

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: P181629

Luminaire Tested: **ICM-E02-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181629
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-E02-LED-E1-T4
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5622.4 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 IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

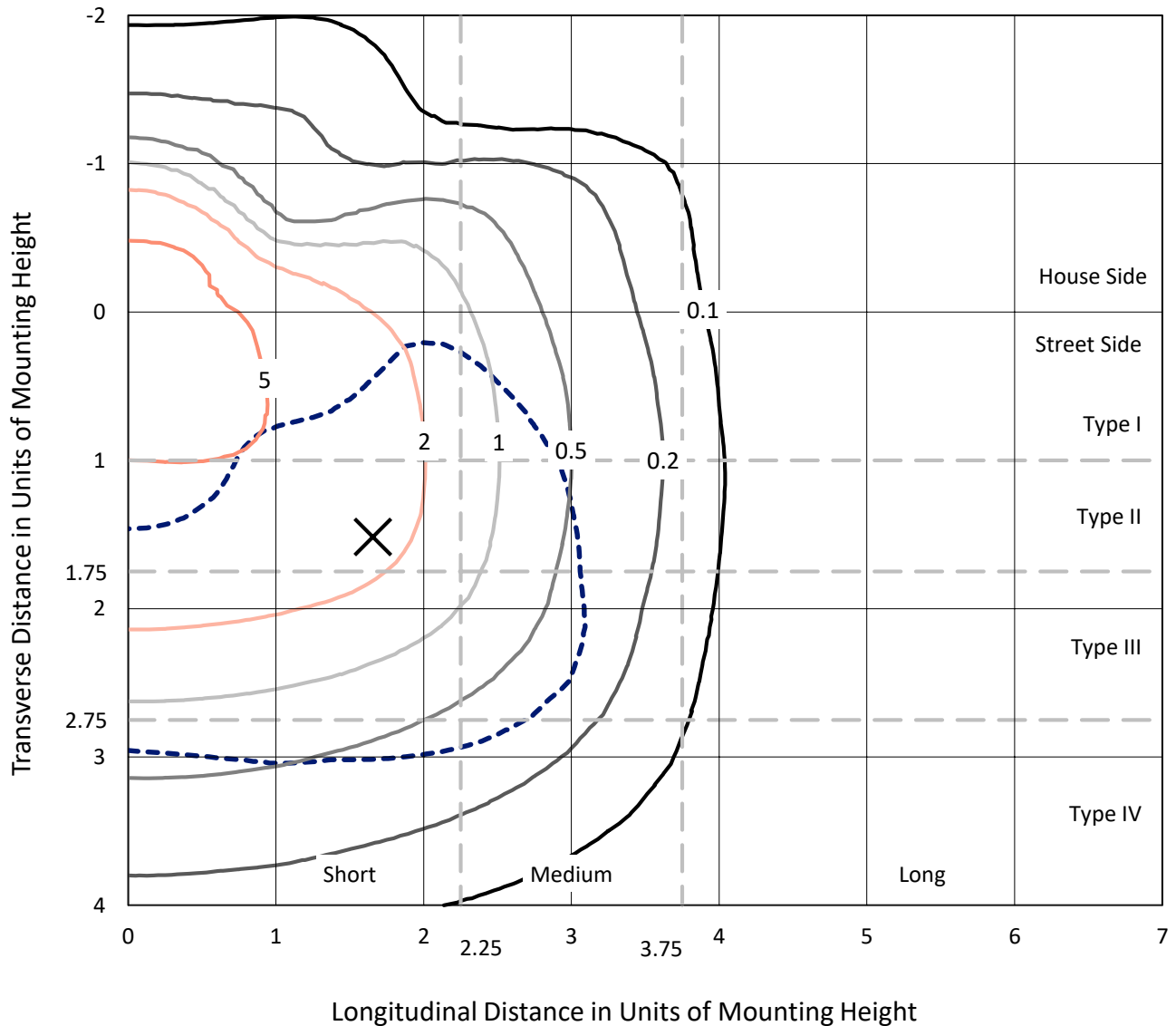
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

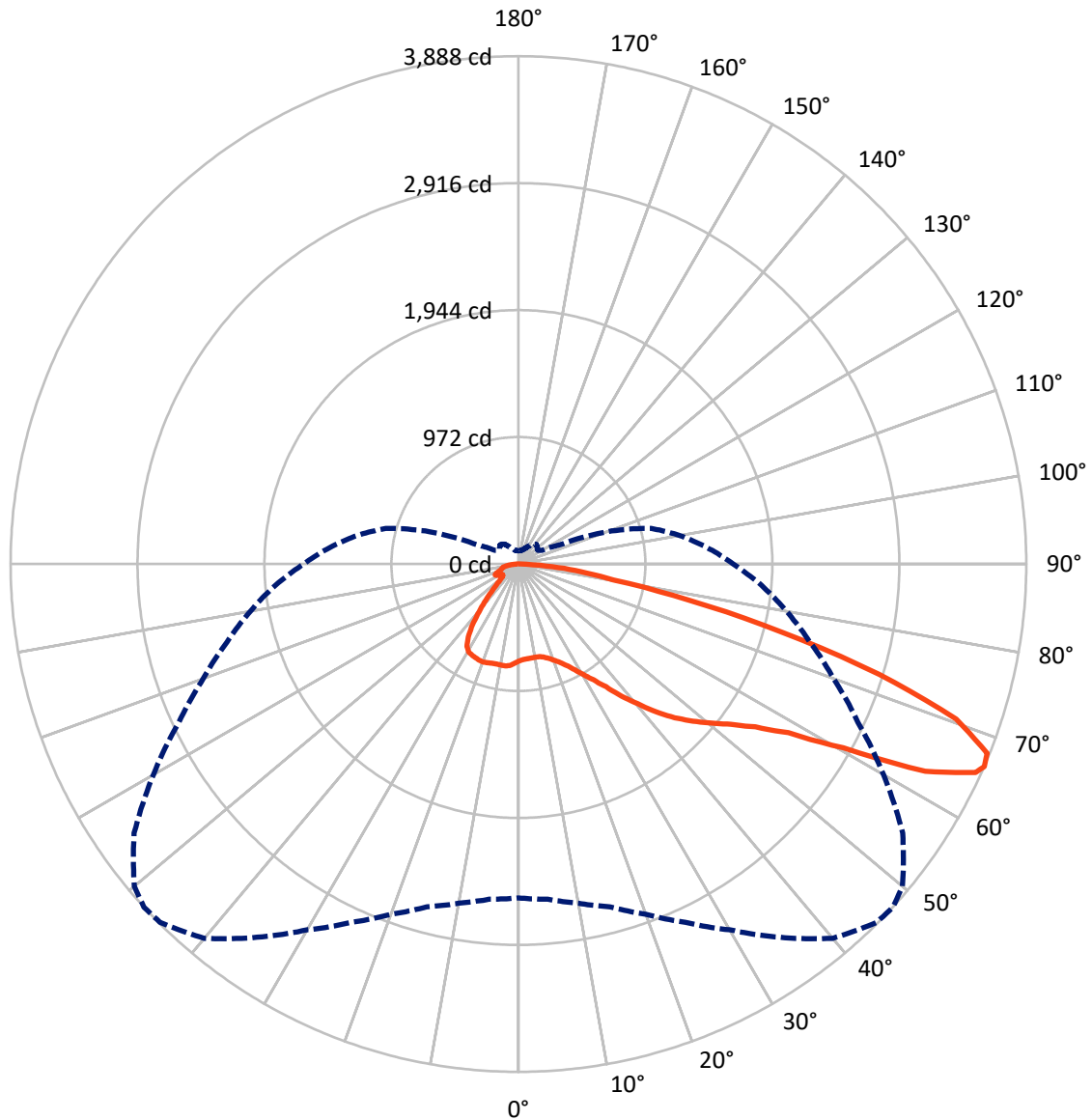
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 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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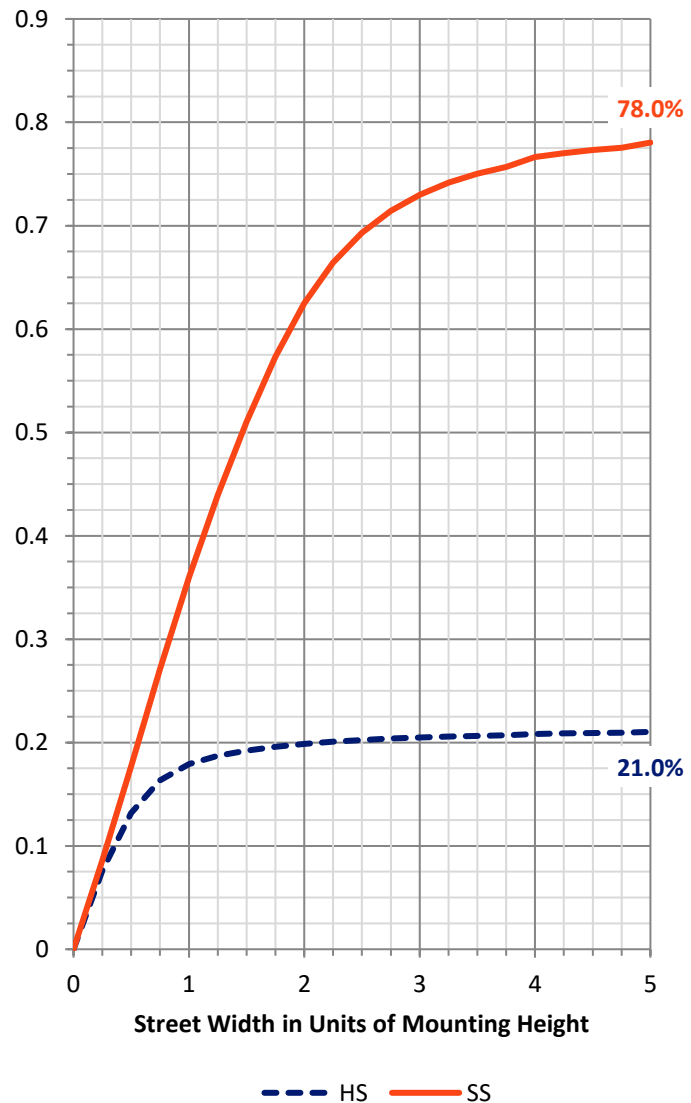
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1199.7	0.0	1199.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4422.7	0.0	4422.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	5622.4	0.0	5622.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	1.3
10°-20°	218.5	3.9
20°-30°	376.3	6.7
30°-40°	569.4	10.1
40°-50°	738.0	13.1
50°-60°	1017.5	18.1
60°-70°	1580.8	28.1
70°-80°	919.3	16.3
80°-90°	130.7	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°	5622.4	100.0
0°-180°	5622.4	100.0



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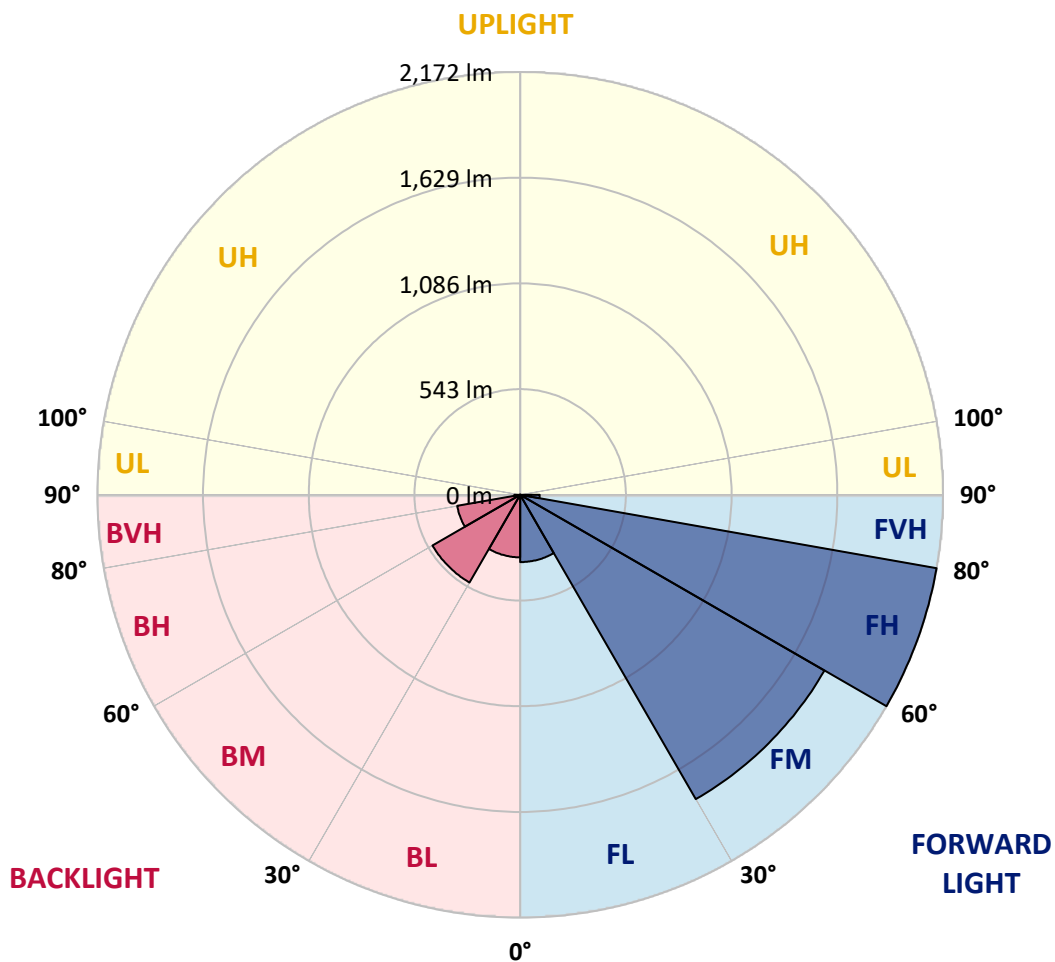
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.7	6.1			
FM	(30°-60°)	1804.8	32.1			
FH	(60°-80°)	2171.9	38.6			G2/5000
FVH	(80°-90°)	100.3	1.8			G2/225
BL	(0°-30°)	321.1	5.7	B1/500		
BM	(30°-60°)	520.1	9.2	B1/1000		
BH	(60°-80°)	328.1	5.8	B1/500		G1/500
BVH	(80°-90°)	30.4	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°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	727.4	730.0	728.1	728.7	728.7	729.3	729.3	730.0	729.3	731.2	732.4
5°	714.4	715.6	715.1	716.3	717.5	720.0	719.4	722.5	723.1	724.9	728.1
7.5°	709.5	708.2	708.8	710.7	711.9	713.2	714.4	716.9	718.8	723.1	725.6
10°	714.4	713.8	714.4	715.6	715.6	716.3	715.1	717.5	718.8	722.5	724.9
12.5°	734.9	734.9	733.7	733.7	732.4	731.2	728.1	726.2	725.6	726.2	727.4
15°	767.7	766.5	764.0	762.1	759.7	755.4	751.0	747.3	744.8	741.1	739.8
17.5°	800.0	798.1	795.6	793.2	790.1	785.8	778.9	774.6	767.7	763.4	760.9
20°	837.2	833.5	830.4	827.3	821.1	819.8	813.0	805.6	797.5	787.6	786.3
22.5°	885.6	879.4	875.6	873.8	867.6	865.8	854.6	844.0	834.1	821.1	818.0
25°	934.6	928.4	926.5	924.0	919.7	917.2	906.7	894.9	881.9	863.9	860.2
27.5°	982.3	983.0	978.0	979.8	978.6	974.2	963.7	951.9	942.1	920.9	916.6
30°	1041.9	1038.1	1035.6	1039.4	1035.1	1035.6	1026.3	1020.2	1004.0	991.6	983.0
32.5°	1103.9	1103.3	1107.0	1109.5	1108.8	1107.6	1100.2	1094.0	1079.7	1061.7	1058.0
35°	1188.8	1192.6	1195.6	1206.8	1206.8	1214.9	1207.4	1200.0	1183.3	1161.6	1154.1
37.5°	1246.5	1247.7	1260.2	1275.1	1293.7	1311.0	1316.0	1317.9	1311.0	1294.9	1283.7
40°	1299.3	1301.7	1321.6	1344.5	1371.8	1405.9	1426.3	1435.6	1437.5	1430.1	1405.9
42.5°	1351.9	1355.6	1376.1	1409.6	1447.5	1490.9	1526.8	1549.8	1562.8	1562.8	1548.6
45°	1413.3	1418.3	1440.7	1477.2	1521.2	1575.8	1625.4	1669.5	1690.5	1691.8	1678.1
47.5°	1485.9	1490.2	1516.3	1553.5	1598.8	1654.0	1716.6	1766.8	1805.9	1808.4	1797.2
50°	1579.5	1585.8	1607.5	1640.9	1687.5	1743.3	1805.9	1876.0	1916.9	1926.8	1915.1
52.5°	1703.5	1704.8	1722.8	1753.8	1799.1	1852.4	1918.8	1995.1	2049.0	2057.0	2037.9
55°	1874.7	1872.8	1884.7	1918.2	1952.3	1993.8	2062.6	2148.2	2208.4	2220.8	2200.9
57.5°	2107.3	2105.4	2115.4	2123.5	2187.3	2227.6	2295.2	2377.0	2435.4	2471.4	2437.2
60°	2467.6	2465.8	2481.9	2529.0	2576.8	2635.6	2701.4	2799.4	2881.2	2891.8	2858.3
62.5°	2728.7	2738.0	2773.3	2828.6	2925.3	3040.7	3160.9	3290.0	3458.0	3511.4	3495.2
65°	2637.5	2656.1	2705.1	2788.9	2917.9	3077.2	3265.8	3499.6	3724.7	3850.5	3846.8
66°	2555.6	2576.1	2636.3	2716.9	2853.3	3027.6	3233.5	3488.4	3740.2	3879.1	3887.7
67.5°	2406.8	2429.8	2488.7	2584.2	2716.9	2902.3	3123.7	3401.0	3685.6	3847.5	3870.4
70°	2117.2	2143.3	2186.1	2264.9	2395.6	2561.2	2794.4	3042.5	3340.8	3526.3	3554.2
72.5°	1770.0	1792.8	1840.7	1905.1	2012.4	2116.6	2299.5	2482.5	2695.8	2907.3	2886.8
75°	1270.7	1280.7	1309.1	1379.3	1436.9	1530.5	1677.5	1827.6	1973.3	2070.1	2083.7
77.5°	660.5	686.5	726.8	804.4	867.0	951.4	1046.8	1159.7	1266.3	1355.1	1330.9
80°	432.3	443.4	479.4	519.1	564.9	618.9	682.8	724.9	738.6	733.0	738.6
82.5°	249.3	269.8	317.5	347.9	382.0	400.7	451.4	499.8	527.2	493.0	480.7
85°	31.6	40.9	129.0	162.5	186.0	214.0	229.5	258.6	241.2	215.8	263.0
87.5°	6.8	6.2	8.7	18.6	19.3	16.1	30.4	32.3	19.8	10.0	12.4
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	733.7	734.2	735.5	737.4	738.6	739.8	741.1	743.0	744.2	745.4	747.9
5°	730.5	733.0	735.5	738.0	741.1	746.1	749.1	751.6	754.1	759.1	760.9
7.5°	728.7	733.0	736.7	741.1	746.1	750.4	756.0	759.1	762.8	765.9	769.6
10°	727.4	733.7	737.4	743.5	749.1	753.5	759.7	763.4	767.7	771.4	773.3
12.5°	730.0	733.0	736.7	743.0	749.8	756.0	762.8	765.9	769.6	772.7	773.3
15°	740.5	740.5	741.1	746.1	752.8	757.9	763.4	766.5	768.4	770.2	770.2
17.5°	759.7	755.4	752.3	752.8	757.2	760.3	763.4	763.4	762.1	761.6	760.3
20°	782.1	776.5	770.2	765.9	764.7	762.1	760.3	754.1	749.1	744.8	741.7
22.5°	814.2	805.6	796.9	788.8	781.4	772.1	761.6	749.1	737.4	729.3	724.4
25°	854.0	847.2	836.6	824.2	814.9	797.5	783.9	765.9	751.0	740.5	731.8
27.5°	910.4	902.3	892.4	881.2	867.6	848.4	831.6	810.5	792.6	777.0	765.9
30°	980.5	970.0	962.5	948.8	939.5	917.9	901.1	875.1	840.3	815.5	800.0
32.5°	1052.4	1040.7	1034.4	1023.9	1013.3	1000.3	974.9	934.6	890.0	849.6	823.0
35°	1148.6	1136.1	1124.9	1115.6	1100.2	1076.0	1053.7	1005.3	943.9	887.4	842.8
37.5°	1269.5	1249.0	1221.1	1197.5	1170.2	1135.5	1101.4	1051.8	981.7	908.6	849.0
40°	1398.4	1362.5	1322.8	1278.8	1231.6	1181.4	1142.3	1092.1	1013.3	926.5	844.7
42.5°	1533.0	1476.0	1420.8	1358.8	1293.0	1233.5	1182.6	1127.4	1036.9	931.4	827.3
45°	1666.3	1602.5	1518.8	1437.5	1354.4	1280.7	1223.5	1161.6	1058.6	933.3	804.4
47.5°	1776.8	1711.0	1615.5	1513.8	1415.2	1331.5	1264.5	1197.5	1087.7	946.3	798.8
50°	1893.3	1813.3	1707.3	1587.0	1475.4	1381.7	1310.4	1240.9	1128.7	979.8	816.7
52.5°	2020.5	1928.7	1804.7	1670.1	1547.9	1443.1	1365.6	1294.2	1180.8	1027.0	850.9
55°	2175.5	2063.3	1928.7	1776.8	1645.9	1530.0	1444.4	1360.0	1242.8	1082.8	893.7
57.5°	2412.4	2274.7	2123.5	1950.4	1805.3	1668.2	1565.9	1468.6	1338.9	1165.9	951.9
60°	2840.9	2694.0	2497.4	2287.7	2117.2	1957.2	1807.2	1686.2	1526.8	1329.6	1080.9
62.5°	3454.9	3259.6	2997.2	2703.9	2480.7	2250.0	2080.7	1900.8	1703.0	1490.2	1232.8
65°	3796.0	3559.1	3208.1	2867.6	2580.5	2330.0	2114.7	1906.3	1686.8	1483.5	1268.2
66°	3838.2	3591.4	3226.7	2868.2	2566.8	2309.5	2083.1	1867.3	1642.8	1448.7	1253.3
67.5°	3820.8	3568.4	3192.6	2814.2	2507.9	2231.4	1997.5	1773.7	1549.8	1368.7	1203.7
70°	3536.1	3296.8	2927.7	2561.2	2270.4	1997.5	1774.2	1554.1	1348.8	1193.8	1072.3
72.5°	2936.5	2731.8	2411.2	2123.5	1895.2	1670.1	1480.9	1270.7	1097.0	982.3	910.4
75°	2119.7	1995.6	1703.5	1538.6	1338.3	1188.8	1005.3	880.7	756.0	700.2	687.7
77.5°	1338.9	1172.1	986.7	812.4	667.9	553.8	431.0	365.9	305.1	298.9	360.9
80°	677.9	610.2	470.0	374.6	315.1	254.9	201.6	152.6	106.7	128.4	153.8
82.5°	444.0	370.2	290.2	238.8	207.7	172.4	134.0	93.0	68.2	76.9	105.4
85°	240.0	204.7	164.9	130.2	105.4	94.2	63.3	44.7	44.0	47.2	60.2
87.5°	17.4	17.4	13.7	12.4	14.9	12.4	11.2	11.2	10.5	11.2	14.9
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	749.1	751.0	751.6	754.7	756.6	757.9	759.1	759.1	759.7	761.6	762.1
5°	763.4	766.5	770.2	772.7	774.0	777.7	778.9	778.9	780.2	782.6	784.5
7.5°	772.1	776.5	780.2	781.4	783.9	785.1	787.0	788.2	788.2	790.7	791.9
10°	775.2	777.7	781.4	781.4	783.9	783.9	785.8	786.3	786.3	788.8	790.7
12.5°	775.2	776.5	779.5	779.5	781.4	782.1	784.5	786.3	787.0	790.1	792.6
15°	771.4	772.7	775.2	775.8	780.2	782.6	788.2	791.9	791.9	795.1	796.3
17.5°	760.9	764.0	769.0	774.0	782.1	787.6	794.4	797.5	795.1	793.2	791.4
20°	743.5	749.1	760.9	773.3	787.6	795.1	798.8	795.6	787.0	778.3	772.7
22.5°	726.2	737.4	757.2	775.8	791.9	796.9	795.1	783.9	769.6	759.1	751.6
25°	734.2	747.3	766.5	783.3	793.8	792.6	785.1	769.6	754.1	740.5	728.1
27.5°	767.7	782.1	792.6	798.1	796.9	788.2	776.5	759.1	740.5	722.5	705.1
30°	799.4	806.8	809.3	804.9	795.1	780.7	765.9	746.1	721.2	698.9	679.1
32.5°	813.7	806.2	794.4	782.6	766.5	754.1	733.7	711.9	680.9	654.2	634.4
35°	813.7	783.9	754.1	729.3	705.1	689.6	666.1	636.9	608.4	586.1	570.5
37.5°	795.6	738.6	689.6	649.3	618.9	602.1	566.8	540.7	516.6	509.1	499.3
40°	762.8	678.4	607.7	555.1	516.6	491.8	456.5	438.4	429.1	425.4	423.5
42.5°	718.8	611.4	517.2	452.1	410.5	382.6	359.1	347.9	347.3	346.7	346.7
45°	671.6	539.5	429.1	351.6	315.1	290.2	279.1	274.7	278.4	277.9	278.4
47.5°	642.5	484.9	348.6	266.0	238.1	222.0	216.5	218.3	221.4	220.2	220.2
50°	638.8	457.0	294.6	207.2	186.0	178.0	176.7	176.7	178.6	177.4	176.7
52.5°	652.4	452.7	266.7	178.0	161.2	154.4	153.2	152.6	151.9	148.2	145.1
55°	676.0	462.6	258.6	170.5	153.2	145.8	143.9	142.6	140.2	135.2	129.6
57.5°	723.1	493.7	266.0	174.2	155.6	149.5	147.6	147.6	142.6	134.6	126.5
60°	836.6	572.4	296.5	188.6	167.4	161.2	162.5	161.9	154.4	142.6	130.2
62.5°	983.0	675.4	336.1	208.4	182.3	181.1	187.3	186.0	173.7	155.6	137.7
65°	1050.5	723.7	347.3	212.7	185.4	191.0	203.4	202.1	186.7	161.9	138.9
66°	1051.8	723.7	342.3	209.0	181.1	187.9	200.3	199.7	184.2	159.3	136.5
67.5°	1026.3	703.9	328.1	201.6	172.4	177.4	188.6	187.9	173.7	153.2	131.4
70°	930.9	630.1	291.4	188.6	160.7	158.1	161.9	159.3	150.0	135.8	120.9
72.5°	797.5	529.0	254.2	178.6	152.6	142.6	140.2	138.3	130.9	122.8	113.5
75°	628.2	418.6	223.3	171.2	145.1	132.1	127.7	125.3	120.3	114.7	107.3
77.5°	387.6	299.5	194.7	161.2	139.5	126.5	123.4	119.7	112.3	105.4	99.8
80°	173.0	185.4	160.0	140.7	124.7	112.8	107.9	102.3	94.9	90.5	87.4
82.5°	115.3	119.7	116.0	105.4	94.2	84.9	77.5	77.5	76.3	72.6	71.3
85°	73.8	74.4	71.9	65.1	60.7	55.2	52.1	52.7	55.2	54.6	54.0
87.5°	16.7	16.7	19.8	18.6	21.7	23.0	24.8	26.7	30.4	30.4	32.3
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):

	160°	165°	170°	175°	180°
0°	741.1	741.1	741.1	741.1	741.1
2.5°	762.8	764.0	765.3	763.4	764.0
5°	784.5	783.9	787.0	785.1	786.3
7.5°	791.4	791.9	794.4	794.4	795.1
10°	791.9	793.2	796.3	798.1	799.4
12.5°	795.1	797.5	802.5	803.7	803.7
15°	797.5	798.8	801.9	803.1	804.4
17.5°	788.8	786.3	787.6	788.2	787.6
20°	767.2	764.7	764.0	761.6	762.8
22.5°	743.5	736.7	732.4	727.4	727.4
25°	715.1	704.5	695.8	687.2	689.0
27.5°	688.4	674.7	666.1	660.5	659.3
30°	662.3	648.1	640.0	633.2	633.2
32.5°	618.9	609.0	598.4	594.1	593.5
35°	558.8	552.6	543.9	542.0	538.9
37.5°	491.2	489.3	481.9	481.2	478.1
40°	420.5	421.7	419.3	418.0	416.1
42.5°	349.8	356.0	354.7	354.1	352.8
45°	282.1	286.5	287.2	289.0	292.1
47.5°	222.0	223.3	224.5	223.9	224.5
50°	173.7	170.5	170.0	168.1	170.0
52.5°	140.2	135.2	132.7	130.2	129.0
55°	123.4	118.4	116.0	114.7	113.5
57.5°	119.1	114.1	110.4	107.9	107.3
60°	120.3	112.8	107.9	104.8	104.2
62.5°	123.4	113.5	106.7	103.5	103.0
65°	122.8	112.3	106.0	102.3	101.7
66°	120.9	111.0	104.8	101.7	101.1
67.5°	117.9	109.1	103.5	101.1	99.8
70°	112.3	106.7	102.3	99.3	98.0
72.5°	107.3	103.0	99.3	96.1	95.5
75°	101.7	98.0	94.2	91.8	91.2
77.5°	94.9	91.2	88.7	86.8	86.2
80°	83.7	81.2	78.8	76.3	76.3
82.5°	69.5	67.6	65.1	63.3	62.6
85°	53.3	53.3	51.4	49.6	49.0
87.5°	31.6	31.0	31.0	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)