

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: P180273

Luminaire Tested: **ICM-F02-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180273
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: ICM-F02-LED-E1-RW
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4798 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

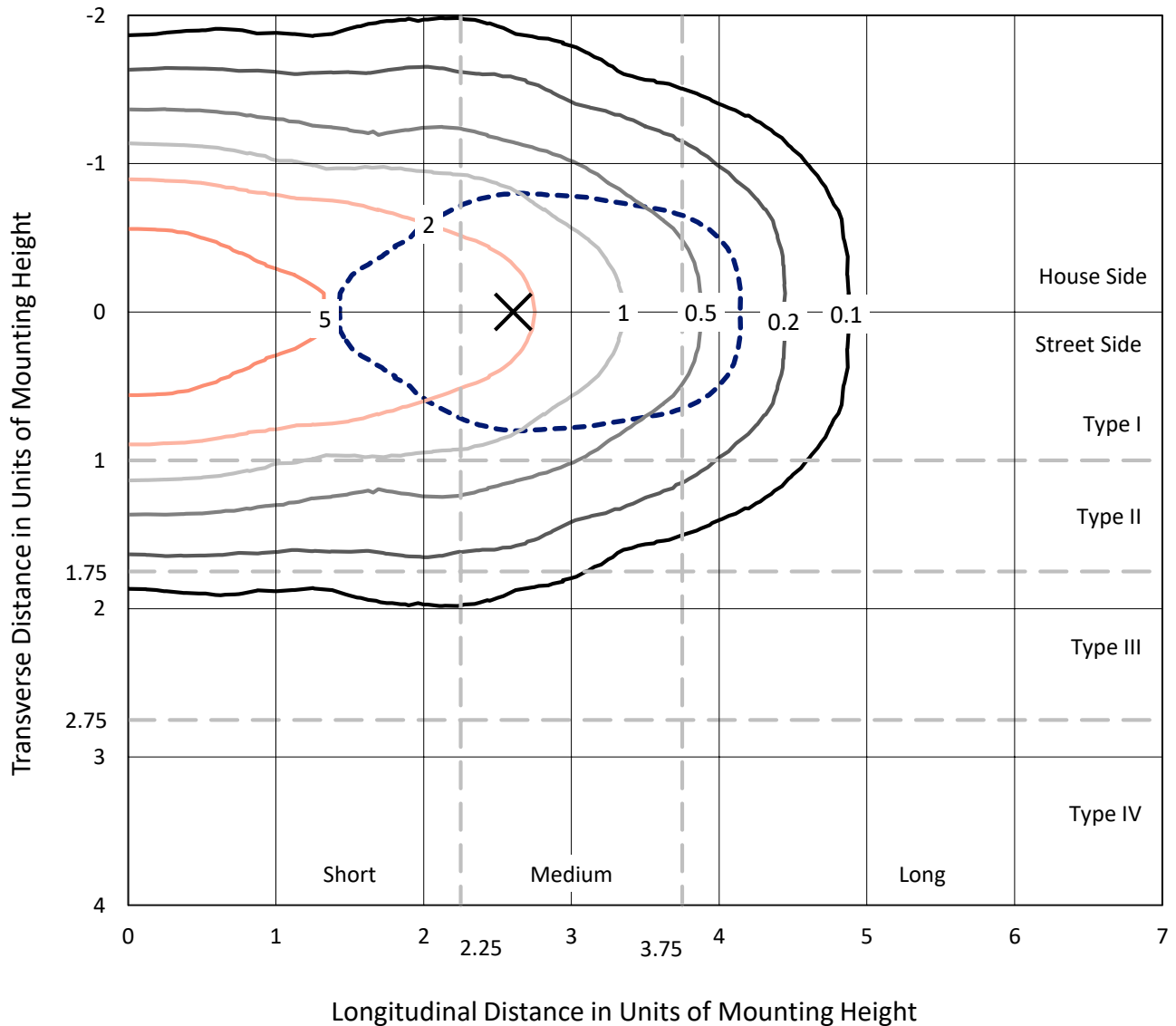
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

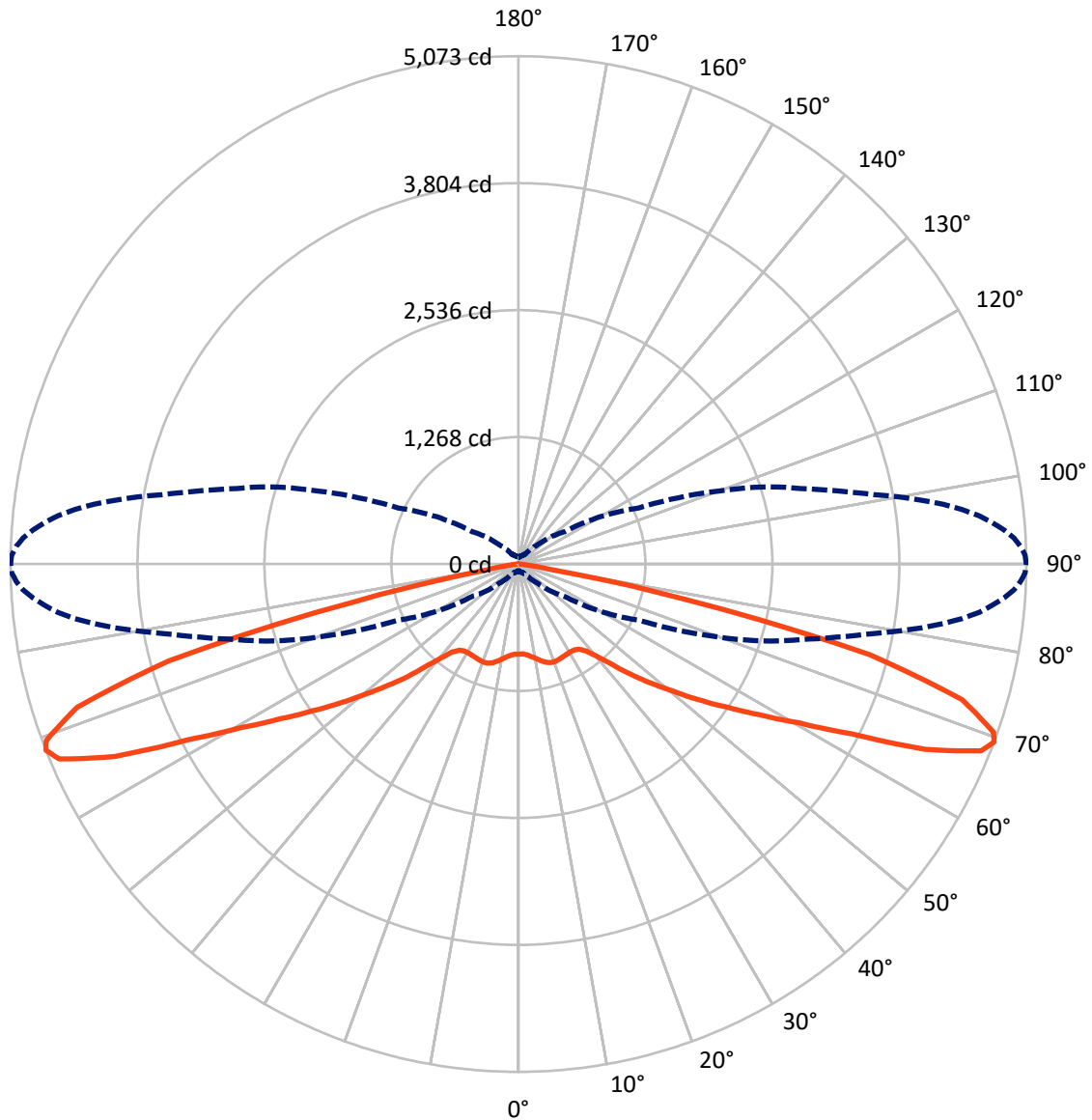
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 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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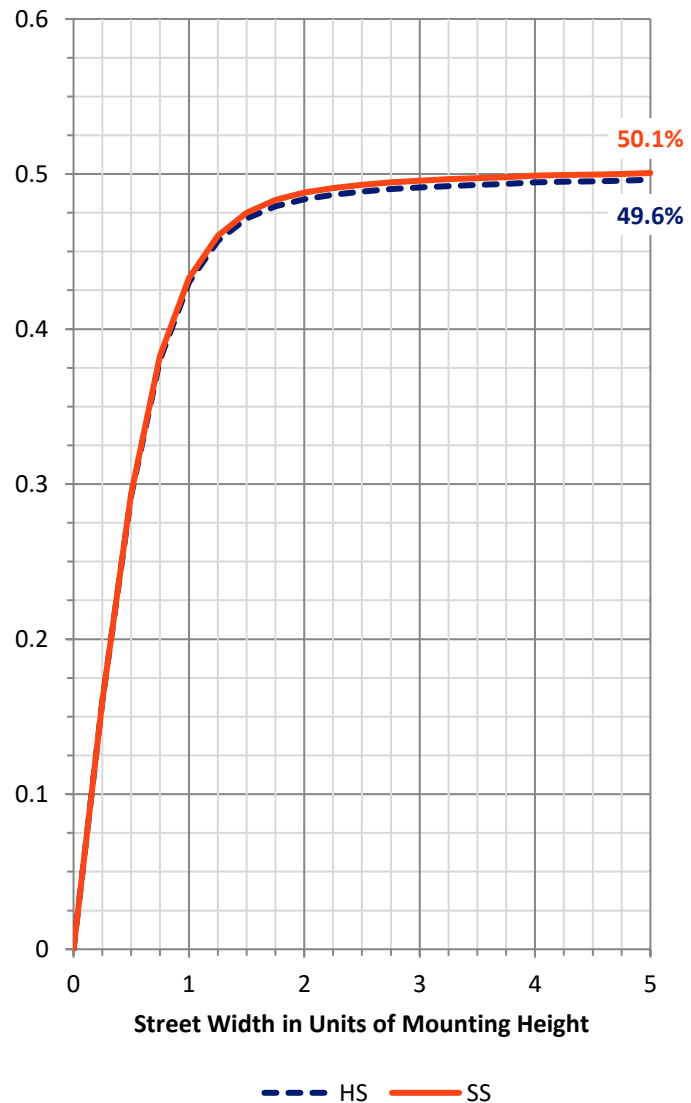
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2399.0	0.0	2399.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2399.0	0.0	2399.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4798.0	0.0	4798.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.8
10°-20°	278.2	5.8
20°-30°	450.7	9.4
30°-40°	561.7	11.7
40°-50°	701.9	14.6
50°-60°	866.6	18.1
60°-70°	1076.9	22.4
70°-80°	714.9	14.9
80°-90°	59.0	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°	4798.0	100.0
0°-180°	4798.0	100.0



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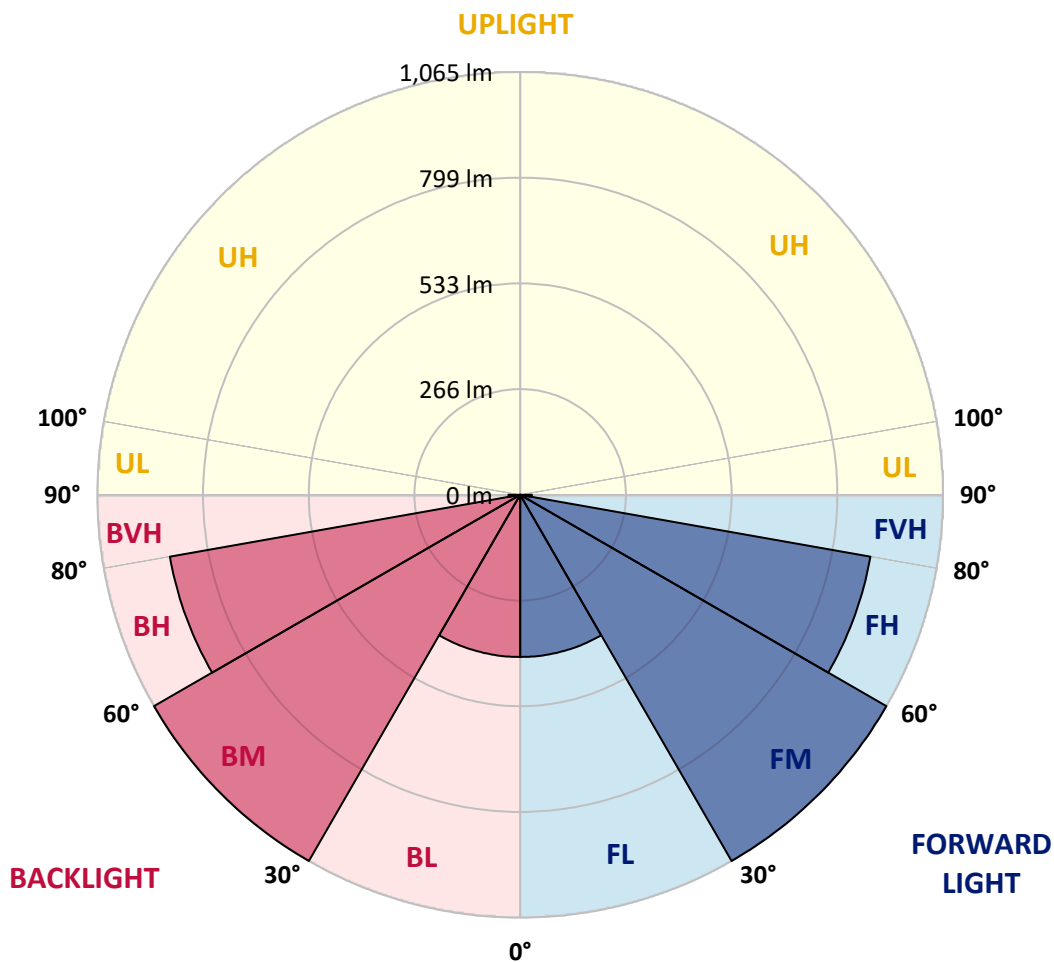
CATALOG NUMBER: ICM-F02-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.5	8.5			
FM	(30°-60°)	1065.1	22.2			
FH	(60°-80°)	895.9	18.7			G1/1800
FVH	(80°-90°)	29.5	0.6			G1/100
BL	(0°-30°)	408.5	8.5	B1/500		
BM	(30°-60°)	1065.1	22.2	B2/2500		
BH	(60°-80°)	895.9	18.7	B2/1000		G2/1000
BVH	(80°-90°)	29.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0
2.5°	903.1	903.8	903.4	904.4	904.2	904.1	903.6	902.5	902.0	901.5	901.6
5°	911.8	910.7	912.4	913.9	913.3	913.6	913.3	913.3	912.7	912.7	912.7
7.5°	920.9	920.7	921.8	926.0	926.3	927.9	929.7	931.0	931.3	931.5	931.3
10°	928.9	929.2	931.7	937.7	940.7	945.6	950.5	954.2	955.7	956.6	956.5
12.5°	935.4	935.6	939.4	948.7	956.1	965.3	975.8	981.7	984.3	984.8	985.2
15°	935.8	936.7	943.3	958.3	973.2	988.3	1000.8	1008.8	1010.8	1012.3	1012.4
17.5°	929.2	929.7	941.0	963.3	988.1	1011.6	1024.7	1028.3	1029.0	1029.6	1029.3
20°	911.8	913.1	928.9	962.0	999.8	1030.5	1044.1	1039.3	1036.8	1036.6	1036.3
22.5°	883.6	883.4	904.1	948.7	1002.1	1045.4	1057.5	1044.7	1037.1	1035.5	1034.5
25°	838.1	841.1	865.5	918.7	989.0	1048.8	1066.9	1047.4	1036.6	1034.1	1031.3
27.5°	788.7	790.5	816.4	873.4	958.7	1037.2	1071.4	1053.1	1040.9	1037.5	1034.1
30°	731.1	733.4	761.0	820.7	909.8	1007.5	1070.2	1065.9	1051.7	1047.6	1043.3
32.5°	674.8	677.3	702.1	767.4	858.3	966.8	1062.5	1084.1	1069.5	1064.9	1060.5
35°	616.4	620.3	650.4	716.5	808.7	921.5	1050.8	1107.4	1099.4	1095.4	1091.4
37.5°	568.1	568.7	598.0	667.4	762.6	878.2	1035.2	1136.8	1142.7	1142.7	1143.2
40°	514.0	518.9	548.1	621.2	720.8	841.7	1020.3	1176.8	1207.3	1212.9	1217.2
42.5°	465.7	466.1	495.8	571.4	675.5	812.3	1012.2	1224.8	1290.2	1302.2	1314.1
45°	414.7	416.7	443.6	516.6	623.3	777.5	1011.9	1280.4	1384.8	1404.9	1423.5
47.5°	366.5	367.4	395.7	463.6	563.4	728.7	1010.1	1340.0	1482.2	1511.8	1536.0
50°	320.6	319.7	347.6	412.8	504.3	665.0	994.4	1407.6	1587.2	1620.8	1650.7
52.5°	267.7	271.4	300.3	362.8	450.5	600.3	948.8	1481.6	1696.4	1735.4	1772.8
55°	216.0	217.6	248.6	306.9	396.0	539.8	869.6	1549.8	1802.9	1847.1	1888.7
57.5°	159.2	163.8	191.0	248.6	340.7	488.9	768.7	1584.9	1893.0	1944.0	1993.5
60°	112.4	115.9	140.1	188.5	280.0	435.4	681.9	1565.3	1965.6	2030.7	2090.2
62.5°	87.6	90.4	109.6	141.0	218.3	382.0	619.7	1501.6	2046.3	2131.2	2212.2
65°	76.8	79.4	96.7	112.9	163.1	327.4	585.7	1434.2	2154.3	2279.4	2392.3
67.5°	69.4	72.4	87.5	98.8	132.8	285.7	576.7	1391.7	2207.3	2370.2	2522.4
69°	66.0	69.0	82.7	92.2	123.3	270.9	561.3	1324.9	2135.7	2309.8	2476.2
70°	64.0	66.6	79.1	88.8	120.3	260.7	535.8	1241.5	2037.7	2213.4	2387.3
72.5°	59.3	60.7	71.7	81.1	111.6	210.6	412.1	922.1	1612.3	1783.6	1952.4
75°	52.5	54.0	64.2	73.5	87.1	130.8	260.8	570.3	1085.6	1213.3	1369.8
77.5°	45.3	46.6	55.5	70.1	67.5	81.7	155.9	317.4	616.3	690.4	792.2
80°	36.3	37.9	45.8	69.6	55.8	63.4	112.2	222.0	302.5	324.7	349.1
82.5°	26.6	27.9	35.8	56.3	42.8	47.8	85.6	188.1	216.2	226.1	231.1
85°	13.6	13.9	22.8	34.3	27.2	24.8	48.2	128.7	146.6	149.2	152.9
87.5°	2.3	2.3	5.1	6.0	6.7	4.1	6.1	22.0	25.5	25.3	27.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0
2.5°	902.0	901.8	902.1	902.1	902.4	901.4	901.2	901.0	901.0	901.6	901.0
5°	912.9	912.8	913.1	913.5	913.4	912.7	912.7	912.8	912.0	911.8	912.4
7.5°	931.7	931.5	931.0	931.8	932.4	932.4	933.0	932.5	932.3	932.0	932.5
10°	957.4	957.2	957.4	958.2	958.9	959.0	959.6	958.9	958.7	959.2	959.2
12.5°	986.1	985.6	986.8	987.4	988.1	989.6	988.8	989.9	989.0	990.3	990.3
15°	1013.2	1013.6	1014.7	1015.2	1015.4	1016.6	1016.8	1017.5	1016.5	1016.8	1018.8
17.5°	1030.1	1029.9	1030.5	1031.0	1031.6	1032.4	1033.5	1034.2	1033.7	1033.7	1034.7
20°	1035.7	1035.0	1035.2	1035.5	1035.6	1036.3	1037.1	1037.2	1037.2	1037.5	1038.5
22.5°	1032.9	1031.6	1030.3	1030.4	1030.5	1030.3	1031.0	1031.4	1031.8	1032.4	1033.7
25°	1029.0	1026.1	1023.6	1023.4	1022.8	1022.8	1023.1	1023.1	1023.6	1024.4	1025.5
27.5°	1029.5	1025.6	1021.6	1020.3	1018.9	1018.0	1017.6	1016.9	1017.5	1018.2	1019.4
30°	1038.1	1032.1	1026.4	1024.8	1022.8	1021.0	1019.5	1017.8	1016.7	1017.5	1018.1
32.5°	1053.7	1047.6	1042.1	1039.3	1036.5	1033.4	1030.6	1028.8	1026.4	1025.7	1025.5
35°	1086.3	1081.6	1076.7	1073.5	1068.8	1066.3	1063.0	1058.0	1054.3	1054.1	1052.1
37.5°	1141.7	1139.4	1135.7	1132.5	1130.9	1124.5	1120.4	1117.9	1113.8	1116.3	1112.0
40°	1221.1	1224.8	1228.2	1226.2	1226.9	1225.1	1222.7	1225.1	1222.3	1221.5	1222.3
42.5°	1322.8	1336.3	1345.7	1348.7	1356.2	1359.2	1364.7	1373.3	1371.5	1381.2	1383.1
45°	1440.7	1460.0	1478.8	1492.8	1508.0	1525.3	1542.6	1556.3	1567.1	1566.6	1578.3
47.5°	1560.9	1589.5	1614.5	1635.5	1663.0	1688.3	1716.3	1744.6	1764.9	1772.7	1775.3
50°	1682.8	1715.7	1749.9	1780.8	1817.9	1858.5	1902.5	1946.4	1968.4	1986.4	1998.4
52.5°	1810.4	1848.1	1884.5	1928.2	1973.9	2027.5	2082.5	2145.1	2178.4	2212.2	2230.2
55°	1931.8	1974.0	2011.5	2069.9	2126.0	2190.1	2261.8	2340.9	2398.5	2438.2	2473.3
57.5°	2042.2	2087.0	2133.0	2199.0	2270.4	2345.3	2436.3	2532.4	2595.2	2664.2	2726.4
60°	2149.8	2206.2	2259.3	2345.3	2430.4	2523.5	2636.7	2758.3	2855.5	2949.4	3021.0
62.5°	2292.8	2365.1	2431.1	2539.4	2650.5	2765.5	2900.2	3044.1	3184.9	3312.4	3408.9
65°	2503.8	2610.2	2708.8	2846.0	2986.3	3137.7	3298.5	3482.3	3651.3	3819.9	3958.2
67.5°	2664.0	2798.6	2925.3	3091.2	3256.4	3431.8	3626.2	3843.3	4052.4	4242.6	4411.0
69°	2632.6	2775.4	2912.6	3081.9	3253.6	3432.8	3628.9	3859.7	4077.0	4283.6	4464.2
70°	2536.9	2685.6	2827.8	2995.8	3169.9	3349.4	3554.6	3781.3	4003.7	4223.8	4406.4
72.5°	2102.4	2251.7	2389.8	2561.8	2736.9	2925.6	3119.8	3340.8	3578.3	3813.6	3973.5
75°	1507.5	1639.5	1773.2	1918.7	2089.5	2245.0	2422.7	2633.5	2833.1	3015.6	3138.1
77.5°	891.0	970.0	1065.4	1133.8	1233.0	1318.6	1409.0	1526.1	1587.5	1705.3	1735.5
80°	363.0	360.8	375.0	360.9	364.1	352.7	340.4	338.1	319.0	343.0	325.1
82.5°	230.6	214.4	197.4	173.6	152.7	130.7	110.5	93.7	90.6	91.1	90.1
85°	151.9	144.9	129.5	108.9	88.7	71.2	57.0	45.0	44.6	43.7	43.5
87.5°	27.4	25.5	21.0	17.9	15.1	11.3	8.0	6.0	5.7	5.6	6.7
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°	899.0	899.0	899.0	899.0	899.0	899.0	899.0
2.5°	901.0	901.0	900.8	901.3	901.0	900.3	899.5
5°	912.8	911.8	912.6	913.3	912.0	912.3	911.8
7.5°	932.5	932.3	932.5	931.7	931.3	932.0	932.7
10°	960.2	959.6	959.4	960.2	959.6	959.2	959.4
12.5°	991.1	991.1	990.9	991.2	990.9	990.1	989.6
15°	1018.5	1019.0	1019.0	1018.5	1018.2	1018.1	1018.2
17.5°	1035.4	1035.2	1035.2	1035.2	1035.0	1035.2	1035.7
20°	1039.8	1039.1	1039.1	1039.5	1039.0	1039.5	1039.8
22.5°	1033.9	1033.9	1033.9	1034.2	1034.6	1034.6	1035.2
25°	1026.4	1026.4	1026.4	1027.0	1027.0	1027.3	1027.5
27.5°	1020.6	1020.7	1020.7	1021.0	1021.1	1021.3	1021.9
30°	1018.8	1018.8	1018.5	1018.8	1019.1	1019.0	1019.3
32.5°	1025.7	1024.9	1024.7	1024.2	1023.6	1023.6	1023.4
35°	1050.1	1048.0	1048.2	1046.7	1047.3	1046.0	1044.9
37.5°	1109.2	1107.1	1104.8	1101.8	1099.9	1102.2	1102.2
40°	1219.7	1221.0	1215.4	1213.8	1210.5	1212.8	1215.9
42.5°	1384.0	1385.6	1386.6	1378.2	1377.9	1376.1	1371.0
45°	1578.9	1575.3	1576.8	1573.0	1571.5	1565.8	1572.8
47.5°	1784.9	1787.3	1778.1	1775.0	1780.3	1771.1	1772.4
50°	2005.3	2005.9	1999.0	1997.4	2002.2	1984.8	1993.0
52.5°	2242.9	2243.9	2249.3	2242.8	2245.5	2241.3	2249.5
55°	2495.6	2514.7	2516.5	2523.5	2523.9	2532.4	2523.9
57.5°	2760.9	2782.7	2803.3	2831.2	2837.2	2833.9	2839.3
60°	3080.8	3137.8	3168.5	3212.3	3219.2	3238.2	3221.8
62.5°	3499.5	3588.3	3655.4	3689.1	3709.6	3749.2	3736.3
65°	4085.1	4190.9	4292.7	4341.4	4395.2	4451.5	4461.7
67.5°	4564.9	4682.4	4788.3	4872.6	4938.1	4979.6	4982.9
69°	4624.8	4749.6	4861.2	4955.0	5018.7	5061.2	5072.5
70°	4570.7	4698.4	4816.8	4906.1	4977.2	5020.5	5035.6
72.5°	4141.4	4293.5	4388.2	4479.4	4579.7	4592.8	4634.3
75°	3278.3	3414.7	3507.6	3531.7	3584.2	3650.3	3626.7
77.5°	1710.0	1769.3	1789.0	1747.1	1744.9	1783.6	1706.9
80°	325.6	326.1	320.7	318.7	322.5	318.7	313.3
82.5°	91.9	90.6	89.9	91.9	91.7	91.3	93.2
85°	42.5	41.2	39.2	39.2	40.2	38.7	39.4
87.5°	6.0	4.8	4.8	4.8	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)