.5°	98.6	104.5	110.5	116.5
65°	89.6	89.6	89.6	89.6
67.5°	83.6	83.6	80.6	80.6
70°	74.7	74.7	74.7	74.7
72.5°	68.7	68.7	68.7	65.7
75°	62.7	62.7	59.7	59.7
77.5°	53.8	53.8	53.8	53.8
80°	47.8	47.8	44.8	44.8
82.5°	38.8	38.8	35.8	32.9
85°	23.9	23.9	20.9	17.9
87.5°	9.0	9.0	6.0	3.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)