

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: P181637

Luminaire Tested: **ICM-E03-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181637
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-E03-LED-E1-T4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7117.9 lumens
Efficiency: N/A
Efficacy: 94.7 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): 75.2
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

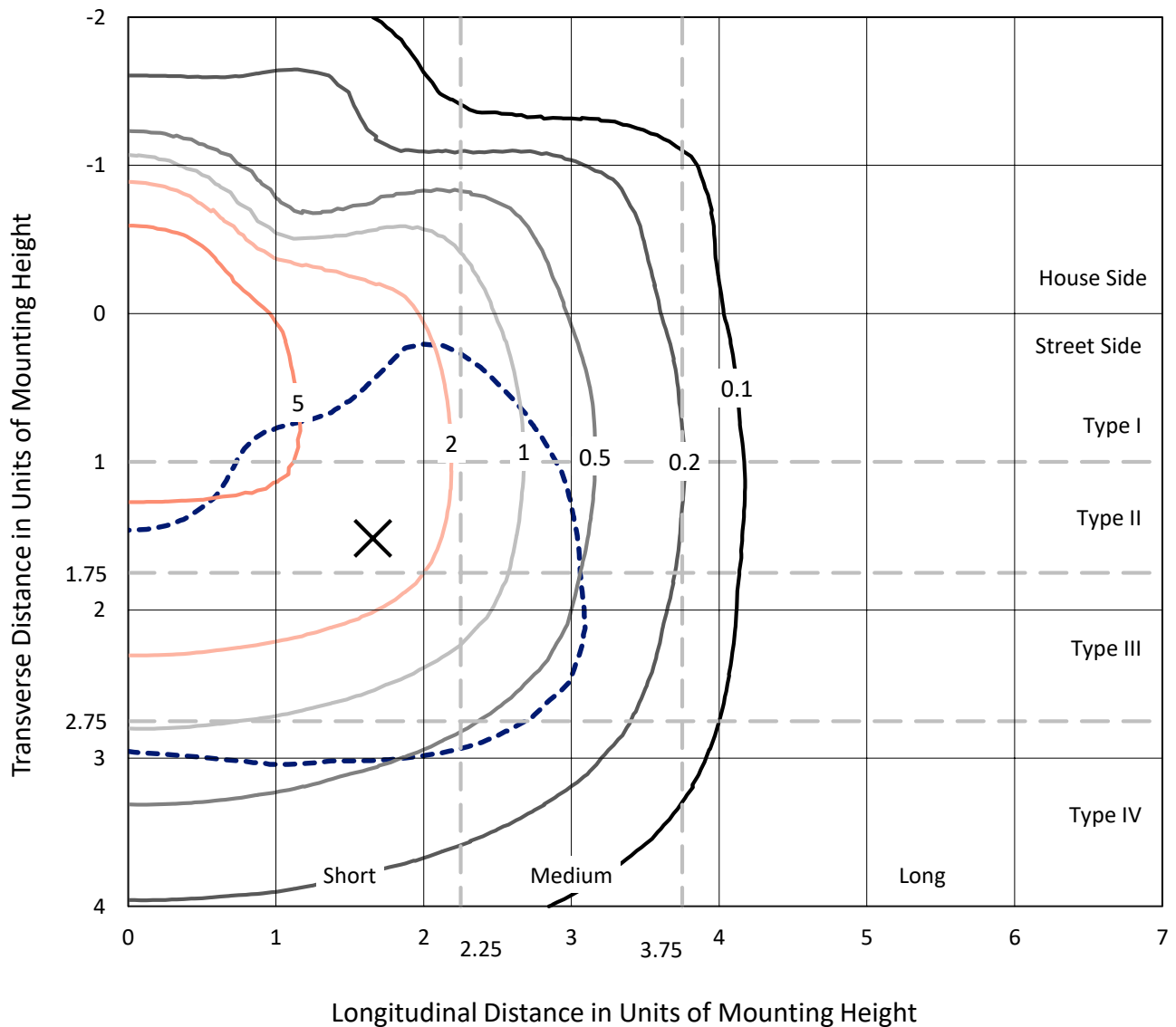


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

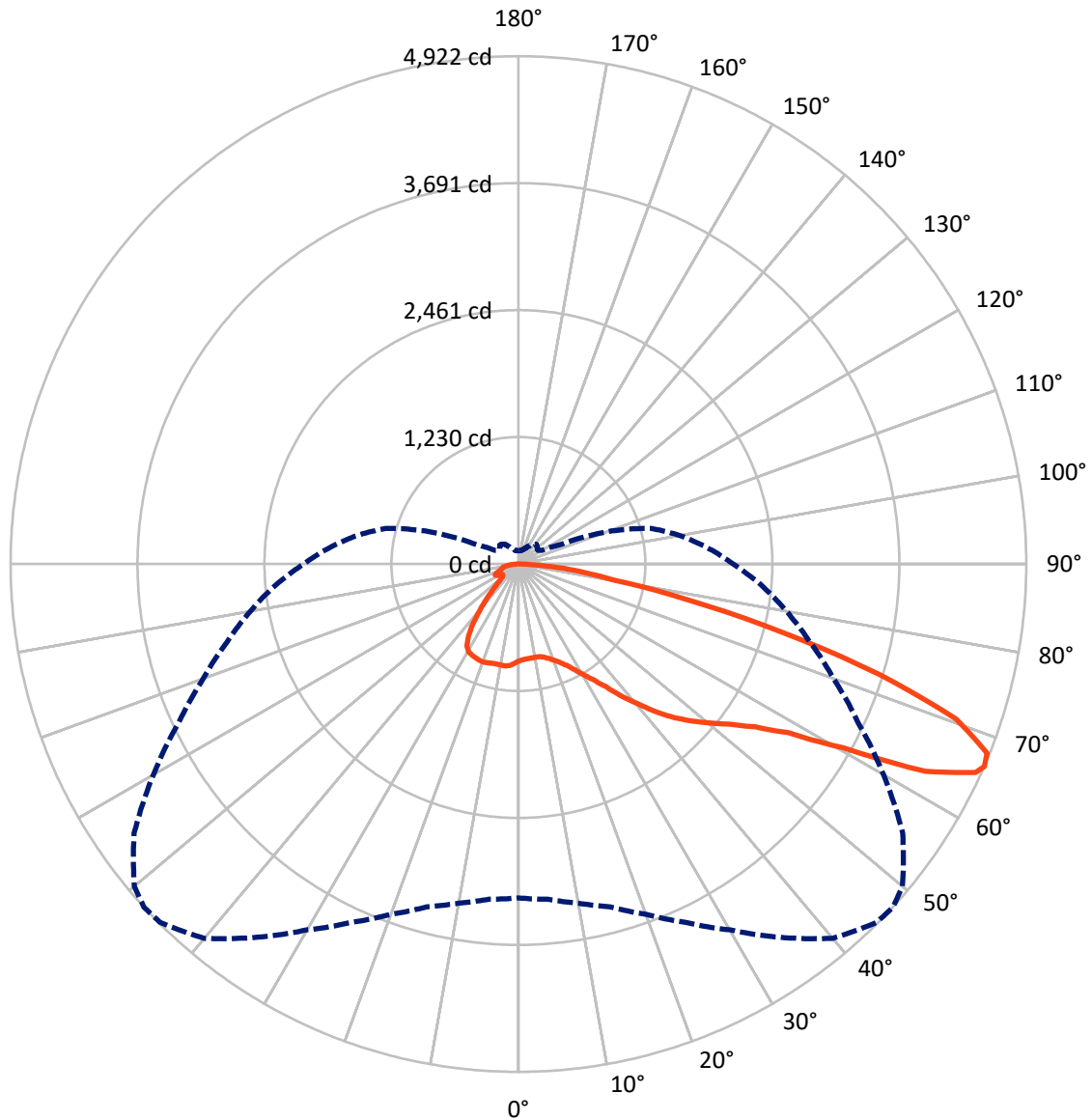


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - Semi-Cutoff

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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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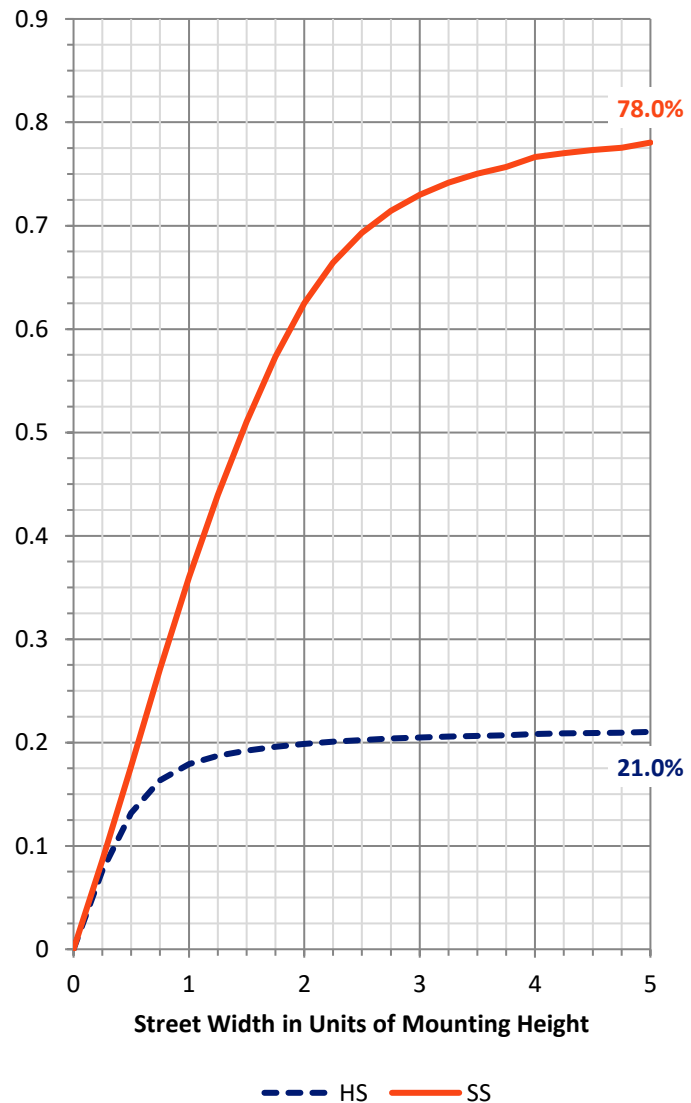
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1518.8	0.0	1518.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5599.1	0.0	5599.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	7117.9	0.0	7117.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.3
10°-20°	276.6	3.9
20°-30°	476.4	6.7
30°-40°	720.8	10.1
40°-50°	934.3	13.1
50°-60°	1288.1	18.1
60°-70°	2001.3	28.1
70°-80°	1163.8	16.3
80°-90°	165.5	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°	7117.9	100.0
0°-180°	7117.9	100.0



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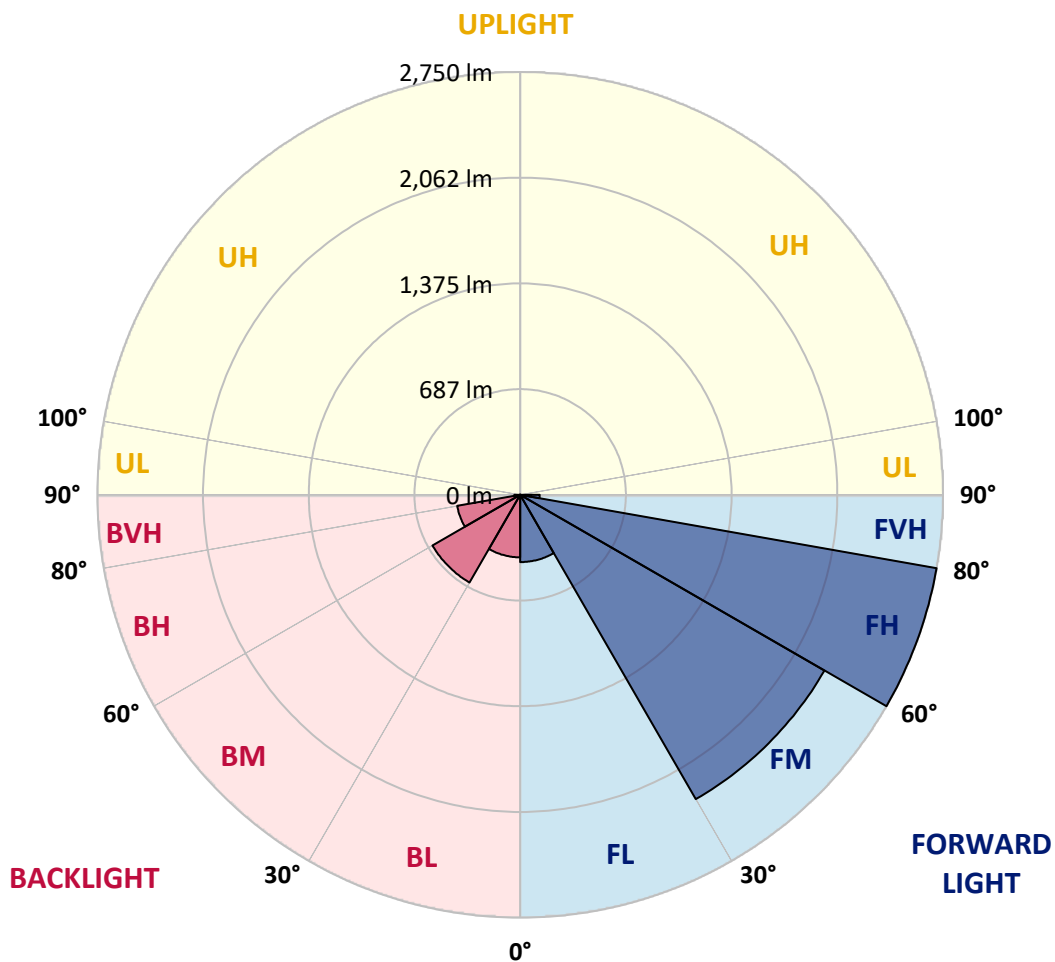
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.6	6.1			
FM (30°-60°)	2284.9	32.1			
FH (60°-80°)	2749.7	38.6			G2/5000
FVH (80°-90°)	127.0	1.8			G2/225
BL (0°-30°)	406.5	5.7	B1/500		
BM (30°-60°)	658.4	9.2	B1/1000		
BH (60°-80°)	415.4	5.8	B1/500		G1/500
BVH (80°-90°)	38.5	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°	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2
2.5°	920.9	924.1	921.7	922.5	922.5	923.3	923.3	924.1	923.3	925.7	927.3
5°	904.5	906.1	905.2	906.8	908.4	911.5	910.7	914.6	915.4	917.8	921.7
7.5°	898.1	896.6	897.4	899.7	901.3	902.9	904.5	907.6	910.0	915.4	918.6
10°	904.5	903.6	904.5	906.1	906.1	906.8	905.2	908.4	910.0	914.6	917.8
12.5°	930.3	930.3	928.7	928.7	927.3	925.7	921.7	919.4	918.6	919.4	920.9
15°	972.0	970.4	967.3	964.9	961.8	956.3	950.8	946.1	942.9	938.2	936.7
17.5°	1012.8	1010.4	1007.3	1004.2	1000.2	994.7	986.1	980.6	972.0	966.5	963.4
20°	1059.9	1055.2	1051.3	1047.4	1039.4	1038.0	1029.3	1019.8	1009.7	997.1	995.5
22.5°	1121.1	1113.3	1108.6	1106.2	1098.3	1096.0	1081.9	1068.6	1056.0	1039.4	1035.5
25°	1183.2	1175.4	1172.9	1169.8	1164.3	1161.2	1147.8	1132.9	1116.5	1093.7	1088.9
27.5°	1243.6	1244.4	1238.1	1240.5	1238.9	1233.4	1220.1	1205.1	1192.6	1165.9	1160.4
30°	1319.0	1314.2	1311.2	1315.8	1310.3	1311.2	1299.4	1291.5	1271.1	1255.4	1244.4
32.5°	1397.5	1396.8	1401.4	1404.6	1403.8	1402.2	1392.8	1384.9	1366.9	1344.1	1339.4
35°	1505.0	1509.8	1513.7	1527.8	1527.8	1538.1	1528.7	1519.2	1498.0	1470.5	1461.1
37.5°	1578.1	1579.6	1595.4	1614.1	1637.8	1659.7	1666.0	1668.4	1659.7	1639.4	1625.2
40°	1644.8	1647.9	1673.0	1702.1	1736.7	1779.8	1805.8	1817.5	1819.9	1810.4	1779.8
42.5°	1711.5	1716.3	1742.2	1784.6	1832.5	1887.5	1932.9	1962.0	1978.5	1978.5	1960.4
45°	1789.3	1795.5	1823.8	1870.2	1925.9	1995.0	2057.8	2113.5	2140.2	2141.8	2124.5
47.5°	1881.1	1886.6	1919.6	1966.7	2024.0	2093.9	2173.2	2236.8	2286.2	2289.4	2275.3
50°	1999.6	2007.5	2035.0	2077.4	2136.3	2207.0	2286.2	2375.0	2426.8	2439.4	2424.4
52.5°	2156.7	2158.2	2181.0	2220.3	2277.6	2345.1	2429.1	2525.7	2594.0	2604.2	2579.9
55°	2373.4	2371.1	2386.0	2428.4	2471.6	2524.1	2611.3	2719.6	2795.8	2811.5	2786.3
57.5°	2667.8	2665.4	2678.1	2688.2	2769.1	2820.1	2905.7	3009.3	3083.2	3128.7	3085.5
60°	3123.9	3121.6	3142.1	3201.7	3262.2	3336.8	3419.9	3544.0	3647.7	3661.0	3618.6
62.5°	3454.5	3466.3	3511.0	3580.9	3703.4	3849.4	4001.7	4165.0	4377.8	4445.3	4424.9
65°	3339.1	3362.6	3424.7	3530.6	3694.0	3895.7	4134.4	4430.4	4715.4	4874.7	4870.1
66°	3235.5	3261.3	3337.5	3439.6	3612.3	3833.0	4093.6	4416.2	4735.0	4910.9	4921.9
67.5°	3047.0	3076.1	3150.6	3271.6	3439.6	3674.3	3954.6	4305.5	4665.9	4870.8	4899.8
70°	2680.4	2713.3	2767.6	2867.3	3032.9	3242.5	3537.7	3851.7	4229.4	4464.1	4499.5
72.5°	2240.8	2269.8	2330.2	2411.8	2547.7	2679.6	2911.2	3142.8	3412.9	3680.6	3654.7
75°	1608.7	1621.2	1657.4	1746.1	1819.1	1937.7	2123.7	2313.7	2498.2	2620.7	2638.0
77.5°	836.2	869.1	920.2	1018.3	1097.6	1204.4	1325.3	1468.2	1603.2	1715.5	1684.8
80°	547.3	561.4	606.9	657.1	715.3	783.5	864.4	917.8	935.1	928.0	935.1
82.5°	315.6	341.5	402.0	440.5	483.6	507.2	571.5	632.8	667.4	624.2	608.5
85°	40.0	51.8	163.3	205.7	235.5	270.9	290.5	327.4	305.4	273.2	332.9
87.5°	8.7	7.8	11.0	23.5	24.4	20.4	38.5	40.8	25.1	12.6	15.7
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2
2.5°	928.7	929.6	931.2	933.5	935.1	936.7	938.2	940.6	942.1	943.7	946.9
5°	924.8	928.0	931.2	934.2	938.2	944.5	948.4	951.5	954.7	960.9	963.4
7.5°	922.5	928.0	932.7	938.2	944.5	950.0	957.0	960.9	965.7	969.6	974.3
10°	920.9	928.7	933.5	941.3	948.4	953.9	961.8	966.5	972.0	976.7	979.1
12.5°	924.1	928.0	932.7	940.6	949.2	957.0	965.7	969.6	974.3	978.2	979.1
15°	937.4	937.4	938.2	944.5	953.1	959.4	966.5	970.4	972.8	975.1	975.1
17.5°	961.8	956.3	952.4	953.1	958.6	962.5	966.5	966.5	964.9	964.1	962.5
20°	990.1	983.0	975.1	969.6	968.0	964.9	962.5	954.7	948.4	942.9	939.0
22.5°	1030.9	1019.8	1008.8	998.7	989.2	977.5	964.1	948.4	933.5	923.3	917.0
25°	1081.1	1072.5	1059.1	1043.4	1031.6	1009.7	992.4	969.6	950.8	937.4	926.4
27.5°	1152.6	1142.3	1129.8	1115.6	1098.3	1074.1	1052.8	1026.1	1003.4	983.7	969.6
30°	1241.2	1227.9	1218.5	1201.2	1189.4	1162.0	1140.8	1107.8	1063.8	1032.4	1012.8
32.5°	1332.4	1317.4	1309.6	1296.2	1282.9	1266.4	1234.2	1183.2	1126.6	1075.6	1041.9
35°	1454.1	1438.3	1424.2	1412.4	1392.8	1362.1	1333.9	1272.7	1195.0	1123.5	1067.0
37.5°	1607.1	1581.2	1545.9	1516.0	1481.5	1437.5	1394.3	1331.5	1242.8	1150.1	1074.8
40°	1770.4	1724.8	1674.6	1618.9	1559.3	1495.6	1446.1	1382.6	1282.9	1172.9	1069.3
42.5°	1940.8	1868.6	1798.7	1720.2	1636.9	1561.6	1497.2	1427.4	1312.8	1179.3	1047.4
45°	2109.6	2028.8	1922.7	1819.9	1714.7	1621.2	1549.0	1470.5	1340.2	1181.6	1018.3
47.5°	2249.3	2166.2	2045.2	1916.5	1791.6	1685.6	1600.8	1516.0	1377.1	1198.1	1011.3
50°	2396.9	2295.6	2161.4	2009.1	1867.8	1749.2	1659.0	1571.0	1428.9	1240.5	1034.0
52.5°	2557.9	2441.7	2284.7	2114.3	1959.6	1827.0	1728.8	1638.5	1494.9	1300.1	1077.2
55°	2754.2	2612.1	2441.7	2249.3	2083.7	1936.8	1828.6	1721.8	1573.4	1370.8	1131.4
57.5°	3054.1	2879.8	2688.2	2469.2	2285.5	2111.9	1982.4	1859.2	1695.1	1476.0	1205.1
60°	3596.6	3410.5	3161.7	2896.3	2680.4	2477.8	2287.8	2134.7	1932.9	1683.3	1368.5
62.5°	4373.9	4126.5	3794.4	3423.1	3140.5	2848.4	2634.1	2406.3	2155.9	1886.6	1560.8
65°	4805.7	4505.8	4061.4	3630.3	3266.8	2949.7	2677.2	2413.4	2135.5	1878.0	1605.6
66°	4859.1	4546.6	4085.0	3631.2	3249.6	2923.7	2637.2	2364.0	2079.7	1834.1	1586.7
67.5°	4837.1	4517.5	4041.8	3562.8	3175.0	2824.9	2528.9	2245.4	1962.0	1732.8	1523.9
70°	4476.7	4173.7	3706.5	3242.5	2874.3	2528.9	2246.2	1967.5	1707.6	1511.4	1357.5
72.5°	3717.5	3458.4	3052.5	2688.2	2399.3	2114.3	1874.9	1608.7	1388.8	1243.6	1152.6
75°	2683.6	2526.5	2156.7	1947.8	1694.2	1505.0	1272.7	1114.9	957.0	886.4	870.7
77.5°	1695.1	1483.8	1249.1	1028.5	845.6	701.1	545.7	463.3	386.2	378.4	456.9
80°	858.1	772.6	595.1	474.2	398.8	322.7	255.2	193.1	135.1	162.5	194.7
82.5°	562.1	468.7	367.4	302.2	263.0	218.2	169.6	117.8	86.3	97.4	133.5
85°	303.8	259.1	208.8	164.8	133.5	119.3	80.1	56.6	55.7	59.6	76.2
87.5°	22.0	22.0	17.3	15.7	18.9	15.7	14.1	14.1	13.3	14.1	18.9
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°	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2
2.5°	948.4	950.8	951.5	955.4	957.9	959.4	960.9	960.9	961.8	964.1	964.9
5°	966.5	970.4	975.1	978.2	979.8	984.6	986.1	986.1	987.6	990.8	993.1
7.5°	977.5	983.0	987.6	989.2	992.4	994.0	996.3	997.9	997.9	1001.0	1002.6
10°	981.4	984.6	989.2	989.2	992.4	992.4	994.7	995.5	995.5	998.7	1001.0
12.5°	981.4	983.0	986.9	986.9	989.2	990.1	993.1	995.5	996.3	1000.2	1003.4
15°	976.7	978.2	981.4	982.1	987.6	990.8	997.9	1002.6	1002.6	1006.5	1008.1
17.5°	963.4	967.3	973.5	979.8	990.1	997.1	1005.8	1009.7	1006.5	1004.2	1001.8
20°	941.3	948.4	963.4	979.1	997.1	1006.5	1011.3	1007.3	996.3	985.3	978.2
22.5°	919.4	933.5	958.6	982.1	1002.6	1008.8	1006.5	992.4	974.3	960.9	951.5
25°	929.6	946.1	970.4	991.6	1004.9	1003.4	994.0	974.3	954.7	937.4	921.7
27.5°	972.0	990.1	1003.4	1010.4	1008.8	997.9	983.0	960.9	937.4	914.6	892.7
30°	1012.0	1021.4	1024.6	1019.1	1006.5	988.5	969.6	944.5	913.1	884.8	859.7
32.5°	1030.1	1020.7	1005.8	990.8	970.4	954.7	928.7	901.3	862.1	828.3	803.2
35°	1030.1	992.4	954.7	923.3	892.7	873.0	843.2	806.3	770.2	742.0	722.3
37.5°	1007.3	935.1	873.0	822.1	783.5	762.3	717.6	684.7	654.0	644.6	632.0
40°	965.7	858.9	769.4	702.7	654.0	622.6	577.9	555.1	543.3	538.6	536.2
42.5°	910.0	774.1	654.8	572.4	519.7	484.4	454.6	440.5	439.6	438.9	438.9
45°	850.2	683.1	543.3	445.1	398.8	367.4	353.3	347.8	352.6	351.7	352.6
47.5°	813.4	614.0	441.2	336.8	301.5	281.0	274.0	276.4	280.3	278.7	278.7
50°	808.7	578.6	372.9	262.2	235.5	225.3	223.7	223.7	226.1	224.6	223.7
52.5°	826.0	573.1	337.6	225.3	204.1	195.5	194.0	193.1	192.4	187.6	183.7
55°	855.8	585.7	327.4	215.9	194.0	184.5	182.1	180.6	177.4	171.2	164.1
57.5°	915.4	624.9	336.8	220.7	197.0	189.2	186.9	186.9	180.6	170.3	160.2
60°	1059.1	724.7	375.3	238.7	212.0	204.1	205.7	204.9	195.5	180.6	164.8
62.5°	1244.4	855.0	425.5	263.8	230.8	229.2	237.1	235.5	219.8	197.0	174.3
65°	1330.0	916.2	439.6	269.3	234.8	241.8	257.5	255.9	236.3	204.9	175.9
66°	1331.5	916.2	433.4	264.6	229.2	237.9	253.6	252.8	233.2	201.8	172.7
67.5°	1299.4	891.1	415.4	255.2	218.2	224.6	238.7	237.9	219.8	194.0	166.4
70°	1178.4	797.7	369.0	238.7	203.4	200.2	204.9	201.8	190.0	171.9	153.1
72.5°	1009.7	669.7	321.9	226.1	193.1	180.6	177.4	175.1	165.7	155.4	143.7
75°	795.4	530.0	282.6	216.7	183.7	167.3	161.8	158.6	152.3	145.2	135.8
77.5°	490.7	379.2	246.5	204.1	176.7	160.2	156.3	151.5	142.1	133.5	126.4
80°	219.1	234.8	202.5	178.2	157.8	142.9	136.7	129.6	120.1	114.6	110.7
82.5°	146.0	151.5	146.8	133.5	119.3	107.5	98.1	98.1	96.6	91.8	90.3
85°	93.4	94.2	91.1	82.4	76.9	69.9	66.0	66.7	69.9	69.1	68.3
87.5°	21.2	21.2	25.1	23.5	27.4	29.0	31.4	33.8	38.5	38.5	40.8
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):

	160°	165°	170°	175°	180°
0°	938.2	938.2	938.2	938.2	938.2
2.5°	965.7	967.3	968.8	966.5	967.3
5°	993.1	992.4	996.3	994.0	995.5
7.5°	1001.8	1002.6	1005.8	1005.8	1006.5
10°	1002.6	1004.2	1008.1	1010.4	1012.0
12.5°	1006.5	1009.7	1015.9	1017.5	1017.5
15°	1009.7	1011.3	1015.2	1016.8	1018.3
17.5°	998.7	995.5	997.1	997.9	997.1
20°	971.2	968.0	967.3	964.1	965.7
22.5°	941.3	932.7	927.3	920.9	920.9
25°	905.2	891.9	880.9	869.9	872.3
27.5°	871.4	854.2	843.2	836.2	834.6
30°	838.5	820.5	810.2	801.6	801.6
32.5°	783.5	771.0	757.7	752.1	751.4
35°	707.4	699.5	688.6	686.1	682.2
37.5°	621.8	619.4	610.1	609.2	605.3
40°	532.3	533.9	530.7	529.1	526.8
42.5°	442.8	450.7	449.1	448.3	446.7
45°	357.2	362.7	363.5	365.9	369.8
47.5°	281.0	282.6	284.2	283.4	284.2
50°	219.8	215.9	215.2	212.7	215.2
52.5°	177.4	171.2	168.0	164.8	163.3
55°	156.3	150.0	146.8	145.2	143.7
57.5°	150.7	144.5	139.7	136.7	135.8
60°	152.3	142.9	136.7	132.7	131.9
62.5°	156.3	143.7	135.1	131.1	130.3
65°	155.4	142.1	134.2	129.6	128.7
66°	153.1	140.6	132.7	128.7	128.0
67.5°	149.2	138.1	131.1	128.0	126.4
70°	142.1	135.1	129.6	125.6	124.1
72.5°	135.8	130.3	125.6	121.7	120.9
75°	128.7	124.1	119.3	116.2	115.4
77.5°	120.1	115.4	112.3	110.0	109.1
80°	106.0	102.9	99.7	96.6	96.6
82.5°	87.9	85.6	82.4	80.1	79.3
85°	67.5	67.5	65.2	62.8	62.0
87.5°	40.0	39.3	39.3	36.9	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)