

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: P180328

Luminaire Tested: **ICS-E02-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180328
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-E02-LED-E1-RW
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5623.4 lumens
Efficiency: N/A
Efficacy: 107.9 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: B3 - U0 - G3

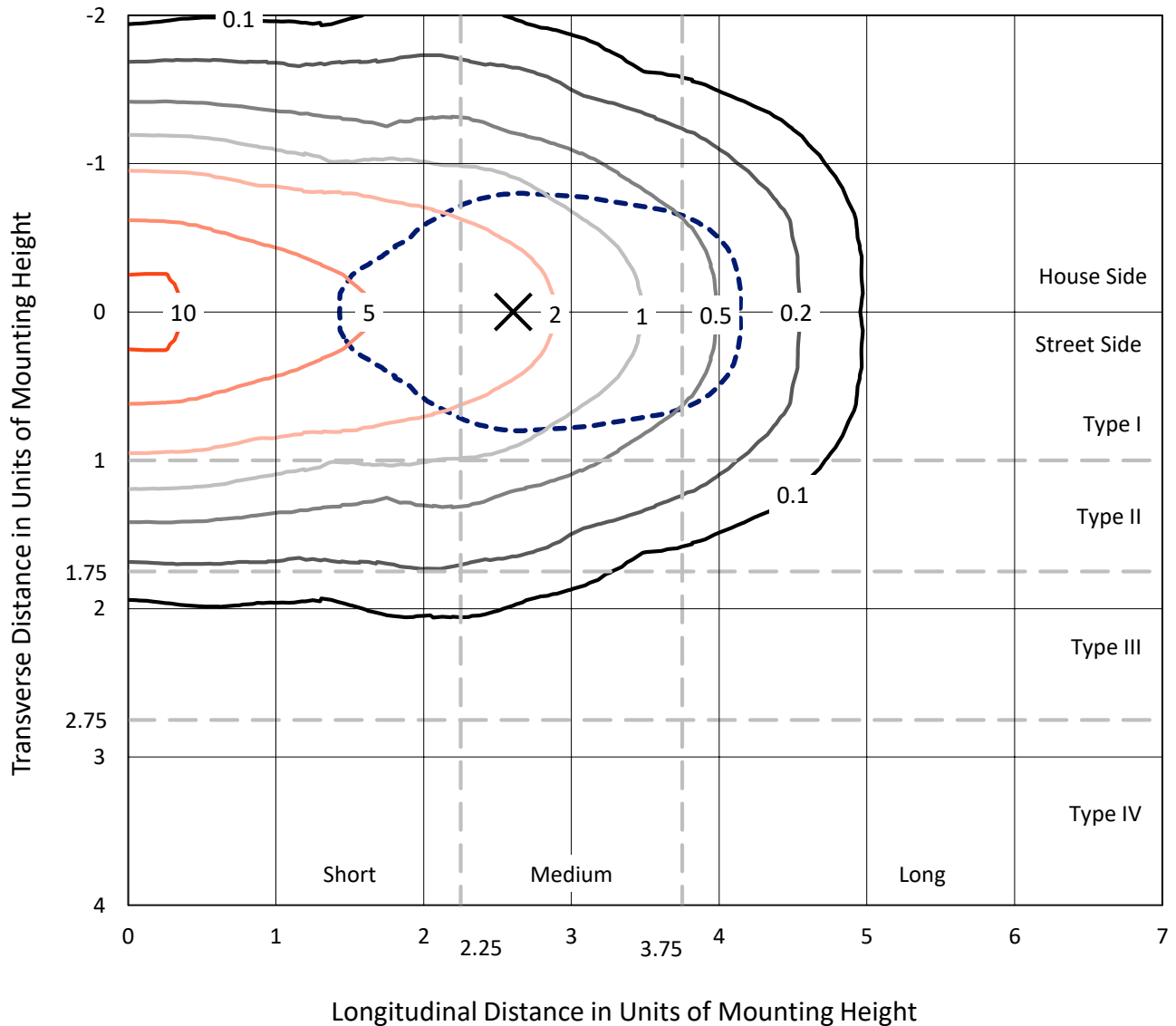
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

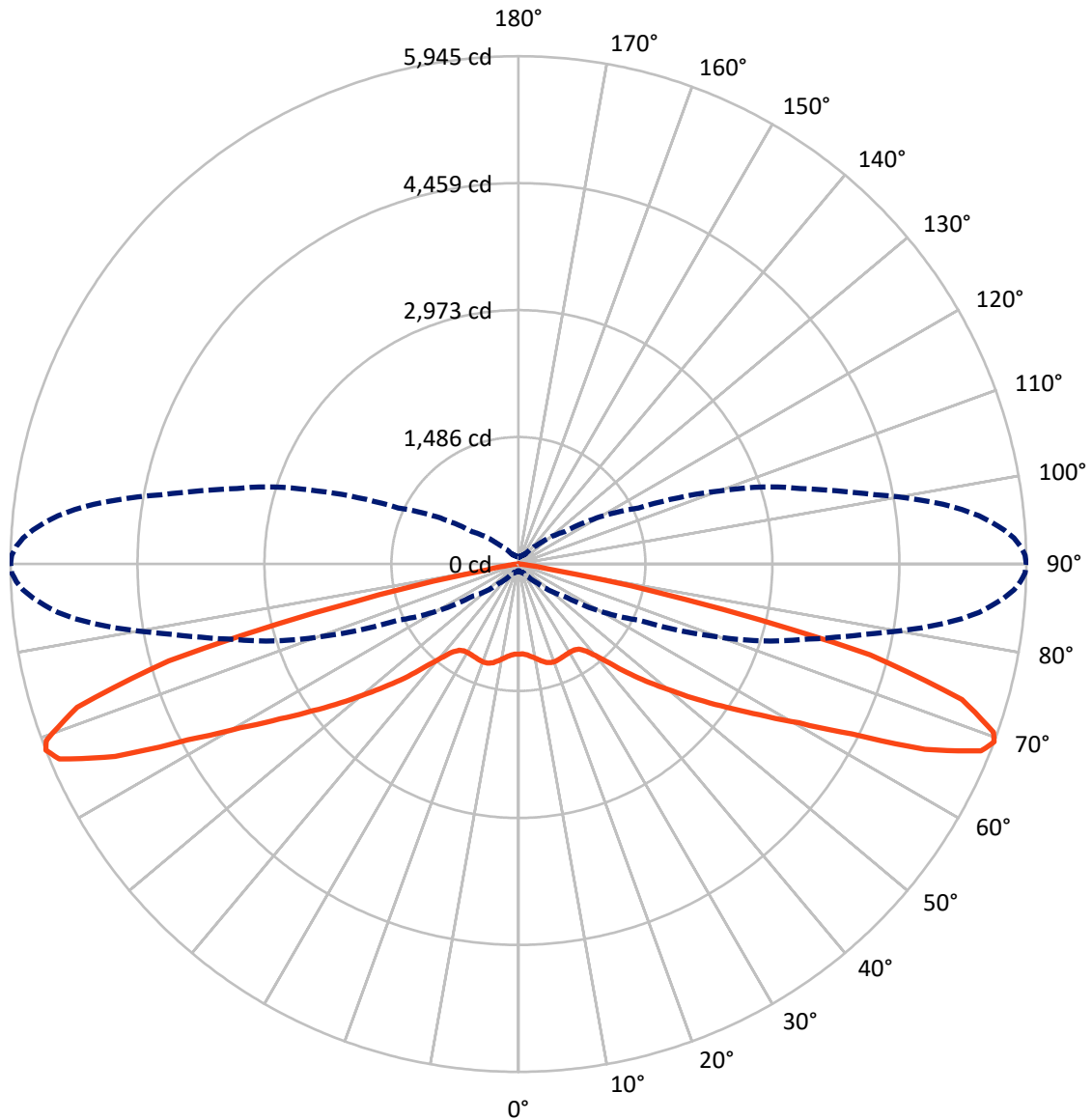
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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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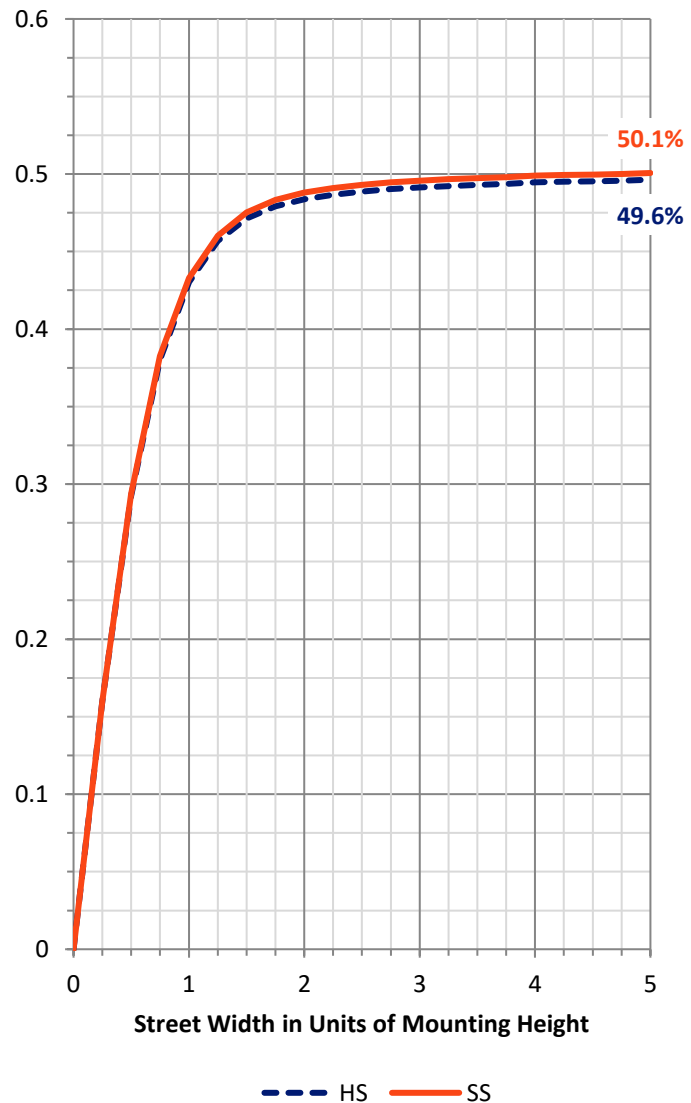
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2811.7	0.0	2811.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2811.7	0.0	2811.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5623.4	0.0	5623.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	1.8
10°-20°	326.0	5.8
20°-30°	528.2	9.4
30°-40°	658.3	11.7
40°-50°	822.6	14.6
50°-60°	1015.7	18.1
60°-70°	1262.1	22.4
70°-80°	837.9	14.9
80°-90°	69.2	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°	5623.4	100.0
0°-180°	5623.4	100.0



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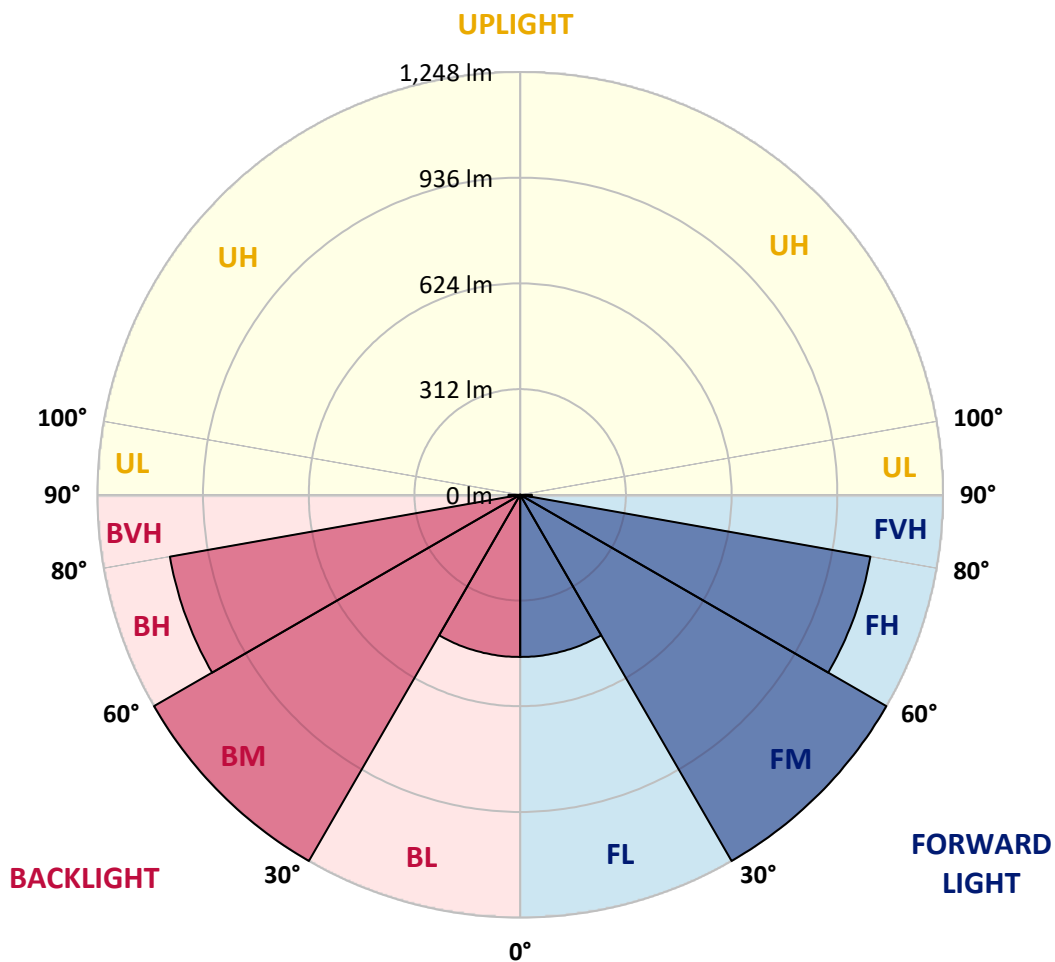
CATALOG NUMBER: ICS-E02-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	478.8	8.5			
FM	(30°-60°)	1248.3	22.2			
FH	(60°-80°)	1050.0	18.7			G1/1800
FVH	(80°-90°)	34.6	0.6			G1/100
BL	(0°-30°)	478.8	8.5	B1/500		
BM	(30°-60°)	1248.3	22.2	B2/2500		
BH	(60°-80°)	1050.0	18.7	B3/2500		G3/2500
BVH	(80°-90°)	34.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1058.5	1059.4	1058.8	1060.0	1059.7	1059.7	1059.1	1057.9	1057.2	1056.6	1056.7
5°	1068.7	1067.5	1069.3	1071.1	1070.5	1070.8	1070.5	1070.5	1069.9	1069.8	1069.8
7.5°	1079.5	1079.2	1080.4	1085.2	1085.8	1087.6	1089.7	1091.2	1091.5	1091.8	1091.5
10°	1088.8	1089.1	1092.1	1099.0	1102.6	1108.3	1114.0	1118.5	1120.2	1121.2	1121.1
12.5°	1096.3	1096.6	1101.1	1111.9	1120.6	1131.4	1143.7	1150.6	1153.6	1154.1	1154.7
15°	1096.9	1097.8	1105.6	1123.3	1140.7	1158.4	1173.1	1182.4	1184.8	1186.4	1186.5
17.5°	1089.1	1089.7	1102.9	1129.0	1158.1	1185.7	1201.0	1205.2	1206.1	1206.7	1206.4
20°	1068.7	1070.2	1088.8	1127.5	1171.9	1207.9	1223.8	1218.1	1215.2	1214.9	1214.6
22.5°	1035.7	1035.4	1059.7	1111.9	1174.6	1225.3	1239.4	1224.4	1215.6	1213.7	1212.5
25°	982.3	985.9	1014.4	1076.8	1159.3	1229.2	1250.5	1227.7	1214.9	1212.1	1208.6
27.5°	924.4	926.4	956.8	1023.7	1123.6	1215.7	1255.9	1234.3	1220.0	1216.1	1212.1
30°	856.8	859.5	892.0	961.9	1066.3	1180.9	1254.4	1249.3	1232.6	1227.9	1222.8
32.5°	790.8	793.8	822.9	899.4	1006.0	1133.2	1245.4	1270.6	1253.5	1248.2	1242.9
35°	722.4	726.9	762.3	839.7	947.8	1080.1	1231.6	1297.9	1288.4	1283.8	1279.2
37.5°	665.7	666.6	700.8	782.1	893.8	1029.4	1213.3	1332.4	1339.3	1339.3	1339.9
40°	602.4	608.1	642.3	728.1	844.8	986.5	1195.9	1379.2	1415.1	1421.6	1426.7
42.5°	545.7	546.3	581.1	669.6	791.7	952.0	1186.3	1435.6	1512.2	1526.3	1540.3
45°	486.0	488.4	519.9	605.4	730.5	911.2	1186.0	1500.7	1623.1	1646.6	1668.3
47.5°	429.6	430.5	463.8	543.3	660.3	854.2	1183.9	1570.6	1737.2	1771.9	1800.2
50°	375.6	374.7	407.4	483.9	591.0	779.4	1165.6	1649.8	1860.2	1899.7	1934.6
52.5°	313.8	318.0	351.9	425.1	528.0	703.5	1112.2	1736.5	1988.2	2033.9	2077.7
55°	253.2	255.0	291.3	359.7	464.1	632.7	1019.1	1816.3	2113.0	2164.8	2213.6
57.5°	186.6	192.0	223.8	291.3	399.3	573.0	901.0	1857.7	2218.8	2278.5	2336.4
60°	131.7	135.9	164.1	220.8	328.2	510.3	799.2	1834.6	2303.8	2380.1	2449.8
62.5°	102.6	105.9	128.4	165.3	255.9	447.6	726.3	1759.9	2398.3	2497.8	2592.8
65°	90.0	93.0	113.4	132.3	191.1	383.7	686.4	1681.0	2524.9	2671.4	2803.9
67.5°	81.3	84.9	102.6	115.8	155.7	334.8	675.9	1631.2	2587.0	2777.8	2956.4
69°	77.4	81.0	96.9	108.0	144.6	317.4	657.9	1552.9	2503.2	2707.2	2902.1
70°	75.0	78.0	92.7	104.1	141.0	305.4	627.9	1455.1	2388.3	2594.2	2798.0
72.5°	69.6	71.1	84.0	95.1	130.8	246.9	483.0	1080.6	1889.7	2090.5	2288.3
75°	61.5	63.3	75.3	86.1	102.0	153.3	305.7	668.4	1272.4	1422.0	1605.4
77.5°	53.1	54.6	65.1	82.2	79.2	95.7	182.7	372.0	722.3	809.2	928.5
80°	42.6	44.4	53.7	81.6	65.4	74.4	131.4	260.1	354.6	380.5	409.1
82.5°	31.2	32.7	42.0	66.0	50.1	56.1	100.2	220.5	253.4	265.1	270.8
85°	15.9	16.2	26.7	40.2	31.8	29.1	56.4	150.9	171.9	174.8	179.3
87.5°	2.7	2.7	6.0	6.9	7.8	4.8	7.2	25.8	29.8	29.6	32.1
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°	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1057.1	1056.9	1057.3	1057.4	1057.7	1056.6	1056.3	1056.1	1056.1	1056.7	1056.1
5°	1070.0	1070.0	1070.2	1070.7	1070.6	1069.8	1069.7	1069.9	1069.0	1068.7	1069.3
7.5°	1092.1	1091.8	1091.2	1092.2	1092.8	1092.9	1093.5	1093.0	1092.7	1092.4	1093.0
10°	1122.1	1122.0	1122.1	1123.1	1123.8	1124.0	1124.7	1123.9	1123.6	1124.2	1124.2
12.5°	1155.8	1155.2	1156.6	1157.2	1158.1	1159.9	1159.0	1160.2	1159.3	1160.8	1160.8
15°	1187.6	1188.0	1189.3	1189.8	1190.1	1191.5	1191.8	1192.6	1191.4	1191.7	1194.1
17.5°	1207.3	1207.0	1207.9	1208.4	1209.2	1209.9	1211.3	1212.1	1211.5	1211.5	1212.7
20°	1214.0	1213.0	1213.3	1213.7	1213.8	1214.6	1215.6	1215.7	1215.7	1216.0	1217.2
22.5°	1210.7	1209.1	1207.6	1207.7	1207.8	1207.7	1208.4	1208.8	1209.4	1210.0	1211.5
25°	1206.1	1202.6	1199.8	1199.6	1198.7	1198.8	1199.1	1199.2	1199.8	1200.7	1201.9
27.5°	1206.6	1202.0	1197.4	1195.8	1194.2	1193.1	1192.7	1192.0	1192.6	1193.5	1194.7
30°	1216.8	1209.7	1203.1	1201.1	1198.7	1196.7	1194.9	1192.9	1191.7	1192.6	1193.2
32.5°	1235.0	1227.9	1221.4	1218.1	1214.8	1211.2	1207.9	1205.8	1203.1	1202.2	1201.9
35°	1273.3	1267.8	1261.9	1258.2	1252.7	1249.8	1245.8	1240.0	1235.8	1235.5	1233.1
37.5°	1338.1	1335.4	1331.2	1327.3	1325.5	1318.0	1313.2	1310.2	1305.4	1308.4	1303.3
40°	1431.2	1435.6	1439.5	1437.2	1437.9	1436.0	1433.1	1435.9	1432.6	1431.7	1432.6
42.5°	1550.4	1566.2	1577.2	1580.7	1589.6	1593.0	1599.5	1609.6	1607.5	1618.9	1621.0
45°	1688.6	1711.2	1733.2	1749.6	1767.5	1787.7	1808.0	1824.1	1836.7	1836.1	1849.9
47.5°	1829.5	1863.0	1892.2	1916.9	1949.0	1978.8	2011.5	2044.6	2068.6	2077.6	2080.6
50°	1972.3	2010.8	2050.9	2087.1	2130.6	2178.2	2229.8	2281.3	2307.1	2328.1	2342.2
52.5°	2121.9	2166.0	2208.7	2259.9	2313.5	2376.3	2440.7	2514.1	2553.1	2592.7	2613.7
55°	2264.1	2313.5	2357.5	2426.0	2491.7	2566.8	2650.9	2743.6	2811.2	2857.7	2898.8
57.5°	2393.4	2446.0	2500.0	2577.2	2661.1	2748.8	2855.4	2968.1	3041.6	3122.6	3195.5
60°	2519.7	2585.8	2648.0	2748.9	2848.6	2957.6	3090.4	3233.0	3346.7	3456.8	3540.8
62.5°	2687.2	2772.0	2849.2	2976.3	3106.5	3241.3	3399.1	3567.8	3732.8	3882.2	3995.3
65°	2934.6	3059.2	3174.8	3335.7	3500.1	3677.5	3865.9	4081.4	4279.4	4477.2	4639.2
67.5°	3122.3	3280.1	3428.6	3623.1	3816.6	4022.2	4250.0	4504.4	4749.6	4972.5	5169.9
69°	3085.4	3252.8	3413.6	3612.2	3813.4	4023.4	4253.1	4523.6	4778.4	5020.5	5232.3
70°	2973.3	3147.7	3314.3	3511.3	3715.2	3925.7	4166.2	4431.8	4692.6	4950.6	5164.5
72.5°	2464.2	2639.2	2801.0	3002.6	3207.8	3428.9	3656.6	3915.5	4194.0	4469.6	4657.2
75°	1766.7	1921.4	2078.2	2248.7	2449.0	2631.2	2839.5	3086.5	3320.6	3534.5	3677.9
77.5°	1044.2	1136.9	1248.7	1328.9	1445.1	1545.5	1651.5	1788.7	1860.7	1998.7	2034.1
80°	425.5	422.9	439.5	423.1	426.7	413.3	398.9	396.3	373.8	402.0	381.0
82.5°	270.2	251.4	231.3	203.5	178.9	153.2	129.5	109.8	106.2	106.8	105.6
85°	178.0	169.9	151.8	127.6	104.0	83.5	66.8	52.8	52.2	51.3	51.0
87.5°	32.2	29.9	24.6	21.0	17.7	13.2	9.3	6.9	6.6	6.6	7.8
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):

	84°	85°	86°	87°	88°	89°	90°
0°	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1056.1	1056.1	1055.8	1056.4	1056.1	1055.2	1054.3
5°	1069.9	1068.7	1069.6	1070.5	1069.0	1069.3	1068.7
7.5°	1093.0	1092.7	1093.0	1092.1	1091.5	1092.4	1093.3
10°	1125.4	1124.8	1124.5	1125.4	1124.8	1124.2	1124.5
12.5°	1161.7	1161.7	1161.4	1161.7	1161.4	1160.5	1159.9
15°	1193.8	1194.4	1194.4	1193.8	1193.5	1193.2	1193.5
17.5°	1213.6	1213.3	1213.3	1213.3	1213.0	1213.3	1213.9
20°	1218.7	1217.8	1217.8	1218.4	1217.8	1218.4	1218.7
22.5°	1211.8	1211.8	1211.8	1212.1	1212.7	1212.7	1213.3
25°	1203.1	1203.1	1203.1	1203.7	1203.7	1204.0	1204.3
27.5°	1196.2	1196.2	1196.2	1196.8	1196.8	1197.1	1197.7
30°	1194.1	1194.1	1193.8	1194.1	1194.4	1194.4	1194.7
32.5°	1202.2	1201.3	1201.0	1200.4	1199.8	1199.8	1199.5
35°	1230.7	1228.3	1228.6	1226.8	1227.4	1225.9	1224.7
37.5°	1300.0	1297.6	1294.9	1291.3	1289.2	1291.9	1291.9
40°	1429.6	1431.1	1424.5	1422.7	1418.8	1421.5	1425.1
42.5°	1622.2	1624.0	1625.2	1615.3	1615.0	1612.9	1606.9
45°	1850.5	1846.3	1848.1	1843.6	1841.8	1835.2	1843.3
47.5°	2092.0	2094.7	2083.9	2080.3	2086.6	2075.8	2077.3
50°	2350.3	2350.9	2342.8	2341.0	2346.7	2326.3	2335.9
52.5°	2628.7	2629.9	2636.2	2628.7	2631.7	2626.9	2636.5
55°	2924.9	2947.4	2949.5	2957.6	2958.2	2968.1	2958.2
57.5°	3236.0	3261.5	3285.5	3318.2	3325.4	3321.5	3327.8
60°	3610.7	3677.6	3713.6	3764.9	3773.0	3795.2	3776.0
62.5°	4101.5	4205.6	4284.2	4323.8	4347.8	4394.3	4379.0
65°	4788.0	4911.9	5031.3	5088.3	5151.3	5217.3	5229.3
67.5°	5350.2	5487.9	5612.1	5710.8	5787.6	5836.2	5840.1
69°	5420.4	5566.8	5697.6	5807.4	5882.1	5931.9	5945.1
70°	5357.1	5506.8	5645.4	5750.1	5833.5	5884.2	5901.9
72.5°	4854.0	5032.2	5143.2	5250.0	5367.6	5382.9	5431.5
75°	3842.3	4002.2	4111.1	4139.3	4200.8	4278.2	4250.6
77.5°	2004.1	2073.7	2096.8	2047.6	2045.2	2090.5	2000.5
80°	381.6	382.2	375.9	373.5	378.0	373.5	367.2
82.5°	107.7	106.2	105.3	107.7	107.4	107.1	109.2
85°	49.8	48.3	45.9	45.9	47.1	45.3	46.2
87.5°	6.9	5.7	5.7	5.7	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)