

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: P180377

Luminaire Tested: **ICM-E03-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180377  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
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-SL2-HSS-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4673.6 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - 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

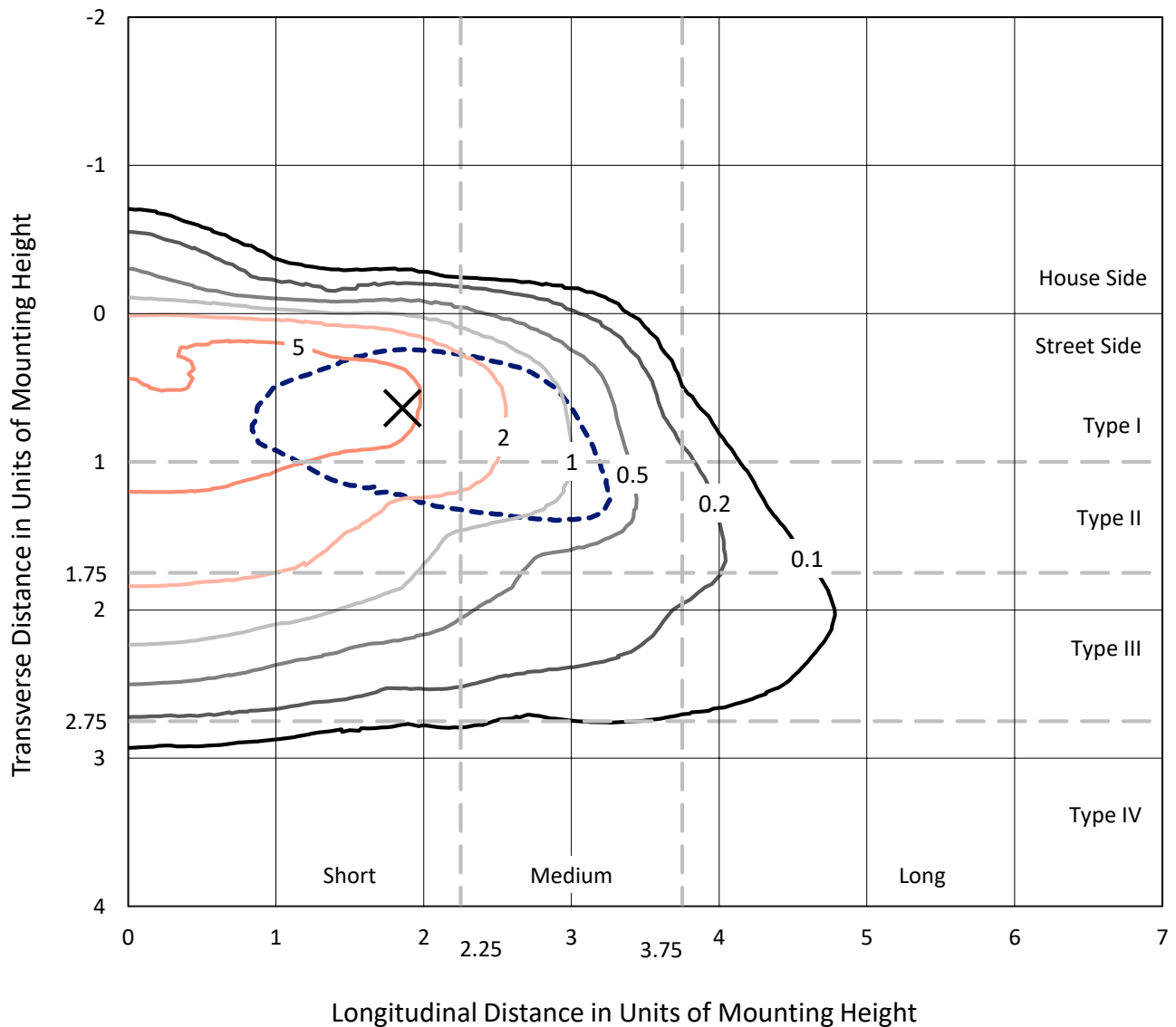


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### Iso-Footcandle Lines of Horizontal Illumination

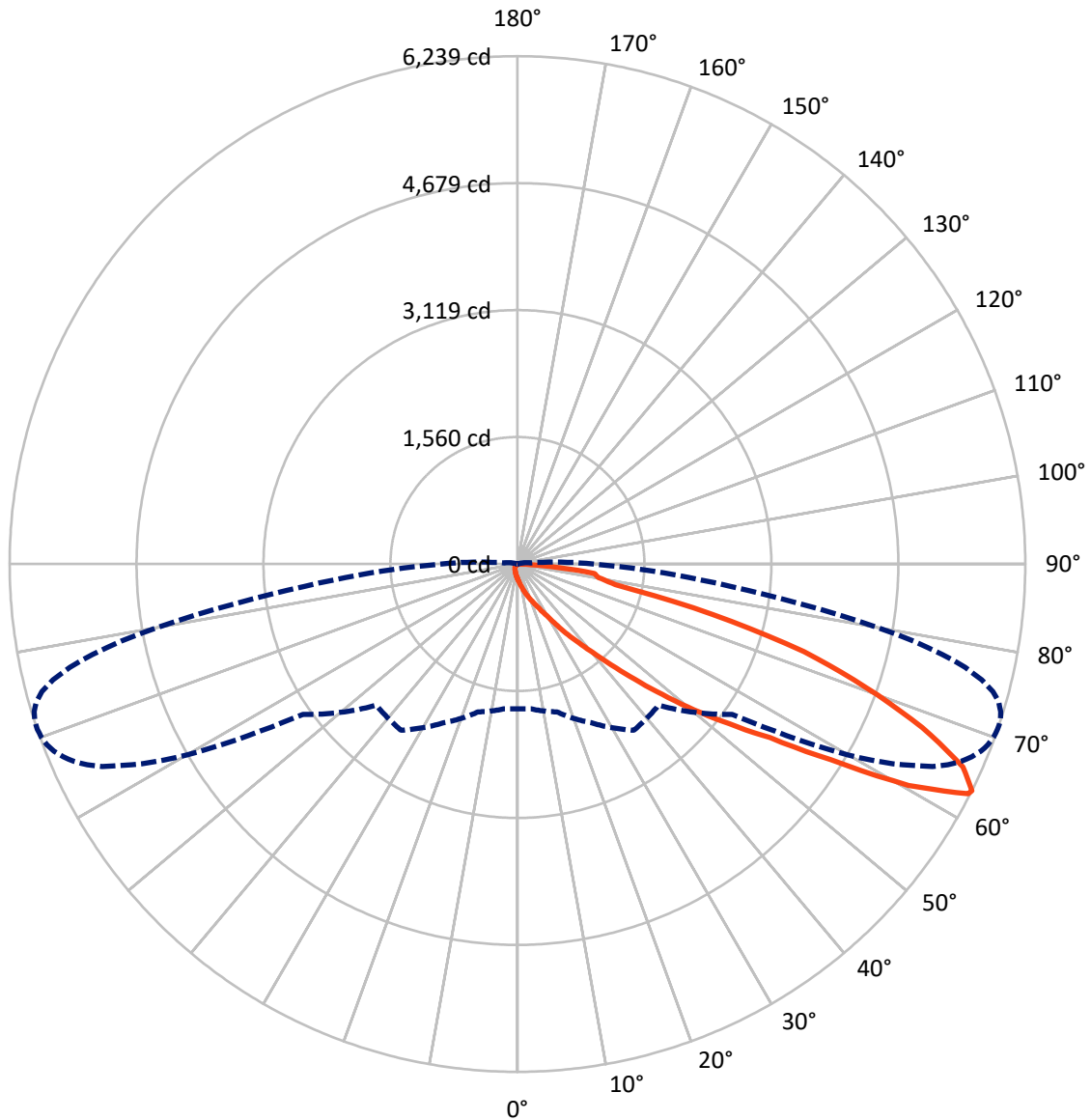
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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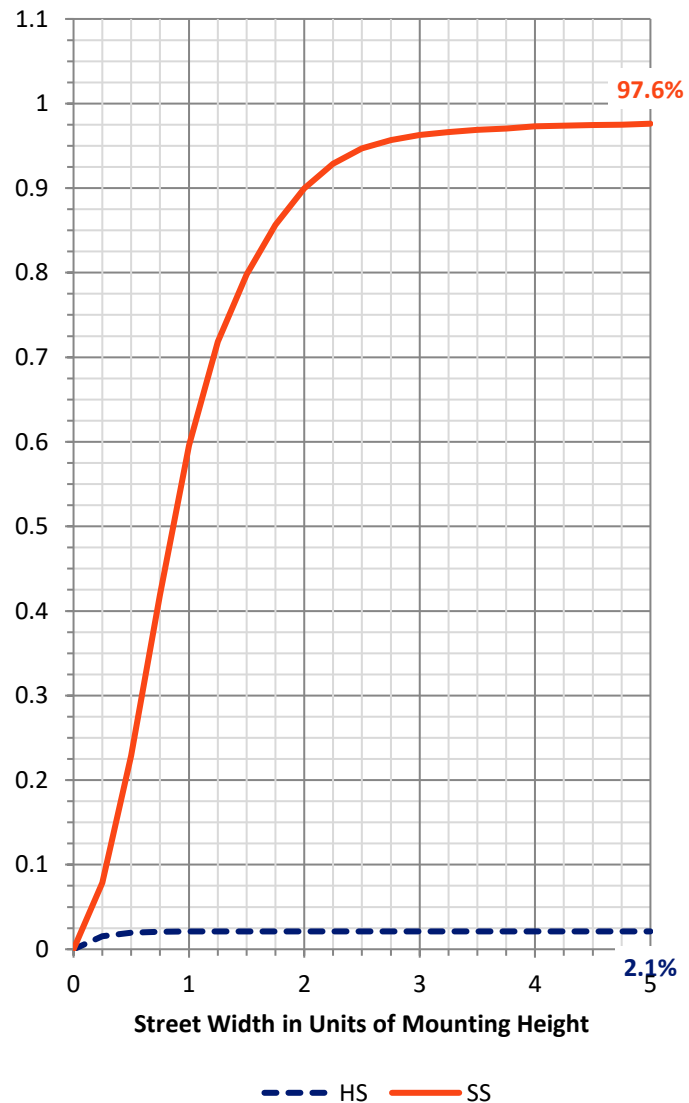
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	99.2	0.0	99.2
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	4574.4	0.0	4574.4
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	4673.6	0.0	4673.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.8	0.4
10°-20°	76.8	1.6
20°-30°	156.1	3.3
30°-40°	381.3	8.2
40°-50°	852.8	18.2
50°-60°	1199.2	25.7
60°-70°	1410.2	30.2
70°-80°	509.2	10.9
80°-90°	68.1	1.5
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°	4673.6	100.0
0°-180°	4673.6	100.0



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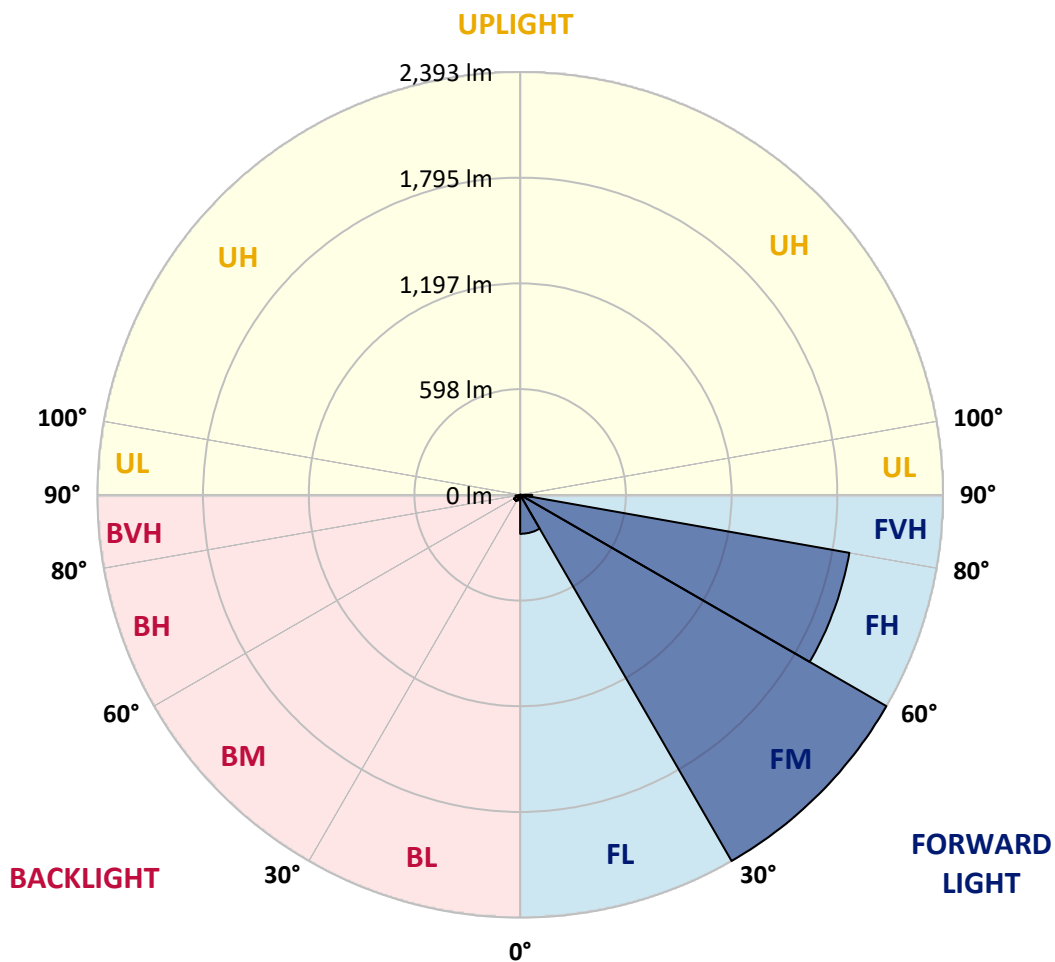
CATALOG NUMBER: ICM-E03-LED-E1-SL2-HSS-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.8	4.7			
FM (30°-60°)	2393.4	51.2			
FH (60°-80°)	1892.2	40.5			G2/5000
FVH (80°-90°)	67.9	1.5			G1/100
BL (0°-30°)	31.9	0.7	B0/110		
BM (30°-60°)	40.0	0.9	B0/220		
BH (60°-80°)	27.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3
2.5°	234.5	237.0	235.4	231.1	226.0	219.2	213.3	213.3	212.4	209.9	210.7
5°	307.5	308.4	305.0	294.8	285.5	271.1	254.9	253.2	251.5	248.9	248.1
7.5°	379.0	382.3	379.0	367.9	349.2	327.1	301.6	299.1	294.0	294.0	290.6
10°	452.0	452.0	448.6	435.8	418.9	387.4	355.2	350.9	344.9	343.3	338.1
12.5°	503.8	503.8	502.1	495.4	481.8	453.7	414.6	410.3	402.7	400.2	394.2
15°	524.2	524.2	525.1	531.0	531.9	519.2	478.3	475.0	467.3	460.5	458.0
17.5°	536.9	536.1	536.1	544.7	559.9	568.4	542.0	538.7	530.1	526.8	518.2
20°	565.0	563.4	558.2	558.2	572.7	602.4	602.4	601.6	592.2	589.7	585.4
22.5°	606.6	604.9	589.7	576.9	583.7	621.1	655.9	654.2	650.8	647.4	644.8
25°	674.6	668.7	642.3	604.9	599.0	638.9	696.7	700.9	703.5	703.5	705.2
27.5°	777.4	769.8	723.1	653.4	627.1	667.8	741.8	750.2	757.9	759.5	767.3
30°	920.2	906.5	839.4	737.5	677.1	710.3	808.0	817.3	828.4	831.8	843.7
32.5°	1154.6	1147.0	1082.4	929.5	800.4	793.6	900.7	912.5	927.0	932.9	947.4
35°	1511.5	1513.2	1460.5	1322.9	1144.5	1051.0	1066.3	1076.5	1081.6	1099.4	1107.1
37.5°	1753.7	1757.9	1769.8	1715.5	1588.0	1492.8	1373.0	1384.0	1357.7	1360.3	1361.1
40°	1886.2	1899.8	1969.4	2022.2	2011.9	1956.7	1860.7	1866.6	1817.4	1806.3	1752.8
42.5°	1974.5	1992.4	2103.7	2266.8	2350.1	2400.2	2378.2	2375.5	2337.3	2322.9	2277.9
45°	2029.8	2045.9	2186.2	2426.5	2618.5	2764.7	2825.0	2831.8	2799.6	2785.1	2747.7
47.5°	2027.3	2045.9	2196.3	2486.1	2768.9	3002.6	3172.6	3181.0	3200.6	3187.8	3190.3
50°	1915.1	1932.9	2084.1	2384.9	2724.8	3111.4	3422.3	3449.5	3481.0	3502.2	3512.4
52.5°	1779.2	1791.9	1926.2	2211.6	2536.2	3066.3	3570.2	3616.9	3663.7	3703.6	3731.6
55°	1729.0	1743.5	1848.8	2085.9	2384.9	2877.7	3639.0	3707.8	3774.1	3839.5	3893.0
57.5°	1755.4	1768.9	1844.6	2026.3	2294.9	2678.9	3658.5	3765.6	3874.3	3980.5	4085.9
60°	1852.2	1866.6	1931.2	2081.6	2271.1	2564.2	3582.1	3759.7	3940.6	4125.8	4300.0
62.5°	1814.0	1819.9	1915.1	2178.4	2441.0	2466.5	3304.2	3552.3	3828.5	4113.9	4395.2
63°	1777.4	1784.2	1881.1	2152.1	2492.9	2452.0	3218.4	3480.1	3771.6	4079.1	4385.0
65°	1611.7	1612.6	1686.5	1900.7	2435.1	2477.5	2836.1	3085.9	3420.6	3789.3	4175.9
67.5°	1203.1	1197.1	1268.5	1431.6	1911.6	2478.3	2434.2	2574.4	2807.2	3134.3	3481.0
70°	426.5	417.2	532.7	758.7	1191.2	2027.3	2091.8	2101.1	2165.7	2342.4	2559.9
72.5°	138.5	141.0	170.0	277.9	548.8	1364.5	1893.9	1864.9	1847.9	1847.1	1876.0
75°	55.3	56.1	68.0	123.2	246.4	657.6	1658.5	1674.6	1680.6	1689.0	1698.4
77.5°	26.3	28.9	38.2	68.8	122.3	325.4	1187.0	1323.7	1401.9	1462.2	1498.8
80°	9.3	11.1	21.2	42.5	56.9	149.5	625.3	754.5	869.2	1017.0	1144.5
82.5°	0.0	0.0	4.3	29.8	31.4	60.3	256.6	300.7	344.1	446.0	572.7
85°	0.0	0.0	0.0	8.5	9.3	10.2	86.7	104.5	117.2	136.7	158.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	5.1	12.7	19.5
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3
2.5°	209.0	208.2	208.2	206.4	205.6	203.9	203.1	200.6	199.6	199.6	199.6
5°	247.3	243.8	242.1	237.9	235.4	234.5	230.2	228.6	226.0	226.9	222.6
7.5°	289.8	283.8	281.2	275.3	273.6	267.6	266.0	261.7	259.2	254.0	252.4
10°	336.5	328.8	324.6	315.3	312.7	308.4	303.4	298.2	294.0	288.8	286.3
12.5°	390.0	383.2	379.8	367.1	361.1	355.2	348.4	341.6	334.8	330.5	324.6
15°	452.8	441.8	438.4	426.5	416.3	408.7	399.4	390.8	385.8	377.2	371.3
17.5°	514.9	503.8	501.3	483.4	472.4	467.3	457.1	446.0	436.7	428.2	418.9
20°	576.9	569.2	562.4	545.5	533.6	525.1	511.4	500.5	492.7	480.9	469.0
22.5°	638.9	631.3	626.1	608.4	597.3	585.4	573.5	561.6	550.6	536.1	522.5
25°	702.6	697.6	695.0	678.9	668.7	657.6	645.7	632.1	618.5	602.4	587.9
27.5°	768.9	770.6	765.5	762.1	751.1	743.4	724.7	715.4	705.2	685.7	667.8
30°	853.0	858.1	856.5	859.0	852.2	847.1	832.7	820.7	808.8	790.1	769.8
32.5°	959.3	966.1	969.4	978.8	975.4	973.7	969.4	952.5	943.9	911.6	903.2
35°	1123.2	1119.8	1134.2	1141.9	1138.5	1136.8	1131.7	1122.3	1112.2	1089.2	1068.0
37.5°	1336.5	1339.9	1344.9	1329.7	1319.4	1318.6	1303.4	1294.0	1279.5	1254.1	1228.6
40°	1727.3	1706.1	1682.2	1617.7	1589.7	1573.5	1528.5	1515.7	1491.1	1456.3	1430.0
42.5°	2235.4	2214.2	2142.8	2034.9	1977.1	1897.2	1860.7	1815.6	1780.8	1723.9	1693.3
45°	2740.1	2678.9	2670.4	2544.7	2473.3	2367.9	2302.5	2226.9	2147.8	2073.1	2018.7
47.5°	3165.7	3152.1	3110.5	3034.1	2967.7	2879.4	2795.3	2678.9	2597.3	2491.1	2393.4
50°	3506.4	3505.6	3490.3	3446.1	3390.9	3319.6	3245.6	3147.0	3054.4	2924.5	2819.9
52.5°	3761.3	3774.9	3780.0	3766.4	3745.1	3682.3	3645.0	3562.5	3484.3	3373.9	3260.9
55°	3948.2	3998.4	4023.8	4052.8	4046.8	4024.7	4023.0	3969.5	3933.8	3846.3	3766.4
57.5°	4179.4	4261.8	4340.8	4481.0	4486.1	4535.4	4560.9	4586.4	4593.1	4558.3	4531.9
60°	4473.3	4641.5	4791.1	5084.2	5160.7	5281.3	5359.5	5444.4	5516.7	5522.6	5521.0
62.5°	4680.6	4939.8	5181.1	5616.0	5764.8	5904.1	6008.6	6091.0	6141.2	6192.1	6215.9
63°	4686.5	4970.4	5226.9	5675.6	5831.8	5964.4	6063.9	6140.3	6193.0	6223.6	6238.8
65°	4543.0	4887.1	5193.0	5639.8	5786.8	5920.2	5972.0	6022.2	6047.7	6059.6	6014.5
67.5°	3850.5	4187.0	4543.8	5043.4	5169.1	5328.9	5371.4	5396.9	5408.8	5406.2	5367.9
70°	2879.4	3161.5	3558.3	4129.2	4295.7	4452.1	4549.0	4590.5	4604.1	4599.9	4543.0
72.5°	2010.2	2175.9	2503.0	3138.5	3365.4	3565.9	3685.7	3747.7	3760.5	3735.0	3682.3
75°	1688.2	1696.8	1770.6	2118.2	2330.5	2544.7	2679.7	2718.8	2693.3	2616.0	2481.8
77.5°	1507.3	1526.0	1526.0	1577.8	1619.4	1678.9	1691.6	1596.5	1486.0	1343.3	1227.7
80°	1264.3	1329.7	1375.5	1413.8	1418.1	1406.1	1374.7	1321.2	1236.2	1127.4	1006.8
82.5°	768.1	897.2	949.9	1147.0	1243.8	1309.3	1304.2	1232.8	1168.3	1055.3	952.5
85°	193.7	209.0	226.9	294.8	330.5	403.5	449.5	470.7	478.3	439.3	397.6
87.5°	18.7	12.7	21.2	16.2	23.0	17.0	23.0	21.2	26.3	28.0	30.6
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3
2.5°	198.0	197.1	196.3	195.4	194.6	193.7	192.0	192.0	190.3	189.5	188.7
5°	220.1	218.3	217.5	215.8	213.3	211.5	209.0	205.6	203.1	202.2	200.6
7.5°	248.1	243.8	242.1	239.6	236.2	231.1	227.7	225.1	220.9	218.3	213.3
10°	279.5	275.3	270.1	265.1	260.0	254.0	249.8	246.4	239.6	236.2	230.2
12.5°	319.4	311.8	305.9	299.1	292.3	285.5	280.4	270.1	264.3	256.6	251.5
15°	360.3	353.5	346.6	338.1	328.0	316.9	311.8	302.5	294.8	282.9	276.1
17.5°	409.5	396.7	386.6	376.4	367.1	356.8	346.6	332.2	321.1	311.0	297.4
20°	458.0	442.7	431.6	418.0	404.5	388.3	376.4	366.2	350.9	337.3	322.9
22.5°	509.8	494.5	476.7	463.1	444.4	431.6	415.4	398.5	383.2	365.3	347.5
25°	572.7	556.5	536.1	518.2	497.0	479.2	459.6	440.1	421.4	401.0	378.0
27.5°	650.0	632.9	610.9	589.7	561.6	539.5	520.8	494.5	470.7	445.2	418.9
30°	747.6	729.0	701.8	671.2	643.2	618.5	592.2	557.4	531.0	500.5	466.4
32.5°	875.2	853.0	816.5	787.6	752.7	720.5	683.9	649.1	611.7	571.8	532.7
35°	1035.7	1015.4	972.8	930.3	892.1	853.9	808.0	768.1	715.4	667.0	616.8
37.5°	1202.2	1165.7	1126.6	1080.8	1033.1	987.3	931.2	876.0	815.6	763.0	700.1
40°	1392.6	1348.4	1316.1	1266.8	1199.7	1134.2	1082.4	1013.6	938.0	867.4	793.6
42.5°	1653.4	1604.1	1546.3	1471.5	1423.2	1346.7	1279.5	1198.0	1098.6	1019.5	930.3
45°	1955.0	1887.9	1831.8	1759.5	1700.9	1605.8	1527.6	1418.9	1319.4	1215.8	1107.1
47.5°	2299.1	2215.8	2134.2	2062.9	1969.4	1876.0	1776.6	1661.0	1533.6	1419.7	1290.6
50°	2694.2	2576.1	2463.1	2371.4	2243.0	2135.1	2027.3	1897.2	1756.2	1625.3	1478.3
52.5°	3133.4	2996.7	2847.1	2706.1	2557.4	2418.9	2288.9	2139.4	1982.2	1822.4	1658.5
55°	3663.7	3560.9	3385.0	3205.7	3006.8	2821.6	2654.2	2469.0	2277.9	2068.0	1895.5
57.5°	4493.7	4443.6	4296.6	4117.3	3858.2	3633.0	3349.2	3122.4	2845.4	2556.6	2334.0
60°	5618.6	5556.6	5474.2	5328.9	5123.3	4817.4	4504.8	4152.1	3730.7	3330.5	2950.8
62.5°	6218.5	6196.4	6129.2	6029.0	5837.0	5595.7	5280.5	4893.1	4417.2	3931.3	3447.0
63°	6236.3	6208.3	6150.5	6048.5	5879.5	5645.8	5336.6	4960.1	4494.5	3999.2	3504.8
65°	5995.0	5983.9	5925.3	5814.1	5698.5	5520.0	5280.5	4956.8	4565.9	4097.8	3605.9
67.5°	5317.0	5283.8	5193.8	5159.8	5079.1	4955.1	4772.4	4549.8	4270.3	3902.3	3477.5
70°	4497.1	4447.8	4334.8	4274.5	4175.9	4097.8	3986.4	3827.6	3655.1	3398.5	3081.6
72.5°	3627.9	3526.0	3422.3	3265.1	3127.5	2988.2	2864.9	2752.9	2563.4	2459.6	2219.3
75°	2356.0	2170.8	1993.2	1755.4	1541.2	1351.7	1167.4	1074.0	879.4	800.4	687.4
77.5°	1118.1	1014.4	875.2	767.3	629.6	514.0	419.7	315.3	247.3	193.7	147.8
80°	902.3	814.8	730.7	632.9	529.3	422.2	323.7	242.1	171.6	119.0	84.1
82.5°	804.6	709.4	605.8	538.7	468.2	383.2	314.3	256.6	189.5	138.5	94.3
85°	312.7	263.4	203.1	165.7	129.1	106.2	96.0	66.2	51.8	40.7	31.4
87.5°	27.2	22.0	17.9	11.9	12.7	6.8	7.6	5.1	4.3	4.3	3.4
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3
2.5°	187.8	186.9	186.0	184.4	184.4	182.7	181.9	180.9	176.7	167.3	159.7
5°	197.1	195.4	193.7	191.2	189.5	186.9	185.2	182.7	173.3	155.4	140.2
7.5°	210.7	207.4	204.7	199.6	197.1	193.7	191.2	186.9	171.6	144.5	123.2
10°	226.9	220.9	216.7	210.7	205.6	201.4	197.1	191.2	170.0	132.6	107.9
12.5°	246.4	239.6	231.1	224.3	217.5	211.5	205.6	198.0	167.3	122.3	96.0
15°	266.0	255.7	249.8	240.5	231.1	222.6	214.1	207.4	168.2	111.3	85.8
17.5°	288.0	277.9	265.1	254.9	244.7	233.7	223.4	209.9	164.0	102.8	78.1
20°	309.3	294.8	282.9	270.1	255.7	242.1	229.4	217.5	160.6	94.3	71.3
22.5°	332.2	315.3	299.9	283.8	266.0	250.6	235.4	220.1	154.6	86.7	65.4
25°	360.3	340.7	318.6	299.1	280.4	261.7	242.1	223.4	148.7	79.9	61.2
27.5°	394.2	368.7	346.6	322.0	295.6	271.9	250.6	230.2	142.7	74.8	56.9
30°	437.6	407.8	376.4	344.9	316.9	289.8	260.0	234.5	136.7	69.7	52.7
32.5°	495.4	458.0	419.7	383.2	345.8	311.0	279.5	246.4	133.4	65.4	48.5
35°	571.8	523.4	476.7	430.8	385.8	343.3	302.5	265.1	133.4	60.3	43.3
37.5°	644.0	587.9	528.5	471.5	418.0	368.7	320.3	275.3	126.6	56.1	39.1
40°	722.1	655.1	585.4	518.2	453.7	392.6	337.3	285.5	120.7	51.0	34.8
42.5°	842.0	757.0	666.1	587.9	510.6	435.0	366.2	305.0	113.0	45.9	30.6
45°	999.2	891.3	784.2	689.0	590.5	497.9	416.3	340.7	111.3	41.7	26.3
47.5°	1167.4	1039.9	914.2	792.7	677.1	569.2	471.5	380.7	111.3	37.4	23.0
50°	1334.8	1175.1	1040.8	899.7	769.8	642.3	526.0	422.2	112.2	34.0	18.7
52.5°	1486.0	1315.3	1164.8	1001.7	858.1	710.3	583.7	463.1	110.4	29.8	15.3
55°	1695.8	1495.4	1321.2	1141.0	972.8	806.3	662.7	524.2	111.3	26.3	12.7
57.5°	2082.4	1847.1	1637.2	1401.0	1207.4	992.4	818.2	650.0	121.5	22.0	9.3
60°	2637.2	2331.4	2036.6	1748.6	1502.1	1246.4	1020.4	822.4	142.7	17.9	6.8
62.5°	3010.3	2610.1	2258.3	1940.6	1654.2	1386.6	1140.2	915.1	157.2	14.4	4.3
63°	3048.5	2634.7	2281.2	1953.3	1661.0	1393.4	1145.3	921.9	158.0	13.6	4.3
65°	3120.7	2677.2	2294.0	1955.8	1654.2	1384.0	1141.9	921.0	159.7	11.1	3.4
67.5°	3038.3	2611.7	2220.1	1882.8	1594.8	1328.8	1099.4	887.0	158.9	7.6	2.5
70°	2717.1	2363.6	2019.5	1705.2	1443.5	1203.1	1000.8	808.8	146.1	5.1	1.7
72.5°	1994.9	1754.5	1487.7	1260.8	1087.5	903.2	770.6	607.4	113.0	3.4	0.8
75°	591.4	538.7	452.8	399.4	352.6	291.4	259.2	202.2	57.8	1.7	0.0
77.5°	118.1	107.1	96.0	87.5	82.4	70.5	67.2	55.3	23.8	0.8	0.0
80°	62.0	51.0	43.3	38.2	33.1	27.2	23.0	18.7	4.3	0.0	0.0
82.5°	59.4	39.9	28.9	23.8	20.4	16.2	12.7	9.3	2.5	0.0	0.0
85°	22.0	17.0	12.7	10.2	8.5	7.6	6.0	5.1	0.0	0.0	0.0
87.5°	3.4	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.0	0.0	0.0
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):**

	125°	135°	145°	155°	165°	175°	180°
0°	179.3	179.3	179.3	179.3	179.3	179.3	179.3
2.5°	152.1	145.3	141.9	137.7	137.7	136.7	138.5
5°	126.6	117.2	110.4	105.4	106.2	103.6	104.5
7.5°	107.1	97.7	91.7	88.4	87.5	86.7	86.7
10°	92.7	84.1	79.0	76.5	75.6	75.6	75.6
12.5°	82.4	74.0	69.7	68.0	68.0	67.2	67.2
15°	74.0	67.2	62.9	61.2	61.2	60.3	61.2
17.5°	67.2	60.3	56.9	55.3	55.3	54.4	54.4
20°	61.2	55.3	51.8	49.3	49.3	48.5	49.3
22.5°	56.1	50.1	45.9	44.2	43.3	42.5	43.3
25°	51.0	45.0	40.7	38.2	37.4	37.4	36.6
27.5°	46.7	40.7	35.7	33.1	32.3	32.3	31.4
30°	42.5	35.7	30.6	28.0	27.2	27.2	27.2
32.5°	38.2	30.6	26.3	23.8	23.0	23.0	23.0
35°	34.0	26.3	22.0	19.5	18.7	18.7	18.7
37.5°	28.9	22.0	17.0	15.3	14.4	13.6	13.6
40°	24.7	17.0	12.7	11.1	9.3	9.3	9.3
42.5°	20.4	13.6	9.3	6.8	6.0	5.1	6.0
45°	17.0	10.2	6.0	3.4	2.5	2.5	2.5
47.5°	13.6	6.8	2.5	0.8	0.8	0.8	0.8
50°	10.2	4.3	0.8	0.0	0.0	0.8	0.8
52.5°	7.6	2.5	0.0	0.0	0.0	0.0	0.0
55°	4.3	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)