

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: P181439

Luminaire Tested: **ICM-E03-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181439
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E03-LED-E1-T3
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8606.3 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

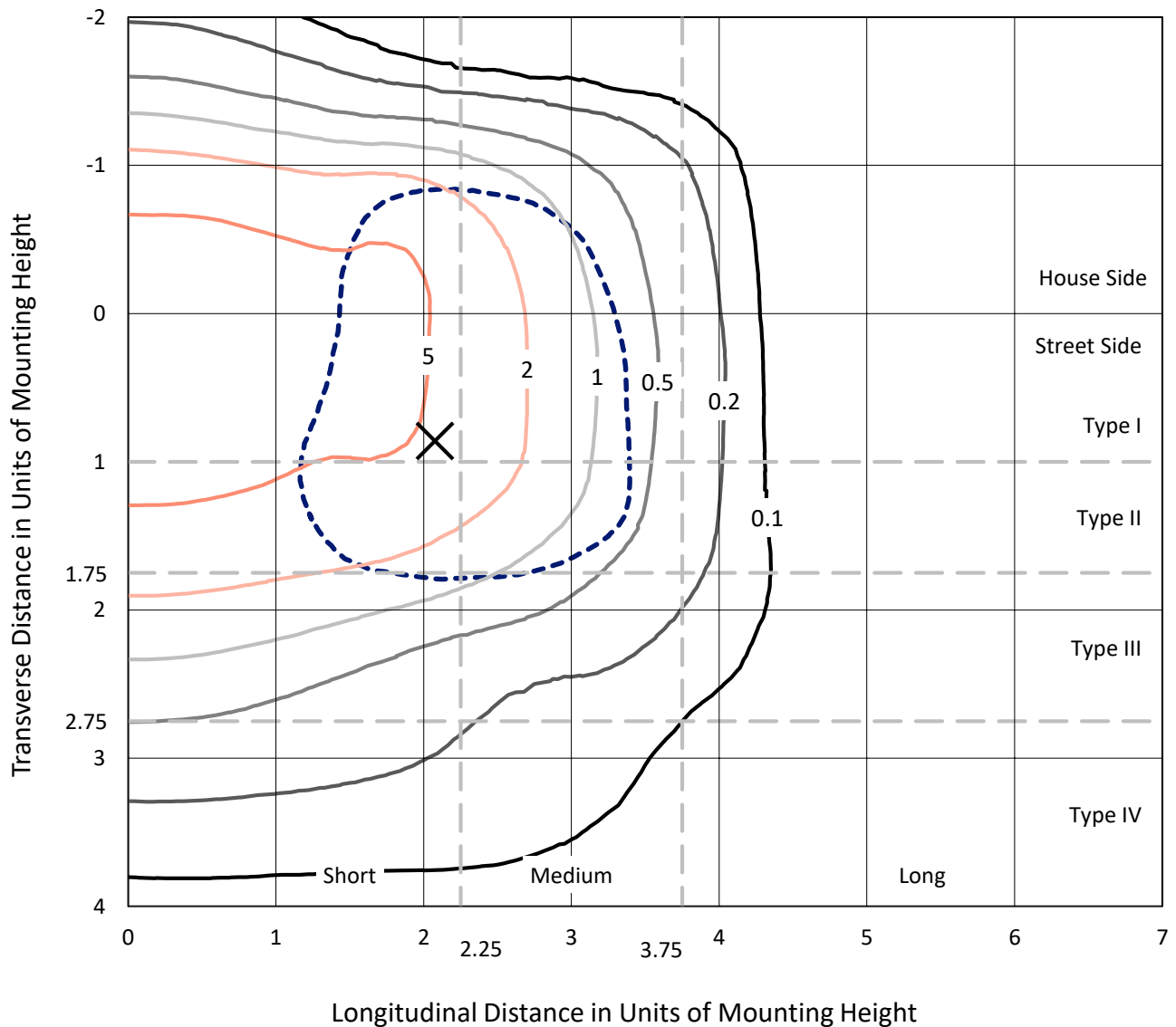
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

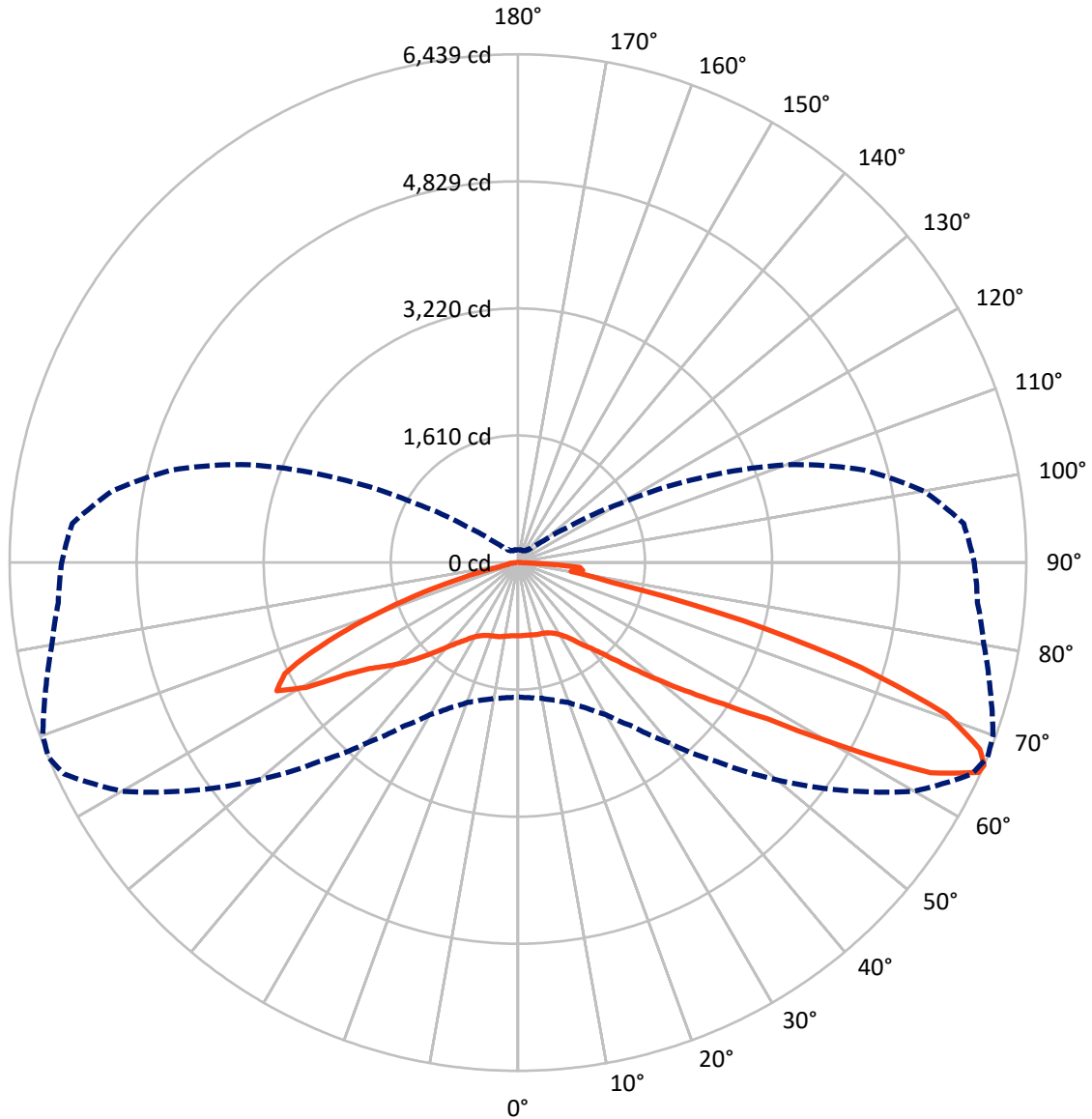
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2972.0	0.0	2972.0
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	5634.3	0.0	5634.3
	% Fixture	65.5	0.0	65.5
Total	Lumens	8606.3	0.0	8606.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	1.0
10°-20°	262.2	3.0
20°-30°	450.6	5.2
30°-40°	731.6	8.5
40°-50°	1221.4	14.2
50°-60°	1923.2	22.3
60°-70°	2622.6	30.5
70°-80°	1135.3	13.2
80°-90°	170.7	2.0
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°	8606.3	100.0
0°-180°	8606.3	100.0



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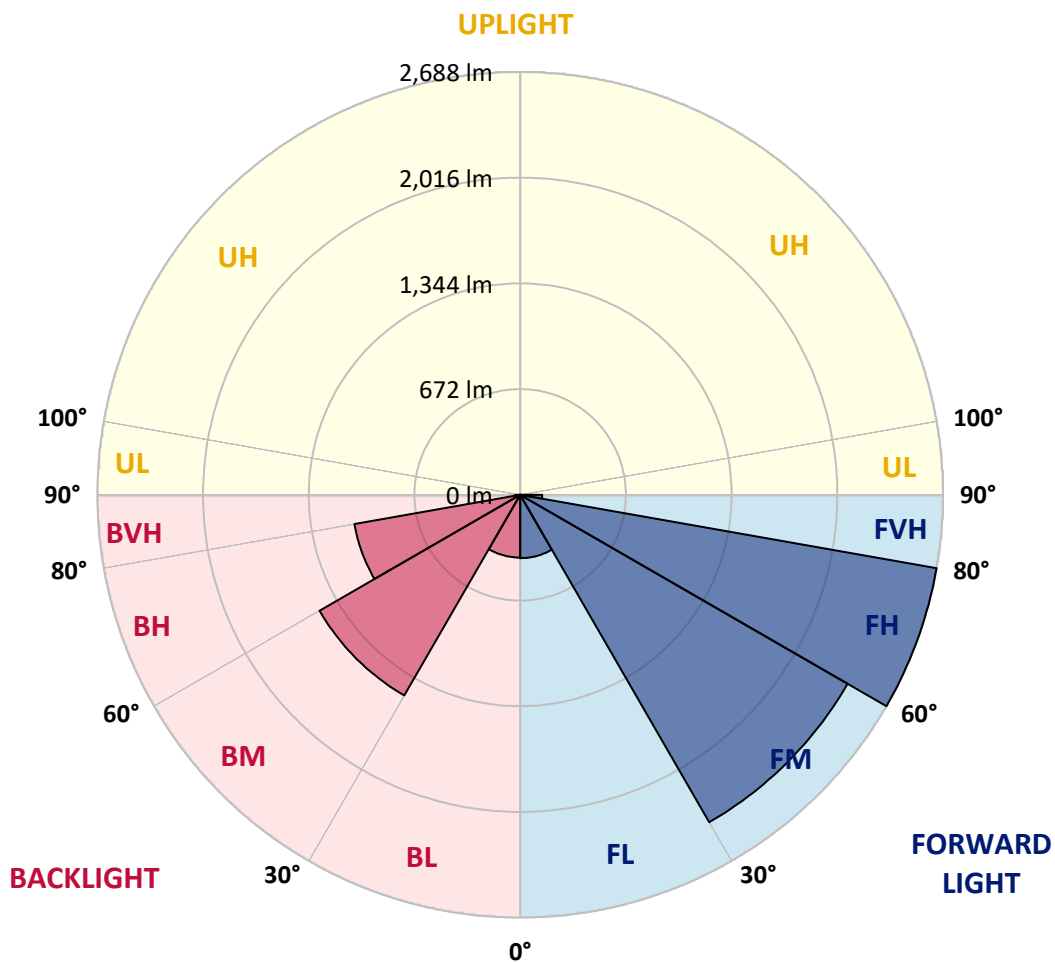
CATALOG NUMBER: ICM-E03-LED-E1-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.6	4.7			
FM	(30°-60°)	2403.5	27.9			
FH	(60°-80°)	2688.1	31.2			G2/5000
FVH	(80°-90°)	140.2	1.6			G2/225
BL	(0°-30°)	398.9	4.6	B1/500		
BM	(30°-60°)	1472.8	17.1	B2/2500		
BH	(60°-80°)	1069.8	12.4	B3/2500		G3/2500
BVH	(80°-90°)	30.5	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	931.2	934.9	931.2	932.1	933.0	932.1	931.2	931.2	928.4	930.2	932.1
5°	927.4	930.2	929.3	930.2	931.2	930.2	929.3	930.2	928.4	929.3	932.1
7.5°	922.8	921.9	922.8	924.7	926.5	926.5	926.5	927.4	926.5	926.5	929.3
10°	908.8	909.8	911.6	914.4	915.4	918.1	918.1	920.9	921.9	923.7	927.4
12.5°	891.2	892.1	894.0	895.8	900.5	905.1	905.1	911.6	914.4	919.1	925.6
15°	878.1	879.1	880.9	882.8	886.5	891.2	894.0	901.4	906.1	914.4	923.7
17.5°	885.6	884.7	886.5	887.4	887.4	891.2	891.2	896.7	902.3	909.8	921.9
20°	907.0	907.0	908.8	908.8	907.9	909.8	906.1	906.1	907.0	910.7	919.1
22.5°	928.4	927.4	931.2	933.0	934.0	936.7	933.0	932.1	927.4	924.7	927.4
25°	948.8	947.9	952.6	955.4	960.0	962.8	962.8	962.8	959.1	954.4	951.6
27.5°	980.5	980.5	985.1	987.9	991.6	997.2	1000.0	1000.0	1000.9	994.4	989.8
30°	1033.5	1034.4	1035.4	1039.1	1042.8	1044.7	1048.4	1051.2	1054.0	1050.2	1042.8
32.5°	1096.8	1091.2	1091.2	1096.8	1101.4	1107.0	1108.8	1112.6	1118.1	1115.4	1114.4
35°	1172.1	1170.2	1168.4	1170.2	1175.8	1182.3	1189.8	1196.3	1192.6	1198.1	1195.4
37.5°	1283.7	1285.6	1286.5	1286.5	1285.6	1287.4	1291.2	1297.7	1295.8	1297.7	1301.4
40°	1467.9	1461.4	1454.9	1455.8	1446.5	1448.4	1433.5	1440.0	1440.9	1434.4	1437.2
42.5°	1652.1	1655.8	1658.6	1666.1	1659.5	1655.8	1641.9	1641.9	1634.4	1627.9	1626.1
45°	1851.2	1858.6	1859.5	1874.4	1868.8	1880.9	1891.2	1888.4	1876.3	1875.4	1862.3
47.5°	2010.2	2022.3	2035.4	2053.0	2067.0	2094.0	2125.6	2141.4	2150.7	2158.2	2143.3
50°	2129.3	2134.9	2168.4	2196.3	2227.0	2271.6	2315.4	2372.1	2417.7	2439.1	2459.5
52.5°	2193.5	2207.5	2243.7	2287.5	2341.4	2408.4	2479.1	2569.3	2647.5	2699.6	2746.1
55°	2207.5	2221.4	2262.3	2318.2	2391.6	2481.9	2583.3	2706.1	2823.3	2923.7	3021.4
57.5°	2168.4	2184.2	2227.9	2292.1	2378.6	2488.4	2615.8	2776.8	2938.6	3101.4	3245.6
60°	2096.8	2116.3	2156.3	2219.5	2315.4	2439.1	2591.6	2793.5	3020.5	3269.8	3546.1
62.5°	1978.6	1999.1	2036.3	2106.1	2204.7	2341.4	2518.2	2769.3	3090.3	3482.8	3973.0
65°	1788.8	1798.2	1843.7	1914.4	2001.9	2152.6	2347.0	2650.2	3067.9	3614.0	4289.3
66°	1703.3	1719.1	1747.0	1803.7	1887.5	2028.8	2224.2	2532.1	2983.3	3568.4	4281.0
67.5°	1569.3	1581.4	1600.0	1638.1	1689.3	1793.5	1978.6	2269.8	2724.7	3337.7	4103.3
70°	1268.8	1274.4	1299.5	1312.6	1330.2	1364.7	1431.6	1599.1	1953.5	2529.3	3311.6
72.5°	865.1	880.9	907.9	945.1	993.5	1040.0	1071.6	1093.0	1169.3	1508.8	2206.5
75°	634.4	651.2	685.6	734.9	819.5	916.3	1016.8	1063.3	1031.6	987.9	1228.8
77.5°	368.4	390.7	419.5	467.0	545.1	673.5	845.6	998.1	1101.4	1107.9	1052.1
80°	155.3	158.1	175.8	200.0	248.4	338.6	472.6	692.1	920.9	1075.4	1111.6
82.5°	35.3	43.7	55.8	66.0	80.9	111.6	165.6	275.4	497.7	780.5	1017.7
85°	13.0	13.0	17.7	26.0	29.8	33.5	43.7	69.8	119.1	219.5	457.7
87.5°	0.0	0.9	1.9	1.9	3.7	4.7	7.4	10.2	9.3	8.4	27.9
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	930.2	929.3	927.4	927.4	927.4	927.4	925.6	926.5	924.7	925.6	925.6
5°	929.3	929.3	928.4	926.5	927.4	927.4	928.4	926.5	926.5	927.4	926.5
7.5°	929.3	928.4	928.4	928.4	929.3	928.4	929.3	929.3	929.3	930.2	930.2
10°	929.3	929.3	931.2	932.1	932.1	933.0	935.8	935.8	936.7	937.7	939.5
12.5°	930.2	934.0	936.7	939.5	940.5	942.3	947.0	947.0	948.8	951.6	952.6
15°	931.2	936.7	942.3	944.2	946.1	949.8	954.4	956.3	959.1	961.9	963.7
17.5°	930.2	937.7	944.2	947.0	949.8	954.4	960.0	961.9	965.6	969.3	973.0
20°	929.3	939.5	949.8	953.5	957.2	963.7	971.2	975.8	979.5	985.1	988.8
22.5°	934.9	947.0	960.9	966.5	973.0	981.4	991.6	997.2	1001.9	1007.4	1010.2
25°	952.6	961.9	978.6	987.9	996.3	1010.2	1024.2	1030.7	1036.3	1040.9	1041.9
27.5°	982.3	985.1	1005.6	1017.7	1029.8	1052.1	1068.8	1073.5	1083.7	1087.4	1086.5
30°	1030.7	1026.1	1042.8	1061.4	1079.1	1109.8	1130.2	1142.3	1151.6	1151.6	1144.2
32.5°	1100.5	1093.0	1097.7	1119.1	1139.5	1184.2	1208.4	1224.2	1230.7	1228.8	1213.0
35°	1191.6	1187.0	1184.2	1200.9	1233.5	1285.6	1317.2	1325.6	1335.8	1334.0	1313.5
37.5°	1299.5	1295.8	1295.8	1315.4	1347.0	1424.2	1458.6	1464.2	1463.3	1448.4	1410.2
40°	1427.0	1425.1	1416.8	1427.9	1454.9	1555.4	1601.9	1609.3	1599.1	1574.9	1530.2
42.5°	1610.2	1599.1	1573.0	1579.5	1600.0	1697.7	1758.2	1778.6	1768.4	1744.2	1671.6
45°	1849.3	1837.2	1793.5	1787.9	1799.1	1884.7	1962.8	1967.5	1965.6	1934.9	1849.3
47.5°	2130.2	2111.6	2065.1	2050.2	2046.5	2125.6	2200.9	2208.4	2203.7	2158.2	2043.7
50°	2434.4	2407.5	2376.8	2366.5	2351.6	2408.4	2484.7	2485.6	2467.0	2403.7	2296.8
52.5°	2759.1	2749.8	2744.2	2734.0	2727.5	2776.8	2823.3	2795.4	2767.5	2701.4	2608.4
55°	3086.5	3124.7	3163.7	3167.5	3178.6	3231.6	3230.7	3154.4	3134.0	3097.7	3005.6
57.5°	3434.4	3575.8	3698.6	3736.8	3774.0	3872.6	3863.3	3787.9	3761.9	3717.2	3641.0
60°	3907.9	4289.3	4643.7	4728.4	4787.0	4905.1	4894.0	4777.7	4831.7	4827.9	4729.3
62.5°	4571.2	5205.6	5736.8	5867.0	5907.9	5921.0	5850.3	5724.7	5777.7	5837.2	5534.0
65°	5020.5	5766.5	6311.7	6412.1	6417.7	6262.4	6105.2	5957.2	5944.2	5893.1	5459.6
66°	5030.7	5794.5	6341.4	6439.1	6404.7	6192.6	5993.5	5844.7	5780.5	5667.9	5218.6
67.5°	4850.3	5620.5	6209.3	6312.6	6237.2	5936.8	5662.4	5470.7	5345.1	5162.8	4766.5
70°	4073.5	4837.2	5562.8	5755.4	5779.6	5331.2	4950.7	4725.6	4556.3	4306.1	3964.7
72.5°	3028.9	3719.1	4359.1	4543.3	4637.2	4279.1	3958.2	3787.0	3555.4	3292.1	3049.3
75°	1898.6	2386.1	2814.9	2944.2	2855.8	2578.6	2386.1	2314.4	2086.5	1929.3	1818.6
77.5°	1085.6	1238.1	1272.6	1223.3	1119.1	856.7	609.3	451.2	391.6	433.5	478.1
80°	1059.5	971.2	774.0	680.9	616.7	424.2	249.3	171.2	142.3	146.0	158.1
82.5°	1147.9	1231.6	1014.0	827.0	694.0	468.8	258.6	137.7	93.0	109.8	123.7
85°	746.1	1038.1	934.9	787.9	638.1	400.9	213.0	71.6	47.4	62.3	85.6
87.5°	75.3	82.8	70.7	95.8	71.6	33.5	16.7	10.2	9.3	11.2	16.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	926.5	926.5	927.4	928.4	929.3	930.2	930.2	930.2	930.2	932.1	931.2
5°	928.4	930.2	932.1	933.0	934.9	934.9	937.7	936.7	936.7	939.5	940.5
7.5°	932.1	934.9	938.6	937.7	941.4	940.5	942.3	942.3	939.5	940.5	938.6
10°	940.5	944.2	946.1	943.3	944.2	940.5	939.5	934.9	929.3	926.5	922.8
12.5°	954.4	958.1	958.1	953.5	947.9	939.5	933.0	922.8	914.4	909.8	905.1
15°	966.5	970.2	969.3	961.9	953.5	940.5	931.2	919.1	907.0	899.5	894.9
17.5°	975.8	977.7	974.9	964.7	955.4	943.3	934.0	920.9	907.0	897.7	889.3
20°	989.8	987.9	981.4	968.4	958.1	947.0	939.5	928.4	912.6	900.5	888.4
22.5°	1010.2	1002.8	990.7	976.8	966.5	956.3	948.8	936.7	920.9	906.1	892.1
25°	1037.2	1022.3	1005.6	990.7	981.4	970.2	961.9	948.8	932.1	915.4	898.6
27.5°	1076.3	1050.2	1028.8	1015.8	1005.6	991.6	981.4	964.7	947.0	927.4	908.8
30°	1120.0	1084.7	1064.2	1054.0	1042.8	1027.9	1012.1	990.7	970.2	948.8	926.5
32.5°	1176.8	1134.0	1114.4	1104.2	1089.3	1070.7	1052.1	1027.9	999.1	971.2	944.2
35°	1251.2	1207.4	1187.0	1171.2	1150.7	1126.5	1099.5	1067.0	1027.9	990.7	956.3
37.5°	1331.2	1283.7	1264.2	1247.4	1216.8	1185.1	1147.0	1099.5	1046.5	997.2	954.4
40°	1432.6	1388.8	1363.7	1334.9	1298.6	1243.7	1184.2	1115.4	1047.4	987.0	936.7
42.5°	1560.9	1517.2	1480.0	1434.4	1371.2	1286.5	1201.9	1112.6	1030.7	961.9	907.9
45°	1731.2	1678.1	1614.0	1534.0	1431.6	1313.5	1202.8	1094.9	999.1	922.8	865.1
47.5°	1939.5	1858.6	1753.5	1618.6	1471.6	1320.9	1187.9	1059.5	949.8	867.0	802.8
50°	2187.0	2059.5	1886.5	1688.4	1492.1	1309.8	1150.7	1006.5	880.0	791.6	715.4
52.5°	2469.8	2261.4	2006.5	1738.6	1491.2	1272.6	1087.4	926.5	788.8	690.2	617.7
55°	2801.9	2492.1	2130.2	1775.8	1465.1	1203.7	990.7	814.0	676.3	585.1	518.1
57.5°	3288.4	2866.1	2346.1	1833.5	1413.0	1097.7	859.5	679.1	558.1	471.6	414.9
60°	4177.7	3490.3	2734.9	1949.8	1333.0	942.3	706.1	534.9	433.5	363.7	325.6
62.5°	4847.5	3973.0	2945.1	1923.7	1172.1	750.7	523.7	389.8	319.1	271.6	247.4
65°	4751.7	3823.3	2720.9	1656.8	919.1	529.3	347.9	265.1	219.5	197.2	183.3
66°	4534.9	3627.9	2526.5	1491.2	794.4	440.0	286.5	222.3	188.8	173.0	163.7
67.5°	4123.7	3265.1	2178.6	1222.3	610.2	319.1	215.8	175.8	153.5	147.0	140.5
70°	3427.9	2603.7	1529.3	711.6	311.6	177.7	136.7	122.8	117.2	116.3	114.4
72.5°	2627.0	1842.8	900.5	336.7	161.9	118.1	106.0	101.4	99.5	99.5	100.5
75°	1610.2	1035.4	398.1	164.7	113.5	99.5	94.0	92.1	91.2	92.1	91.2
77.5°	537.7	329.3	170.2	124.7	103.3	92.1	88.4	86.5	86.5	86.5	86.5
80°	164.7	143.3	130.2	115.3	97.7	87.4	81.9	80.9	81.9	82.8	80.0
82.5°	123.7	117.2	109.8	102.3	88.4	78.1	76.3	76.3	76.3	73.5	69.8
85°	91.2	90.2	74.4	69.8	65.1	65.1	65.1	65.1	62.3	57.7	54.0
87.5°	16.7	15.8	16.7	17.7	26.0	27.9	27.9	29.8	32.6	30.7	30.7
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):

	160°	165°	170°	175°	180°
0°	927.4	927.4	927.4	927.4	927.4
2.5°	931.2	930.2	933.0	931.2	932.1
5°	939.5	938.6	940.5	938.6	941.4
7.5°	936.7	934.9	934.0	934.9	935.8
10°	917.2	915.4	914.4	913.5	914.4
12.5°	900.5	896.7	896.7	894.9	895.8
15°	888.4	885.6	884.7	882.8	883.7
17.5°	882.8	878.1	876.3	874.4	874.4
20°	879.1	873.5	870.7	868.8	867.9
22.5°	879.1	870.7	867.0	865.1	864.2
25°	882.8	872.6	867.0	864.2	863.3
27.5°	890.2	877.2	870.7	867.0	867.0
30°	903.3	886.5	877.2	872.6	871.6
32.5°	916.3	894.0	880.9	875.4	873.5
35°	922.8	894.0	878.1	868.8	867.0
37.5°	915.4	881.9	862.3	848.4	845.6
40°	892.1	856.7	835.4	822.3	820.5
42.5°	861.4	827.0	801.9	792.6	789.8
45°	819.5	778.6	753.5	740.5	741.4
47.5°	747.9	706.1	683.7	671.6	673.5
50°	663.3	622.3	602.8	589.8	592.6
52.5°	570.2	533.0	514.4	507.9	506.0
55°	472.6	443.7	430.7	423.3	420.5
57.5°	383.3	362.8	353.5	344.2	345.1
60°	302.3	292.1	289.3	279.1	278.1
62.5°	238.1	231.6	228.8	221.4	222.3
65°	180.5	178.6	180.5	175.8	177.7
66°	162.8	163.7	163.7	160.9	162.8
67.5°	140.5	142.3	145.1	142.3	144.2
70°	116.3	118.1	120.0	120.0	120.0
72.5°	101.4	103.3	104.2	104.2	104.2
75°	93.0	94.0	94.9	93.0	93.0
77.5°	87.4	87.4	85.6	84.7	83.7
80°	79.1	78.1	75.3	73.5	73.5
82.5°	66.0	64.2	62.3	59.5	59.5
85°	50.2	48.4	46.5	42.8	40.9
87.5°	26.0	27.0	26.0	21.4	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)