

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: LUMARK

Report Number: P303583

Luminaire Tested: **WPSLED10**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P303583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1906-360-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPSLED10
Description: SMALL LED WALL PACK - 40W, 4000K
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.9 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 0.19' x H: 0.49')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

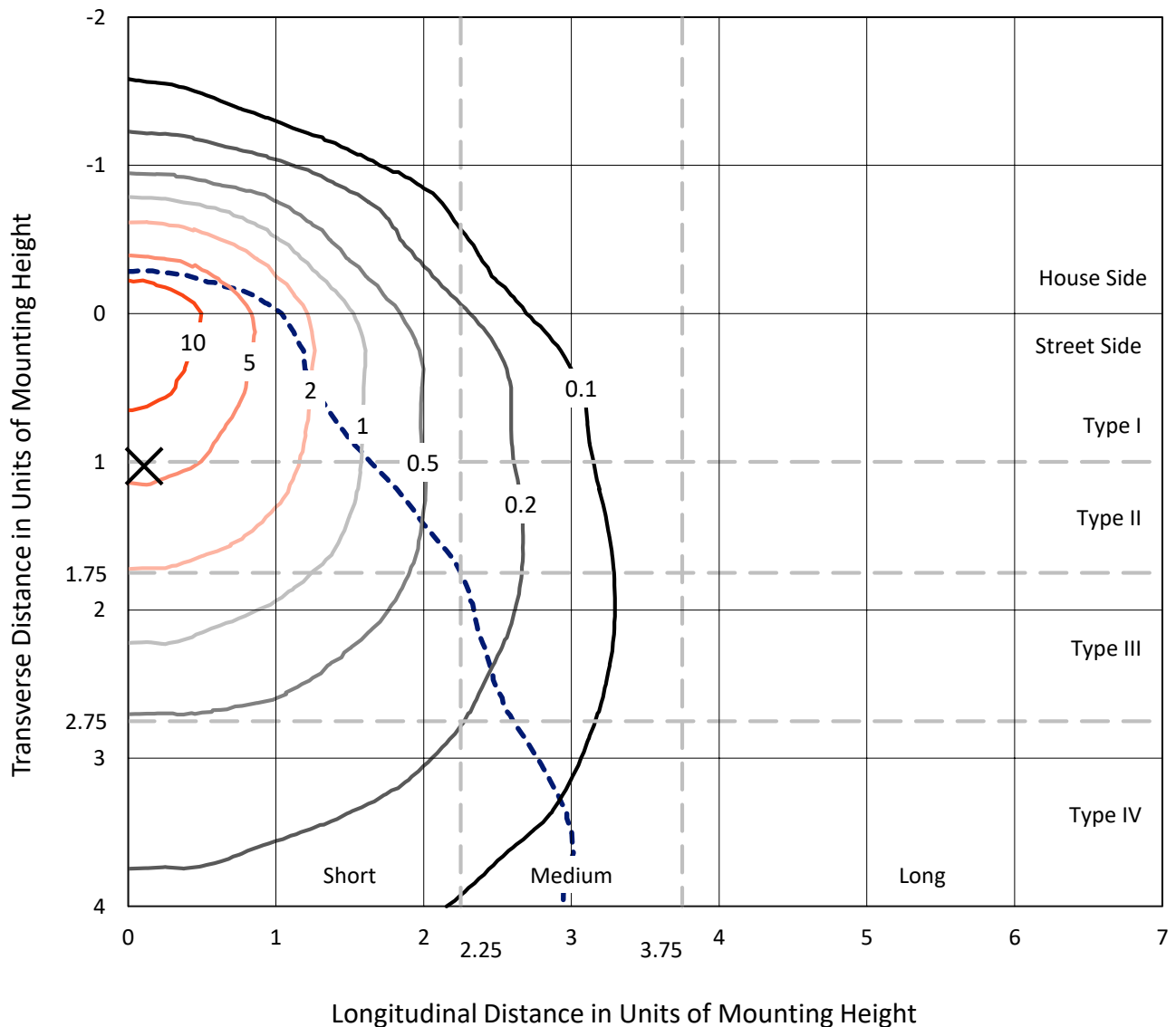
Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

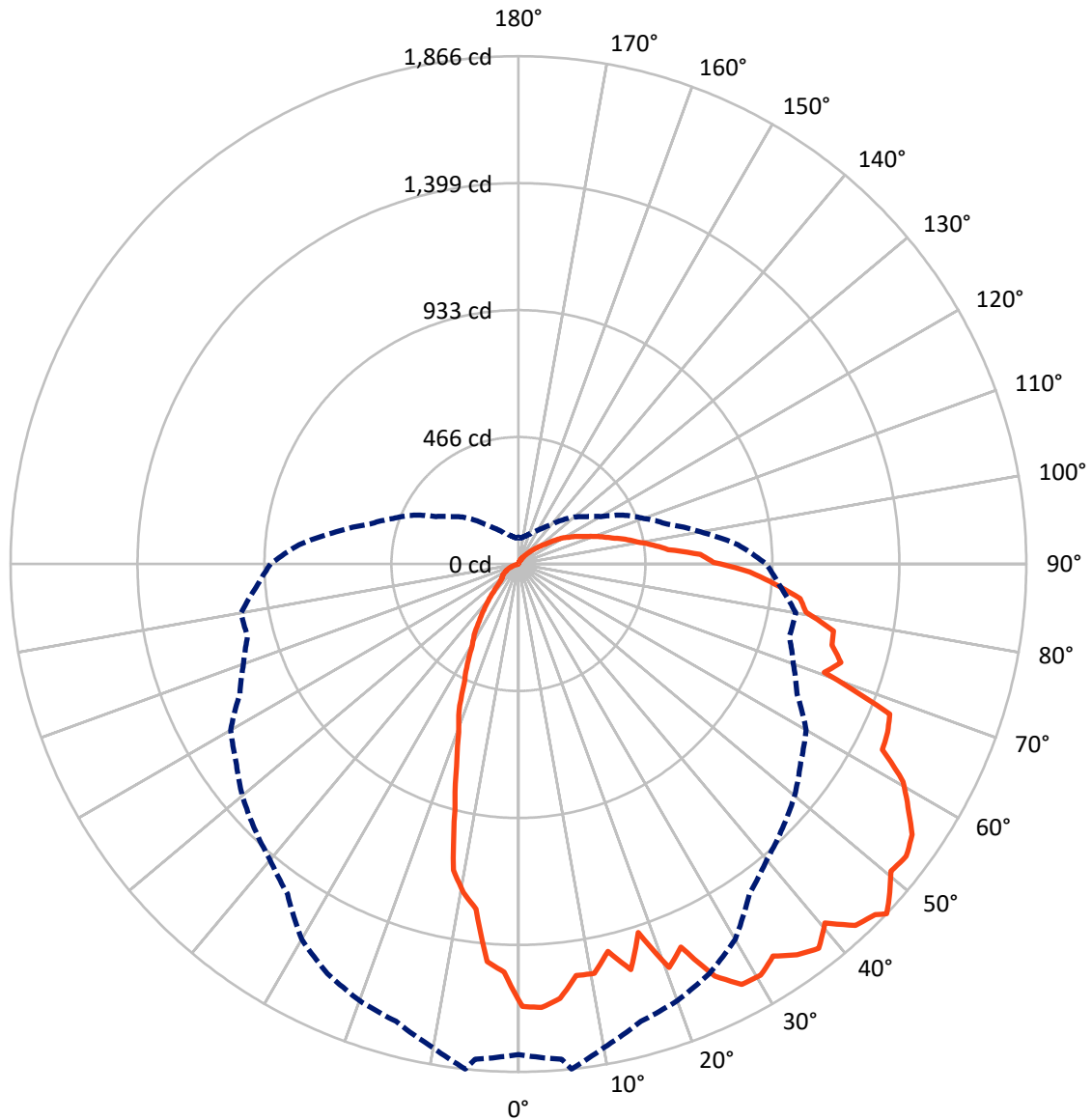
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 6-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical

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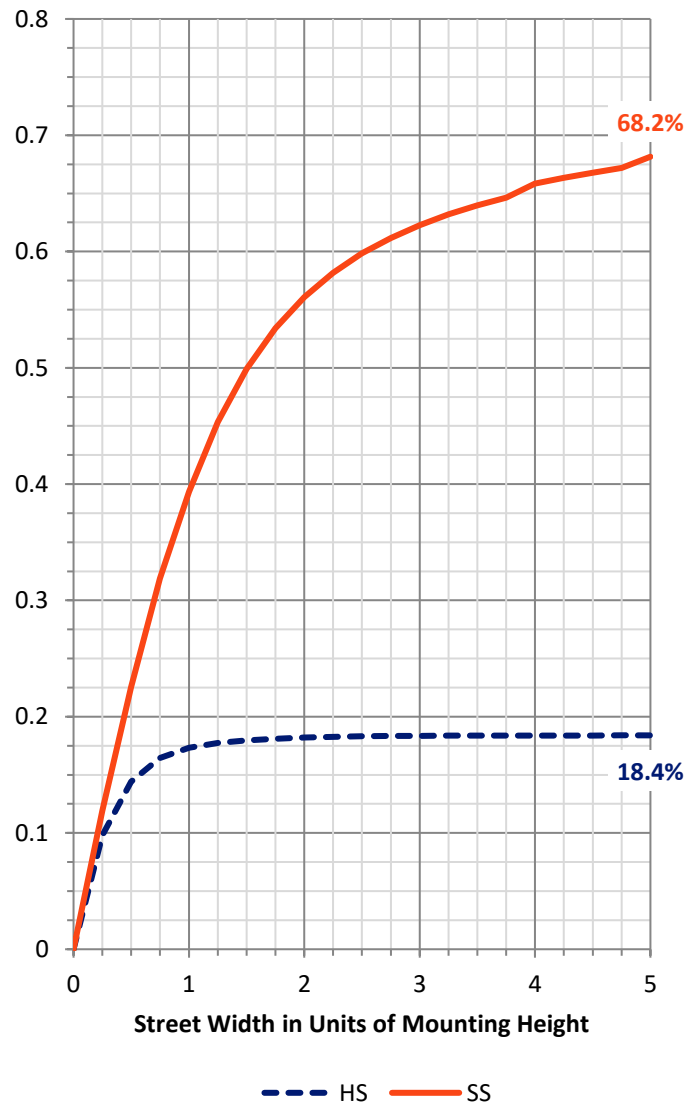
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	879.3	5.9	885.2
	% Fixture	18.6	0.1	18.7
Street Side	Lumens	3445.3	402.3	3847.7
	% Fixture	72.8	8.5	81.3
Total	Lumens	4324.7	408.2	4732.9
	% Fixture	91.4	8.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	3.1
10°-20°	377.1	8.0
20°-30°	527.6	11.1
30°-40°	628.7	13.3
40°-50°	667.9	14.1
50°-60°	649.7	13.7
60°-70°	571.1	12.1
70°-80°	443.6	9.4
80°-90°	314.4	6.6
90°-100°	184.4	3.9
100°-110°	106.7	2.3
110°-120°	62.6	1.3
120°-130°	32.5	0.7
130°-140°	14.4	0.3
140°-150°	5.5	0.1
150°-160°	1.8	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-90°	4324.7	91.4
0°-180°	4732.9	100.0



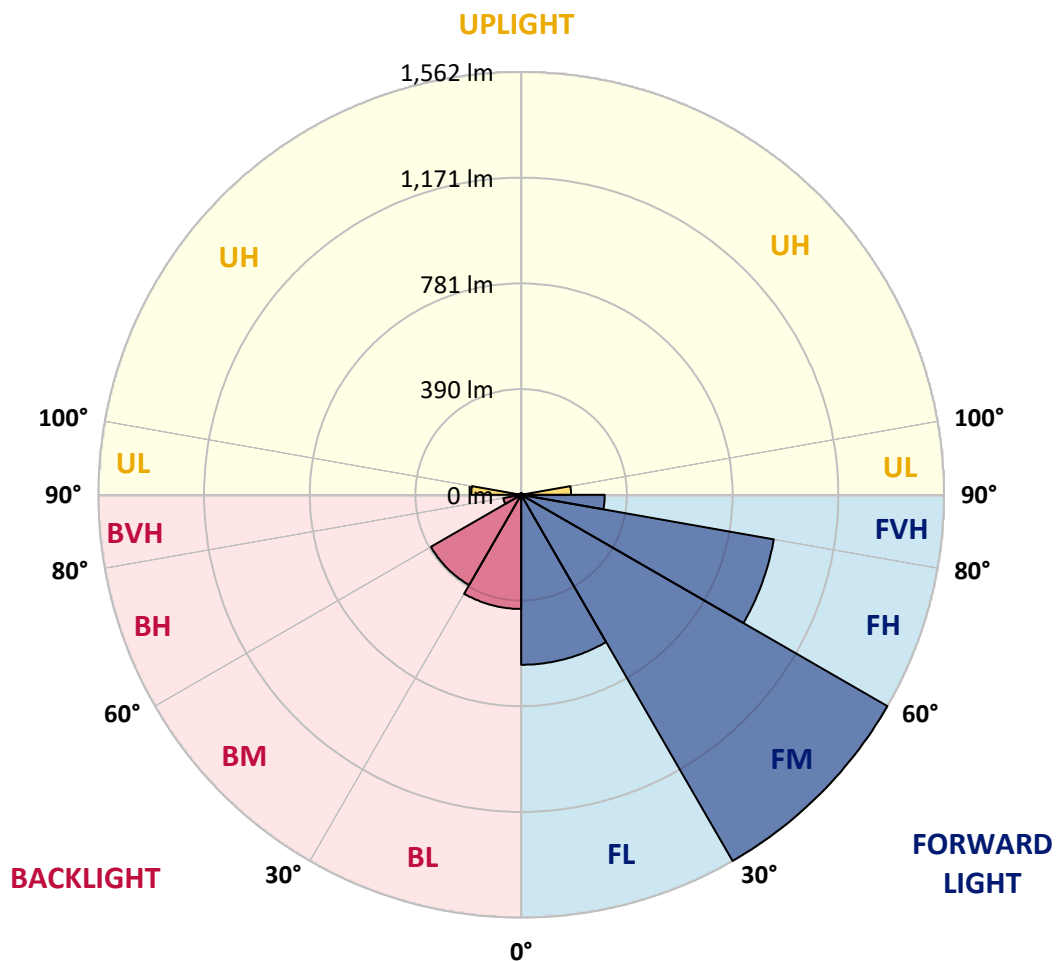
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.7	13.3			
FM	(30°-60°)	1561.6	33.0			
FH	(60°-80°)	947.6	20.0			G1/1800
FVH	(80°-90°)	308.4	6.5			G3/500
BL	(0°-30°)	421.6	8.9	B1/500		
BM	(30°-60°)	384.6	8.1	B1/1000		
BH	(60°-80°)	67.1	1.4	B0/110		G0/110
BVH	(80°-90°)	6.0	0.1			G0/10
UL	(90°-100°)	184.4	3.9		U3/500	
UH	(100°-180°)	5.9	0.1		U1/10	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4
2.5°	1674.6	1652.7	1631.1	1617.6	1581.3	1546.2	1577.4	1569.0	1583.7	1572.9	1627.8
5°	1659.0	1630.8	1602.6	1592.7	1590.6	1610.7	1667.1	1652.1	1659.3	1651.2	1713.0
7.5°	1587.3	1551.0	1526.7	1531.2	1544.4	1502.1	1522.2	1544.4	1538.7	1498.2	1593.9
10°	1576.5	1546.5	1529.7	1561.2	1527.0	1514.7	1566.6	1509.3	1532.7	1504.2	1535.4
12.5°	1492.5	1465.8	1460.1	1475.7	1432.5	1449.6	1460.4	1484.7	1484.4	1547.4	1551.3
15°	1554.6	1530.3	1546.2	1535.4	1528.8	1492.5	1499.1	1428.6	1424.1	1445.4	1497.9
17.5°	1439.4	1423.2	1424.1	1386.9	1366.5	1366.2	1416.3	1468.8	1530.0	1437.6	1437.0
20°	1567.5	1574.4	1581.9	1565.1	1528.8	1476.9	1458.9	1384.5	1366.2	1428.9	1540.2
22.5°	1532.4	1535.1	1528.8	1500.6	1446.3	1440.6	1498.5	1532.4	1459.2	1346.4	1399.2
25°	1660.8	1664.7	1677.3	1662.3	1614.9	1569.6	1519.5	1443.6	1443.3	1493.4	1402.2
27.5°	1743.6	1726.8	1748.7	1685.1	1611.6	1570.8	1599.6	1590.3	1472.4	1397.7	1480.5
30°	1725.3	1729.5	1753.5	1731.0	1705.8	1685.4	1662.9	1576.2	1539.9	1499.4	1398.3
32.5°	1684.8	1692.0	1717.8	1681.8	1653.6	1629.3	1648.8	1637.7	1567.2	1496.4	1487.1
35°	1730.1	1735.5	1763.7	1716.9	1662.6	1621.2	1622.4	1598.4	1541.1	1525.8	1470.9
37.5°	1733.4	1747.2	1792.2	1752.0	1709.7	1673.1	1638.6	1581.0	1523.1	1485.9	1482.6
40°	1678.2	1694.1	1734.3	1681.5	1631.1	1625.4	1636.5	1595.7	1503.3	1469.7	1436.7
42.5°	1761.6	1775.1	1815.0	1736.4	1655.1	1616.1	1609.2	1575.0	1488.3	1444.2	1405.5
45°	1784.4	1804.8	1837.8	1770.9	1716.0	1680.0	1647.6	1566.0	1478.1	1428.0	1383.3
46°	1801.8	1826.7	1865.7	1804.2	1739.1	1707.0	1659.9	1592.4	1479.3	1419.3	1372.2
47.5°	1768.8	1795.5	1833.0	1786.8	1746.3	1720.2	1698.9	1619.1	1504.5	1417.2	1350.0
50°	1714.8	1734.3	1773.6	1732.5	1686.3	1678.5	1686.0	1650.0	1531.2	1445.4	1333.8
52.5°	1723.2	1741.8	1784.1	1753.2	1707.6	1689.9	1656.3	1598.7	1509.6	1455.3	1344.6
55°	1722.6	1723.2	1755.0	1686.0	1582.5	1582.8	1612.2	1597.8	1506.0	1438.8	1324.2
57.5°	1623.3	1635.3	1688.1	1673.4	1613.7	1601.7	1602.0	1565.4	1477.5	1414.5	1305.0
60°	1580.1	1574.1	1623.9	1604.1	1543.5	1550.1	1542.6	1479.0	1408.2	1390.2	1287.0
62.5°	1457.1	1450.5	1500.9	1495.2	1472.1	1479.3	1486.8	1493.1	1409.4	1330.5	1229.1
65°	1451.7	1441.2	1491.0	1458.6	1401.3	1388.1	1388.7	1364.4	1323.6	1310.4	1195.5
67.5°	1426.2	1426.8	1471.2	1458.9	1404.3	1379.7	1355.4	1321.2	1257.9	1222.5	1140.6
70°	1160.7	1149.3	1192.2	1205.7	1238.7	1294.5	1268.1	1222.2	1190.7	1162.2	1079.1
72.5°	1214.1	1199.7	1239.0	1246.2	1268.7	1272.0	1278.9	1308.6	1168.8	1060.2	964.8
75°	1165.5	1160.4	1189.5	1161.9	1110.3	1104.9	1098.9	1092.9	1045.8	996.6	879.3
77.5°	1165.8	1156.5	1183.2	1147.5	1091.1	1071.3	1039.2	990.3	938.4	930.6	859.8
80°	1045.8	1052.4	1071.0	1070.7	1073.7	1102.5	1060.2	982.5	898.8	843.0	775.5
82.5°	1035.9	1028.4	1042.5	1024.8	991.8	974.1	927.0	918.9	877.5	797.7	687.6
85°	939.0	935.1	945.6	941.7	925.2	944.7	911.4	842.7	776.4	718.2	629.7
87.5°	843.3	841.8	850.5	829.5	805.2	791.1	757.2	739.2	705.0	649.8	562.8
90°	714.9	711.6	716.1	703.2	686.7	681.0	672.0	662.1	606.0	549.9	480.6
92.5°	670.5	683.7	669.0	668.1	653.4	640.2	603.9	547.5	500.7	461.4	416.7
95°	551.7	551.7	552.6	546.3	534.0	524.4	507.9	480.0	444.0	417.6	369.3
97.5°	502.5	502.8	499.8	495.0	480.6	468.9	453.0	430.2	401.4	368.1	315.3
100°	445.2	446.7	444.6	447.0	437.7	434.1	417.6	387.6	351.3	314.1	267.3
102.5°	407.4	405.9	403.2	399.6	387.9	375.0	358.2	336.0	309.3	274.8	229.5
105°	361.2	363.0	357.0	357.0	348.9	339.6	325.2	301.5	272.1	237.0	201.0
107.5°	329.1	328.5	322.8	321.3	314.7	301.8	288.9	264.6	238.2	209.4	174.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
110°	295.2	296.7	290.7	290.1	281.7	270.0	256.2	233.4	208.5	181.8	153.0
112.5°	264.0	264.9	258.6	258.3	251.1	240.0	229.5	208.5	186.9	162.3	137.7
115°	241.2	242.4	235.5	235.5	228.6	216.3	204.9	182.7	162.3	140.4	119.1
117.5°	215.7	214.5	209.1	209.4	202.2	189.6	180.6	161.1	141.9	122.7	104.4
120°	194.1	194.7	188.4	187.8	179.7	168.6	157.8	141.6	125.7	109.2	92.4
122.5°	165.6	165.6	159.6	159.6	152.4	141.9	132.9	116.7	104.7	91.8	78.6
125°	136.2	136.8	130.8	131.1	124.8	116.1	111.0	99.6	90.0	79.2	68.7
127.5°	116.1	117.3	112.5	113.4	108.6	101.1	96.9	86.1	78.3	67.5	58.5
130°	98.7	99.0	95.7	95.7	91.8	86.1	82.5	74.1	66.9	58.5	49.5
132.5°	84.9	84.9	81.3	81.6	77.7	72.3	69.6	62.1	56.1	48.9	42.6
135°	70.8	70.8	68.1	68.1	64.5	59.7	57.6	51.6	46.5	41.4	35.4
137.5°	57.6	57.9	55.2	55.5	53.1	49.5	48.0	42.9	39.0	33.9	29.1
140°	47.7	47.1	45.6	45.6	43.5	40.5	39.9	35.7	32.4	27.9	24.3
142.5°	39.0	39.0	37.5	38.1	36.0	33.3	32.7	29.4	26.4	23.4	20.1
145°	31.8	31.8	30.9	30.9	29.4	27.0	26.7	24.0	21.9	18.9	16.8
147.5°	26.1	26.1	25.2	25.5	24.0	22.5	21.9	19.5	17.7	15.6	13.8
150°	21.9	21.3	20.7	20.7	19.5	18.0	18.0	15.9	14.7	12.9	11.1
152.5°	17.7	17.4	17.1	17.1	15.9	15.0	14.4	13.2	12.0	10.2	8.7
155°	14.1	14.1	13.8	13.5	12.9	11.7	11.4	10.2	9.0	7.8	6.3
157.5°	11.1	11.1	10.8	10.8	9.9	9.0	9.0	7.8	6.6	5.4	4.5
160°	8.7	8.4	8.1	8.1	7.5	6.6	6.3	5.4	4.5	3.6	2.7
162.5°	6.3	6.0	6.0	5.7	5.1	4.5	4.2	3.3	2.7	2.1	1.8
165°	3.6	3.6	3.6	3.3	3.0	2.4	2.4	1.8	1.2	1.2	1.5
167.5°	1.5	1.5	1.5	1.2	0.9	0.9	1.2	1.2	1.2	1.2	1.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4
2.5°	1588.2	1587.3	1559.1	1543.5	1548.6	1557.0	1561.2	1571.7	1596.3	1626.0	1627.2
5°	1669.2	1655.4	1608.0	1569.3	1542.9	1522.2	1524.0	1541.4	1585.2	1631.7	1600.2
7.5°	1637.4	1700.4	1670.7	1599.0	1573.5	1549.5	1533.9	1541.7	1603.8	1642.2	1550.4
10°	1547.7	1552.8	1581.9	1639.5	1628.1	1594.2	1552.5	1530.0	1612.5	1622.1	1520.7
12.5°	1522.2	1523.1	1491.9	1545.6	1676.1	1599.3	1541.4	1487.1	1590.9	1546.5	1444.8
15°	1547.4	1524.6	1473.3	1482.3	1568.4	1625.1	1531.5	1465.8	1578.3	1498.8	1380.9
17.5°	1446.9	1506.6	1496.4	1458.0	1477.2	1611.9	1519.8	1446.9	1563.9	1443.6	1355.4
20°	1404.0	1411.5	1470.9	1453.8	1426.2	1530.3	1523.4	1416.9	1527.6	1377.6	1350.0
22.5°	1489.8	1393.8	1366.8	1473.9	1392.6	1449.6	1525.2	1377.6	1476.9	1326.6	1334.7
25°	1345.2	1449.9	1325.1	1359.9	1418.7	1386.6	1503.3	1343.1	1425.0	1287.9	1253.7
27.5°	1376.7	1316.4	1395.0	1269.9	1417.5	1326.6	1462.8	1308.6	1365.0	1262.4	1172.1
30°	1433.1	1309.2	1335.3	1280.1	1333.5	1307.1	1410.0	1269.0	1291.2	1221.9	1106.1
32.5°	1363.5	1384.5	1253.4	1306.2	1241.1	1295.7	1349.4	1232.4	1232.7	1166.4	1056.9
35°	1431.9	1329.9	1299.9	1266.3	1209.3	1262.7	1312.8	1209.9	1185.6	1121.7	1020.3
37.5°	1422.0	1348.8	1329.0	1213.2	1213.8	1233.3	1265.4	1176.9	1149.0	1067.1	963.6
40°	1426.2	1352.7	1284.3	1208.7	1187.7	1178.4	1213.8	1128.9	1093.2	1009.2	892.5
42.5°	1388.4	1343.7	1266.0	1197.0	1149.3	1123.8	1147.8	1070.1	1028.1	934.5	807.0
45°	1341.0	1296.9	1236.6	1147.8	1096.5	1054.5	1067.4	998.4	945.9	844.5	717.0
46°	1324.5	1266.6	1220.4	1129.2	1074.9	1030.2	1034.4	966.6	910.2	809.4	679.8
47.5°	1290.6	1227.6	1183.8	1095.0	1038.3	996.9	998.1	920.7	866.1	754.5	632.7
50°	1268.4	1177.8	1113.6	1045.5	973.5	929.7	924.0	842.1	779.7	666.9	549.9
52.5°	1243.5	1135.8	1071.9	990.3	907.2	860.7	853.2	777.9	712.5	598.5	477.3
55°	1218.0	1113.3	1005.9	928.8	852.0	803.4	788.1	714.6	647.4	524.4	408.3
57.5°	1200.9	1069.5	962.7	878.4	798.6	744.9	736.5	665.4	586.2	464.4	346.8
60°	1175.1	1037.4	918.3	821.4	743.7	681.6	666.9	593.7	505.8	371.7	284.4
62.5°	1124.7	999.3	879.0	762.3	681.3	627.6	607.8	529.8	425.4	307.5	234.6
65°	1087.5	969.3	834.6	705.3	618.9	572.1	555.9	477.0	359.1	246.3	199.2
67.5°	1033.2	906.9	804.9	663.6	561.9	516.0	494.1	411.0	294.0	198.6	172.8
70°	997.8	861.9	732.9	619.5	507.0	455.1	421.5	334.5	226.2	166.2	150.3
72.5°	880.2	784.8	669.0	557.7	455.4	390.6	350.1	262.2	170.7	136.5	129.9
75°	819.9	723.6	612.9	509.4	411.0	332.7	282.6	196.5	132.6	112.8	109.8
77.5°	759.3	658.2	557.7	459.0	357.3	280.5	221.1	147.3	102.0	92.4	87.6
80°	709.8	600.6	491.7	401.1	313.2	229.2	171.9	108.6	77.7	73.2	68.1
82.5°	613.8	529.2	433.8	342.3	261.3	188.1	131.4	81.6	59.7	56.1	51.0
85°	549.3	458.1	365.7	290.4	213.6	150.3	100.8	60.9	44.4	41.7	36.6
87.5°	479.7	398.1	314.1	238.2	178.2	120.3	78.0	46.2	32.7	30.6	27.0
90°	416.4	344.1	272.7	200.7	144.9	100.5	60.9	34.5	25.2	23.1	21.3
92.5°	367.2	301.2	235.2	170.4	124.5	82.5	49.5	27.3	20.7	18.6	17.1
95°	316.5	267.3	205.5	148.2	105.6	68.7	40.5	22.5	17.7	15.9	14.7
97.5°	269.4	225.6	175.8	125.1	87.9	56.1	33.9	19.8	16.2	15.0	12.9
100°	226.8	185.7	144.0	104.7	72.3	46.8	28.8	18.3	15.9	14.4	12.0
102.5°	189.9	155.7	118.2	83.7	59.7	39.3	25.2	17.1	15.9	13.8	10.8
105°	166.8	132.9	100.2	69.3	49.8	33.6	22.5	16.5	15.9	13.5	9.9
107.5°	144.6	116.7	86.4	60.0	43.5	29.7	20.7	15.9	15.3	12.9	9.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	126.6	101.1	75.9	53.7	39.3	26.7	19.2	15.6	15.0	12.3	8.4
112.5°	112.8	88.2	66.6	48.3	35.4	23.7	18.0	15.0	14.1	11.4	7.5
115°	98.1	77.7	58.8	43.2	31.8	20.7	16.8	14.1	13.2	10.5	6.9
117.5°	86.7	68.7	52.8	38.4	27.3	18.3	15.3	13.2	12.0	9.6	6.3
120°	75.6	58.8	45.6	33.0	22.5	16.2	13.5	11.7	10.5	8.4	5.4
122.5°	65.1	51.6	40.5	28.8	19.2	14.4	11.7	10.5	9.6	7.5	4.8
125°	57.6	45.6	35.7	24.0	16.8	12.6	10.2	9.3	8.4	6.6	4.2
127.5°	48.6	39.0	29.7	20.4	14.1	10.8	8.7	8.1	7.2	5.7	3.6
130°	41.4	32.7	24.6	17.1	12.6	9.3	7.5	6.6	6.0	4.8	3.0
132.5°	35.7	27.9	21.0	14.7	10.8	7.5	6.0	5.4	4.8	3.9	2.4
135°	29.4	23.7	18.0	12.6	9.0	6.0	4.8	4.5	3.9	3.0	2.1
137.5°	24.6	19.5	15.0	10.8	7.5	4.8	3.9	3.6	3.0	2.4	1.8
140°	20.4	15.9	12.6	8.7	5.7	3.3	3.3	2.7	2.4	2.1	1.5
142.5°	17.1	13.2	10.5	7.2	4.5	2.7	2.7	2.1	2.1	1.8	1.5
145°	14.1	11.1	8.7	5.4	3.0	2.1	2.4	2.1	1.8	1.8	1.5
147.5°	11.4	8.7	6.6	3.9	2.1	2.1	2.1	1.8	1.8	1.5	1.2
150°	9.0	6.6	4.8	2.7	1.8	1.8	1.8	1.5	1.5	1.5	1.2
152.5°	6.9	4.8	3.0	1.8	1.8	1.8	1.8	1.5	1.5	1.2	0.9
155°	4.8	3.3	2.1	1.5	1.5	1.5	1.5	1.5	1.2	1.2	0.9
157.5°	3.3	2.1	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	0.9
160°	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	0.9
162.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	0.9
165°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2
167.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	0.9
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4	1625.4
2.5°	1682.4	1638.0	1619.1	1591.8	1639.8	1574.1	1565.7	1563.9	1548.6	1535.1	1504.8
5°	1601.7	1536.9	1515.3	1476.3	1511.1	1435.2	1413.9	1410.0	1425.0	1459.5	1482.3
7.5°	1546.5	1461.9	1404.9	1391.7	1491.0	1468.5	1413.0	1382.4	1369.2	1346.4	1292.4
10°	1487.7	1403.7	1424.1	1415.7	1414.8	1314.6	1257.3	1305.9	1345.5	1340.1	1316.4
12.5°	1426.2	1454.1	1386.3	1275.6	1289.4	1323.9	1288.8	1263.3	1171.5	1137.6	1097.1
15°	1422.3	1386.3	1266.9	1254.6	1315.8	1212.3	1111.5	1117.2	1138.8	1129.2	1054.2
17.5°	1413.0	1266.6	1252.5	1229.1	1156.2	1091.1	1107.6	1029.6	964.5	935.4	900.9
20°	1303.8	1224.0	1214.4	1092.3	1106.4	1038.6	946.2	911.1	853.8	772.5	735.9
22.5°	1216.2	1213.5	1093.5	1040.4	1005.6	910.8	845.4	743.4	719.7	681.6	636.6
25°	1178.4	1113.3	1025.7	955.8	892.8	792.6	690.3	684.9	619.5	573.0	577.2
27.5°	1140.6	1027.8	964.5	846.9	784.2	662.7	649.2	570.9	566.4	519.6	467.1
30°	1049.4	963.3	860.7	758.7	660.9	631.5	542.7	541.2	467.1	453.6	407.1
32.5°	954.9	898.2	765.9	651.0	630.9	534.6	510.6	443.4	413.4	379.8	348.3
35°	890.4	804.9	688.8	587.7	546.9	498.3	430.2	389.7	356.7	324.9	310.5
37.5°	838.2	731.1	610.2	552.3	486.6	426.3	376.5	339.6	304.2	288.6	259.8
40°	765.9	664.5	562.8	494.1	442.5	378.3	329.7	292.5	265.2	242.7	213.0
42.5°	687.0	588.3	504.3	432.9	373.5	320.7	283.2	250.2	221.4	192.6	174.0
45°	597.6	518.4	455.1	379.8	323.1	283.5	247.5	208.8	174.6	159.0	137.4
46°	565.8	489.9	424.5	348.6	303.3	268.2	228.6	190.5	162.9	143.7	125.7
47.5°	516.0	444.9	390.3	310.5	281.4	246.6	204.3	167.1	142.5	124.5	110.1
50°	445.8	387.6	324.9	274.8	243.3	209.7	166.5	136.5	115.2	103.5	92.7
52.5°	379.5	329.4	277.8	234.6	207.0	166.8	136.2	111.6	96.6	87.9	81.0
55°	322.8	279.9	237.9	203.7	167.7	137.4	112.5	93.0	82.8	76.5	71.4
57.5°	276.3	242.4	208.5	175.2	137.4	113.4	92.7	78.9	70.5	66.3	62.7
60°	232.2	212.1	181.5	141.0	111.6	93.0	75.6	66.6	60.9	56.7	54.9
62.5°	195.9	184.5	153.0	115.2	91.2	75.6	61.2	55.2	51.0	47.7	47.1
65°	170.1	158.7	125.1	93.9	74.1	60.0	49.5	45.0	41.7	39.9	38.7
67.5°	149.7	132.9	102.3	76.2	58.8	46.2	39.0	34.8	32.1	31.2	30.0
70°	130.8	110.4	84.3	60.6	45.6	35.7	30.0	26.1	24.0	21.9	21.6
72.5°	110.7	89.7	67.2	48.9	35.4	27.6	21.3	17.7	15.6	13.8	13.2
75°	90.0	71.1	51.9	37.5	26.1	19.5	13.2	9.3	6.3	1.5	0.3
77.5°	70.5	55.5	39.0	27.3	17.4	11.1	5.1	0.6	0.0	0.0	0.0
80°	53.1	41.1	29.1	18.9	10.5	4.8	1.2	0.0	0.0	0.0	0.0
82.5°	39.9	30.0	20.4	13.2	7.2	3.3	0.6	0.0	0.0	0.0	0.0
85°	29.4	22.2	15.0	9.6	5.1	2.1	0.3	0.0	0.0	0.0	0.0
87.5°	21.3	16.5	11.4	7.2	3.6	1.5	0.3	0.0	0.0	0.0	0.0
90°	16.8	13.2	9.0	5.7	3.0	1.2	0.3	0.0	0.0	0.0	0.0
92.5°	14.1	10.8	7.5	5.1	2.4	1.2	0.3	0.0	0.0	0.0	0.0
95°	12.3	9.3	6.3	3.9	2.1	1.2	0.3	0.0	0.0	0.0	0.0
97.5°	10.2	7.8	5.4	3.3	1.5	0.9	0.3	0.0	0.0	0.0	0.0
100°	9.0	6.6	4.5	2.7	1.2	0.6	0.3	0.0	0.0	0.0	0.0
102.5°	8.1	6.0	3.9	2.1	0.9	0.6	0.0	0.0	0.0	0.0	0.0
105°	6.9	5.1	3.3	1.8	0.9	0.6	0.0	0.0	0.0	0.0	0.0
107.5°	6.3	4.5	2.7	1.5	0.9	0.6	0.0	0.0	0.0	0.0	0.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	5.7	3.9	2.4	1.2	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0°
112.5°	5.1	3.3	1.8	1.2	0.6	0.3	0.0	0.0	0.0	0.0	0.0	2.5°
115°	4.5	2.7	1.5	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	5°
117.5°	4.2	2.4	1.5	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	7.5°
120°	3.6	2.1	1.2	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	10°
122.5°	3.0	1.8	1.2	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	12.5°
125°	2.7	1.5	1.2	0.9	0.3	0.3	0.0	0.0	0.0	0.0	0.0	15°
127.5°	2.1	1.5	1.2	0.9	0.3	0.3	0.0	0.0	0.0	0.0	0.0	17.5°
130°	1.8	1.5	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	20°
132.5°	1.8	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	22.5°
135°	1.5	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	25°
137.5°	1.5	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	27.5°
140°	1.5	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	30°
142.5°	1.2	0.9	0.9	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	32.5°
145°	1.2	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	35°
147.5°	1.2	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	37.5°
150°	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	40°
152.5°	0.9	0.6	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	42.5°
155°	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	45°
157.5°	0.9	0.6	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	46°
160°	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	47.5°
162.5°	0.9	0.9	0.9	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	50°
165°	1.2	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	52.5°
167.5°	0.9	0.9	0.9	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	55°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

