

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: P181644

Luminaire Tested: **ICM-F03-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181644
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F03-LED-E1-T4
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6962.2 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 IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

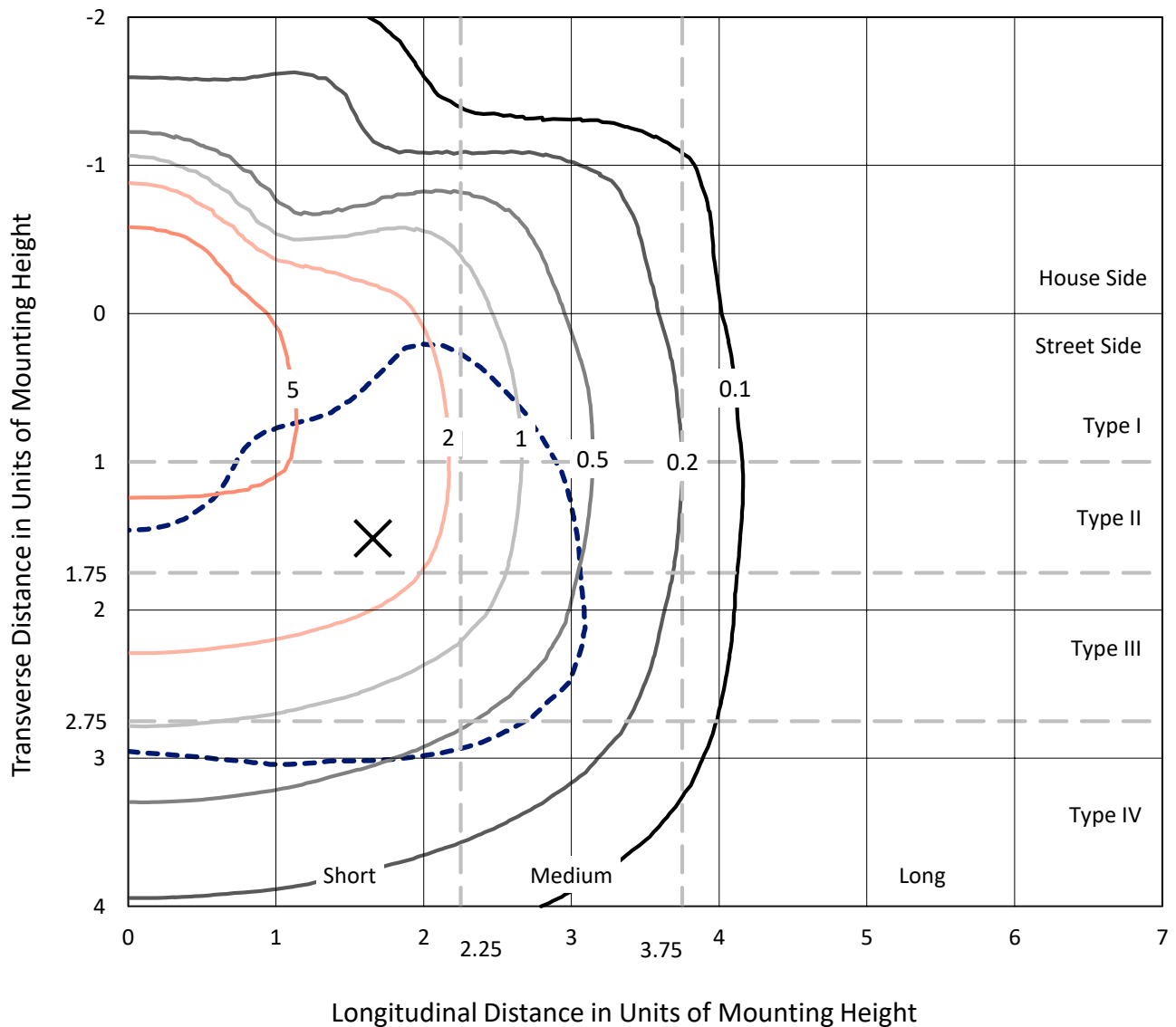
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

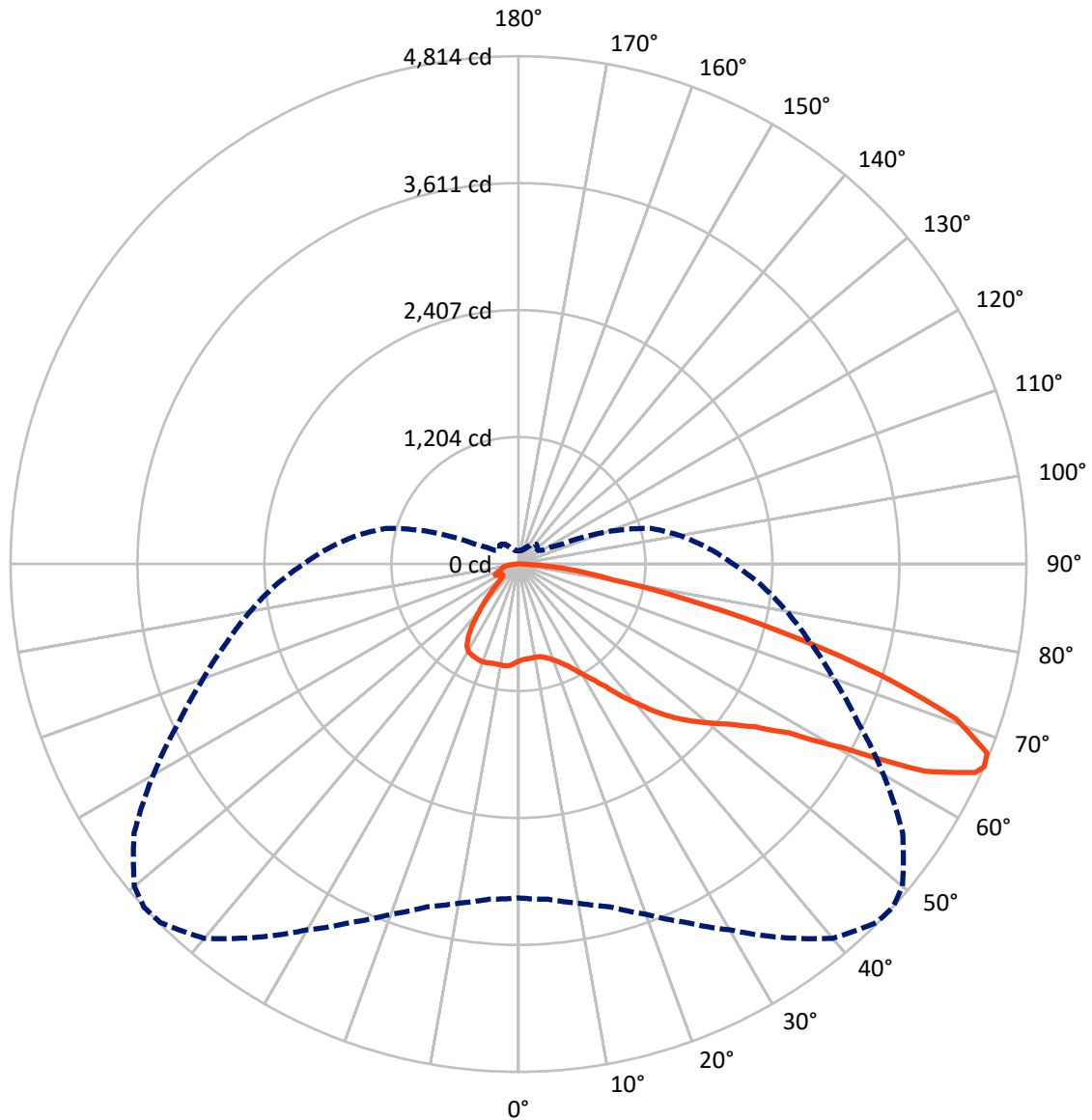
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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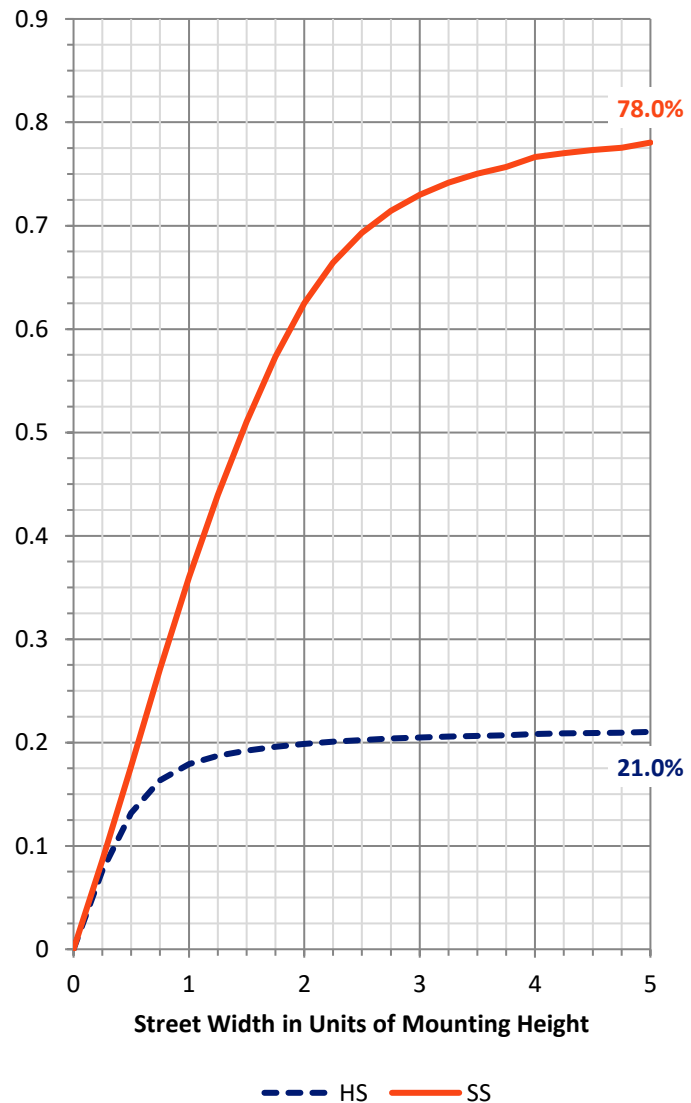
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1485.6	0.0	1485.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5476.6	0.0	5476.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	6962.2	0.0	6962.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	1.3
10°-20°	270.6	3.9
20°-30°	466.0	6.7
30°-40°	705.1	10.1
40°-50°	913.9	13.1
50°-60°	1259.9	18.1
60°-70°	1957.5	28.1
70°-80°	1138.3	16.3
80°-90°	161.9	2.3
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°	6962.2	100.0
0°-180°	6962.2	100.0

Coefficient of Utilization



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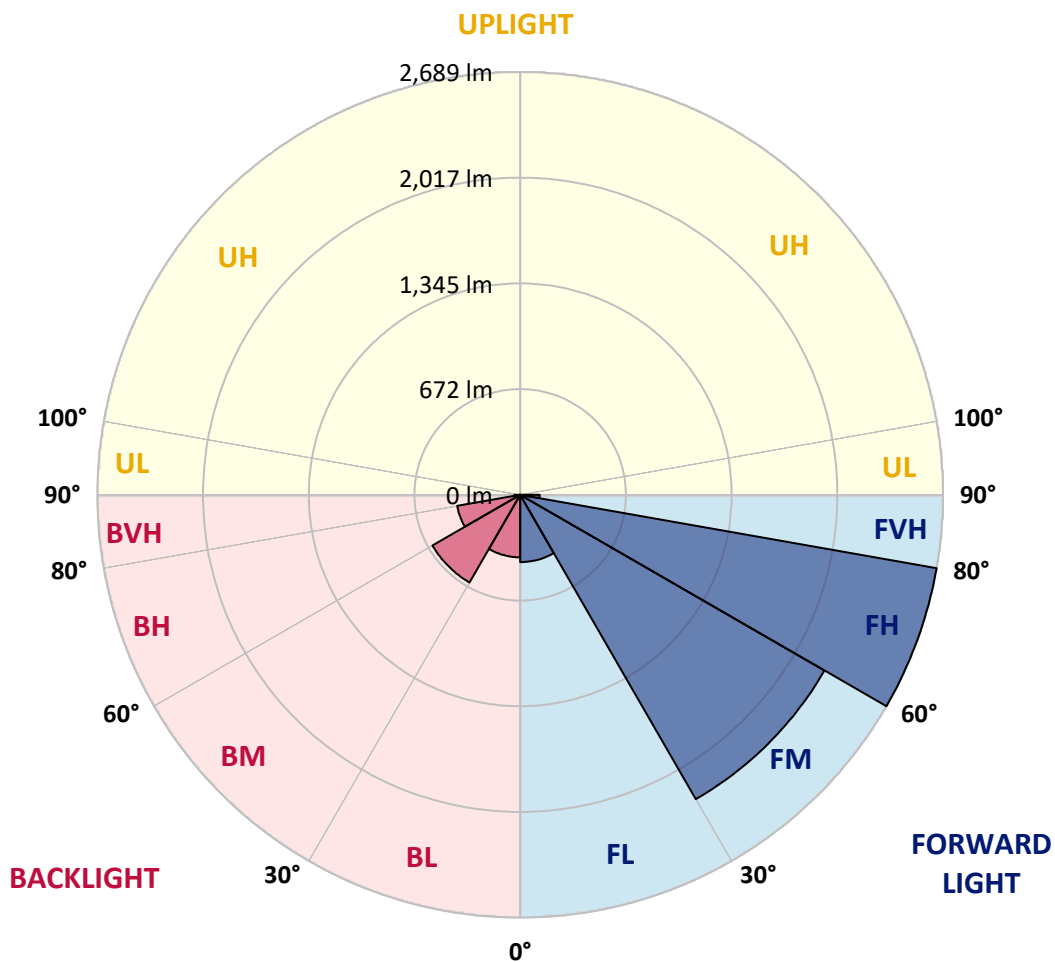
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.0	6.1			
FM	(30°-60°)	2234.9	32.1			
FH	(60°-80°)	2689.5	38.6			G2/5000
FVH	(80°-90°)	124.2	1.8			G2/225
BL	(0°-30°)	397.6	5.7	B1/500		
BM	(30°-60°)	644.0	9.2	B1/1000		
BH	(60°-80°)	406.3	5.8	B1/500		G1/500
BVH	(80°-90°)	37.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7
2.5°	900.7	903.8	901.6	902.3	902.3	903.1	903.1	903.8	903.1	905.4	906.9
5°	884.7	886.2	885.4	887.0	888.5	891.5	890.8	894.6	895.4	897.7	901.6
7.5°	878.5	876.9	877.8	880.1	881.6	883.2	884.7	887.7	890.1	895.4	898.5
10°	884.7	883.9	884.7	886.2	886.2	887.0	885.4	888.5	890.1	894.6	897.7
12.5°	910.0	910.0	908.5	908.5	906.9	905.4	901.6	899.3	898.5	899.3	900.7
15°	950.7	949.1	946.1	943.8	940.7	935.4	930.0	925.4	922.3	917.7	916.2
17.5°	990.6	988.4	985.2	982.1	978.3	972.9	964.6	959.2	950.7	945.3	942.2
20°	1036.8	1032.1	1028.3	1024.5	1016.8	1015.2	1006.8	997.6	987.5	975.3	973.8
22.5°	1096.6	1088.9	1084.3	1082.1	1074.3	1072.0	1058.2	1045.1	1032.8	1016.8	1012.9
25°	1157.3	1149.6	1147.3	1144.2	1138.9	1135.8	1122.7	1108.1	1092.0	1069.8	1065.1
27.5°	1216.4	1217.2	1211.1	1213.3	1211.8	1206.4	1193.4	1178.8	1166.5	1140.4	1135.0
30°	1290.1	1285.5	1282.4	1287.1	1281.7	1282.4	1270.9	1263.3	1243.3	1227.9	1217.2
32.5°	1366.9	1366.1	1370.8	1373.9	1373.0	1371.5	1362.3	1354.6	1336.9	1314.7	1310.1
35°	1472.1	1476.8	1480.6	1494.4	1494.4	1504.4	1495.2	1486.0	1465.2	1438.3	1429.1
37.5°	1543.5	1545.1	1560.5	1578.9	1601.9	1623.5	1629.6	1631.8	1623.5	1603.5	1589.6
40°	1608.8	1611.9	1636.5	1664.8	1698.7	1740.9	1766.2	1777.8	1780.1	1770.9	1740.9
42.5°	1674.1	1678.7	1704.0	1745.5	1792.4	1846.2	1890.6	1919.1	1935.2	1935.2	1917.5
45°	1750.2	1756.3	1783.9	1829.2	1883.7	1951.4	2012.8	2067.3	2093.4	2094.9	2078.1
47.5°	1840.0	1845.3	1877.6	1923.6	1979.7	2048.1	2125.7	2187.8	2236.2	2239.3	2225.5
50°	1955.9	1963.6	1990.5	2031.9	2089.6	2158.7	2236.2	2323.0	2373.7	2386.0	2371.4
52.5°	2109.5	2111.1	2133.3	2171.7	2227.7	2293.8	2376.0	2470.4	2537.2	2547.3	2523.5
55°	2321.5	2319.2	2333.8	2375.2	2417.5	2468.9	2554.2	2660.1	2734.6	2750.0	2725.4
57.5°	2609.4	2607.2	2619.5	2629.4	2708.5	2758.4	2842.2	2943.5	3015.6	3060.2	3018.0
60°	3055.6	3053.3	3073.3	3131.6	3190.8	3263.7	3345.1	3466.4	3567.8	3580.9	3539.4
62.5°	3378.9	3390.4	3434.2	3502.5	3622.3	3765.1	3914.2	4073.9	4282.0	4348.0	4328.1
65°	3266.1	3289.0	3349.7	3453.4	3613.1	3810.5	4043.9	4333.4	4612.2	4768.1	4763.5
66°	3164.7	3190.0	3264.5	3364.3	3533.2	3749.0	4004.0	4319.7	4631.4	4803.5	4814.2
67.5°	2980.4	3008.8	3081.7	3200.0	3364.3	3594.0	3868.1	4211.4	4563.8	4764.3	4792.7
70°	2621.7	2654.0	2707.0	2804.5	2966.5	3171.6	3460.3	3767.5	4136.9	4366.4	4401.1
72.5°	2191.6	2220.1	2279.3	2359.1	2491.9	2620.9	2847.5	3074.1	3338.3	3600.1	3574.7
75°	1573.5	1585.8	1621.1	1707.9	1779.3	1895.3	2077.2	2263.1	2443.5	2563.4	2580.3
77.5°	817.9	850.1	900.0	996.0	1073.6	1178.1	1296.3	1436.0	1568.1	1678.0	1648.0
80°	535.3	549.1	593.6	642.8	699.6	766.4	845.5	897.7	914.6	907.7	914.6
82.5°	308.7	334.0	393.2	430.8	473.0	496.1	559.1	619.0	652.7	610.5	595.2
85°	39.2	50.7	159.7	201.2	230.4	264.9	284.1	320.2	298.7	267.3	325.6
87.5°	8.5	7.7	10.8	23.1	23.8	20.0	37.7	39.9	24.6	12.3	15.3
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7
2.5°	908.5	909.2	910.8	913.0	914.6	916.2	917.7	920.0	921.5	923.1	926.1
5°	904.7	907.7	910.8	913.9	917.7	923.8	927.6	930.7	933.8	939.9	942.2
7.5°	902.3	907.7	912.3	917.7	923.8	929.2	936.1	939.9	944.6	948.4	953.0
10°	900.7	908.5	913.0	920.7	927.6	933.0	940.7	945.3	950.7	955.4	957.6
12.5°	903.8	907.7	912.3	920.0	928.5	936.1	944.6	948.4	953.0	956.8	957.6
15°	916.9	916.9	917.7	923.8	932.3	938.4	945.3	949.1	951.4	953.8	953.8
17.5°	940.7	935.4	931.5	932.3	937.7	941.5	945.3	945.3	943.8	943.0	941.5
20°	968.4	961.5	953.8	948.4	946.9	943.8	941.5	933.8	927.6	922.3	918.4
22.5°	1008.3	997.6	986.8	976.8	967.6	956.1	943.0	927.6	913.0	903.1	896.9
25°	1057.4	1049.0	1035.9	1020.6	1009.0	987.5	970.7	948.4	930.0	916.9	906.1
27.5°	1127.4	1117.3	1105.0	1091.3	1074.3	1050.5	1029.8	1003.7	981.4	962.2	948.4
30°	1214.1	1201.0	1191.8	1175.0	1163.4	1136.6	1115.8	1083.5	1040.6	1009.9	990.6
32.5°	1303.2	1288.6	1280.9	1267.8	1254.8	1238.7	1207.2	1157.3	1102.0	1052.1	1019.1
35°	1422.2	1406.9	1393.0	1381.5	1362.3	1332.4	1304.8	1244.8	1168.8	1098.9	1043.6
37.5°	1571.9	1546.6	1512.1	1482.9	1449.1	1406.1	1363.8	1302.4	1215.6	1125.0	1051.3
40°	1731.7	1687.2	1638.0	1583.5	1525.1	1462.9	1414.5	1352.3	1254.8	1147.3	1046.0
42.5°	1898.3	1827.6	1759.4	1682.5	1601.1	1527.5	1464.5	1396.1	1284.0	1153.4	1024.5
45°	2063.5	1984.4	1880.7	1780.1	1677.1	1585.8	1515.2	1438.3	1310.9	1155.7	996.0
47.5°	2200.1	2118.7	2000.5	1874.5	1752.4	1648.8	1565.8	1482.9	1347.0	1171.9	989.1
50°	2344.5	2245.4	2114.2	1965.1	1826.9	1711.0	1622.6	1536.7	1397.7	1213.3	1011.4
52.5°	2502.0	2388.3	2234.7	2068.0	1916.8	1787.0	1691.0	1602.7	1462.1	1271.7	1053.6
55°	2693.9	2554.9	2388.3	2200.1	2038.1	1894.5	1788.5	1684.1	1539.0	1340.8	1106.6
57.5°	2987.3	2816.8	2629.4	2415.2	2235.5	2065.8	1939.1	1818.4	1658.0	1443.7	1178.8
60°	3517.9	3335.9	3092.5	2832.9	2621.7	2423.6	2237.8	2088.0	1890.6	1646.4	1338.5
62.5°	4278.2	4036.3	3711.5	3348.2	3071.7	2786.1	2576.4	2353.7	2108.8	1845.3	1526.6
65°	4700.5	4407.2	3972.5	3550.9	3195.4	2885.1	2618.6	2360.7	2088.8	1836.9	1570.4
66°	4752.8	4447.1	3995.6	3551.7	3178.4	2859.8	2579.5	2312.3	2034.2	1793.9	1552.0
67.5°	4731.3	4418.7	3953.3	3484.9	3105.5	2763.0	2473.5	2196.3	1919.1	1694.8	1490.5
70°	4378.7	4082.4	3625.4	3171.6	2811.4	2473.5	2197.0	1924.5	1670.2	1478.2	1327.7
72.5°	3636.2	3382.7	2985.7	2629.4	2346.8	2068.0	1833.9	1573.5	1358.5	1216.4	1127.4
75°	2624.8	2471.2	2109.5	1905.2	1657.2	1472.1	1244.8	1090.4	936.1	867.0	851.6
77.5°	1658.0	1451.4	1221.8	1006.0	827.1	685.8	533.7	453.1	377.9	370.1	447.0
80°	839.4	755.6	582.1	463.8	390.1	315.6	249.6	188.9	132.1	159.0	190.4
82.5°	549.9	458.4	359.4	295.6	257.3	213.5	165.9	115.2	84.5	95.3	130.5
85°	297.2	253.4	204.3	161.3	130.5	116.7	78.3	55.3	54.5	58.3	74.5
87.5°	21.5	21.5	16.9	15.3	18.4	15.3	13.9	13.9	13.0	13.9	18.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7	917.7
2.5°	927.6	930.0	930.7	934.6	936.8	938.4	939.9	939.9	940.7	943.0	943.8
5°	945.3	949.1	953.8	956.8	958.4	963.0	964.6	964.6	966.1	969.1	971.4
7.5°	956.1	961.5	966.1	967.6	970.7	972.2	974.5	976.0	976.0	979.1	980.7
10°	959.9	963.0	967.6	967.6	970.7	970.7	972.9	973.8	973.8	976.8	979.1
12.5°	959.9	961.5	965.3	965.3	967.6	968.4	971.4	973.8	974.5	978.3	981.4
15°	955.4	956.8	959.9	960.7	966.1	969.1	976.0	980.7	980.7	984.5	986.1
17.5°	942.2	946.1	952.3	958.4	968.4	975.3	983.7	987.5	984.5	982.1	979.9
20°	920.7	927.6	942.2	957.6	975.3	984.5	989.1	985.2	974.5	963.7	956.8
22.5°	899.3	913.0	937.7	960.7	980.7	986.8	984.5	970.7	953.0	939.9	930.7
25°	909.2	925.4	949.1	969.9	983.0	981.4	972.2	953.0	933.8	916.9	901.6
27.5°	950.7	968.4	981.4	988.4	986.8	976.0	961.5	939.9	916.9	894.6	873.1
30°	989.9	999.1	1002.1	996.8	984.5	966.8	948.4	923.8	893.1	865.5	840.8
32.5°	1007.5	998.3	983.7	969.1	949.1	933.8	908.5	881.6	843.2	810.1	785.6
35°	1007.5	970.7	933.8	903.1	873.1	854.0	824.7	788.7	753.3	725.7	706.5
37.5°	985.2	914.6	854.0	804.0	766.4	745.7	701.9	669.7	639.7	630.5	618.1
40°	944.6	840.1	752.6	687.3	639.7	608.9	565.2	542.9	531.4	526.8	524.5
42.5°	890.1	757.2	640.5	559.8	508.4	473.8	444.7	430.8	430.0	429.3	429.3
45°	831.6	668.1	531.4	435.4	390.1	359.4	345.6	340.2	344.8	344.0	344.8
47.5°	795.5	600.6	431.5	329.5	294.9	274.9	268.0	270.3	274.1	272.7	272.7
50°	791.0	566.0	364.7	256.5	230.4	220.4	218.9	218.9	221.2	219.6	218.9
52.5°	807.9	560.6	330.2	220.4	199.6	191.3	189.7	188.9	188.2	183.5	179.7
55°	837.0	572.8	320.2	211.2	189.7	180.5	178.1	176.7	173.6	167.4	160.5
57.5°	895.4	611.3	329.5	215.8	192.7	185.1	182.8	182.8	176.7	166.6	156.7
60°	1035.9	708.8	367.1	233.5	207.4	199.6	201.2	200.5	191.3	176.7	161.3
62.5°	1217.2	836.3	416.2	258.0	225.8	224.3	231.9	230.4	215.0	192.7	170.5
65°	1300.8	896.2	430.0	263.4	229.6	236.6	251.9	250.3	231.2	200.5	172.0
66°	1302.4	896.2	423.9	258.8	224.3	232.7	248.0	247.3	228.1	197.4	168.9
67.5°	1270.9	871.6	406.2	249.6	213.5	219.6	233.5	232.7	215.0	189.7	162.8
70°	1152.7	780.2	360.9	233.5	198.9	195.8	200.5	197.4	185.9	168.2	149.8
72.5°	987.5	655.1	314.9	221.2	188.9	176.7	173.6	171.3	162.0	152.1	140.6
75°	778.0	518.3	276.5	211.9	179.7	163.5	158.2	155.2	149.0	142.0	132.8
77.5°	480.0	370.9	241.1	199.6	172.7	156.7	152.8	148.2	139.0	130.5	123.6
80°	214.2	229.6	198.1	174.3	154.3	139.7	133.6	126.7	117.5	112.1	108.3
82.5°	142.8	148.2	143.6	130.5	116.7	105.2	96.0	96.0	94.4	89.9	88.3
85°	91.3	92.2	89.1	80.7	75.3	68.4	64.5	65.3	68.4	67.5	66.8
87.5°	20.7	20.7	24.6	23.1	26.9	28.4	30.7	33.0	37.7	37.7	39.9
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):

	160°	165°	170°	175°	180°
0°	917.7	917.7	917.7	917.7	917.7
2.5°	944.6	946.1	947.6	945.3	946.1
5°	971.4	970.7	974.5	972.2	973.8
7.5°	979.9	980.7	983.7	983.7	984.5
10°	980.7	982.1	986.1	988.4	989.9
12.5°	984.5	987.5	993.7	995.3	995.3
15°	987.5	989.1	992.9	994.5	996.0
17.5°	976.8	973.8	975.3	976.0	975.3
20°	950.0	946.9	946.1	943.0	944.6
22.5°	920.7	912.3	906.9	900.7	900.7
25°	885.4	872.4	861.6	850.9	853.2
27.5°	852.4	835.5	824.7	817.9	816.3
30°	820.2	802.5	792.5	784.1	784.1
32.5°	766.4	754.1	741.0	735.7	734.9
35°	691.9	684.2	673.5	671.2	667.4
37.5°	608.2	605.9	596.7	595.9	592.1
40°	520.7	522.2	519.2	517.6	515.3
42.5°	433.1	440.8	439.3	438.5	436.9
45°	349.4	354.8	355.5	357.9	361.7
47.5°	274.9	276.5	278.0	277.2	278.0
50°	215.0	211.2	210.4	208.1	210.4
52.5°	173.6	167.4	164.4	161.3	159.7
55°	152.8	146.7	143.6	142.0	140.6
57.5°	147.4	141.3	136.7	133.6	132.8
60°	149.0	139.7	133.6	129.8	129.0
62.5°	152.8	140.6	132.1	128.3	127.4
65°	152.1	139.0	131.3	126.7	126.0
66°	149.8	137.5	129.8	126.0	125.2
67.5°	145.9	135.2	128.3	125.2	123.6
70°	139.0	132.1	126.7	122.9	121.3
72.5°	132.8	127.4	122.9	119.1	118.2
75°	126.0	121.3	116.7	113.7	112.9
77.5°	117.5	112.9	109.9	107.5	106.7
80°	103.6	100.6	97.5	94.4	94.4
82.5°	86.0	83.7	80.7	78.3	77.6
85°	66.0	66.0	63.7	61.4	60.7
87.5°	39.2	38.4	38.4	36.1	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)