

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: P560453

Luminaire Tested: **SDL-PA1-40-827-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-40-827-U-T2U
Description: Springdale
(1) 80 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3688 lumens
Efficiency: N/A
Efficacy: 93.6 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 - U0 - G1

Input Watts (W): 39.4
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



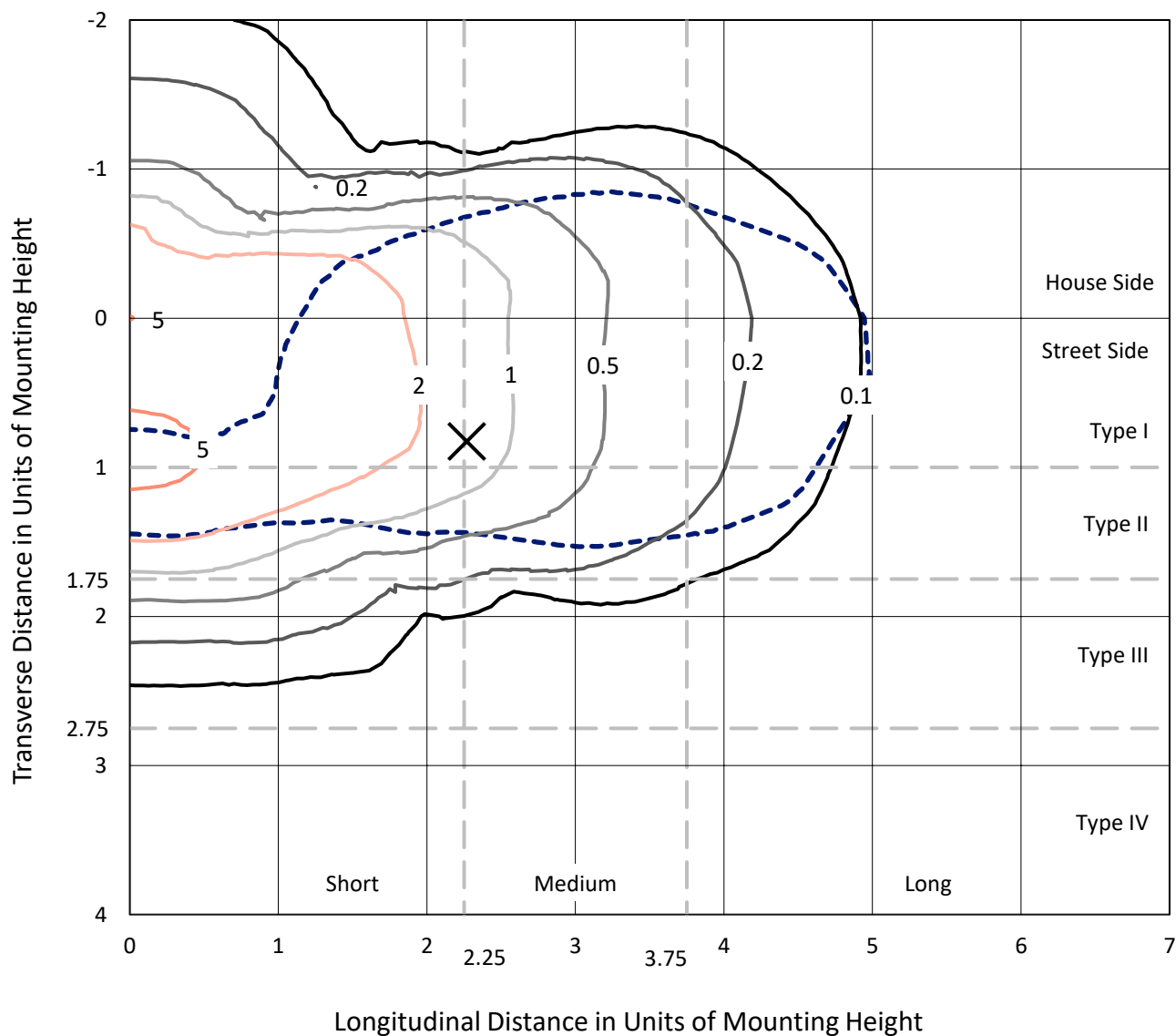
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

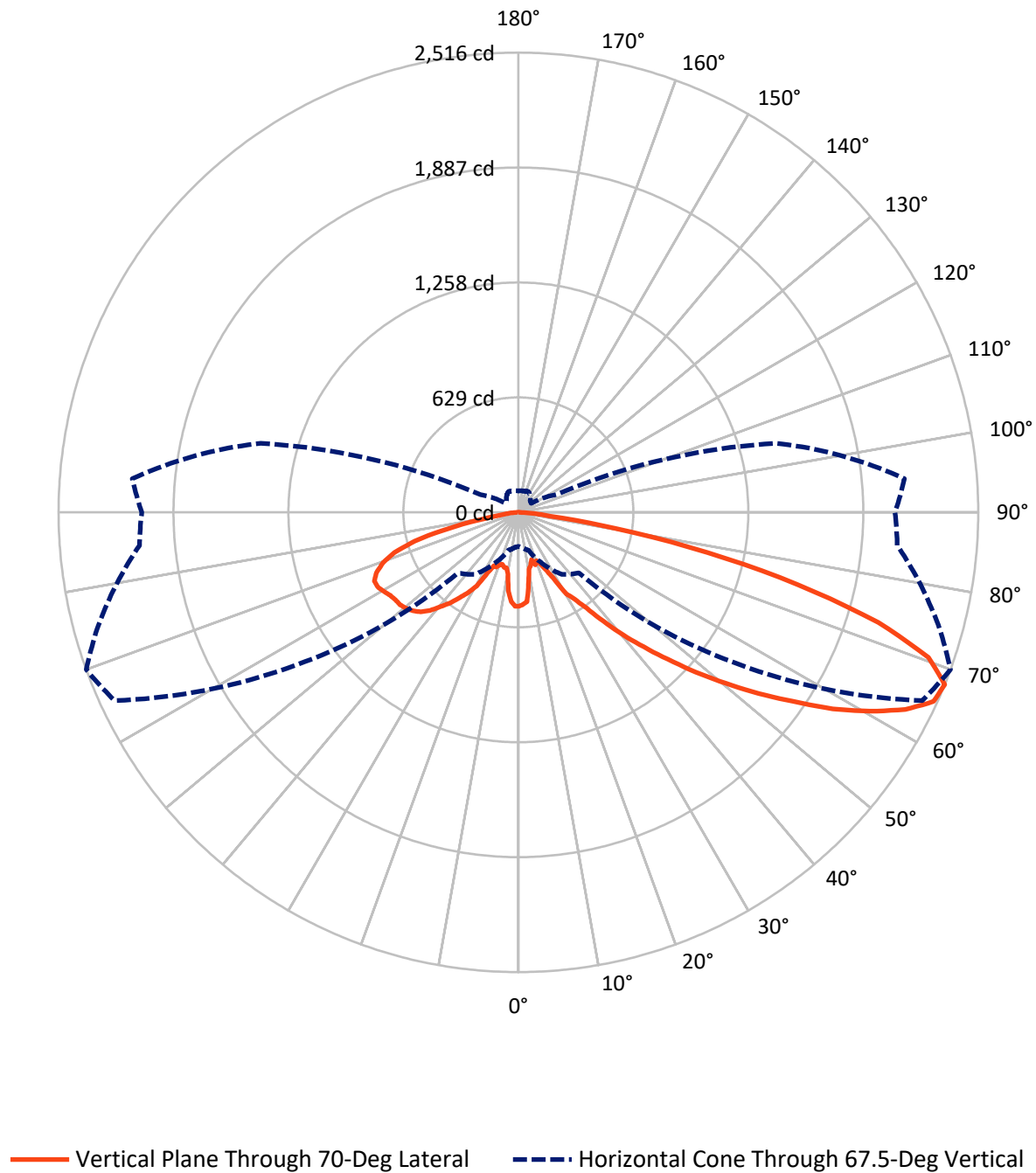


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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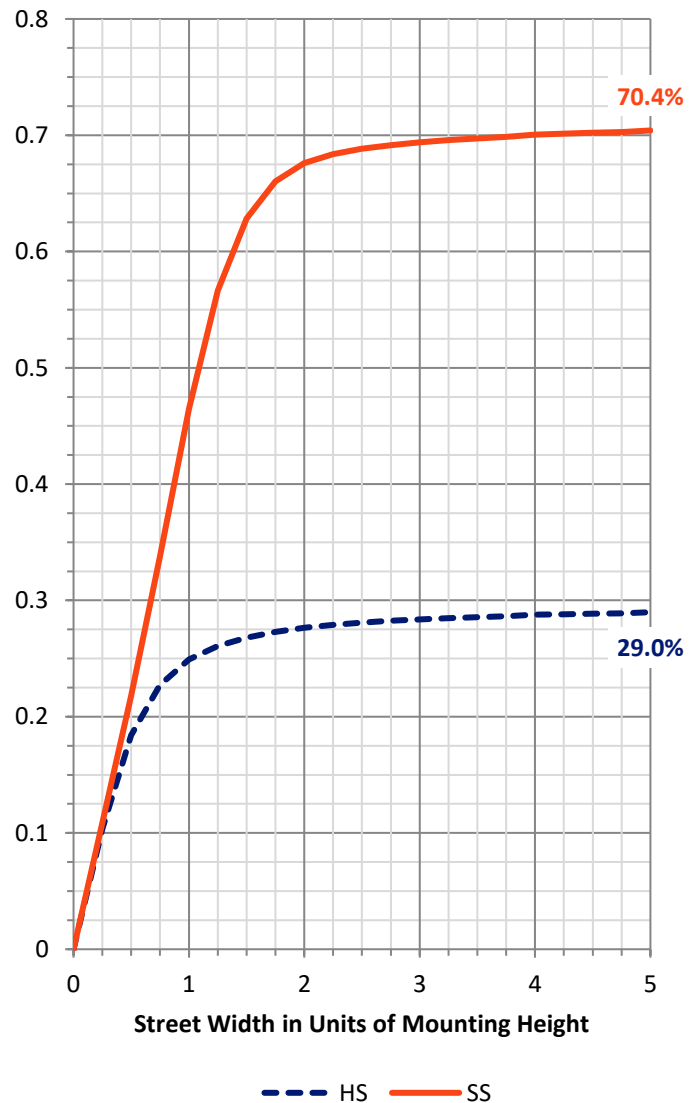
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1081.5	0.0	1081.5
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	2606.5	0.0	2606.5
	% Fixture	70.7	0.0	70.7
Total	Lumens	3688.0	0.0	3688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	1.1
10°-20°	96.6	2.6
20°-30°	171.6	4.7
30°-40°	362.7	9.8
40°-50°	663.9	18.0
50°-60°	905.7	24.6
60°-70°	853.8	23.2
70°-80°	516.7	14.0
80°-90°	75.9	2.1
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°	3688.0	100.0
0°-180°	3688.0	100.0

Coefficient of Utilization



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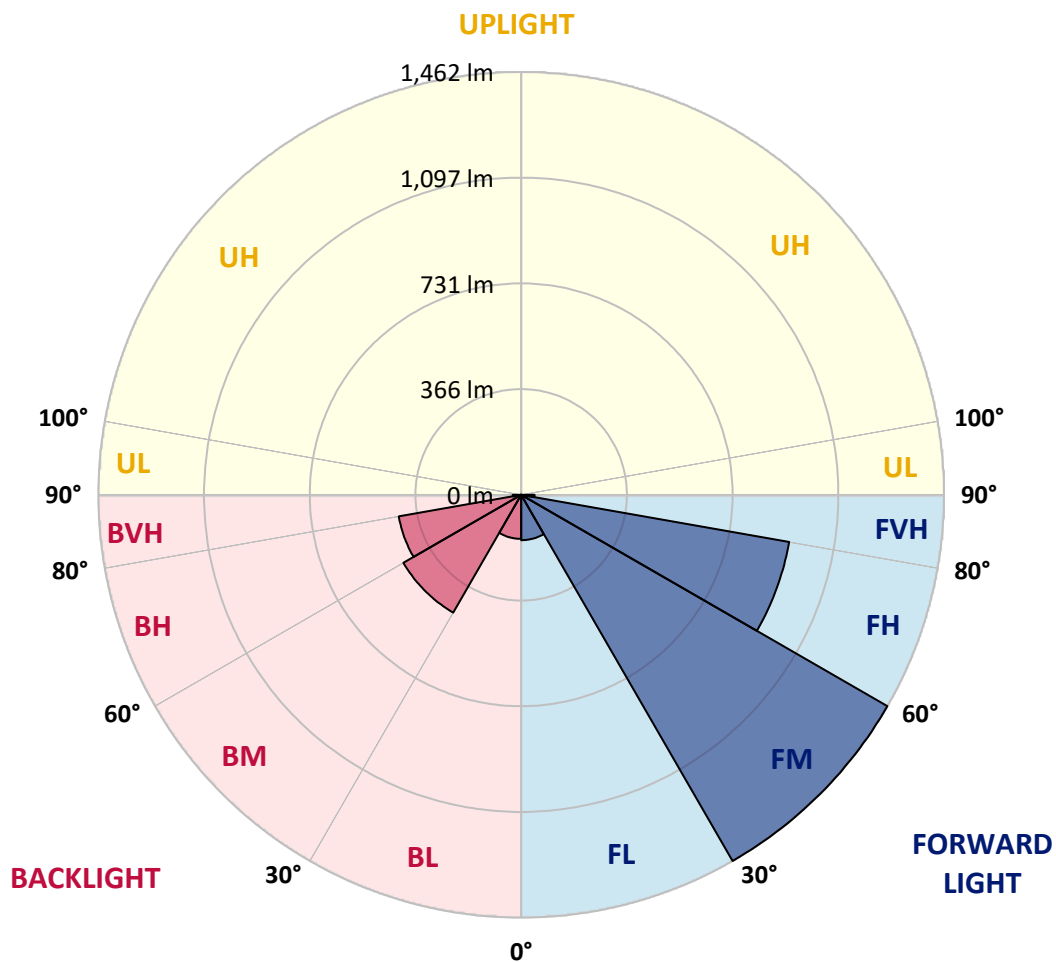
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	156.9	4.3			
FM	(30°-60°)	1462.1	39.6			
FH	(60°-80°)	940.9	25.5			G1/1800
FVH	(80°-90°)	46.5	1.3			G1/100
BL	(0°-30°)	152.3	4.1	B1/500		
BM	(30°-60°)	470.1	12.7	B1/1000		
BH	(60°-80°)	429.7	11.7	B1/500		G1/500
BVH	(80°-90°)	29.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5
2.5°	431.2	435.2	461.8	488.3	489.6	489.6	490.9	492.3	496.3	498.9	501.6
5°	402.0	404.7	404.7	404.7	406.0	407.4	408.7	408.7	411.3	412.7	415.3
7.5°	337.0	363.6	372.9	380.8	386.1	390.1	392.8	395.4	398.1	400.7	403.4
10°	383.5	383.5	384.8	384.8	384.8	383.5	356.9	329.1	342.3	355.6	335.7
12.5°	315.8	321.1	345.0	367.5	374.2	379.5	366.2	351.6	327.7	303.9	301.2
15°	375.5	375.5	375.5	374.2	350.3	325.1	299.9	273.3	289.3	305.2	281.3
17.5°	325.1	325.1	345.0	363.6	362.2	359.6	337.0	313.1	276.0	237.5	268.0
20°	410.0	408.7	402.0	394.1	345.0	295.9	306.5	317.1	319.8	321.1	311.8
22.5°	366.2	367.5	375.5	383.5	384.8	386.1	329.1	270.7	303.9	337.0	305.2
25°	509.5	506.9	494.9	481.7	427.3	371.5	382.1	392.8	338.4	282.6	317.1
27.5°	484.3	476.4	471.0	465.7	475.0	484.3	433.9	382.1	394.1	406.0	362.2
30°	692.6	692.6	679.4	664.8	582.5	498.9	485.6	472.4	440.5	407.4	415.3
32.5°	877.1	877.1	828.0	777.6	728.5	679.4	614.3	549.3	536.1	521.5	508.2
35°	1104.0	1097.3	1069.5	1040.3	934.1	828.0	744.4	660.8	634.2	607.7	594.4
37.5°	1316.3	1301.7	1263.2	1223.4	1111.9	999.1	889.0	778.9	749.7	720.5	691.3
40°	1491.4	1483.5	1456.9	1429.1	1303.0	1176.9	1052.2	926.2	887.7	849.2	806.7
42.5°	1652.0	1645.3	1621.4	1596.2	1471.5	1345.5	1227.4	1107.9	1050.9	993.8	943.4
45°	1770.1	1759.4	1743.5	1726.3	1626.8	1525.9	1406.5	1285.7	1263.2	1240.6	1142.4
47.5°	1807.2	1788.6	1786.0	1783.3	1703.7	1624.1	1528.6	1433.0	1437.0	1441.0	1326.9
50°	1752.8	1724.9	1736.9	1748.8	1717.0	1683.8	1609.5	1535.2	1568.4	1600.2	1510.0
52.5°	1555.1	1548.5	1579.0	1608.2	1616.1	1624.1	1608.2	1590.9	1652.0	1713.0	1679.8
55°	1283.1	1312.3	1354.7	1397.2	1430.4	1462.2	1508.7	1555.1	1659.9	1764.8	1788.6
57.5°	1011.1	1041.6	1090.7	1139.8	1178.3	1216.8	1312.3	1407.8	1565.7	1723.6	1831.1
60°	680.7	712.5	793.5	873.1	927.5	981.9	1068.1	1154.4	1353.4	1552.5	1770.1
62.5°	453.8	443.2	510.8	577.2	664.8	752.3	790.8	828.0	1036.3	1243.3	1594.9
65°	278.6	280.0	306.5	331.7	428.6	524.1	554.6	583.8	701.9	820.0	1299.0
67.5°	187.1	191.1	203.0	215.0	261.4	307.8	360.9	414.0	441.9	468.4	947.4
70°	165.9	167.2	172.5	177.8	191.1	204.3	253.4	302.5	286.6	269.4	537.4
72.5°	146.0	147.3	156.6	164.5	171.2	177.8	207.0	236.2	217.6	199.0	268.0
75°	119.4	123.4	132.7	140.6	153.9	165.9	172.5	179.1	169.8	159.2	172.5
77.5°	98.2	100.8	107.5	114.1	127.4	139.3	146.0	152.6	138.0	123.4	131.4
80°	77.0	78.3	83.6	88.9	99.5	108.8	116.8	123.4	110.1	95.5	99.5
82.5°	46.4	47.8	55.7	62.4	71.7	79.6	84.9	88.9	92.9	95.5	83.6
85°	25.2	25.2	30.5	35.8	37.2	38.5	43.8	47.8	59.7	70.3	61.0
87.5°	4.0	4.0	5.3	5.3	8.0	9.3	10.6	10.6	11.9	11.9	13.3
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°	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5
2.5°	502.9	504.2	504.2	504.2	505.5	506.9	508.2	508.2	509.5	510.8	512.2
5°	418.0	452.5	485.6	490.9	494.9	497.6	500.2	501.6	504.2	506.9	508.2
7.5°	406.0	406.0	406.0	396.7	431.2	435.2	439.2	441.9	444.5	441.9	437.9
10°	314.5	314.5	313.1	315.8	330.4	355.6	379.5	382.1	384.8	363.6	341.0
12.5°	297.2	301.2	305.2	298.5	272.0	294.6	317.1	321.1	322.4	303.9	284.0
15°	256.1	257.4	258.7	268.0	322.4	345.0	367.5	371.5	375.5	355.6	334.4
17.5°	297.2	287.9	277.3	302.5	281.3	295.9	309.2	277.3	306.5	301.2	295.9
20°	302.5	270.7	237.5	282.6	330.4	353.0	374.2	376.8	378.2	362.2	345.0
22.5°	273.3	303.9	334.4	303.9	285.3	282.6	280.0	278.6	280.0	289.3	297.2
25°	351.6	313.1	274.7	345.0	388.8	399.4	410.0	404.7	402.0	382.1	362.2
27.5°	318.5	349.0	378.2	407.4	420.6	435.2	448.5	452.5	431.2	410.0	388.8
30°	421.9	440.5	457.8	517.5	561.3	574.5	587.8	574.5	566.6	540.0	512.2
32.5°	493.6	530.8	567.9	566.6	607.7	618.3	627.6	610.4	595.8	566.6	536.1
35°	581.2	605.1	628.9	642.2	683.3	687.3	691.3	668.7	647.5	613.0	578.5
37.5°	662.1	692.6	721.8	755.0	790.8	782.9	773.6	745.7	711.2	684.7	658.1
40°	763.0	800.1	837.3	879.7	901.0	889.0	875.7	833.3	800.1	772.2	744.4
42.5°	891.7	931.5	970.0	1007.1	1015.1	1001.8	987.2	940.8	890.3	862.5	833.3
45°	1042.9	1074.8	1106.6	1145.1	1161.0	1137.1	1111.9	1053.5	993.8	954.0	914.2
47.5°	1211.4	1226.0	1240.6	1307.0	1328.2	1288.4	1247.3	1183.6	1100.0	1048.2	995.2
50°	1419.8	1415.8	1410.5	1468.9	1518.0	1451.6	1383.9	1309.6	1227.4	1154.4	1080.1
52.5°	1646.7	1608.2	1568.4	1646.7	1670.5	1590.9	1511.3	1431.7	1349.4	1255.2	1159.7
55°	1812.5	1791.3	1770.1	1825.8	1823.1	1730.3	1636.0	1541.8	1474.2	1348.1	1222.1
57.5°	1937.2	1955.8	1973.1	2028.8	1965.1	1859.0	1752.8	1658.6	1600.2	1442.3	1284.4
60°	1986.3	2081.9	2176.1	2209.3	2112.4	1993.0	1872.2	1779.3	1730.3	1539.2	1348.1
62.5°	1946.5	2157.5	2368.5	2375.1	2247.7	2113.7	1979.7	1904.1	1878.9	1644.0	1407.8
65°	1778.0	2125.7	2472.0	2495.9	2352.6	2211.9	2069.9	2014.2	2030.1	1742.2	1452.9
67.5°	1425.1	1931.9	2437.5	2515.8	2377.8	2229.2	2080.6	2060.6	2120.4	1790.0	1459.6
70°	805.4	1484.8	2162.8	2380.4	2307.4	2160.2	2011.6	2020.8	2109.7	1763.4	1417.1
72.5°	335.7	1027.0	1718.3	2059.3	2123.0	1998.3	1872.2	1906.7	1967.8	1638.7	1308.3
75°	185.8	655.5	1125.2	1579.0	1775.4	1742.2	1707.7	1746.2	1717.0	1398.5	1080.1
77.5°	138.0	354.3	570.6	1057.5	1336.2	1411.8	1486.1	1504.7	1341.5	1021.7	701.9
80°	103.5	168.5	232.2	540.0	716.5	851.9	987.2	903.6	789.5	552.0	314.5
82.5°	71.7	96.9	122.1	173.8	278.6	321.1	362.2	345.0	258.7	181.8	103.5
85°	50.4	63.7	77.0	95.5	119.4	95.5	71.7	58.4	67.7	62.4	57.1
87.5°	13.3	13.3	11.9	13.3	9.3	8.0	6.6	5.3	5.3	5.3	5.3
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°	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5
2.5°	513.5	514.8	514.8	514.8	514.8	513.5	506.9	500.2	484.3	468.4	463.1
5°	490.9	473.7	460.4	447.2	447.2	447.2	449.8	452.5	453.8	455.1	456.4
7.5°	437.9	436.5	441.9	447.2	451.1	455.1	457.8	460.4	455.1	449.8	437.9
10°	342.3	342.3	349.0	354.3	363.6	372.9	399.4	425.9	448.5	471.0	475.0
12.5°	310.5	335.7	321.1	305.2	338.4	371.5	400.7	428.6	451.1	472.4	455.1
15°	311.8	287.9	293.2	298.5	334.4	370.2	343.7	315.8	368.9	420.6	432.6
17.5°	297.2	298.5	322.4	346.3	310.5	273.3	319.8	366.2	386.1	404.7	387.4
20°	305.2	264.0	291.9	319.8	345.0	368.9	345.0	319.8	326.4	333.0	378.2
22.5°	322.4	347.6	323.8	299.9	329.1	356.9	345.0	333.0	354.3	374.2	355.6
25°	321.1	278.6	318.5	358.3	331.7	303.9	318.5	333.0	322.4	310.5	345.0
27.5°	370.2	351.6	341.0	329.1	343.7	358.3	327.7	297.2	297.2	297.2	293.2
30°	463.1	414.0	392.8	370.2	334.4	298.5	287.9	277.3	278.6	280.0	299.9
32.5°	517.5	498.9	435.2	371.5	338.4	305.2	277.3	249.5	252.1	254.8	280.0
35°	565.3	550.7	465.7	379.5	325.1	269.4	245.5	220.3	232.2	242.8	264.0
37.5°	619.7	579.8	464.4	347.6	289.3	230.9	216.3	201.7	209.6	216.3	229.6
40°	668.7	591.8	452.5	311.8	253.4	193.7	187.1	179.1	185.8	192.4	200.4
42.5°	721.8	609.0	435.2	260.1	213.6	167.2	164.5	161.9	168.5	175.1	180.5
45°	763.0	611.7	412.7	212.3	181.8	151.3	151.3	149.9	156.6	161.9	164.5
47.5°	789.5	582.5	376.8	169.8	156.6	143.3	144.6	144.6	149.9	153.9	155.2
50°	808.1	534.7	342.3	149.9	143.3	136.7	136.7	136.7	142.0	146.0	148.6
52.5°	821.3	481.7	310.5	138.0	135.3	131.4	131.4	130.0	136.7	143.3	144.6
55°	825.3	427.3	278.6	128.7	126.1	123.4	126.1	127.4	135.3	142.0	143.3
57.5°	834.6	384.8	252.1	119.4	118.1	116.8	120.7	124.7	132.7	140.6	140.6
60°	853.2	356.9	233.5	110.1	110.1	110.1	116.8	122.1	130.0	138.0	136.7
62.5°	870.4	331.7	216.3	100.8	102.2	103.5	111.5	119.4	127.4	135.3	134.0
65°	873.1	291.9	192.4	92.9	95.5	96.9	106.2	115.4	123.4	131.4	128.7
67.5°	843.9	228.2	156.6	84.9	88.9	91.6	102.2	111.5	119.4	126.1	123.4
70°	790.8	163.2	120.7	78.3	82.3	84.9	95.5	104.8	111.5	118.1	115.4
72.5°	712.5	116.8	94.2	71.7	74.3	77.0	86.2	95.5	103.5	110.1	107.5
75°	587.8	94.2	79.6	65.0	67.7	69.0	78.3	86.2	94.2	100.8	96.9
77.5°	390.1	77.0	67.7	58.4	59.7	61.0	69.0	75.6	82.3	87.6	84.9
80°	188.4	62.4	57.1	50.4	51.7	51.7	58.4	65.0	70.3	74.3	73.0
82.5°	77.0	49.1	45.1	41.1	41.1	41.1	47.8	53.1	58.4	62.4	59.7
85°	47.8	38.5	35.8	31.8	30.5	29.2	31.8	34.5	37.2	38.5	37.2
87.5°	6.6	6.6	8.0	9.3	8.0	5.3	8.0	10.6	10.6	9.3	8.0
90°	0.0	0.0	4.0	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	513.5	513.5	513.5	513.5
2.5°	457.8	457.8	457.8	460.4
5°	456.4	456.4	456.4	459.1
7.5°	425.9	412.7	399.4	400.7
10°	477.7	479.0	479.0	480.3
12.5°	436.5	415.3	394.1	396.7
15°	444.5	444.5	443.2	444.5
17.5°	370.2	363.6	356.9	356.9
20°	423.3	423.3	423.3	423.3
22.5°	337.0	335.7	334.4	335.7
25°	379.5	380.8	380.8	379.5
27.5°	289.3	306.5	322.4	323.8
30°	318.5	318.5	318.5	318.5
32.5°	305.2	318.5	331.7	333.0
35°	284.0	282.6	281.3	285.3
37.5°	241.5	238.8	236.2	236.2
40°	208.3	203.0	197.7	197.7
42.5°	184.4	180.5	175.1	173.8
45°	167.2	163.2	157.9	157.9
47.5°	155.2	152.6	149.9	148.6
50°	149.9	147.3	144.6	144.6
52.5°	146.0	144.6	142.0	142.0
55°	143.3	142.0	139.3	139.3
57.5°	140.6	139.3	136.7	136.7
60°	135.3	134.0	132.7	132.7
62.5°	131.4	130.0	128.7	128.7
65°	126.1	126.1	124.7	123.4
67.5°	119.4	119.4	119.4	116.8
70°	111.5	111.5	111.5	108.8
72.5°	103.5	103.5	102.2	98.2
75°	92.9	91.6	90.2	87.6
77.5°	82.3	79.6	77.0	75.6
80°	70.3	67.7	65.0	62.4
82.5°	55.7	54.4	51.7	45.1
85°	34.5	30.5	25.2	22.6
87.5°	6.6	5.3	4.0	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)