

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: P180333

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180333
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-F02-LED-E1-RW
Description: ICON SITE SMALL 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: 4642.3 lumens
Efficiency: N/A
Efficacy: 84.4 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

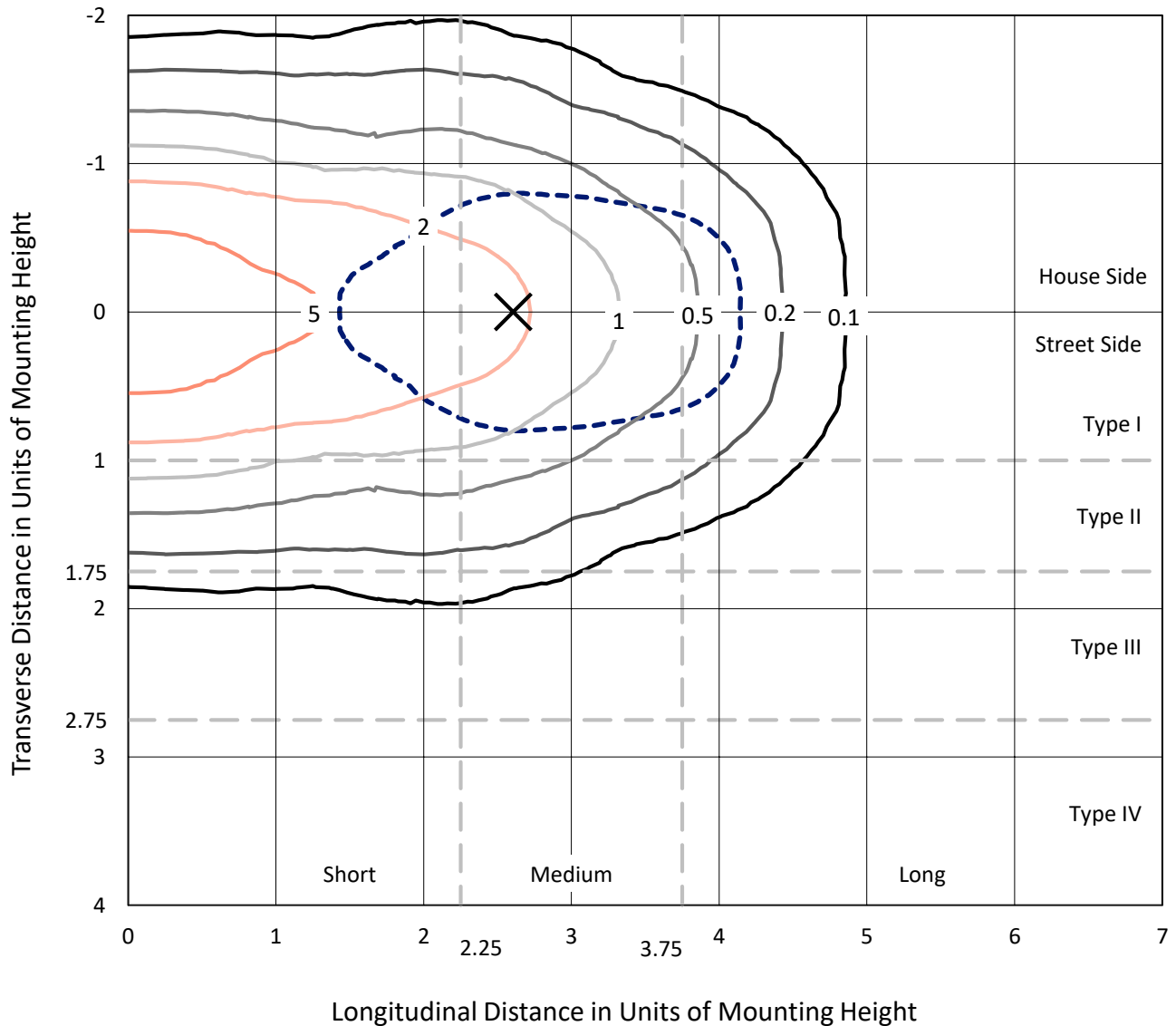
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

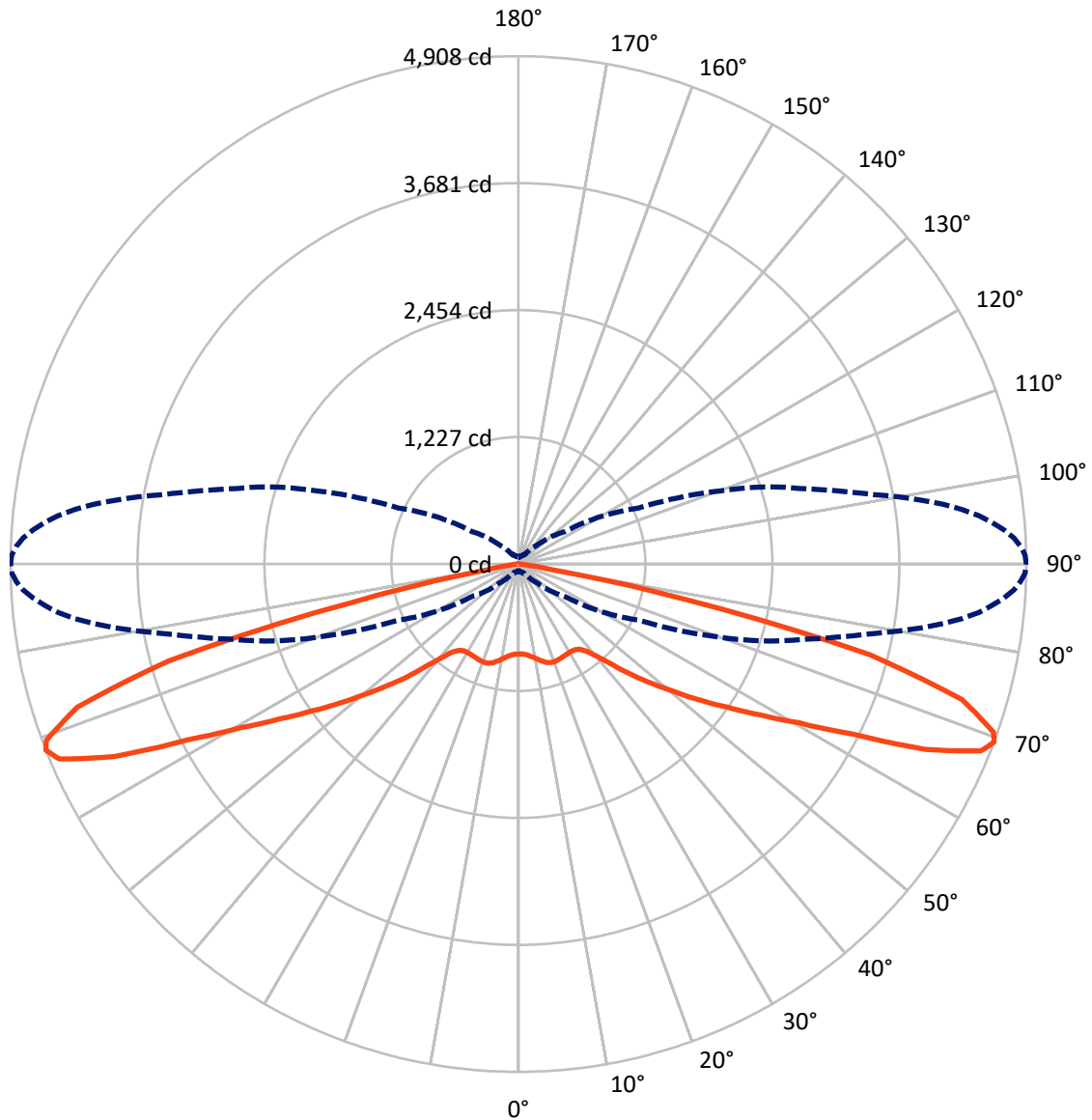
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 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	2321.1	0.0	2321.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2321.1	0.0	2321.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4642.3	0.0	4642.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	1.8
10°-20°	269.1	5.8
20°-30°	436.1	9.4
30°-40°	543.4	11.7
40°-50°	679.1	14.6
50°-60°	838.5	18.1
60°-70°	1041.9	22.4
70°-80°	691.7	14.9
80°-90°	57.1	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°	4642.3	100.0
0°-180°	4642.3	100.0



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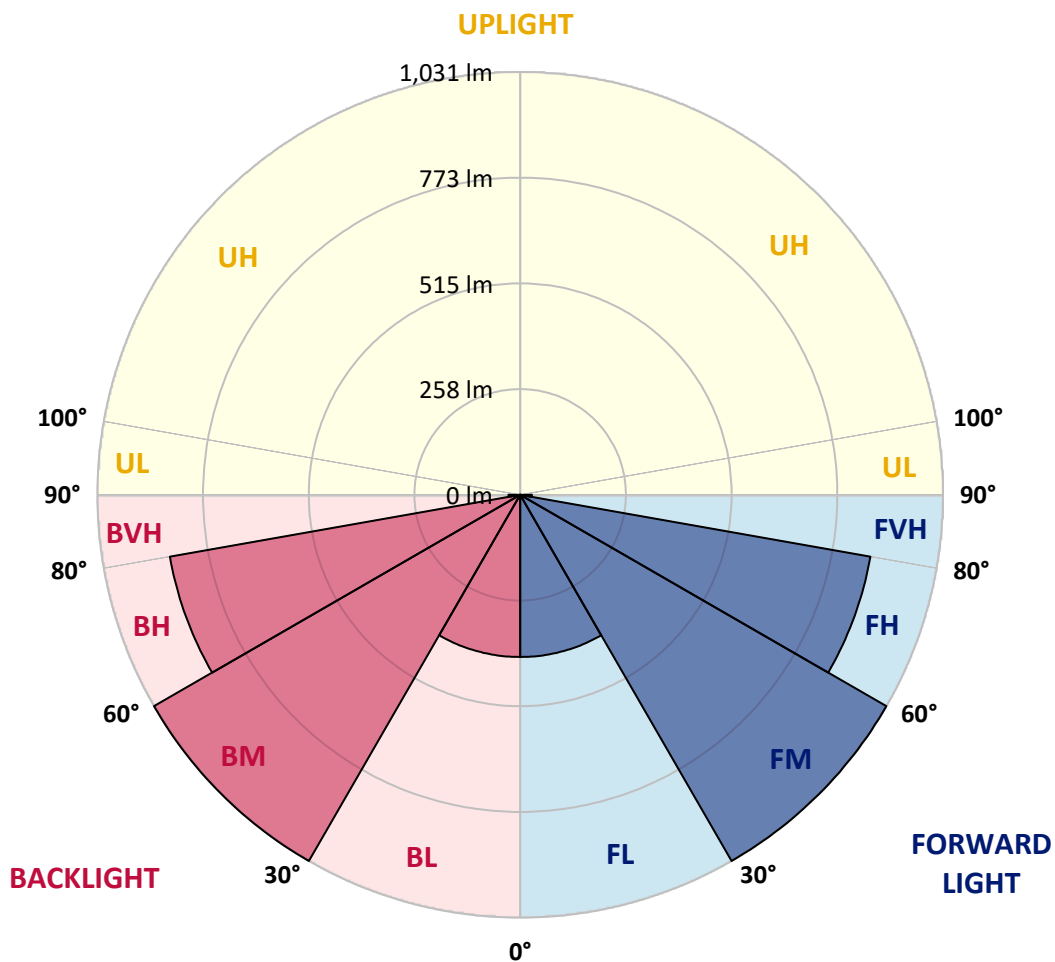
CATALOG NUMBER: ICS-F02-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.3	8.5			
FM	(30°-60°)	1030.5	22.2			
FH	(60°-80°)	866.8	18.7			G1/1800
FVH	(80°-90°)	28.6	0.6			G1/100
BL	(0°-30°)	395.3	8.5	B1/500		
BM	(30°-60°)	1030.5	22.2	B2/2500		
BH	(60°-80°)	866.8	18.7	B2/1000		G2/1000
BVH	(80°-90°)	28.6	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°	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8
2.5°	873.8	874.5	874.0	875.0	874.8	874.8	874.3	873.2	872.6	872.2	872.3
5°	882.2	881.2	882.7	884.2	883.7	883.9	883.7	883.7	883.2	883.2	883.1
7.5°	891.2	890.9	891.9	895.8	896.4	897.8	899.6	900.8	901.0	901.2	901.0
10°	898.8	899.0	901.6	907.2	910.2	914.9	919.6	923.3	924.7	925.6	925.4
12.5°	905.0	905.2	909.0	917.8	925.0	934.0	944.2	949.8	952.3	952.7	953.2
15°	905.5	906.2	912.6	927.2	941.6	956.2	968.4	976.0	978.0	979.4	979.5
17.5°	899.0	899.6	910.4	932.0	956.0	978.8	991.4	994.9	995.7	996.2	995.9
20°	882.2	883.4	898.8	930.8	967.4	997.2	1010.2	1005.6	1003.2	1002.9	1002.6
22.5°	855.0	854.8	874.8	917.9	969.6	1011.5	1023.2	1010.8	1003.4	1002.0	1000.9
25°	810.8	813.8	837.4	888.9	957.0	1014.7	1032.3	1013.5	1003.0	1000.6	997.8
27.5°	763.1	764.8	789.8	845.0	927.6	1003.6	1036.8	1019.0	1007.1	1003.9	1000.6
30°	707.4	709.6	736.3	794.0	880.2	974.8	1035.6	1031.3	1017.5	1013.6	1009.4
32.5°	652.8	655.4	679.4	742.5	830.4	935.4	1028.0	1048.9	1034.8	1030.4	1026.1
35°	596.4	600.1	629.3	693.2	782.4	891.6	1016.7	1071.4	1063.6	1059.8	1055.9
37.5°	549.6	550.3	578.6	645.7	737.8	849.8	1001.6	1099.9	1105.6	1105.6	1106.1
40°	497.4	502.0	530.2	601.1	697.4	814.4	987.2	1138.5	1168.1	1173.6	1177.7
42.5°	450.6	451.0	479.7	552.8	653.6	785.8	979.3	1185.1	1248.4	1260.0	1271.5
45°	401.2	403.2	429.2	499.8	603.1	752.2	979.0	1238.8	1339.9	1359.3	1377.3
47.5°	354.6	355.4	382.9	448.5	545.1	705.1	977.4	1296.6	1434.2	1462.8	1486.2
50°	310.1	309.4	336.3	399.5	487.9	643.4	962.2	1361.9	1535.7	1568.2	1597.1
52.5°	259.1	262.5	290.6	351.0	435.9	580.8	918.1	1433.5	1641.3	1679.0	1715.2
55°	209.0	210.5	240.5	297.0	383.2	522.4	841.4	1499.4	1744.4	1787.1	1827.3
57.5°	154.0	158.5	184.8	240.5	329.6	473.0	743.8	1533.6	1831.7	1881.0	1928.8
60°	108.8	112.2	135.5	182.3	271.0	421.3	659.8	1514.5	1901.8	1964.8	2022.3
62.5°	84.7	87.4	106.0	136.4	211.3	369.5	599.6	1452.8	1979.8	2062.0	2140.4
65°	74.3	76.8	93.6	109.2	157.8	316.8	566.7	1387.7	2084.4	2205.4	2314.7
67.5°	67.2	70.0	84.7	95.6	128.6	276.4	558.0	1346.6	2135.6	2293.2	2440.6
69°	63.9	66.9	80.0	89.1	119.4	262.0	543.2	1281.9	2066.4	2234.8	2395.8
70°	61.9	64.4	76.6	86.0	116.4	252.1	518.4	1201.2	1971.6	2141.6	2309.8
72.5°	57.5	58.7	69.4	78.5	108.0	203.8	398.8	892.2	1560.0	1725.8	1889.0
75°	50.8	52.2	62.2	71.1	84.2	126.6	252.4	551.8	1050.4	1173.9	1325.3
77.5°	43.8	45.1	53.8	67.8	65.4	79.0	150.9	307.1	596.2	668.0	766.5
80°	35.2	36.7	44.4	67.4	54.0	61.4	108.5	214.8	292.8	314.1	337.8
82.5°	25.8	27.0	34.7	54.4	41.4	46.3	82.7	182.0	209.2	218.8	223.6
85°	13.2	13.4	22.0	33.2	26.2	24.0	46.6	124.6	141.9	144.4	148.0
87.5°	2.2	2.2	5.0	5.7	6.4	4.0	6.0	21.3	24.6	24.4	26.5
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8
2.5°	872.6	872.5	872.8	872.8	873.1	872.2	872.0	871.8	871.8	872.3	871.8
5°	883.3	883.2	883.4	883.8	883.7	883.1	883.0	883.2	882.4	882.2	882.7
7.5°	901.5	901.2	900.8	901.6	902.1	902.2	902.7	902.3	902.0	901.8	902.3
10°	926.3	926.2	926.3	927.1	927.7	927.8	928.4	927.8	927.5	928.0	928.0
12.5°	954.1	953.6	954.8	955.2	956.0	957.5	956.8	957.8	957.0	958.2	958.2
15°	980.3	980.7	981.8	982.2	982.4	983.6	983.8	984.5	983.5	983.8	985.8
17.5°	996.7	996.4	997.2	997.5	998.2	998.8	1000.0	1000.6	1000.1	1000.1	1001.1
20°	1002.1	1001.3	1001.6	1002.0	1002.0	1002.6	1003.5	1003.6	1003.6	1003.8	1004.8
22.5°	999.4	998.2	996.9	997.0	997.1	996.9	997.5	997.9	998.4	998.8	1000.1
25°	995.6	992.8	990.4	990.2	989.6	989.6	989.9	990.0	990.4	991.2	992.2
27.5°	996.0	992.2	988.4	987.1	985.8	985.0	984.6	984.0	984.5	985.2	986.2
30°	1004.5	998.6	993.2	991.5	989.6	987.8	986.4	984.7	983.8	984.5	985.0
32.5°	1019.4	1013.6	1008.2	1005.5	1002.8	999.9	997.1	995.4	993.2	992.4	992.2
35°	1051.1	1046.5	1041.7	1038.6	1034.1	1031.8	1028.4	1023.6	1020.2	1019.9	1017.9
37.5°	1104.6	1102.4	1098.9	1095.7	1094.2	1088.0	1084.0	1081.6	1077.6	1080.1	1075.8
40°	1181.4	1185.1	1188.3	1186.4	1187.0	1185.4	1183.0	1185.4	1182.6	1181.9	1182.6
42.5°	1279.8	1292.9	1302.0	1304.9	1312.2	1315.1	1320.4	1328.8	1327.0	1336.4	1338.2
45°	1393.9	1412.6	1430.8	1444.3	1459.1	1475.8	1492.6	1505.8	1516.2	1515.8	1527.2
47.5°	1510.3	1537.9	1562.1	1582.4	1609.0	1633.5	1660.6	1687.9	1707.7	1715.1	1717.6
50°	1628.2	1660.0	1693.1	1723.0	1758.8	1798.2	1840.8	1883.3	1904.6	1922.0	1933.6
52.5°	1751.7	1788.1	1823.4	1865.6	1909.8	1961.8	2014.9	2075.4	2107.7	2140.4	2157.7
55°	1869.1	1909.9	1946.2	2002.7	2057.0	2119.0	2188.4	2265.0	2320.7	2359.0	2393.0
57.5°	1975.9	2019.3	2063.8	2127.6	2196.8	2269.2	2357.2	2450.2	2510.9	2577.8	2638.0
60°	2080.1	2134.6	2186.0	2269.3	2351.6	2441.6	2551.2	2668.9	2762.8	2853.6	2923.0
62.5°	2218.3	2288.3	2352.1	2456.9	2564.5	2675.7	2806.0	2945.3	3081.5	3204.9	3298.2
65°	2422.6	2525.4	2620.9	2753.7	2889.4	3035.9	3191.4	3369.3	3532.8	3696.0	3829.8
67.5°	2577.5	2707.8	2830.4	2990.9	3150.7	3320.4	3508.4	3718.5	3920.8	4104.9	4267.8
69°	2547.1	2685.2	2818.0	2981.9	3148.1	3321.3	3511.0	3734.4	3944.7	4144.6	4319.4
70°	2454.5	2598.5	2736.0	2898.7	3067.0	3240.7	3439.3	3658.6	3873.8	4086.8	4263.4
72.5°	2034.2	2178.7	2312.2	2478.7	2648.1	2830.6	3018.6	3232.4	3462.2	3689.8	3844.6
75°	1458.5	1586.2	1715.6	1856.4	2021.7	2172.1	2344.1	2548.0	2741.2	2917.8	3036.2
77.5°	862.0	938.5	1030.8	1097.0	1193.0	1275.8	1363.3	1476.6	1536.1	1650.0	1679.2
80°	351.3	349.1	362.8	349.2	352.3	341.2	329.4	327.2	308.6	331.8	314.5
82.5°	223.1	207.5	191.0	168.0	147.7	126.5	106.9	90.6	87.6	88.1	87.1
85°	147.0	140.2	125.3	105.3	85.9	68.9	55.1	43.6	43.0	42.4	42.1
87.5°	26.6	24.7	20.3	17.3	14.6	10.9	7.7	5.7	5.4	5.4	6.4
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):

	84°	85°	86°	87°	88°	89°	90°
0°	869.8	869.8	869.8	869.8	869.8	869.8	869.8
2.5°	871.8	871.8	871.6	872.0	871.8	871.0	870.3
5°	883.2	882.2	883.0	883.7	882.4	882.7	882.2
7.5°	902.3	902.0	902.2	901.6	901.0	901.8	902.5
10°	929.0	928.5	928.2	929.0	928.5	928.0	928.3
12.5°	959.0	959.0	958.8	959.0	958.8	958.0	957.5
15°	985.5	986.0	986.0	985.4	985.2	985.0	985.2
17.5°	1001.8	1001.6	1001.6	1001.6	1001.4	1001.6	1002.1
20°	1006.0	1005.3	1005.3	1005.8	1005.3	1005.8	1006.0
22.5°	1000.4	1000.4	1000.3	1000.6	1001.1	1001.1	1001.6
25°	993.2	993.2	993.2	993.6	993.6	993.9	994.2
27.5°	987.4	987.4	987.4	988.0	988.0	988.2	988.7
30°	985.7	985.7	985.4	985.7	986.0	986.0	986.2
32.5°	992.4	991.6	991.4	990.9	990.4	990.4	990.2
35°	1016.0	1014.0	1014.2	1012.8	1013.2	1012.0	1011.0
37.5°	1073.2	1071.2	1068.9	1066.0	1064.2	1066.5	1066.5
40°	1180.2	1181.4	1175.9	1174.4	1171.2	1173.5	1176.4
42.5°	1339.2	1340.6	1341.6	1333.4	1333.2	1331.4	1326.5
45°	1527.6	1524.2	1525.6	1522.0	1520.5	1515.1	1521.7
47.5°	1727.0	1729.2	1720.3	1717.4	1722.6	1713.6	1714.9
50°	1940.2	1940.8	1934.1	1932.6	1937.3	1920.4	1928.4
52.5°	2170.1	2171.1	2176.2	2170.1	2172.6	2168.6	2176.5
55°	2414.6	2433.2	2434.8	2441.6	2442.0	2450.2	2442.0
57.5°	2671.4	2692.4	2712.2	2739.2	2745.1	2742.0	2747.2
60°	2980.7	3036.0	3065.6	3108.0	3114.7	3133.0	3117.2
62.5°	3385.9	3471.8	3536.8	3569.4	3589.2	3627.6	3615.0
65°	3952.6	4054.8	4153.5	4200.5	4252.6	4307.0	4316.9
67.5°	4416.7	4530.4	4633.0	4714.4	4777.8	4818.0	4821.2
69°	4474.6	4595.6	4703.5	4794.2	4855.8	4897.0	4907.8
70°	4422.4	4546.0	4660.4	4746.9	4815.7	4857.5	4872.2
72.5°	4007.1	4154.2	4245.8	4334.0	4431.0	4443.8	4483.8
75°	3172.0	3304.0	3393.8	3417.1	3467.9	3531.8	3509.0
77.5°	1654.4	1711.9	1731.0	1690.4	1688.4	1725.8	1651.5
80°	315.0	315.5	310.3	308.4	312.0	308.4	303.1
82.5°	88.9	87.6	87.0	89.0	88.7	88.4	90.2
85°	41.1	39.9	37.9	37.9	38.9	37.4	38.1
87.5°	5.7	4.8	4.8	4.8	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)