

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: P180343

Luminaire Tested: **ICS-F03-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180343
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F03-LED-E1-RW
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6963.4 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

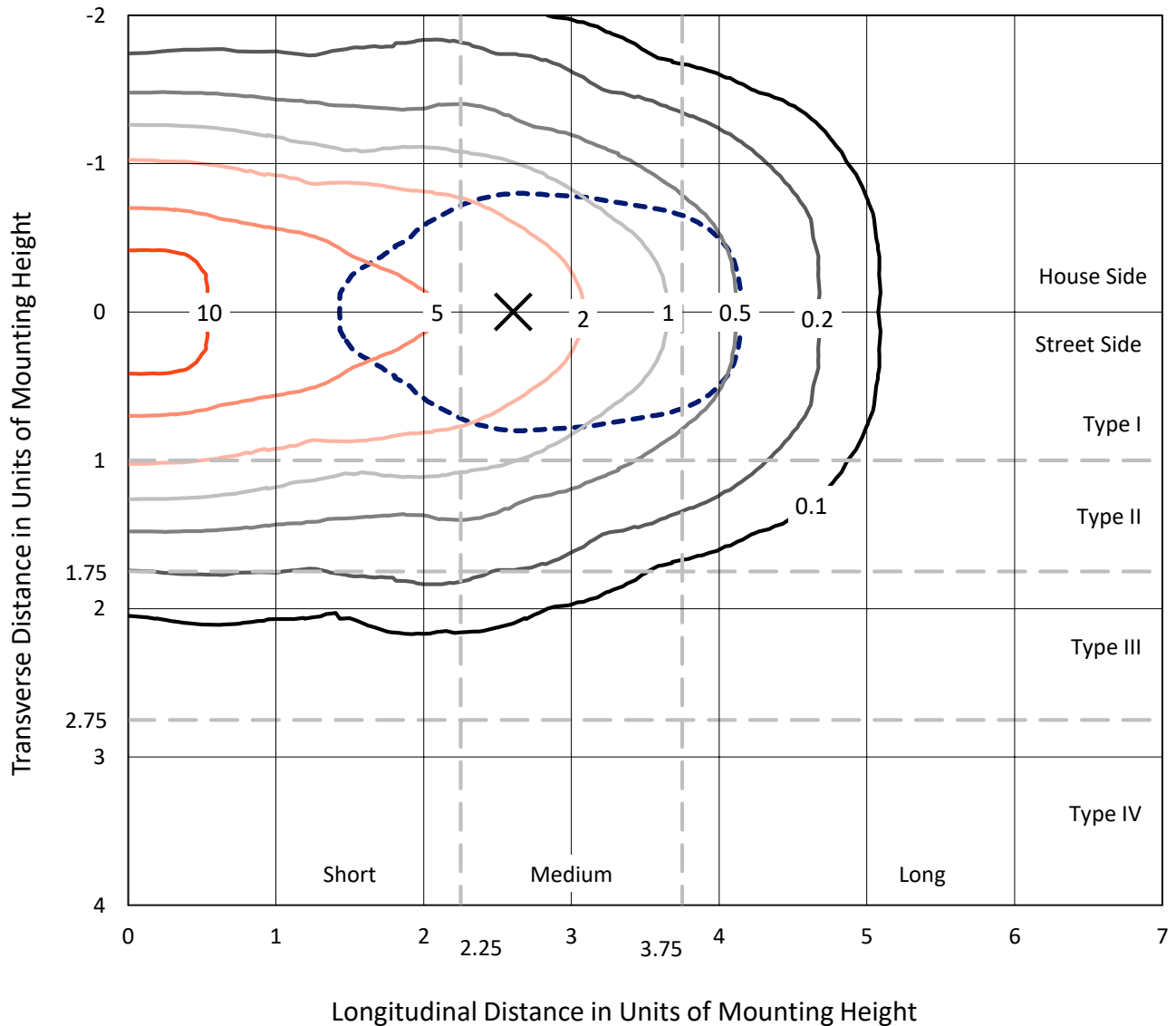
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

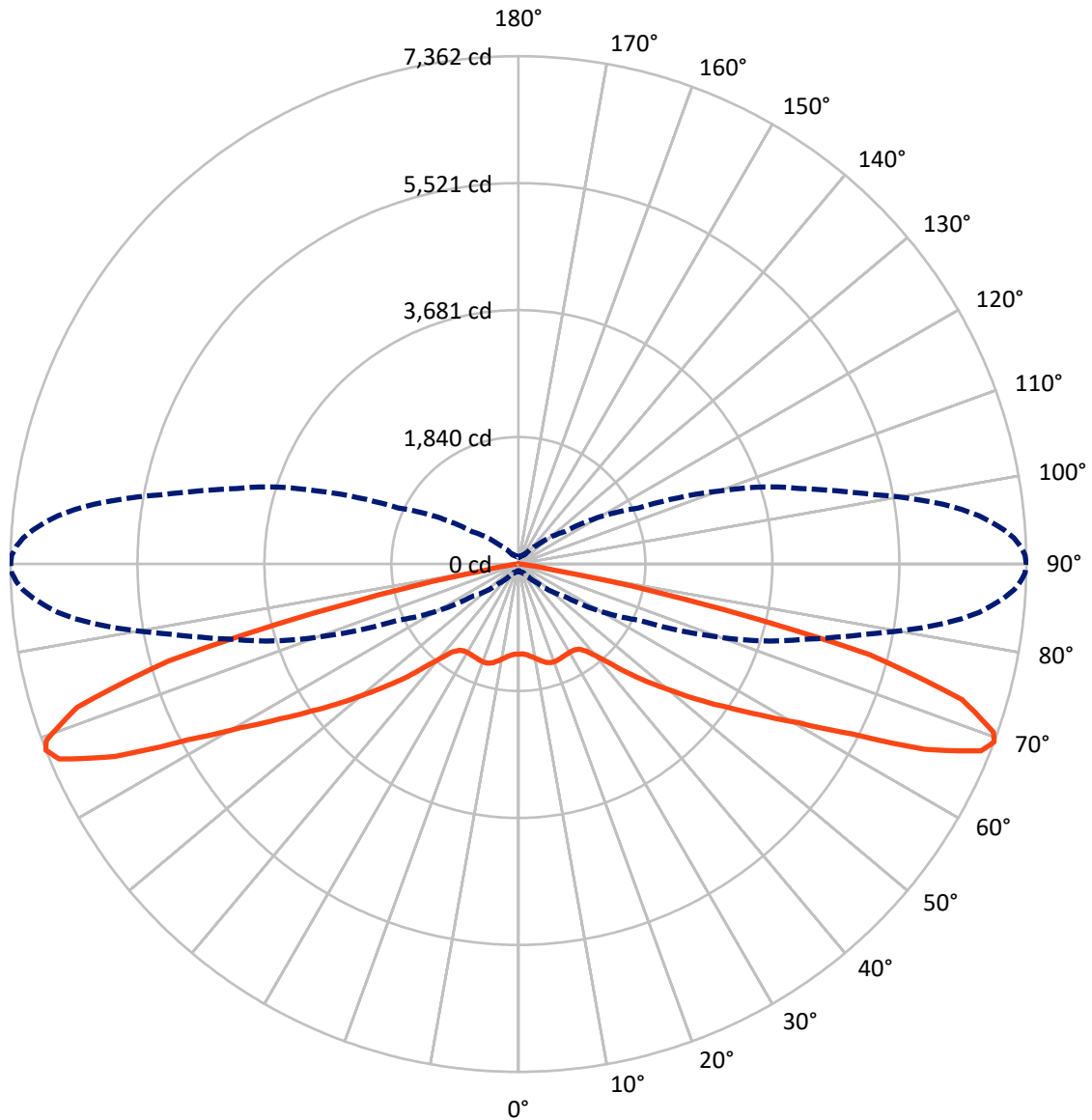
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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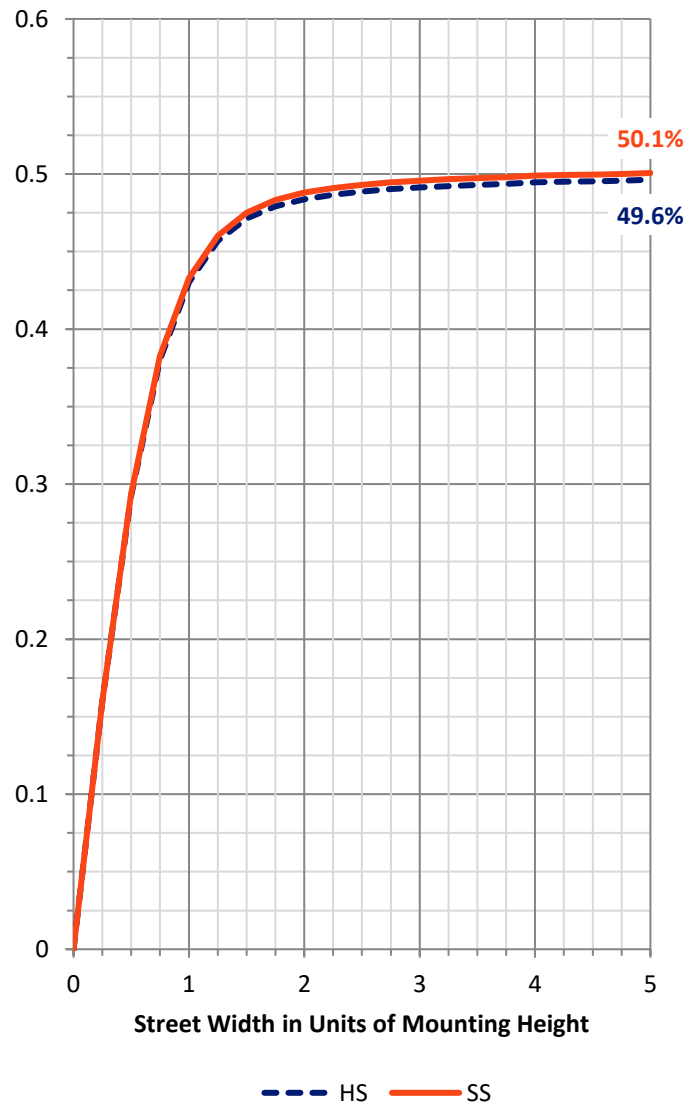
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3481.7	0.0	3481.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3481.7	0.0	3481.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	6963.4	0.0	6963.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.8
10°-20°	403.7	5.8
20°-30°	654.1	9.4
30°-40°	815.1	11.7
40°-50°	1018.6	14.6
50°-60°	1257.8	18.1
60°-70°	1562.9	22.4
70°-80°	1037.5	14.9
80°-90°	85.7	1.2
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°	6963.4	100.0
0°-180°	6963.4	100.0



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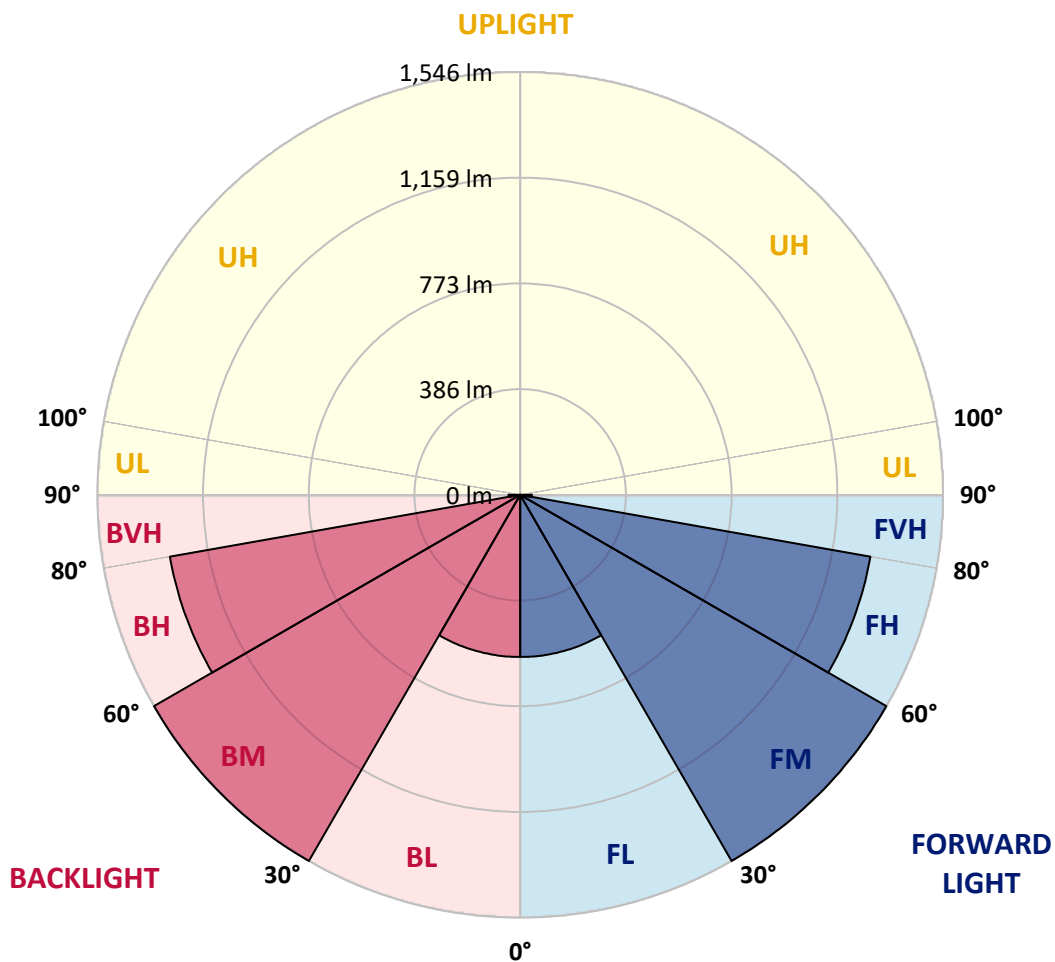
CATALOG NUMBER: ICS-F03-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.9	8.5			
FM (30°-60°)	1545.8	22.2			
FH (60°-80°)	1300.2	18.7			G1/1800
FVH (80°-90°)	42.8	0.6			G1/100
BL (0°-30°)	592.9	8.5	B2/1000		
BM (30°-60°)	1545.8	22.2	B2/2500		
BH (60°-80°)	1300.2	18.7	B3/2500		G3/2500
BVH (80°-90°)	42.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7
2.5°	1310.7	1311.8	1311.0	1312.6	1312.2	1312.2	1311.4	1309.9	1309.0	1308.4	1308.5
5°	1323.3	1321.8	1324.0	1326.3	1325.6	1325.9	1325.5	1325.6	1324.8	1324.7	1324.6
7.5°	1336.7	1336.3	1337.8	1343.8	1344.5	1346.7	1349.3	1351.2	1351.5	1351.9	1351.6
10°	1348.2	1348.6	1352.2	1360.8	1365.2	1372.4	1379.4	1385.0	1387.0	1388.3	1388.1
12.5°	1357.5	1357.8	1363.4	1376.8	1387.6	1400.9	1416.2	1424.8	1428.4	1429.1	1429.8
15°	1358.2	1359.4	1369.0	1390.9	1412.4	1434.4	1452.6	1464.1	1467.1	1469.1	1469.2
17.5°	1348.6	1349.3	1365.6	1397.9	1434.0	1468.2	1487.1	1492.4	1493.4	1494.2	1493.8
20°	1323.3	1325.2	1348.2	1396.2	1451.1	1495.6	1515.4	1508.3	1504.8	1504.4	1504.0
22.5°	1282.4	1282.0	1312.2	1376.8	1454.4	1517.2	1534.7	1516.1	1505.2	1502.9	1501.4
25°	1216.4	1220.8	1256.1	1333.4	1435.5	1522.0	1548.4	1520.2	1504.4	1500.9	1496.6
27.5°	1144.6	1147.2	1184.8	1267.6	1391.3	1505.4	1555.1	1528.4	1510.7	1505.8	1500.9
30°	1061.0	1064.4	1104.4	1191.0	1320.4	1462.2	1553.2	1547.0	1526.3	1520.4	1514.2
32.5°	979.3	983.0	1019.0	1113.8	1245.6	1403.2	1542.1	1573.4	1552.1	1545.6	1539.1
35°	894.6	900.2	944.0	1039.8	1173.6	1337.4	1525.0	1607.1	1595.4	1589.7	1583.9
37.5°	824.4	825.5	867.8	968.5	1106.7	1274.6	1502.4	1649.8	1658.4	1658.4	1659.1
40°	746.0	753.0	795.4	901.6	1046.2	1221.6	1480.8	1707.8	1752.2	1760.4	1766.6
42.5°	675.8	676.5	719.6	829.2	980.4	1178.8	1468.9	1777.7	1872.6	1889.9	1907.2
45°	601.8	604.8	643.8	749.7	904.6	1128.2	1468.6	1858.3	2009.8	2039.0	2065.9
47.5°	532.0	533.1	574.4	672.8	817.7	1057.7	1466.0	1944.8	2151.2	2194.2	2229.2
50°	465.1	464.0	504.6	599.2	731.8	965.2	1443.3	2043.0	2303.5	2352.4	2395.7
52.5°	388.6	393.8	435.8	526.4	653.8	871.2	1377.2	2150.3	2462.0	2518.5	2572.8
55°	313.6	315.8	360.8	445.4	574.8	783.5	1262.0	2249.1	2616.5	2680.6	2741.1
57.5°	231.1	237.8	277.2	360.8	494.4	709.6	1115.6	2300.4	2747.5	2821.4	2893.2
60°	163.1	168.3	203.2	273.4	406.5	631.9	989.7	2271.8	2852.8	2947.2	3033.5
62.5°	127.0	131.1	159.0	204.7	316.9	554.3	899.4	2179.2	2969.9	3093.0	3210.6
65°	111.5	115.2	140.4	163.8	236.6	475.2	850.0	2081.6	3126.6	3308.1	3472.0
67.5°	100.6	105.2	127.1	143.4	192.8	414.6	837.0	2019.8	3203.5	3439.8	3660.8
69°	95.8	100.3	120.0	133.8	179.1	393.0	814.7	1923.0	3099.6	3352.2	3593.7
70°	92.8	96.6	114.8	128.9	174.6	378.2	777.6	1801.8	2957.4	3212.3	3464.7
72.5°	86.2	88.1	104.0	117.8	162.0	305.8	598.1	1338.2	2339.9	2588.6	2833.5
75°	76.2	78.4	93.2	106.6	126.3	189.8	378.6	827.7	1575.5	1760.8	1988.0
77.5°	65.8	67.6	80.6	101.8	98.1	118.5	226.2	460.7	894.4	1002.0	1149.8
80°	52.8	55.0	66.5	101.1	81.0	92.1	162.8	322.1	439.1	471.2	506.7
82.5°	38.7	40.5	52.0	81.8	62.0	69.4	124.1	273.0	313.8	328.3	335.4
85°	19.6	20.0	33.1	49.8	39.3	36.0	69.8	186.9	212.9	216.5	222.0
87.5°	3.4	3.4	7.4	8.6	9.6	5.9	8.9	31.9	37.0	36.7	39.8
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7
2.5°	1309.0	1308.7	1309.2	1309.3	1309.7	1308.3	1308.0	1307.7	1307.7	1308.4	1307.7
5°	1324.9	1324.9	1325.2	1325.7	1325.6	1324.7	1324.6	1324.8	1323.7	1323.3	1324.0
7.5°	1352.3	1351.9	1351.2	1352.4	1353.2	1353.3	1354.1	1353.4	1353.1	1352.7	1353.4
10°	1389.4	1389.2	1389.4	1390.7	1391.6	1391.8	1392.6	1391.6	1391.3	1392.0	1392.1
12.5°	1431.2	1430.4	1432.2	1432.9	1434.0	1436.3	1435.2	1436.6	1435.5	1437.4	1437.4
15°	1470.5	1471.0	1472.6	1473.3	1473.6	1475.4	1475.7	1476.7	1475.2	1475.6	1478.6
17.5°	1494.9	1494.6	1495.7	1496.3	1497.2	1498.2	1499.9	1500.9	1500.2	1500.2	1501.6
20°	1503.2	1502.0	1502.4	1502.9	1503.0	1503.9	1505.2	1505.4	1505.4	1505.7	1507.2
22.5°	1499.1	1497.2	1495.3	1495.5	1495.6	1495.4	1496.3	1496.8	1497.6	1498.3	1500.1
25°	1493.5	1489.2	1485.6	1485.4	1484.3	1484.4	1484.9	1484.9	1485.6	1486.8	1488.2
27.5°	1494.1	1488.4	1482.7	1480.7	1478.7	1477.4	1476.9	1476.0	1476.8	1477.8	1479.4
30°	1506.8	1497.9	1489.8	1487.2	1484.3	1481.8	1479.6	1477.1	1475.6	1476.7	1477.5
32.5°	1529.2	1520.4	1512.4	1508.4	1504.2	1499.8	1495.7	1493.0	1489.8	1488.6	1488.3
35°	1576.7	1569.8	1562.6	1558.0	1551.1	1547.6	1542.6	1535.4	1530.2	1529.8	1526.9
37.5°	1656.9	1653.6	1648.4	1643.6	1641.3	1632.0	1626.1	1622.4	1616.4	1620.2	1613.9
40°	1772.2	1777.7	1782.5	1779.7	1780.6	1778.1	1774.5	1778.0	1774.0	1772.8	1774.0
42.5°	1919.8	1939.4	1953.0	1957.3	1968.3	1972.6	1980.7	1993.2	1990.5	2004.6	2007.2
45°	2090.9	2119.0	2146.2	2166.5	2188.6	2213.7	2238.8	2258.8	2274.4	2273.6	2290.8
47.5°	2265.4	2306.9	2343.1	2373.6	2413.5	2450.3	2490.9	2531.8	2561.6	2572.7	2576.4
50°	2442.3	2490.0	2539.6	2584.5	2638.3	2697.3	2761.1	2825.0	2856.9	2882.9	2900.4
52.5°	2627.5	2682.2	2735.0	2798.4	2864.8	2942.6	3022.4	3113.2	3161.5	3210.6	3236.6
55°	2803.7	2864.8	2919.3	3004.1	3085.5	3178.4	3282.6	3397.4	3481.0	3538.6	3589.5
57.5°	2963.8	3028.8	3095.8	3191.4	3295.2	3403.8	3535.8	3675.3	3766.4	3866.6	3956.9
60°	3120.2	3201.9	3278.9	3403.9	3527.4	3662.4	3826.7	4003.3	4144.2	4280.5	4384.5
62.5°	3327.5	3432.5	3528.2	3685.4	3846.7	4013.6	4209.1	4418.0	4622.3	4807.3	4947.4
65°	3633.8	3788.1	3931.2	4130.5	4334.1	4553.8	4787.2	5054.0	5299.2	5544.0	5744.6
67.5°	3866.3	4061.7	4245.5	4486.4	4726.1	4980.7	5262.7	5577.8	5881.3	6157.4	6401.8
69°	3820.6	4027.9	4227.0	4472.8	4722.0	4982.0	5266.5	5601.6	5917.0	6216.8	6479.0
70°	3681.7	3897.7	4104.0	4348.0	4600.4	4861.1	5158.9	5487.9	5810.7	6130.2	6395.1
72.5°	3051.3	3268.0	3468.4	3718.0	3972.2	4245.9	4527.9	4848.6	5193.2	5534.7	5766.9
75°	2187.7	2379.3	2573.4	2784.5	3032.5	3258.2	3516.2	3822.0	4111.8	4376.8	4554.3
77.5°	1293.1	1407.8	1546.2	1645.5	1789.5	1913.7	2045.0	2214.9	2304.0	2475.0	2518.9
80°	526.9	523.7	544.2	523.9	528.4	511.8	494.0	490.8	462.9	497.8	471.8
82.5°	334.6	311.3	286.4	252.0	221.6	189.7	160.4	136.0	131.5	132.3	130.8
85°	220.5	210.3	188.0	158.1	128.9	103.4	82.7	65.4	64.6	63.5	63.1
87.5°	39.9	37.0	30.4	26.0	21.9	16.3	11.5	8.6	8.2	8.2	9.7
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):

	84°	85°	86°	87°	88°	89°	90°
0°	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7
2.5°	1307.7	1307.7	1307.3	1308.1	1307.7	1306.6	1305.5
5°	1324.8	1323.3	1324.4	1325.5	1323.6	1324.0	1323.3
7.5°	1353.4	1353.0	1353.4	1352.2	1351.6	1352.6	1353.8
10°	1393.5	1392.8	1392.4	1393.6	1392.8	1392.0	1392.4
12.5°	1438.5	1438.5	1438.1	1438.4	1438.1	1437.0	1436.2
15°	1478.2	1479.0	1479.0	1478.2	1477.9	1477.4	1477.9
17.5°	1502.8	1502.4	1502.4	1502.4	1502.0	1502.4	1503.1
20°	1509.1	1507.9	1507.9	1508.6	1508.0	1508.7	1509.1
22.5°	1500.5	1500.5	1500.6	1500.9	1501.6	1501.6	1502.4
25°	1489.8	1489.7	1489.8	1490.4	1490.5	1490.8	1491.2
27.5°	1481.2	1481.2	1481.2	1481.9	1482.0	1482.3	1483.1
30°	1478.6	1478.6	1478.2	1478.6	1479.0	1478.9	1479.3
32.5°	1488.6	1487.5	1487.2	1486.4	1485.6	1485.6	1485.3
35°	1523.9	1520.9	1521.3	1519.0	1519.8	1518.0	1516.5
37.5°	1609.7	1606.8	1603.4	1598.9	1596.4	1599.7	1599.7
40°	1770.2	1772.1	1763.9	1761.7	1756.8	1760.2	1764.7
42.5°	2008.8	2011.0	2012.4	2000.2	1999.8	1997.2	1989.8
45°	2291.4	2286.2	2288.5	2282.9	2280.7	2272.5	2282.5
47.5°	2590.5	2593.9	2580.5	2576.0	2583.8	2570.4	2572.3
50°	2910.4	2911.2	2901.1	2898.8	2906.0	2880.6	2892.5
52.5°	3255.1	3256.6	3264.4	3255.1	3258.8	3252.9	3264.8
55°	3621.8	3649.6	3652.2	3662.3	3663.0	3675.4	3663.1
57.5°	4007.0	4038.6	4068.4	4108.8	4117.8	4113.0	4120.7
60°	4471.1	4553.9	4598.6	4662.0	4672.0	4699.6	4675.8
62.5°	5078.8	5207.8	5305.1	5354.2	5383.8	5441.5	5422.5
65°	5928.8	6082.3	6230.2	6300.8	6378.8	6460.5	6475.4
67.5°	6625.1	6795.6	6949.4	7071.6	7166.8	7227.0	7231.7
69°	6712.0	6893.3	7055.3	7191.2	7283.8	7345.4	7361.8
70°	6633.6	6819.0	6990.6	7120.3	7223.6	7286.4	7308.3
72.5°	6010.6	6231.3	6368.8	6501.0	6646.6	6665.6	6725.8
75°	4757.9	4955.9	5090.8	5125.7	5201.8	5297.7	5263.5
77.5°	2481.6	2567.9	2596.4	2535.5	2532.6	2588.6	2477.2
80°	472.6	473.3	465.5	462.6	468.1	462.5	454.7
82.5°	133.4	131.5	130.4	133.4	133.0	132.6	135.2
85°	61.6	59.8	56.8	56.8	58.4	56.1	57.2
87.5°	8.6	7.0	7.0	7.0	6.6	6.6	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)