

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: McGRAW-EDISON

Report Number: P228235

Luminaire Tested: **ISS-AF-1200-LED-E1-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-1200-LED-E1-SL3  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6262.5 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

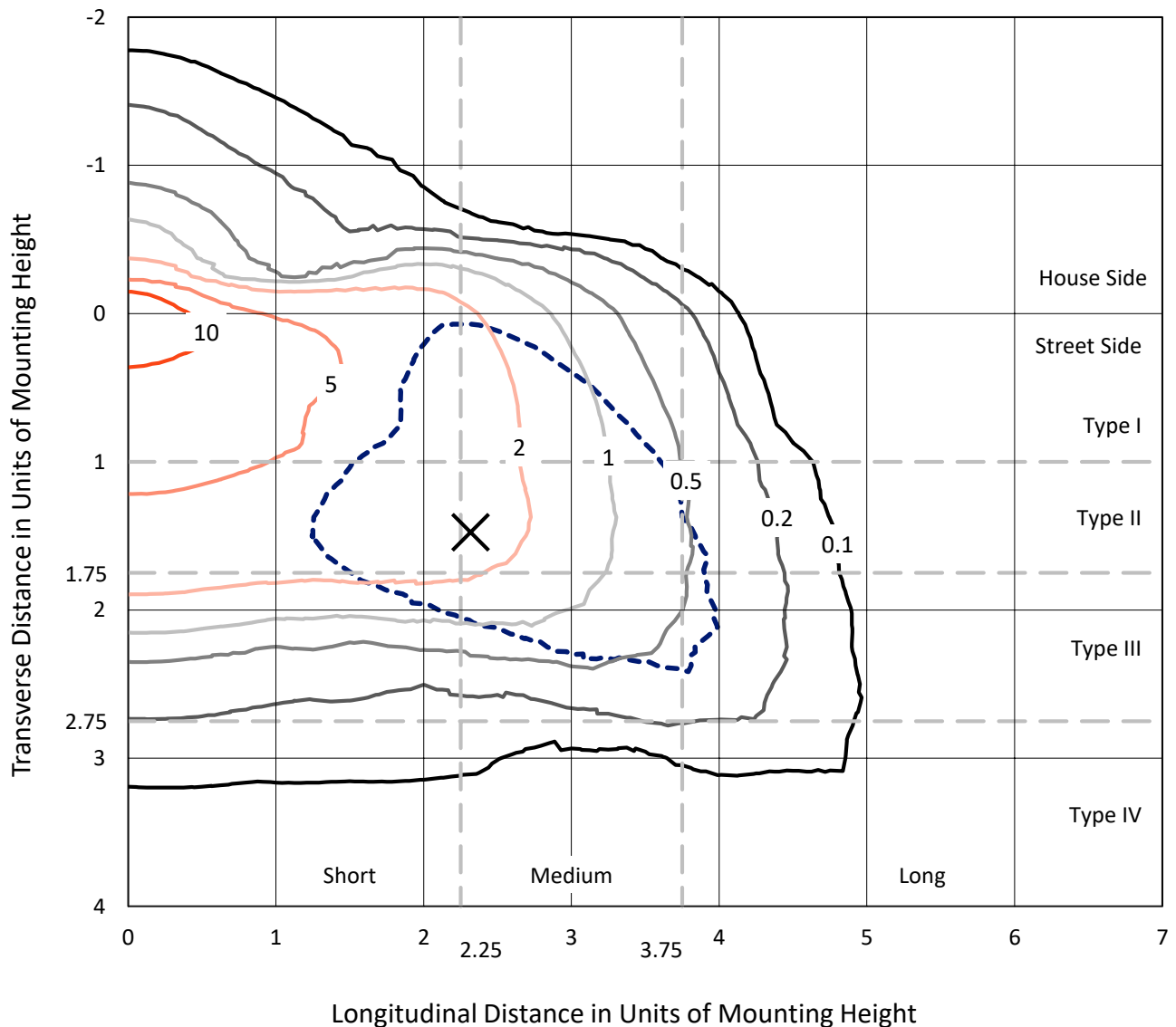
Input Watts (W): 66  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

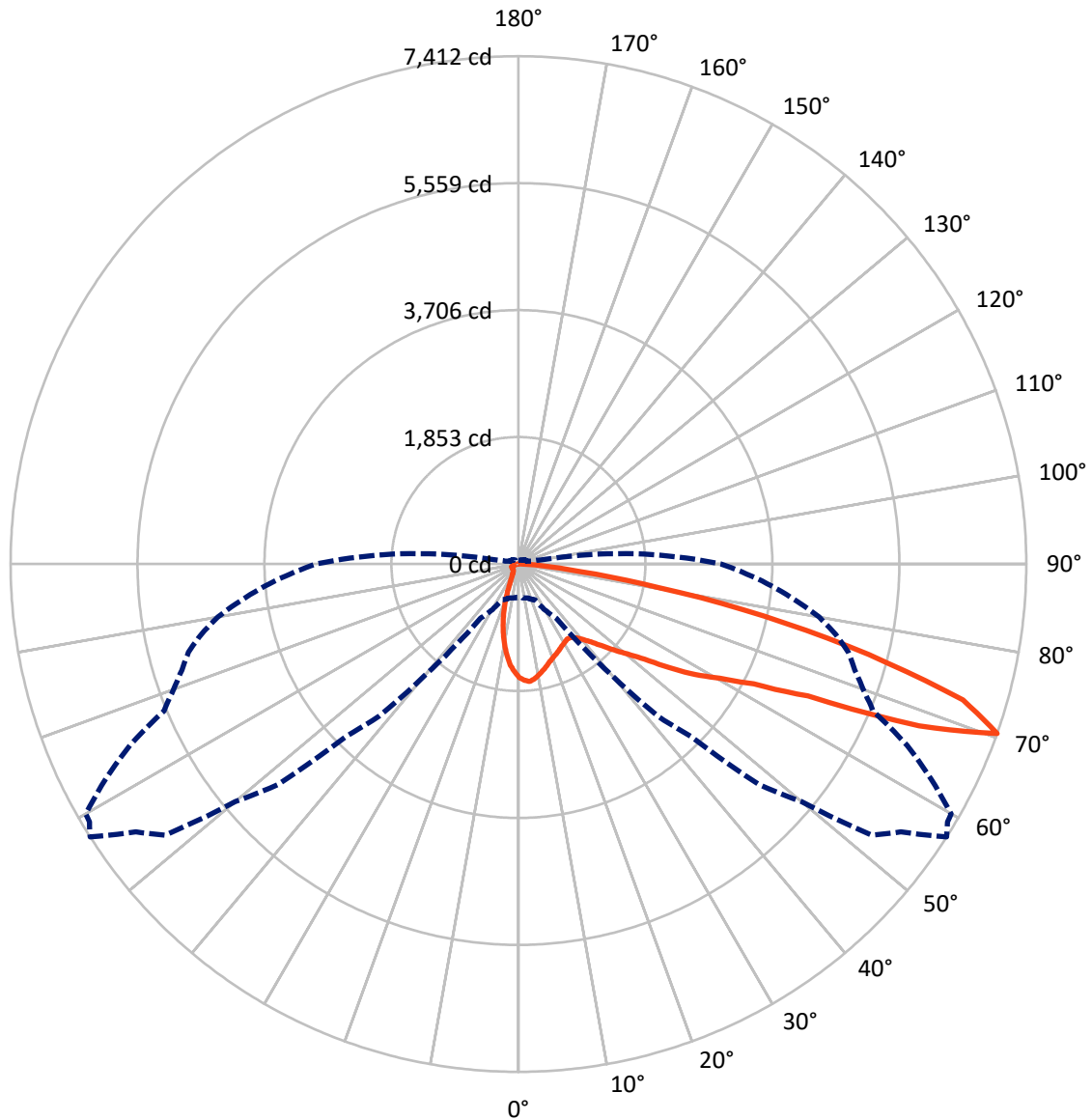


Based on 10 foot mounting height. Maximum calculated value = 16.6 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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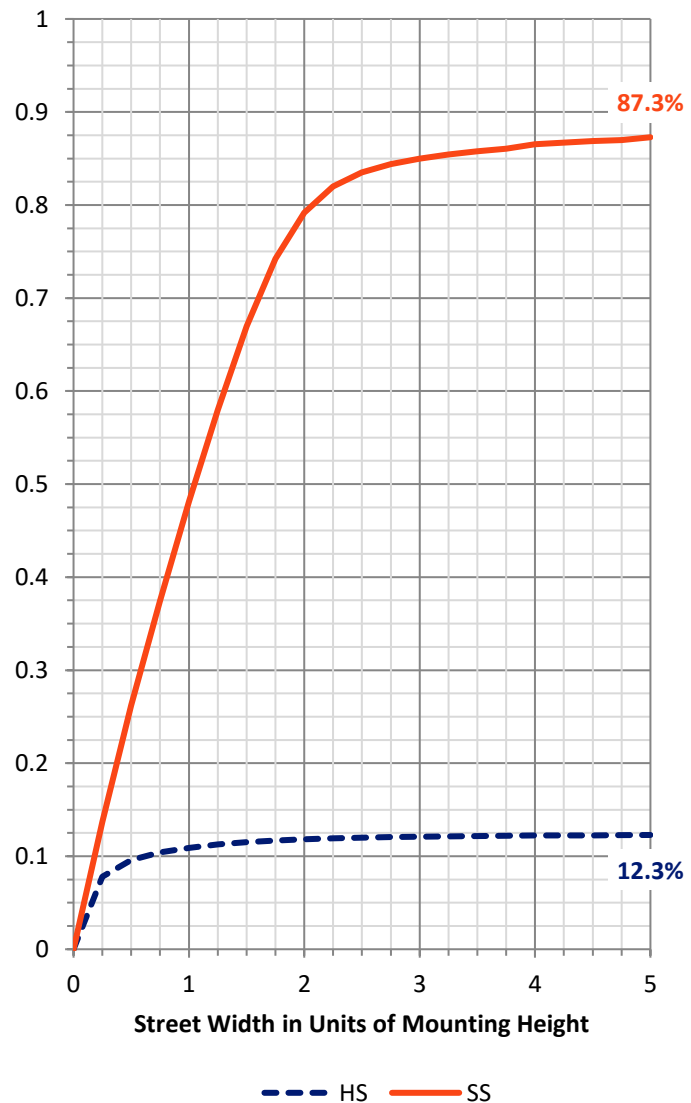
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	774.9	0.0	774.9
	% Fixture	12.4	0.0	12.4
<b>Street Side</b>	Lumens	5487.5	0.0	5487.5
	% Fixture	87.6	0.0	87.6
<b>Total</b>	Lumens	6262.5	0.0	6262.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	2.3
10°-20°	310.7	5.0
20°-30°	390.5	6.2
30°-40°	510.3	8.1
40°-50°	765.7	12.2
50°-60°	1210.4	19.3
60°-70°	1744.7	27.9
70°-80°	1079.8	17.2
80°-90°	107.1	1.7
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°	6262.5	100.0
0°-180°	6262.5	100.0



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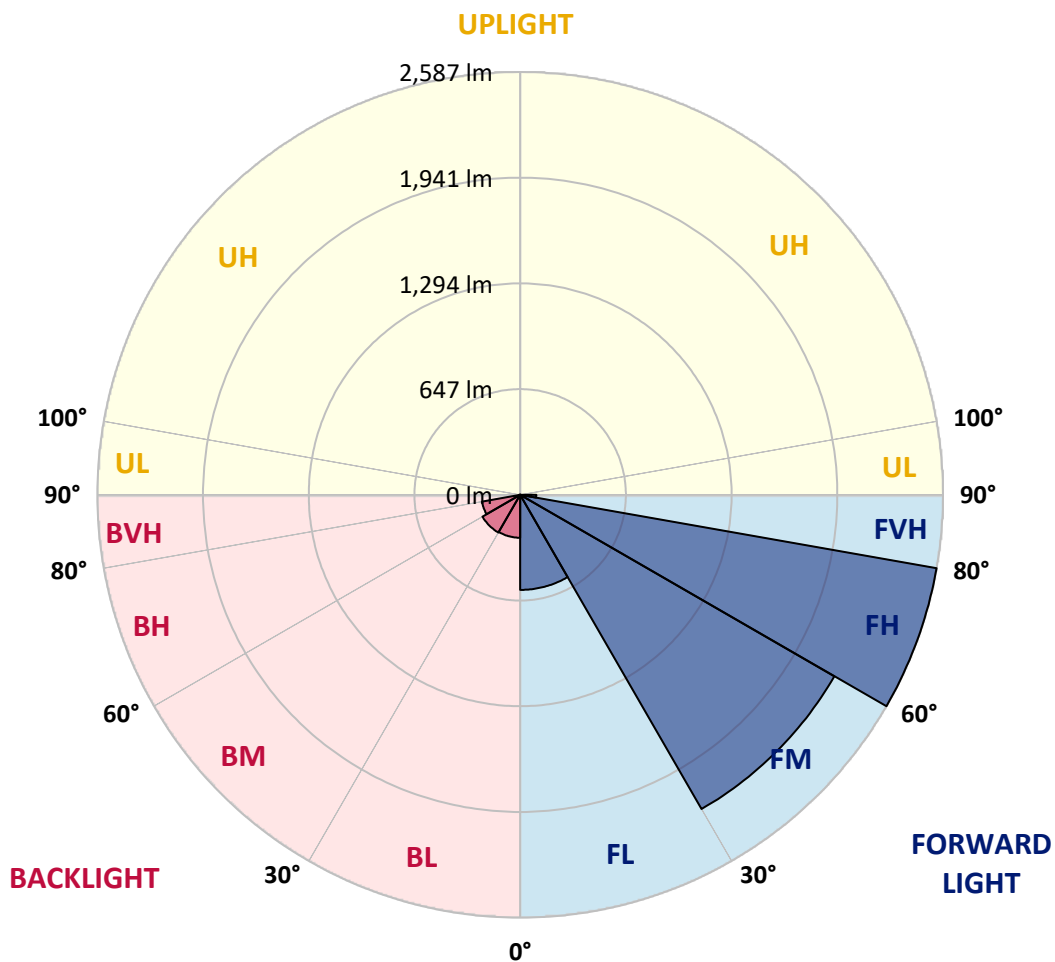
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.6	9.3			
FM	(30°-60°)	2220.0	35.4			
FH	(60°-80°)	2587.4	41.3			G2/5000
FVH	(80°-90°)	98.6	1.6			G1/100
BL	(0°-30°)	262.7	4.2	B1/500		
BM	(30°-60°)	266.5	4.3	B1/1000		
BH	(60°-80°)	237.2	3.8	B1/500		G1/500
BVH	(80°-90°)	8.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6
2.5°	1739.8	1737.6	1733.1	1724.3	1719.8	1724.3	1719.8	1713.1	1704.2	1710.9	1706.5
5°	1735.3	1739.8	1730.9	1724.3	1735.3	1739.8	1730.9	1730.9	1722.0	1730.9	1726.4
7.5°	1648.7	1650.9	1653.1	1650.9	1679.8	1679.8	1675.4	1679.8	1682.0	1686.4	1688.7
10°	1539.8	1542.0	1546.5	1553.1	1588.7	1593.1	1595.4	1599.8	1606.4	1610.9	1624.2
12.5°	1430.9	1435.4	1444.3	1466.5	1504.2	1508.8	1515.4	1522.0	1533.2	1539.8	1564.3
15°	1339.9	1342.1	1350.9	1375.4	1430.9	1442.1	1446.5	1455.4	1477.6	1477.6	1504.2
17.5°	1255.4	1259.9	1266.5	1295.4	1350.9	1368.7	1382.0	1386.5	1415.4	1422.0	1453.2
20°	1190.9	1193.2	1195.4	1222.1	1273.2	1299.9	1310.9	1328.7	1350.9	1368.7	1395.4
22.5°	1155.4	1157.7	1153.2	1164.3	1208.7	1242.1	1255.4	1273.2	1282.1	1313.2	1328.7
25°	1157.7	1159.8	1148.8	1142.1	1164.3	1199.8	1211.0	1228.8	1224.3	1268.8	1268.8
27.5°	1179.9	1184.3	1173.2	1153.2	1155.4	1184.3	1190.9	1197.7	1184.3	1228.8	1219.9
30°	1224.3	1228.8	1215.4	1199.8	1175.4	1193.2	1193.2	1193.2	1168.7	1206.6	1190.9
32.5°	1270.9	1275.4	1270.9	1259.9	1228.8	1233.2	1224.3	1219.9	1186.5	1217.6	1193.2
35°	1339.9	1342.1	1344.3	1344.3	1299.9	1308.8	1284.3	1270.9	1239.8	1264.3	1230.9
37.5°	1422.0	1422.0	1437.7	1444.3	1395.4	1395.4	1368.7	1350.9	1322.1	1331.0	1297.6
40°	1495.3	1502.0	1537.6	1557.5	1513.1	1495.3	1473.2	1457.6	1435.4	1435.4	1402.1
42.5°	1579.8	1593.1	1635.4	1673.1	1648.7	1622.0	1599.8	1584.2	1573.1	1570.9	1535.3
45°	1684.3	1699.8	1746.5	1782.0	1788.6	1768.7	1750.9	1735.3	1726.4	1722.0	1690.9
47.5°	1802.0	1817.6	1859.8	1902.0	1933.1	1928.7	1908.6	1893.1	1899.7	1895.3	1875.4
50°	1933.1	1942.0	1968.7	2017.6	2088.7	2104.2	2099.7	2088.7	2102.0	2102.0	2084.2
52.5°	2037.5	2044.2	2064.2	2122.0	2239.8	2275.2	2304.2	2326.4	2348.6	2361.9	2350.8
55°	2133.1	2133.1	2135.3	2208.7	2384.2	2441.9	2506.3	2553.0	2581.9	2635.2	2657.4
57.5°	2288.6	2277.5	2275.2	2353.1	2557.5	2617.4	2710.8	2777.4	2817.4	2926.4	2924.1
60°	2244.1	2248.7	2328.6	2557.5	2913.0	2966.4	3050.7	3121.8	3197.4	3277.4	3284.1
62.5°	1935.3	1946.5	2066.5	2408.6	3139.6	3417.4	3677.3	3875.0	3986.2	4057.3	3959.5
65°	1355.4	1382.0	1544.2	1962.0	2890.8	3319.6	3730.7	4188.4	4539.4	5083.9	5241.6
67.5°	675.5	695.5	722.1	1028.8	2159.8	2761.9	3328.5	3952.9	4419.5	5219.4	5666.0
70°	484.4	493.3	513.3	577.7	966.6	1446.5	2113.1	3006.4	3555.2	4761.6	5392.7
72.5°	375.5	384.4	411.0	502.2	640.0	706.6	839.9	1373.2	2042.0	3288.5	4141.7
75°	291.0	304.4	342.2	453.3	615.5	653.3	659.9	708.8	808.7	1459.9	2321.9
77.5°	204.4	206.6	244.4	391.1	597.7	671.1	659.9	659.9	673.2	744.4	993.2
80°	135.5	137.8	162.2	271.1	524.4	611.0	675.5	644.4	646.6	657.7	675.5
82.5°	71.1	75.6	95.5	164.4	306.7	413.3	562.1	586.6	577.7	588.8	584.4
85°	19.9	19.9	33.3	62.2	151.1	160.0	248.9	339.9	346.6	393.3	419.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	8.9	19.9	22.2
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):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6
2.5°	1710.9	1702.0	1699.8	1695.3	1697.6	1690.9	1688.7	1679.8	1679.8	1675.4	1670.9
5°	1722.0	1713.1	1722.0	1706.5	1708.6	1702.0	1690.9	1690.9	1682.0	1675.4	1662.0
7.5°	1690.9	1690.9	1693.1	1684.3	1686.4	1684.3	1670.9	1668.6	1655.3	1655.3	1639.8
10°	1633.1	1633.1	1642.0	1635.4	1637.5	1635.4	1628.7	1626.5	1622.0	1622.0	1597.5
12.5°	1566.4	1579.8	1593.1	1586.5	1586.5	1590.9	1590.9	1593.1	1590.9	1588.7	1568.7
15°	1510.9	1530.9	1544.2	1542.0	1544.2	1555.4	1559.8	1562.0	1568.7	1566.4	1548.7
17.5°	1459.9	1482.1	1493.2	1502.0	1508.8	1517.5	1530.9	1537.6	1546.5	1544.2	1526.4
20°	1413.2	1433.2	1453.2	1464.3	1466.5	1484.3	1499.9	1519.8	1524.3	1528.7	1506.5
22.5°	1364.3	1382.0	1422.0	1415.4	1430.9	1464.3	1473.2	1502.0	1502.0	1517.5	1486.4
25°	1322.1	1324.3	1386.5	1375.4	1388.8	1448.7	1455.4	1506.5	1493.2	1515.4	1479.8
27.5°	1279.8	1277.7	1353.2	1339.9	1355.4	1437.7	1442.1	1513.1	1499.9	1526.4	1479.8
30°	1248.7	1242.1	1328.7	1302.1	1324.3	1426.5	1428.8	1519.8	1508.8	1544.2	1495.3
32.5°	1242.1	1230.9	1306.5	1286.5	1308.8	1415.4	1428.8	1544.2	1530.9	1575.3	1513.1
35°	1270.9	1253.2	1317.7	1299.9	1317.7	1419.9	1439.8	1582.0	1566.4	1617.6	1555.4
37.5°	1324.3	1310.9	1364.3	1346.5	1359.8	1451.0	1468.8	1630.9	1628.7	1690.9	1619.8
40°	1417.6	1404.3	1446.5	1422.0	1433.2	1517.5	1526.4	1699.8	1706.5	1782.0	1710.9
42.5°	1544.2	1522.0	1555.4	1526.4	1542.0	1617.6	1608.7	1784.2	1804.2	1908.6	1826.5
45°	1706.5	1677.5	1697.6	1666.5	1677.5	1742.0	1717.5	1897.6	1917.5	2046.4	1973.1
47.5°	1884.2	1848.7	1873.1	1833.1	1839.8	1908.6	1864.2	2033.1	2064.2	2226.4	2155.3
50°	2097.6	2050.9	2059.7	2022.0	2026.5	2095.3	2046.4	2199.8	2237.5	2417.4	2355.2
52.5°	2370.8	2304.2	2304.2	2253.0	2255.3	2324.1	2264.2	2397.5	2439.7	2621.9	2579.7
55°	2730.8	2677.5	2666.3	2613.0	2595.2	2608.5	2524.1	2617.4	2664.2	2835.2	2801.9
57.5°	3017.4	3010.7	3044.1	2968.5	2950.8	2955.2	2848.5	2855.3	2908.6	3041.8	3053.0
60°	3366.2	3377.4	3381.8	3319.6	3312.9	3250.7	3141.9	3124.1	3190.7	3281.8	3317.4
62.5°	3921.8	3910.6	3855.1	3808.4	3766.2	3599.6	3539.6	3441.8	3535.1	3586.3	3659.6
65°	5115.0	4999.4	4643.9	4675.0	4563.9	4201.7	4150.6	3952.9	4099.5	4101.7	4239.5
67.5°	6297.0	6523.7	6305.9	6310.4	6059.2	5403.8	5246.0	4852.8	4934.9	4839.4	4910.5
70°	6499.2	6816.9	7412.4	7305.8	7292.4	6788.1	6257.0	5601.6	5354.9	5150.5	4986.1
72.5°	5592.7	5910.4	6783.6	6541.5	6632.5	6785.8	6232.6	5741.5	5190.5	4930.5	4575.0
75°	3935.1	4392.8	5279.3	5152.7	5219.4	5472.7	4997.2	4939.4	4301.7	4128.4	3581.8
77.5°	2108.6	2675.2	3668.4	3512.9	3541.8	3686.2	3190.7	3088.5	2473.1	2301.9	1682.0
80°	948.8	1315.4	2059.7	1886.4	1835.4	1753.1	1291.0	1017.6	622.2	413.3	286.6
82.5°	628.8	653.3	913.2	791.0	739.9	611.0	395.5	233.3	184.4	155.5	148.8
85°	422.2	386.6	384.4	339.9	315.5	248.9	184.4	115.5	95.5	80.0	73.3
87.5°	24.4	15.5	22.2	24.4	17.8	15.5	11.2	0.0	2.3	0.0	2.3
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):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6
2.5°	1659.8	1659.8	1657.6	1642.0	1633.1	1628.7	1613.1	1610.9	1604.3	1602.0	1602.0
5°	1657.6	1648.7	1637.5	1615.3	1593.1	1573.1	1566.4	1550.9	1539.8	1526.4	1526.4
7.5°	1626.5	1617.6	1593.1	1559.8	1530.9	1502.0	1486.4	1464.3	1446.5	1428.8	1424.3
10°	1590.9	1577.6	1544.2	1499.9	1462.0	1411.0	1390.9	1362.1	1342.1	1315.4	1288.7
12.5°	1553.1	1544.2	1504.2	1453.2	1395.4	1331.0	1299.9	1259.9	1233.2	1202.1	1162.1
15°	1537.6	1519.8	1468.8	1404.3	1333.2	1255.4	1211.0	1168.7	1128.7	1093.2	1039.8
17.5°	1517.5	1495.3	1437.7	1362.1	1273.2	1179.9	1122.1	1075.4	1022.1	984.3	924.3
20°	1495.3	1462.0	1399.8	1308.8	1208.7	1097.6	1024.3	977.6	906.5	868.8	797.7
22.5°	1477.6	1435.4	1359.8	1257.6	1137.6	1013.2	926.6	873.2	793.2	748.8	659.9
25°	1473.2	1422.0	1331.0	1215.4	1077.7	931.0	826.5	773.2	673.2	622.2	517.7
27.5°	1475.4	1415.4	1313.2	1179.9	1024.3	857.6	733.3	671.1	544.4	491.0	371.0
30°	1477.6	1417.6	1295.4	1148.8	975.5	782.1	635.5	562.1	411.0	364.4	257.8
32.5°	1499.9	1426.5	1291.0	1124.3	931.0	706.6	524.4	457.8	291.0	264.4	191.1
35°	1526.4	1455.4	1299.9	1119.8	897.6	631.1	411.0	342.2	208.9	202.2	155.5
37.5°	1582.0	1499.9	1335.4	1131.0	877.7	553.3	306.7	262.2	164.4	168.9	135.5
40°	1666.5	1575.3	1393.2	1164.3	875.4	475.5	226.7	204.4	142.2	146.7	124.4
42.5°	1779.8	1679.8	1482.1	1235.4	886.6	402.2	182.2	175.5	131.1	135.5	120.0
45°	1928.7	1826.5	1606.4	1326.5	917.7	342.2	160.0	160.0	126.6	131.1	117.7
47.5°	2117.5	2004.2	1759.8	1448.7	966.6	308.8	151.1	153.3	124.4	131.1	117.7
50°	2330.8	2206.4	1955.4	1606.4	1042.1	299.9	153.3	153.3	126.6	131.1	117.7
52.5°	2553.0	2437.5	2166.4	1786.5	1146.5	320.0	157.7	155.5	126.6	131.1	115.5
55°	2779.7	2675.2	2399.7	1997.5	1291.0	391.1	168.9	162.2	126.6	131.1	117.7
57.5°	3006.4	2933.0	2644.1	2224.2	1470.9	520.0	213.3	188.8	139.9	142.2	120.0
60°	3261.8	3208.5	2919.6	2521.9	1726.4	720.0	313.3	237.7	166.6	157.7	128.9
62.5°	3592.9	3579.6	3350.7	2950.8	2137.6	1008.7	444.4	288.9	179.9	164.4	137.8
65°	4177.3	4212.8	3995.0	3452.9	2410.8	1015.5	433.3	253.3	168.9	155.5	135.5
67.5°	4763.9	4659.4	4099.5	3377.4	2175.3	675.5	275.5	197.7	148.8	144.4	126.6
70°	4741.7	4457.2	3717.3	2953.0	1717.5	366.6	200.0	164.4	133.3	133.3	120.0
72.5°	4252.8	3830.6	3039.6	2337.5	1146.5	233.3	168.9	144.4	122.2	120.0	111.1
75°	3201.8	2704.2	1953.1	1346.5	511.1	151.1	128.9	117.7	106.7	106.7	97.8
77.5°	1506.5	848.7	471.1	313.3	171.1	102.2	88.9	88.9	86.6	88.9	80.0
80°	204.4	184.4	157.7	137.8	104.4	71.1	64.4	66.7	64.4	66.7	59.9
82.5°	124.4	111.1	91.1	86.6	64.4	48.9	46.6	48.9	44.4	46.6	35.6
85°	59.9	53.3	42.2	40.0	33.3	28.8	24.4	28.8	22.2	24.4	15.5
87.5°	0.0	4.4	2.3	4.4	4.4	4.4	0.0	4.4	0.0	4.4	0.0
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):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6	1657.6
2.5°	1590.9	1584.2	1582.0	1573.1	1570.9	1562.0	1559.8	1550.9	1535.3	1528.7	1517.5
5°	1506.5	1495.3	1486.4	1482.1	1464.3	1455.4	1442.1	1424.3	1390.9	1375.4	1348.8
7.5°	1388.8	1386.5	1359.8	1350.9	1328.7	1313.2	1293.2	1264.3	1215.4	1186.5	1144.3
10°	1259.9	1251.0	1219.9	1202.1	1173.2	1150.9	1124.3	1082.1	1006.6	946.5	882.1
12.5°	1139.9	1113.2	1077.7	1051.0	1015.5	984.3	953.2	888.7	768.7	671.1	582.2
15°	1015.5	975.5	937.6	893.2	855.5	806.6	771.0	686.6	528.9	408.9	353.3
17.5°	888.7	833.2	791.0	731.0	688.9	622.2	584.4	482.1	346.6	293.3	275.5
20°	755.4	682.1	635.5	562.1	520.0	435.5	406.6	333.3	266.7	246.6	242.2
22.5°	613.3	524.4	473.3	393.3	364.4	313.3	291.0	255.5	224.4	215.5	219.9
25°	464.4	368.9	335.5	277.7	266.7	240.0	231.1	213.3	197.7	197.7	204.4
27.5°	331.0	257.8	248.9	213.3	211.0	197.7	191.1	182.2	177.8	182.2	191.1
30°	242.2	195.5	195.5	175.5	175.5	166.6	164.4	160.0	160.0	168.9	177.8
32.5°	191.1	160.0	164.4	148.8	151.1	144.4	146.7	144.4	146.7	153.3	160.0
35°	160.0	137.8	144.4	131.1	135.5	128.9	133.3	133.3	137.8	139.9	142.2
37.5°	142.2	126.6	131.1	122.2	126.6	120.0	126.6	126.6	128.9	128.9	128.9
40°	131.1	117.7	124.4	115.5	122.2	115.5	122.2	122.2	120.0	117.7	120.0
42.5°	124.4	115.5	122.2	113.3	120.0	113.3	117.7	115.5	111.1	111.1	111.1
45°	122.2	113.3	117.7	111.1	115.5	108.8	113.3	111.1	104.4	102.2	106.7
47.5°	122.2	111.1	117.7	108.8	113.3	106.7	111.1	104.4	97.8	97.8	104.4
50°	122.2	111.1	117.7	108.8	113.3	104.4	106.7	99.9	91.1	93.3	102.2
52.5°	124.4	115.5	120.0	111.1	113.3	99.9	104.4	95.5	88.9	91.1	97.8
55°	126.6	115.5	120.0	106.7	108.8	99.9	99.9	95.5	88.9	88.9	95.5
57.5°	126.6	113.3	115.5	104.4	106.7	95.5	97.8	93.3	86.6	84.4	88.9
60°	131.1	117.7	117.7	102.2	104.4	93.3	95.5	91.1	84.4	80.0	82.2
62.5°	135.5	120.0	122.2	106.7	106.7	95.5	97.8	88.9	80.0	75.6	77.7
65°	135.5	120.0	122.2	108.8	108.8	97.8	97.8	88.9	75.6	71.1	71.1
67.5°	128.9	117.7	120.0	108.8	108.8	97.8	97.8	86.6	73.3	66.7	64.4
70°	124.4	113.3	115.5	102.2	104.4	93.3	93.3	82.2	68.8	62.2	57.8
72.5°	113.3	104.4	104.4	95.5	93.3	82.2	82.2	75.6	64.4	55.5	51.1
75°	97.8	88.9	86.6	77.7	77.7	71.1	68.8	62.2	53.3	46.6	44.4
77.5°	80.0	68.8	68.8	57.8	57.8	51.1	53.3	46.6	40.0	37.7	35.6
80°	57.8	46.6	46.6	37.7	37.7	31.1	33.3	31.1	28.8	28.8	26.7
82.5°	35.6	24.4	26.7	19.9	24.4	17.8	19.9	17.8	17.8	15.5	15.5
85°	17.8	8.9	13.3	6.6	11.2	2.3	6.6	4.4	4.4	4.4	4.4
87.5°	2.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	175°	180°
0°	1657.6	1657.6
2.5°	1506.5	1513.1
5°	1339.9	1342.1
7.5°	1137.6	1133.2
10°	868.8	857.6
12.5°	560.0	544.4
15°	337.8	333.3
17.5°	271.1	271.1
20°	242.2	242.2
22.5°	224.4	224.4
25°	211.0	213.3
27.5°	200.0	200.0
30°	186.7	186.7
32.5°	164.4	164.4
35°	146.7	144.4
37.5°	131.1	133.3
40°	120.0	122.2
42.5°	115.5	115.5
45°	111.1	111.1
47.5°	111.1	111.1
50°	108.8	111.1
52.5°	106.7	106.7
55°	99.9	102.2
57.5°	93.3	95.5
60°	86.6	86.6
62.5°	77.7	77.7
65°	71.1	71.1
67.5°	62.2	62.2
70°	55.5	55.5
72.5°	48.9	48.9
75°	42.2	42.2
77.5°	35.6	33.3
80°	26.7	26.7
82.5°	15.5	15.5
85°	4.4	4.4
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)