

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: P181643

Luminaire Tested: **ICM-F03-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181643
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-T4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6358.9 lumens
Efficiency: N/A
Efficacy: 81.2 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 (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

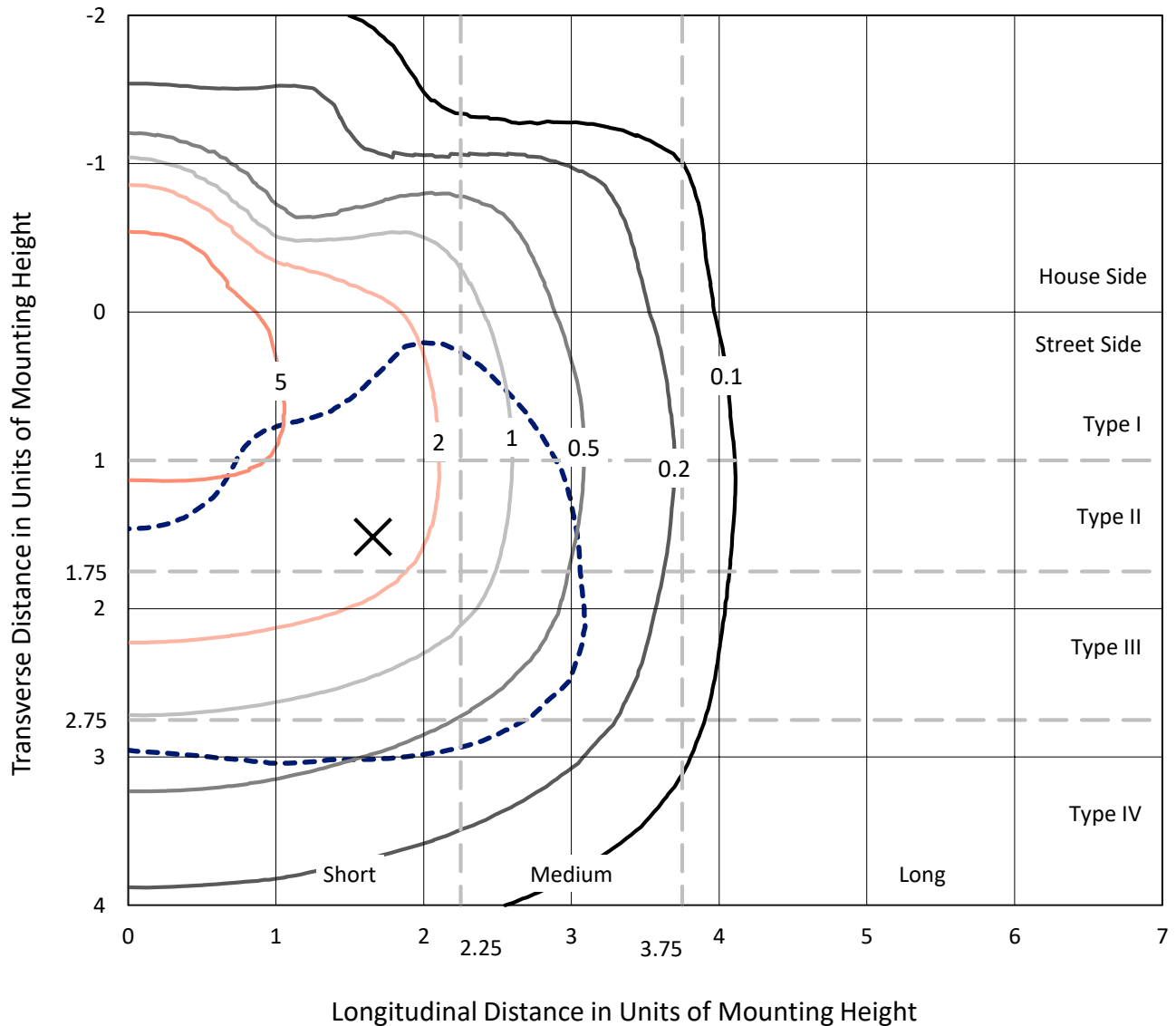


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

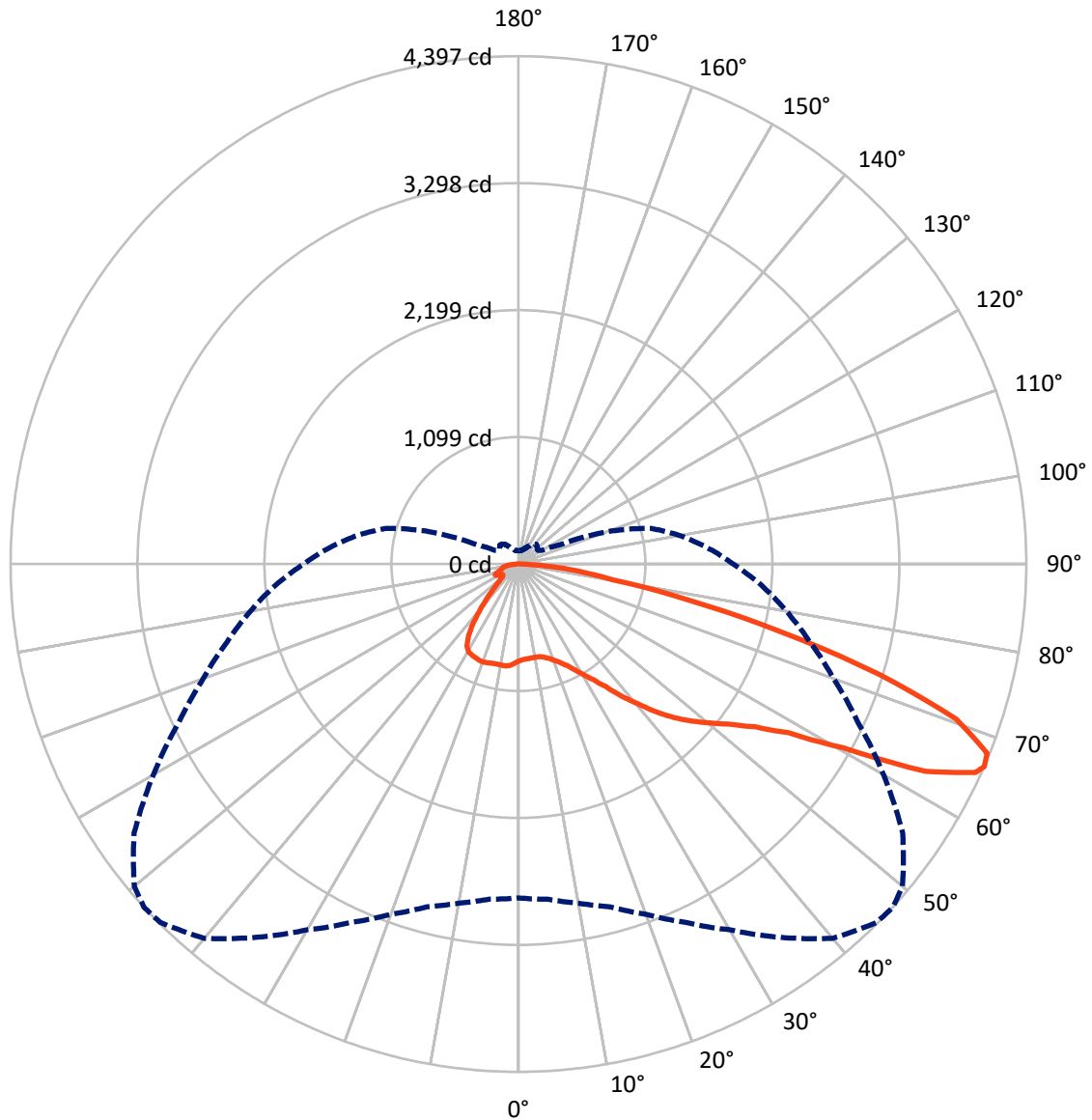


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Semi-Cutoff

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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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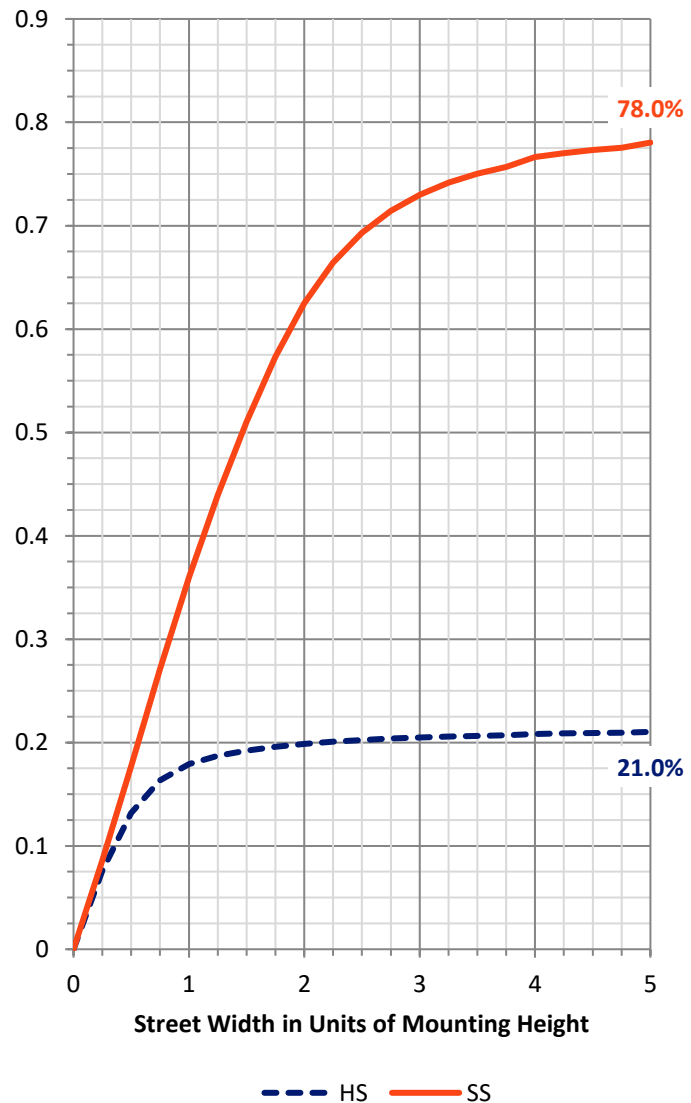
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1356.8	0.0	1356.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5002.1	0.0	5002.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	6358.9	0.0	6358.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	1.3
10°-20°	247.1	3.9
20°-30°	425.6	6.7
30°-40°	644.0	10.1
40°-50°	834.7	13.1
50°-60°	1150.8	18.1
60°-70°	1787.9	28.1
70°-80°	1039.7	16.3
80°-90°	147.8	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°	6358.9	100.0
0°-180°	6358.9	100.0



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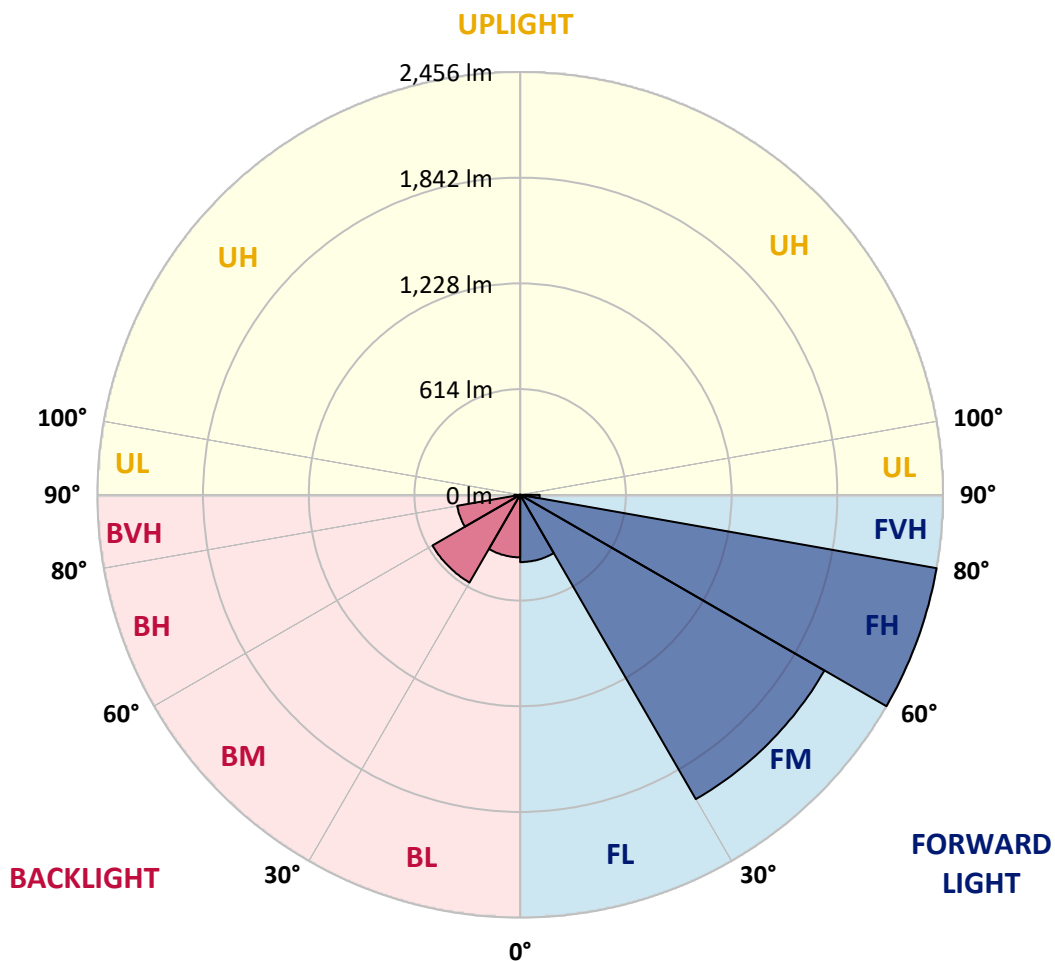
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.0	6.1			
FM	(30°-60°)	2041.2	32.1			
FH	(60°-80°)	2456.5	38.6			G2/5000
FVH	(80°-90°)	113.5	1.8			G2/225
BL	(0°-30°)	363.2	5.7	B1/500		
BM	(30°-60°)	588.2	9.2	B1/1000		
BH	(60°-80°)	371.1	5.8	B1/500		G1/500
BVH	(80°-90°)	34.4	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°	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1
2.5°	822.7	825.6	823.4	824.1	824.1	824.8	824.8	825.6	824.8	827.0	828.4
5°	808.0	809.4	808.7	810.1	811.5	814.3	813.6	817.1	817.9	819.9	823.4
7.5°	802.4	801.0	801.7	803.8	805.2	806.6	808.0	810.8	812.9	817.9	820.7
10°	808.0	807.3	808.0	809.4	809.4	810.1	808.7	811.5	812.9	817.1	819.9
12.5°	831.2	831.2	829.8	829.8	828.4	827.0	823.4	821.3	820.7	821.3	822.7
15°	868.3	866.9	864.1	862.1	859.2	854.3	849.4	845.2	842.3	838.1	836.7
17.5°	904.8	902.7	899.9	897.1	893.6	888.7	880.9	876.0	868.3	863.4	860.6
20°	946.9	942.7	939.2	935.6	928.7	927.3	919.5	911.1	902.0	890.8	889.4
22.5°	1001.6	994.6	990.3	988.3	981.2	979.2	966.5	954.6	943.4	928.7	925.1
25°	1057.0	1050.0	1047.9	1045.1	1040.2	1037.4	1025.4	1012.1	997.4	977.0	972.8
27.5°	1111.0	1111.7	1106.1	1108.2	1106.8	1101.9	1090.0	1076.7	1065.4	1041.6	1036.7
30°	1178.3	1174.1	1171.4	1175.5	1170.6	1171.4	1160.8	1153.8	1135.5	1121.5	1111.7
32.5°	1248.5	1247.8	1252.0	1254.8	1254.1	1252.7	1244.3	1237.2	1221.1	1200.8	1196.6
35°	1344.6	1348.8	1352.3	1364.9	1364.9	1374.1	1365.6	1357.2	1338.2	1313.7	1305.3
37.5°	1409.8	1411.2	1425.2	1442.1	1463.1	1482.7	1488.4	1490.4	1482.7	1464.5	1451.9
40°	1469.4	1472.2	1494.7	1520.7	1551.5	1590.1	1613.2	1623.7	1625.9	1617.4	1590.1
42.5°	1529.0	1533.2	1556.4	1594.2	1637.0	1686.1	1726.8	1752.8	1767.5	1767.5	1751.4
45°	1598.5	1604.1	1629.3	1670.7	1720.5	1782.2	1838.3	1888.2	1912.0	1913.4	1898.0
47.5°	1680.6	1685.4	1714.9	1757.0	1808.2	1870.6	1941.5	1998.2	2042.4	2045.2	2032.7
50°	1786.4	1793.5	1818.1	1855.9	1908.5	1971.6	2042.4	2121.7	2168.0	2179.3	2165.9
52.5°	1926.7	1928.1	1948.5	1983.5	2034.7	2095.1	2170.2	2256.4	2317.4	2326.5	2304.8
55°	2120.3	2118.2	2131.5	2169.4	2208.0	2255.0	2332.9	2429.6	2497.7	2511.7	2489.2
57.5°	2383.4	2381.2	2392.5	2401.6	2473.8	2519.4	2595.8	2688.5	2754.3	2795.1	2756.5
60°	2790.8	2788.8	2807.0	2860.3	2914.3	2980.9	3055.3	3166.1	3258.7	3270.6	3232.8
62.5°	3086.2	3096.7	3136.7	3199.1	3308.5	3438.9	3575.0	3720.9	3911.0	3971.3	3953.0
65°	2983.0	3004.1	3059.5	3154.2	3300.0	3480.3	3693.5	3958.0	4212.6	4354.9	4350.7
66°	2890.4	2913.6	2981.6	3072.8	3227.1	3424.2	3657.0	3945.3	4230.1	4387.2	4397.1
67.5°	2722.1	2748.0	2814.7	2922.7	3072.8	3282.5	3533.0	3846.4	4168.4	4351.5	4377.4
70°	2394.5	2424.0	2472.4	2561.5	2709.5	2896.8	3160.5	3441.0	3778.4	3988.1	4019.7
72.5°	2001.8	2027.7	2081.8	2154.7	2276.0	2393.9	2600.8	2807.6	3048.9	3288.1	3265.0
75°	1437.1	1448.4	1480.7	1559.9	1625.1	1731.1	1897.3	2067.0	2231.8	2341.2	2356.7
77.5°	747.0	776.5	822.1	909.7	980.6	1075.9	1183.9	1311.6	1432.3	1532.6	1505.2
80°	488.8	501.5	542.1	587.1	639.0	700.0	772.2	819.9	835.4	829.0	835.4
82.5°	282.0	305.1	359.1	393.5	432.1	453.1	510.6	565.3	596.2	557.6	543.5
85°	35.8	46.3	145.9	183.7	210.4	242.0	259.5	292.5	272.8	244.1	297.4
87.5°	7.7	7.0	9.9	21.0	21.8	18.2	34.3	36.5	22.4	11.3	14.0
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°	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1
2.5°	829.8	830.4	831.8	834.0	835.4	836.7	838.1	840.3	841.7	843.1	845.9
5°	826.2	829.0	831.8	834.7	838.1	843.8	847.3	850.1	852.9	858.5	860.6
7.5°	824.1	829.0	833.2	838.1	843.8	848.7	855.0	858.5	862.7	866.2	870.4
10°	822.7	829.8	834.0	840.9	847.3	852.2	859.2	863.4	868.3	872.6	874.6
12.5°	825.6	829.0	833.2	840.3	848.0	855.0	862.7	866.2	870.4	874.0	874.6
15°	837.5	837.5	838.1	843.8	851.4	857.1	863.4	866.9	869.0	871.2	871.2
17.5°	859.2	854.3	850.8	851.4	856.4	859.9	863.4	863.4	862.1	861.3	859.9
20°	884.5	878.1	871.2	866.2	864.8	862.1	859.9	852.9	847.3	842.3	838.9
22.5°	920.9	911.1	901.3	892.2	883.7	873.2	861.3	847.3	834.0	824.8	819.3
25°	965.8	958.1	946.1	932.2	921.6	902.0	886.5	866.2	849.4	837.5	827.6
27.5°	1029.7	1020.6	1009.3	996.7	981.2	959.5	940.6	916.7	896.4	878.9	866.2
30°	1108.9	1096.9	1088.6	1073.1	1062.6	1038.1	1019.2	989.7	950.4	922.3	904.8
32.5°	1190.2	1176.9	1170.0	1158.0	1146.1	1131.4	1102.6	1057.0	1006.5	960.9	930.7
35°	1299.0	1284.9	1272.3	1261.8	1244.3	1216.9	1191.6	1136.9	1067.5	1003.7	953.2
37.5°	1435.7	1412.6	1381.0	1354.4	1323.5	1284.3	1245.7	1189.6	1110.3	1027.5	960.2
40°	1581.7	1540.9	1496.1	1446.2	1392.9	1336.2	1292.0	1235.2	1146.1	1047.9	955.3
42.5°	1733.9	1669.3	1606.9	1536.8	1462.4	1395.1	1337.6	1275.2	1172.8	1053.5	935.6
45°	1884.7	1812.4	1717.7	1625.9	1531.8	1448.4	1383.8	1313.7	1197.3	1055.6	909.7
47.5°	2009.5	1935.2	1827.2	1712.1	1600.6	1505.9	1430.1	1354.4	1230.2	1070.3	903.4
50°	2141.3	2050.9	1930.9	1794.9	1668.7	1562.7	1482.1	1403.5	1276.6	1108.2	923.7
52.5°	2285.1	2181.3	2041.0	1888.8	1750.7	1632.1	1544.5	1463.8	1335.5	1161.5	962.3
55°	2460.5	2333.5	2181.3	2009.5	1861.5	1730.3	1633.6	1538.1	1405.6	1224.7	1010.7
57.5°	2728.4	2572.7	2401.6	2205.9	2041.8	1886.7	1771.0	1660.9	1514.3	1318.6	1076.7
60°	3213.0	3046.8	2824.5	2587.5	2394.5	2213.6	2043.8	1907.1	1726.8	1503.8	1222.5
62.5°	3907.5	3686.5	3389.9	3058.1	2805.6	2544.7	2353.1	2149.8	1926.1	1685.4	1394.3
65°	4293.2	4025.3	3628.3	3243.3	2918.5	2635.2	2391.7	2156.1	1907.8	1677.8	1434.3
66°	4341.0	4061.8	3649.3	3243.9	2903.1	2612.0	2356.0	2111.9	1858.0	1638.4	1417.5
67.5°	4321.3	4035.8	3610.8	3182.9	2836.4	2523.6	2259.2	2006.0	1752.8	1548.0	1361.4
70°	3999.4	3728.6	3311.3	2896.8	2567.8	2259.2	2006.7	1757.7	1525.5	1350.1	1212.8
72.5°	3321.1	3089.6	2727.0	2401.6	2143.5	1888.8	1674.9	1437.1	1240.8	1111.0	1029.7
75°	2397.3	2257.1	1926.7	1740.2	1513.6	1344.6	1136.9	996.0	855.0	791.9	777.9
77.5°	1514.3	1325.6	1115.9	918.8	755.4	626.3	487.4	413.9	345.1	338.0	408.2
80°	766.6	690.1	531.6	423.6	356.3	288.3	227.9	172.6	120.7	145.2	174.0
82.5°	502.2	418.7	328.3	270.0	235.0	195.0	151.5	105.2	77.1	87.0	119.3
85°	271.4	231.4	186.6	147.3	119.3	106.6	71.5	50.5	49.8	53.3	68.0
87.5°	19.6	19.6	15.4	14.0	16.8	14.0	12.7	12.7	11.9	12.7	16.8
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1	838.1
2.5°	847.3	849.4	850.1	853.6	855.7	857.1	858.5	858.5	859.2	861.3	862.1
5°	863.4	866.9	871.2	874.0	875.4	879.5	880.9	880.9	882.3	885.1	887.3
7.5°	873.2	878.1	882.3	883.7	886.5	888.0	890.1	891.4	891.4	894.2	895.6
10°	876.7	879.5	883.7	883.7	886.5	886.5	888.7	889.4	889.4	892.2	894.2
12.5°	876.7	878.1	881.7	881.7	883.7	884.5	887.3	889.4	890.1	893.6	896.4
15°	872.6	874.0	876.7	877.4	882.3	885.1	891.4	895.6	895.6	899.2	900.6
17.5°	860.6	864.1	869.8	875.4	884.5	890.8	898.5	902.0	899.2	897.1	895.0
20°	840.9	847.3	860.6	874.6	890.8	899.2	903.4	899.9	890.1	880.3	874.0
22.5°	821.3	834.0	856.4	877.4	895.6	901.3	899.2	886.5	870.4	858.5	850.1
25°	830.4	845.2	866.9	885.9	897.8	896.4	888.0	870.4	852.9	837.5	823.4
27.5°	868.3	884.5	896.4	902.7	901.3	891.4	878.1	858.5	837.5	817.1	797.5
30°	904.1	912.5	915.4	910.4	899.2	883.1	866.2	843.8	815.7	790.5	768.0
32.5°	920.2	911.8	898.5	885.1	866.9	852.9	829.8	805.2	770.1	740.0	717.5
35°	920.2	886.5	852.9	824.8	797.5	779.9	753.3	720.4	688.1	662.8	645.3
37.5°	899.9	835.4	779.9	734.3	700.0	681.0	641.1	611.6	584.3	575.8	564.7
40°	862.7	767.4	687.4	627.7	584.3	556.2	516.2	495.9	485.4	481.1	479.1
42.5°	812.9	691.5	584.9	511.4	464.3	432.7	406.1	393.5	392.7	392.1	392.1
45°	759.6	610.2	485.4	397.7	356.3	328.3	315.6	310.7	314.9	314.2	314.9
47.5°	726.6	548.5	394.1	300.9	269.3	251.1	244.7	246.9	250.4	249.0	249.0
50°	722.4	516.9	333.1	234.2	210.4	201.3	199.9	199.9	202.0	200.6	199.9
52.5°	737.9	512.0	301.6	201.3	182.3	174.6	173.2	172.6	171.8	167.6	164.1
55°	764.6	523.3	292.5	192.8	173.2	164.8	162.7	161.3	158.5	152.9	146.6
57.5°	817.9	558.3	300.9	197.1	176.1	169.0	167.0	167.0	161.3	152.2	143.1
60°	946.1	647.4	335.3	213.2	189.4	182.3	183.7	183.1	174.6	161.3	147.3
62.5°	1111.7	763.8	380.2	235.6	206.2	204.8	211.8	210.4	196.4	176.1	155.7
65°	1188.2	818.5	392.7	240.6	209.7	216.0	230.0	228.7	211.2	183.1	157.1
66°	1189.6	818.5	387.2	236.4	204.8	212.6	226.5	225.9	208.3	180.3	154.3
67.5°	1160.8	796.1	371.1	227.9	195.0	200.6	213.2	212.6	196.4	173.2	148.7
70°	1052.8	712.7	329.7	213.2	181.7	178.9	183.1	180.3	169.8	153.6	136.7
72.5°	902.0	598.3	287.5	202.0	172.6	161.3	158.5	156.4	148.0	138.9	128.4
75°	710.5	473.4	252.5	193.6	164.1	149.4	144.5	141.7	136.1	129.8	121.3
77.5°	438.3	338.8	220.3	182.3	157.8	143.1	139.5	135.3	127.0	119.3	112.9
80°	195.7	209.7	180.9	159.3	141.0	127.6	122.0	115.7	107.3	102.4	98.9
82.5°	130.4	135.3	131.2	119.3	106.6	96.1	87.6	87.6	86.2	82.0	80.7
85°	83.4	84.2	81.4	73.7	68.7	62.4	58.9	59.6	62.4	61.8	61.0
87.5°	19.0	19.0	22.4	21.0	24.6	26.0	28.1	30.1	34.3	34.3	36.5
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):

	160°	165°	170°	175°	180°
0°	838.1	838.1	838.1	838.1	838.1
2.5°	862.7	864.1	865.5	863.4	864.1
5°	887.3	886.5	890.1	888.0	889.4
7.5°	895.0	895.6	898.5	898.5	899.2
10°	895.6	897.1	900.6	902.7	904.1
12.5°	899.2	902.0	907.6	909.0	909.0
15°	902.0	903.4	906.9	908.3	909.7
17.5°	892.2	889.4	890.8	891.4	890.8
20°	867.6	864.8	864.1	861.3	862.7
22.5°	840.9	833.2	828.4	822.7	822.7
25°	808.7	796.7	787.0	777.1	779.3
27.5°	778.5	763.1	753.3	747.0	745.6
30°	749.1	732.9	723.8	716.1	716.1
32.5°	700.0	688.7	676.8	671.9	671.3
35°	631.9	624.9	615.2	613.0	609.5
37.5°	555.5	553.4	545.0	544.3	540.7
40°	475.5	476.9	474.1	472.7	470.6
42.5°	395.6	402.6	401.2	400.5	399.1
45°	319.2	324.0	324.7	326.9	330.3
47.5°	251.1	252.5	253.9	253.2	253.9
50°	196.4	192.8	192.2	190.0	192.2
52.5°	158.5	152.9	150.1	147.3	145.9
55°	139.5	134.0	131.2	129.8	128.4
57.5°	134.7	129.0	124.8	122.0	121.3
60°	136.1	127.6	122.0	118.5	117.9
62.5°	139.5	128.4	120.7	117.1	116.5
65°	138.9	127.0	119.9	115.7	115.1
66°	136.7	125.6	118.5	115.1	114.3
67.5°	133.3	123.4	117.1	114.3	112.9
70°	127.0	120.7	115.7	112.2	110.8
72.5°	121.3	116.5	112.2	108.7	108.0
75°	115.1	110.8	106.6	103.8	103.1
77.5°	107.3	103.1	100.3	98.2	97.5
80°	94.7	91.9	89.1	86.2	86.2
82.5°	78.5	76.5	73.7	71.5	70.9
85°	60.3	60.3	58.2	56.1	55.4
87.5°	35.8	35.1	35.1	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)