

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: INVUE

Report Number: P180951

Luminaire Tested: **ICS-F04-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180951
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-SL4-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7410.1 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

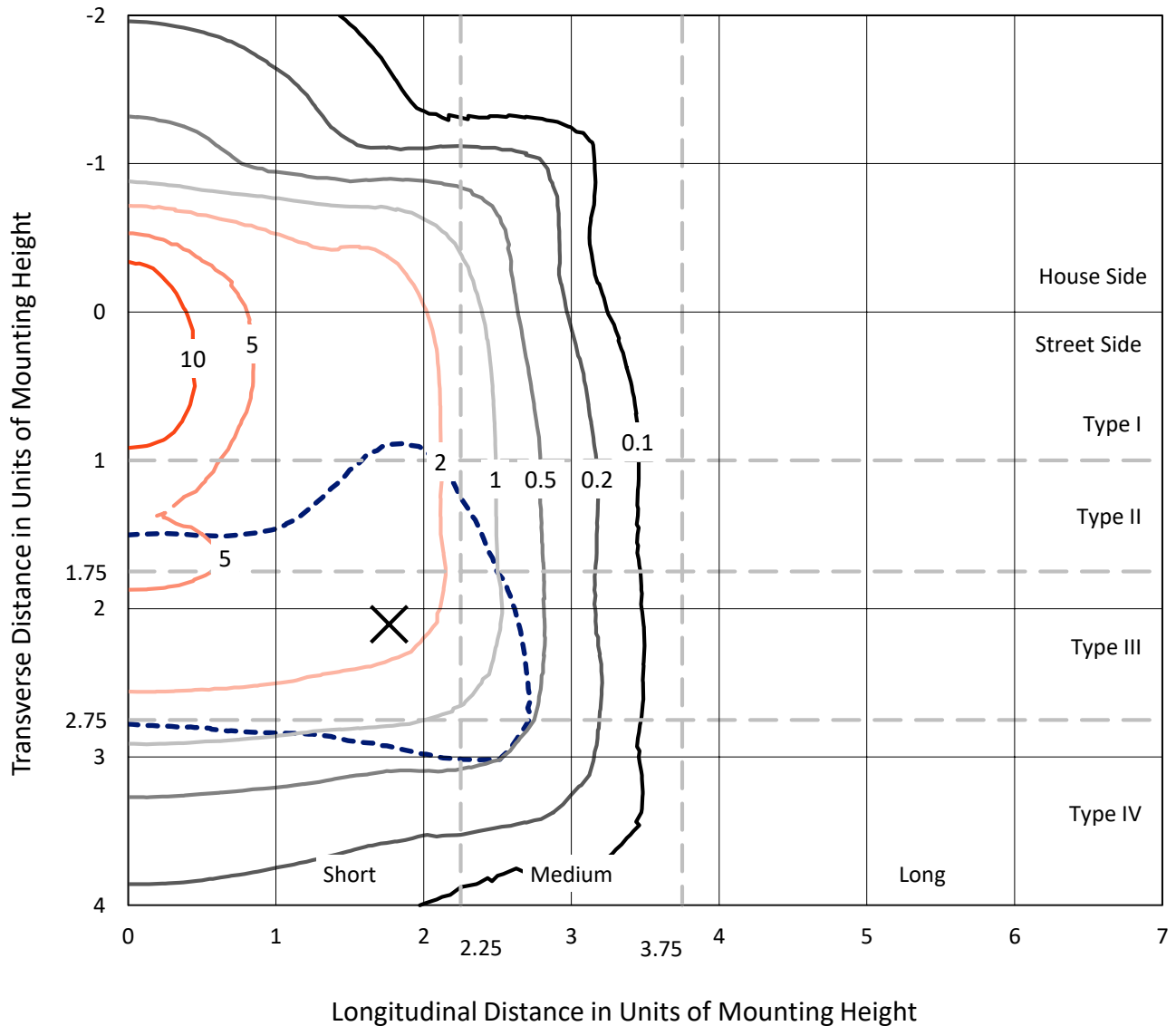
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

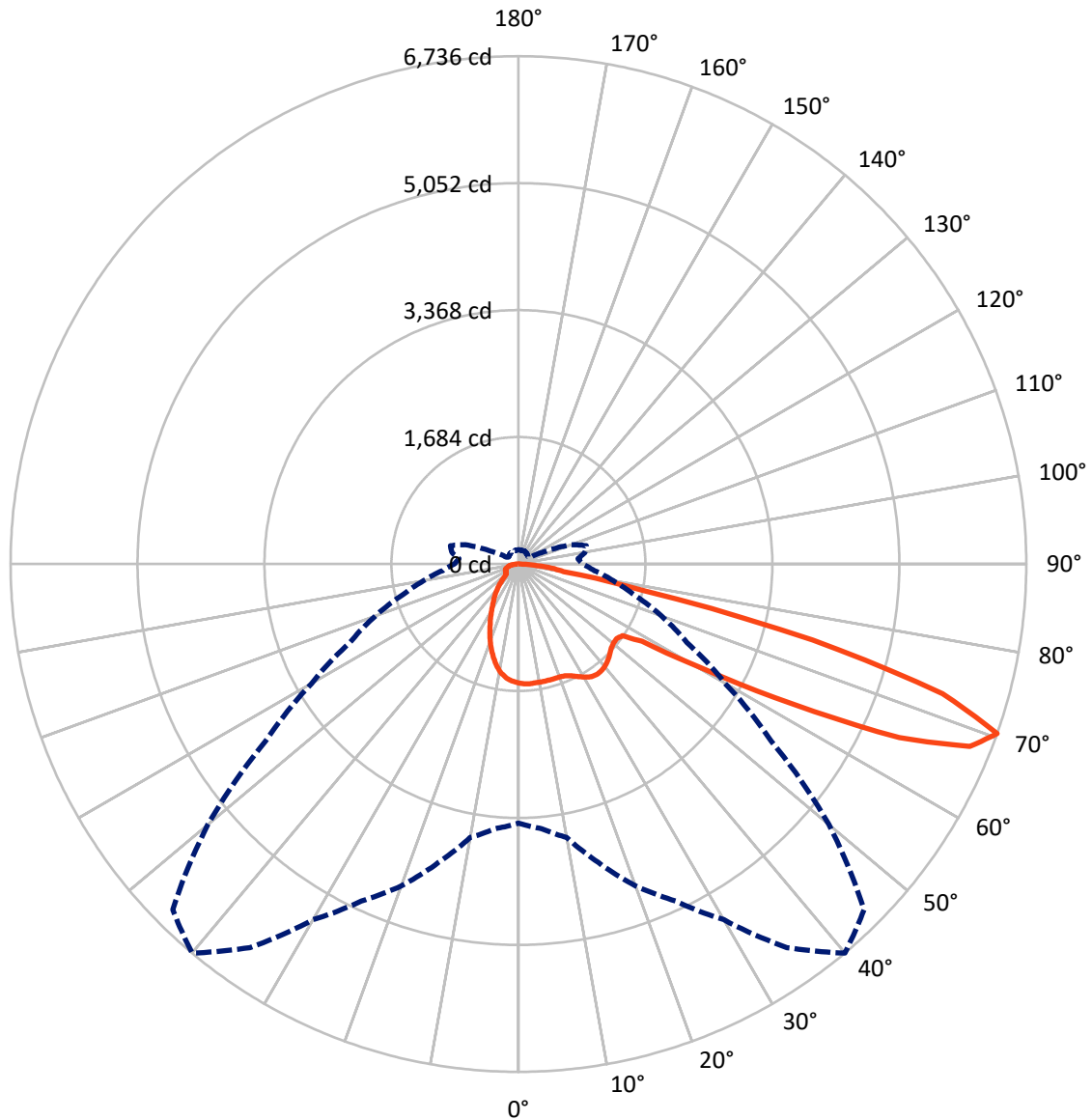
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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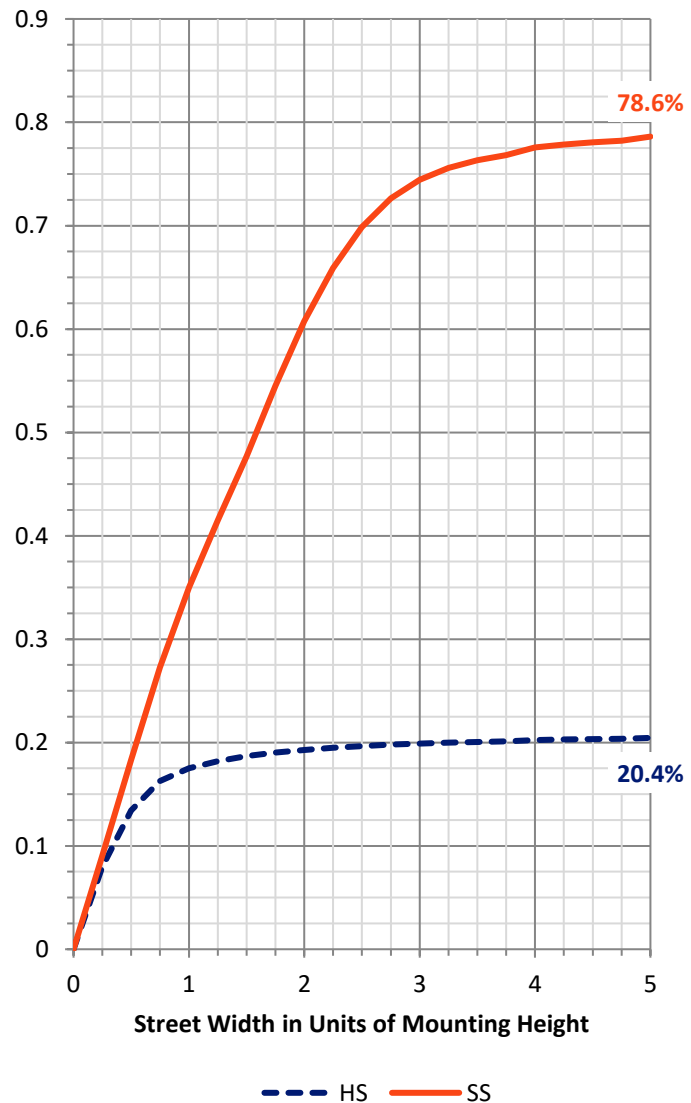
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1538.3	0.0	1538.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5871.8	0.0	5871.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	7410.1	0.0	7410.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	2.0
10°-20°	404.4	5.5
20°-30°	598.6	8.1
30°-40°	756.5	10.2
40°-50°	855.5	11.5
50°-60°	1217.5	16.4
60°-70°	2267.4	30.6
70°-80°	1039.2	14.0
80°-90°	123.4	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°	7410.1	100.0
0°-180°	7410.1	100.0



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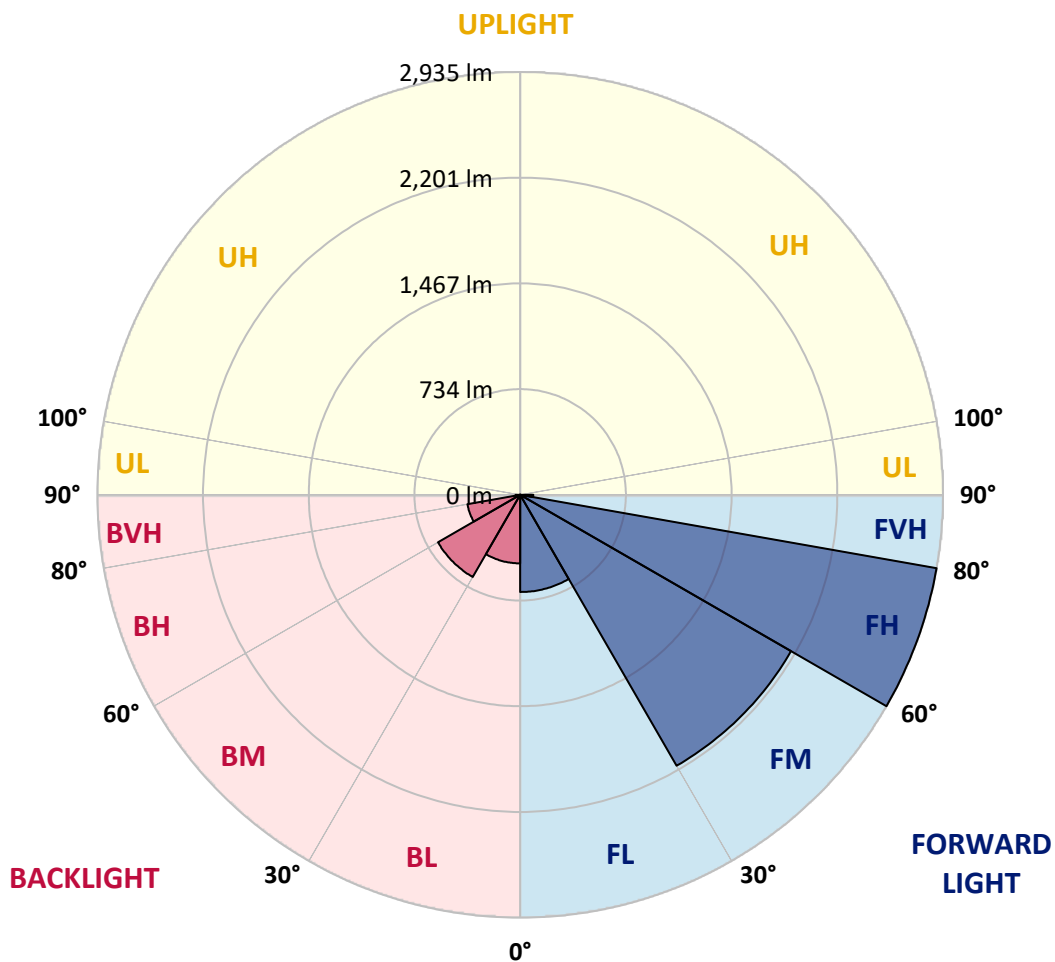
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	674.7	9.1			
FM	(30°-60°)	2170.9	29.3			
FH	(60°-80°)	2934.7	39.6			G2/5000
FVH	(80°-90°)	91.5	1.2			G1/100
BL	(0°-30°)	475.9	6.4	B1/500		
BM	(30°-60°)	658.6	8.9	B1/1000		
BH	(60°-80°)	371.9	5.0	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1
2.5°	1605.4	1609.5	1604.5	1603.7	1603.7	1602.9	1597.8	1597.0	1590.3	1591.2	1592.8
5°	1617.1	1618.7	1615.4	1614.6	1612.9	1609.5	1605.4	1600.3	1595.3	1590.3	1586.1
7.5°	1628.8	1627.1	1624.6	1624.6	1622.1	1617.1	1608.7	1602.0	1591.2	1585.3	1577.8
10°	1645.5	1643.0	1639.6	1638.0	1633.8	1626.3	1614.6	1605.4	1592.0	1580.3	1567.7
12.5°	1661.4	1660.6	1655.5	1653.0	1646.3	1638.8	1624.6	1610.4	1592.8	1574.4	1557.7
15°	1689.8	1686.5	1681.5	1676.4	1665.6	1655.5	1633.8	1617.1	1592.0	1567.7	1541.8
17.5°	1739.1	1733.3	1728.3	1717.4	1704.0	1686.5	1654.7	1626.3	1592.0	1556.9	1527.6
20°	1829.4	1816.9	1810.2	1796.0	1772.6	1740.8	1691.5	1645.5	1594.5	1549.3	1510.0
22.5°	1931.5	1923.1	1913.9	1904.7	1867.9	1821.9	1755.0	1686.5	1609.5	1546.0	1495.8
25°	2046.0	2035.1	2030.1	2014.2	1980.0	1927.3	1836.1	1740.8	1643.8	1559.4	1495.8
27.5°	2148.0	2144.7	2143.8	2125.4	2092.8	2031.0	1923.1	1808.5	1690.7	1587.0	1508.4
30°	2240.8	2237.5	2235.8	2225.8	2188.1	2114.6	1997.5	1868.7	1741.7	1625.4	1531.8
32.5°	2339.5	2328.6	2323.6	2304.4	2261.7	2175.6	2041.8	1908.0	1781.8	1663.1	1557.7
35°	2419.8	2410.6	2400.5	2372.9	2312.7	2210.7	2061.1	1921.4	1797.7	1684.0	1571.1
37.5°	2478.3	2469.1	2454.9	2419.8	2345.3	2222.4	2060.2	1917.2	1791.8	1680.6	1573.6
40°	2504.2	2495.0	2480.0	2435.6	2351.2	2215.7	2044.3	1898.0	1774.3	1663.1	1563.6
42.5°	2494.2	2487.5	2468.3	2425.6	2332.8	2185.6	2012.6	1862.1	1740.8	1634.6	1541.0
45°	2455.7	2450.7	2432.3	2387.1	2291.0	2137.1	1965.7	1816.9	1700.7	1599.5	1510.9
47.5°	2398.0	2396.3	2377.9	2333.6	2238.3	2088.6	1917.2	1772.6	1660.6	1565.2	1485.8
50°	2334.5	2326.1	2316.9	2275.9	2189.0	2046.8	1882.1	1745.0	1638.0	1552.7	1474.9
52.5°	2294.3	2291.8	2283.5	2246.7	2163.1	2022.6	1866.2	1735.0	1636.3	1550.2	1469.1
55°	2650.5	2656.4	2579.5	2419.8	2279.3	2089.5	1913.9	1786.0	1677.3	1590.3	1531.0
57.5°	3920.6	3894.7	3762.6	3445.7	3087.8	2615.4	2275.1	2068.6	1934.0	1949.0	1979.1
60°	4567.8	4562.8	4538.5	4415.6	4177.3	3817.8	3418.9	2961.6	2816.1	2832.0	2843.7
62.5°	4857.1	4864.6	4883.0	4837.0	4774.3	4669.8	4470.8	4286.8	4092.0	4019.3	3824.5
65°	4990.8	5004.2	5046.0	5072.0	5096.2	5114.6	5193.2	5408.9	5551.1	5285.2	4666.4
67.5°	4714.1	4778.5	4916.4	5051.1	5171.5	5342.9	5608.7	6109.6	6458.3	6131.3	5234.2
70°	3436.5	3524.3	3682.3	4098.7	4543.5	4932.3	5447.4	6209.9	6735.8	6483.3	5374.6
72.5°	2154.7	2178.9	2249.2	2402.2	2732.5	3231.6	4132.1	5276.0	5883.0	5681.5	4542.7
75°	1367.1	1375.4	1372.9	1408.0	1464.1	1572.8	1928.9	3116.2	4030.1	3715.8	2531.8
77.5°	814.4	826.9	831.9	842.8	869.6	908.0	937.3	1060.2	1689.8	1640.5	918.9
80°	682.3	692.3	684.0	681.4	664.7	653.0	667.2	653.0	606.2	583.6	537.6
82.5°	361.2	360.4	357.9	382.1	431.4	469.9	499.2	492.5	445.7	379.6	321.9
85°	198.2	204.9	204.9	213.2	205.7	206.5	213.2	224.9	208.2	173.9	142.1
87.5°	16.7	25.9	20.9	25.9	35.1	25.1	24.2	24.2	20.9	15.1	13.4
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°	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1
2.5°	1588.6	1587.0	1583.6	1581.1	1581.1	1576.9	1574.4	1572.8	1571.9	1568.6	1568.6
5°	1583.6	1577.8	1571.9	1567.7	1565.2	1561.1	1554.4	1551.0	1546.8	1543.5	1541.8
7.5°	1572.8	1561.9	1552.7	1546.0	1537.6	1531.0	1522.6	1515.1	1507.5	1504.2	1502.5
10°	1556.0	1541.8	1527.6	1515.1	1503.4	1491.7	1480.8	1469.9	1460.7	1454.0	1447.3
12.5°	1540.1	1518.4	1500.0	1481.6	1463.2	1449.0	1434.0	1418.1	1404.7	1392.2	1388.8
15°	1518.4	1493.3	1469.9	1447.3	1424.8	1401.4	1383.0	1365.4	1343.7	1329.4	1318.6
17.5°	1498.3	1468.2	1439.8	1413.1	1385.5	1361.2	1333.6	1310.2	1288.5	1266.7	1250.8
20°	1476.6	1444.0	1413.9	1383.8	1353.7	1322.8	1291.0	1260.9	1234.1	1208.2	1182.3
22.5°	1457.4	1423.9	1394.7	1362.1	1328.6	1293.5	1256.7	1219.1	1188.1	1154.7	1124.6
25°	1445.7	1408.9	1378.8	1347.0	1310.2	1271.8	1229.9	1185.6	1148.0	1109.5	1073.6
27.5°	1445.7	1398.0	1367.1	1335.3	1297.7	1256.7	1210.7	1162.2	1119.6	1076.9	1032.6
30°	1458.2	1399.7	1357.9	1324.4	1286.0	1241.7	1190.6	1139.6	1092.8	1042.7	1000.0
32.5°	1469.9	1403.0	1351.2	1308.5	1264.2	1220.7	1168.9	1114.6	1062.7	1015.1	969.9
35°	1477.4	1403.0	1338.6	1284.3	1234.1	1191.5	1140.5	1086.1	1033.5	986.6	944.8
37.5°	1478.3	1396.3	1318.6	1256.7	1204.0	1159.7	1111.2	1060.2	1010.0	966.6	931.4
40°	1469.9	1383.0	1298.5	1227.4	1172.3	1127.1	1082.8	1036.8	991.6	955.7	925.6
42.5°	1454.9	1368.7	1279.3	1204.0	1146.3	1099.5	1058.5	1019.2	979.9	949.0	923.9
45°	1432.3	1349.5	1261.7	1189.8	1133.0	1083.6	1043.5	1010.9	977.4	951.5	926.4
47.5°	1412.2	1342.8	1267.6	1199.0	1139.6	1088.6	1047.7	1020.1	994.2	976.6	942.3
50°	1408.0	1339.5	1270.1	1206.5	1146.3	1094.5	1058.5	1044.3	1036.8	1025.9	973.3
52.5°	1396.3	1338.6	1288.5	1253.4	1214.9	1190.6	1153.0	1166.4	1158.0	1119.6	1024.3
55°	1519.2	1536.0	1582.8	1649.7	1711.6	1725.8	1721.6	1705.7	1621.3	1394.7	1147.2
57.5°	2088.6	2183.1	2271.8	2311.1	2306.0	2261.7	2230.0	2165.6	2043.5	1767.6	1389.6
60°	2879.6	2894.7	2847.9	2778.5	2661.4	2563.6	2459.1	2338.7	2161.4	1891.3	1538.5
62.5°	3607.9	3405.5	3197.4	3001.7	2823.6	2668.1	2522.6	2354.5	2123.8	1842.0	1519.2
65°	4122.1	3694.0	3365.4	3084.5	2832.8	2615.4	2434.0	2215.7	1955.7	1701.5	1408.0
67.5°	4387.2	3730.8	3226.6	2835.3	2478.3	2177.3	1935.6	1723.3	1530.1	1418.9	1232.5
70°	4091.2	3166.4	2464.1	2021.8	1594.5	1278.4	1010.0	847.8	791.8	897.2	933.1
72.5°	3048.5	2061.1	1465.7	1133.8	868.7	692.3	530.9	417.2	339.5	356.2	462.4
75°	1441.5	889.6	628.8	478.3	380.4	315.2	257.5	235.8	197.3	163.9	153.8
77.5°	561.0	408.9	337.8	247.5	175.6	141.3	120.4	116.2	118.7	115.4	113.7
80°	427.3	289.3	181.4	132.9	114.5	101.2	89.5	86.1	87.8	92.0	96.2
82.5°	238.3	148.8	110.4	96.2	86.1	73.6	66.9	61.9	62.7	67.7	76.9
85°	92.0	71.9	66.1	63.5	59.4	47.7	41.0	41.8	47.7	56.9	56.9
87.5°	10.0	10.0	13.4	10.0	10.0	10.0	9.2	10.9	11.7	15.1	17.6
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°	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1	1581.1
2.5°	1566.9	1566.9	1566.9	1565.2	1566.1	1562.7	1562.7	1560.2	1564.4	1561.9	1561.1
5°	1542.7	1541.8	1538.5	1538.5	1538.5	1538.5	1541.0	1534.3	1539.3	1539.3	1536.8
7.5°	1501.7	1501.7	1492.5	1497.5	1495.8	1498.3	1501.7	1498.3	1503.4	1506.7	1504.2
10°	1444.8	1444.8	1437.3	1443.2	1440.6	1446.5	1452.4	1449.0	1452.4	1457.4	1459.0
12.5°	1382.1	1378.8	1372.1	1374.6	1374.6	1377.9	1380.4	1384.6	1388.8	1395.5	1398.8
15°	1309.4	1304.4	1296.0	1296.0	1291.0	1292.7	1297.7	1299.3	1307.7	1316.9	1327.8
17.5°	1235.0	1222.4	1213.2	1202.4	1194.0	1200.7	1206.5	1210.7	1217.4	1231.6	1239.1
20°	1164.7	1139.6	1122.1	1107.9	1098.7	1102.9	1110.4	1115.4	1121.2	1124.6	1127.1
22.5°	1095.3	1066.9	1042.7	1025.1	1010.0	1014.2	1010.9	1008.4	1012.6	1001.7	1000.8
25°	1035.1	1001.7	969.1	948.2	929.8	923.9	906.4	902.2	890.5	881.3	874.6
27.5°	991.6	948.2	912.2	888.0	858.7	837.0	814.4	791.8	779.3	764.2	756.7
30°	957.4	911.4	868.7	827.8	789.3	755.9	725.8	696.5	676.4	654.7	640.5
32.5°	925.6	883.0	831.1	775.1	723.3	685.6	646.3	612.9	581.1	552.7	531.8
35°	903.9	856.2	790.1	721.6	663.0	618.7	576.9	529.3	490.8	454.0	431.4
37.5°	892.1	833.6	752.5	676.4	611.2	561.0	509.2	454.0	407.2	372.9	338.6
40°	883.0	811.0	719.1	636.3	567.7	507.5	447.3	382.1	330.3	294.3	267.6
42.5°	872.9	786.0	689.8	604.5	528.4	458.2	385.5	316.1	266.7	241.6	229.9
45°	862.0	764.2	662.2	574.4	490.0	404.7	321.1	256.7	227.4	219.1	219.1
47.5°	859.5	750.0	642.1	545.2	446.5	342.8	261.7	221.6	213.2	214.9	218.2
50°	869.6	745.8	624.6	510.9	388.8	277.6	221.6	208.2	209.9	214.9	219.9
52.5°	893.8	749.2	606.2	463.2	320.2	229.1	204.9	204.0	209.0	216.6	221.6
55°	934.8	749.2	571.1	392.1	255.9	205.7	199.0	202.3	209.0	215.7	219.9
57.5°	1022.6	741.6	509.2	313.5	214.0	197.3	197.3	201.5	207.4	214.0	217.4
60°	1127.1	731.6	422.2	242.5	193.1	190.6	196.5	201.5	206.5	212.4	215.7
62.5°	1133.8	705.7	334.5	200.7	182.3	186.5	195.7	202.3	204.0	208.2	212.4
65°	1041.8	615.4	265.9	179.8	177.3	183.9	193.1	198.2	199.0	200.7	204.9
67.5°	912.2	501.7	214.9	169.7	172.2	179.8	184.8	189.0	191.5	195.7	196.5
70°	749.2	403.0	183.9	159.7	162.2	170.6	174.8	178.9	183.9	189.0	186.5
72.5°	530.9	313.5	161.4	148.8	152.2	159.7	164.7	168.1	172.2	177.3	173.9
75°	225.8	219.1	139.6	134.6	139.6	144.7	149.7	154.7	158.9	161.4	161.4
77.5°	115.4	128.8	120.4	120.4	123.7	128.8	132.9	138.0	140.5	143.0	146.3
80°	97.8	99.5	101.2	104.5	107.9	112.9	117.1	121.2	122.1	122.9	124.6
82.5°	81.1	84.4	86.1	91.1	93.6	95.3	97.8	97.8	99.5	99.5	97.0
85°	58.5	62.7	65.2	66.1	65.2	66.1	66.9	68.6	72.7	72.7	69.4
87.5°	16.7	15.9	20.1	20.9	22.6	25.9	29.3	35.1	36.8	38.5	38.5
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°	1581.1	1581.1	1581.1	1581.1
2.5°	1560.2	1561.9	1558.5	1559.4
5°	1536.8	1540.1	1536.0	1541.0
7.5°	1506.7	1511.7	1510.9	1510.0
10°	1463.2	1469.9	1469.9	1472.4
12.5°	1408.0	1412.2	1415.6	1417.2
15°	1333.6	1341.1	1345.3	1345.3
17.5°	1244.2	1249.2	1251.7	1248.3
20°	1130.4	1128.8	1129.6	1121.2
22.5°	999.2	1001.7	994.2	995.8
25°	870.4	866.2	869.6	864.6
27.5°	745.8	746.7	737.5	741.6
30°	627.1	622.9	611.2	617.1
32.5°	512.5	501.7	489.1	481.6
35°	404.7	388.0	382.1	379.6
37.5°	317.7	299.3	293.5	286.8
40°	252.5	245.8	243.3	245.0
42.5°	226.6	226.6	228.3	229.1
45°	219.9	222.4	224.9	225.8
47.5°	220.7	223.2	226.6	227.4
50°	222.4	224.9	227.4	228.3
52.5°	223.2	223.2	224.9	225.8
55°	221.6	220.7	221.6	222.4
57.5°	218.2	216.6	217.4	219.9
60°	216.6	214.0	215.7	217.4
62.5°	212.4	211.5	213.2	214.0
65°	203.2	204.0	206.5	206.5
67.5°	194.8	195.7	196.5	197.3
70°	184.8	185.6	187.3	188.1
72.5°	173.1	176.4	178.9	182.3
75°	163.9	167.2	172.2	175.6
77.5°	148.0	150.5	156.4	160.5
80°	125.4	124.6	125.4	127.9
82.5°	96.2	96.2	95.3	94.5
85°	67.7	66.9	64.4	64.4
87.5°	36.8	36.0	35.1	33.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)