

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: P180741

Luminaire Tested: **ICS-F03-LED-E1-SL3-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180741  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICS-F03-LED-E1-SL3-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5711.9 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type III - 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

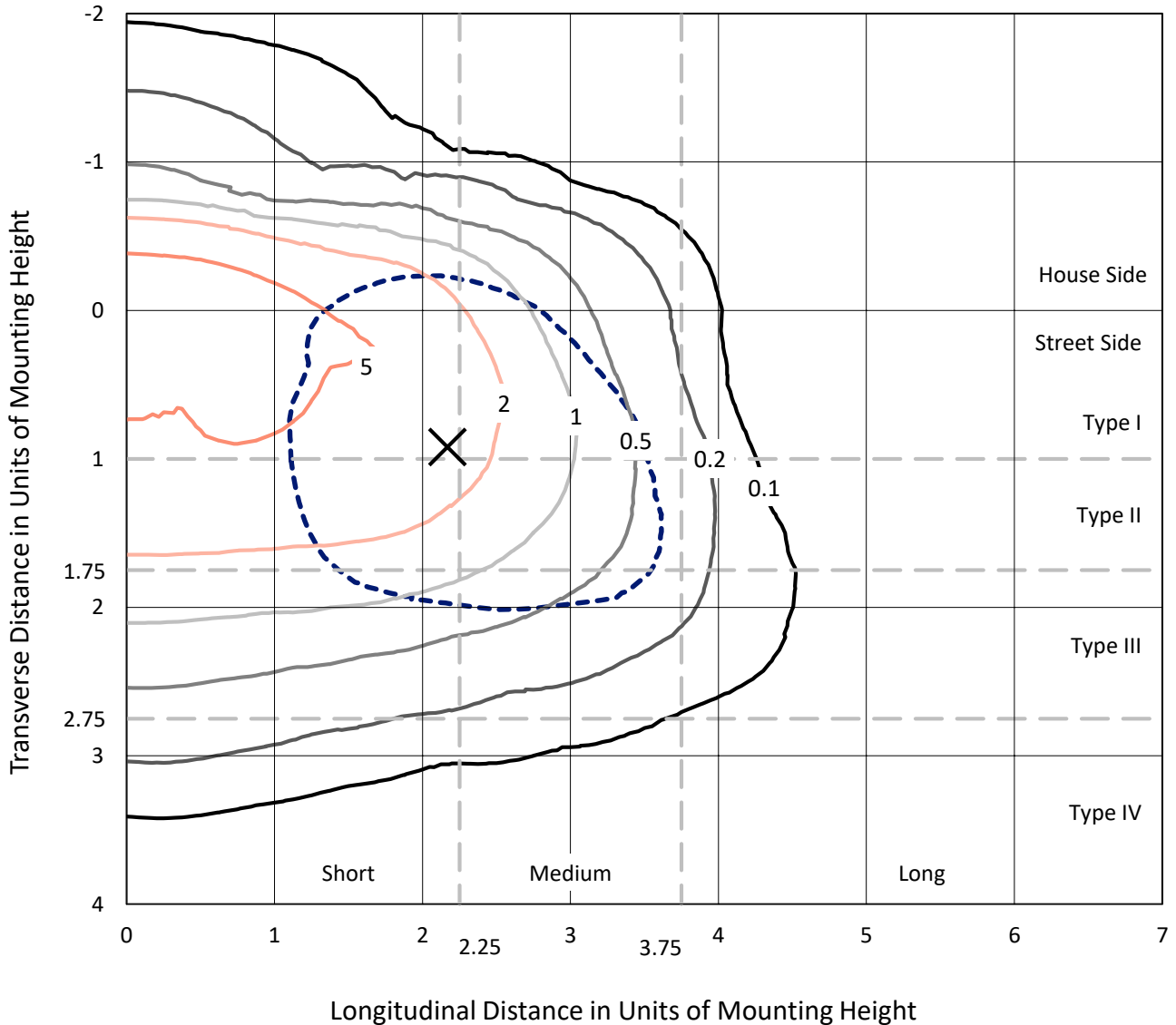


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

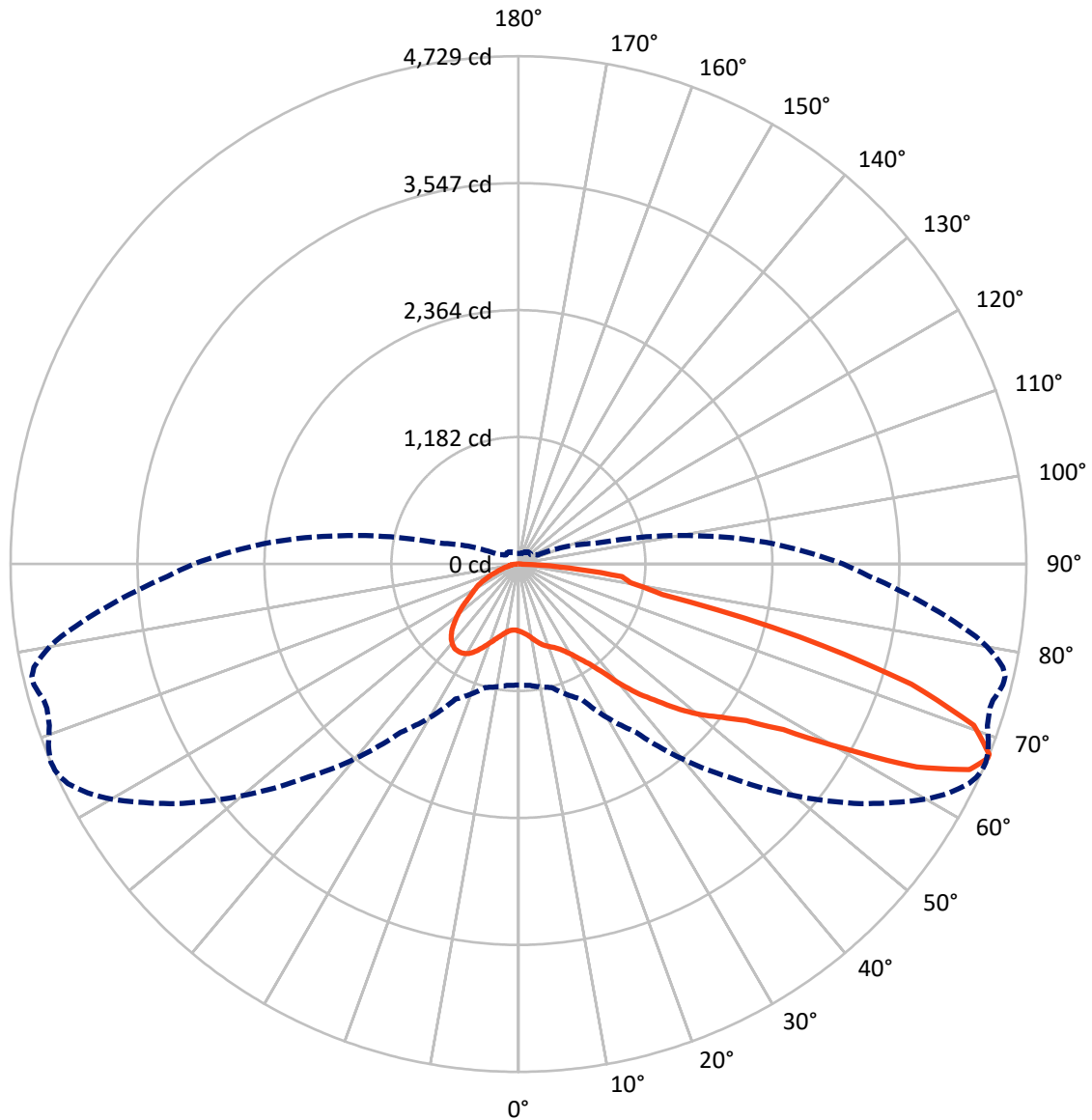


Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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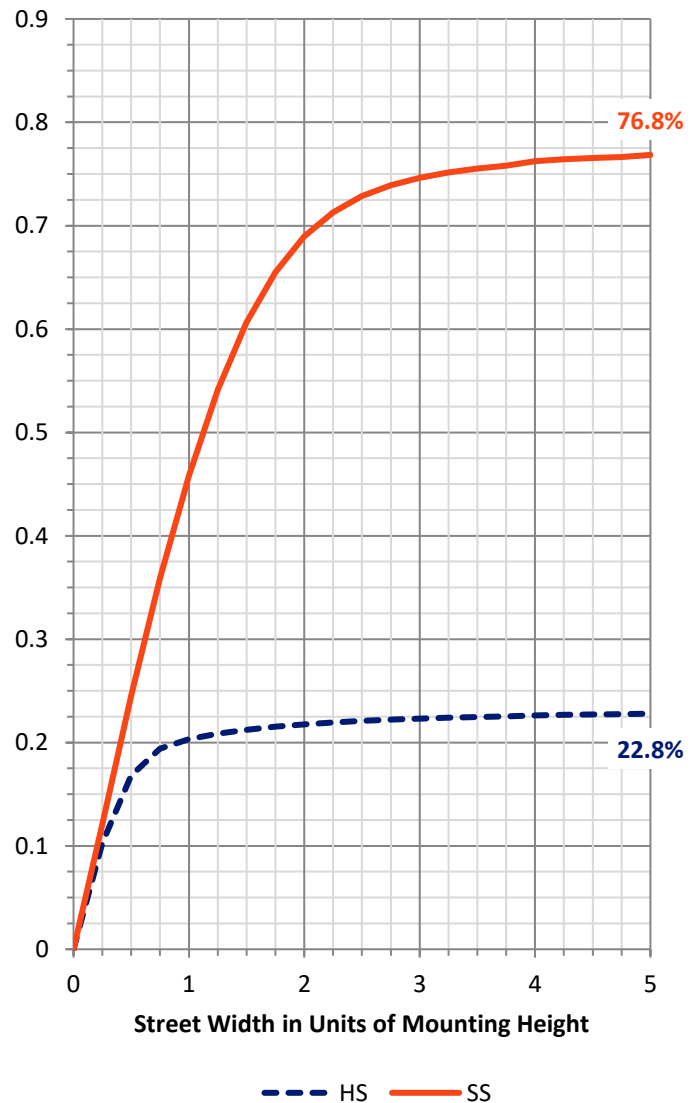
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1318.1	0.0	1318.1
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	4393.8	0.0	4393.8
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	5711.9	0.0	5711.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	1.1
10°-20°	213.0	3.7
20°-30°	376.1	6.6
30°-40°	539.9	9.5
40°-50°	820.0	14.4
50°-60°	1207.3	21.1
60°-70°	1604.4	28.1
70°-80°	784.9	13.7
80°-90°	104.2	1.8
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°	5711.9	100.0
0°-180°	5711.9	100.0



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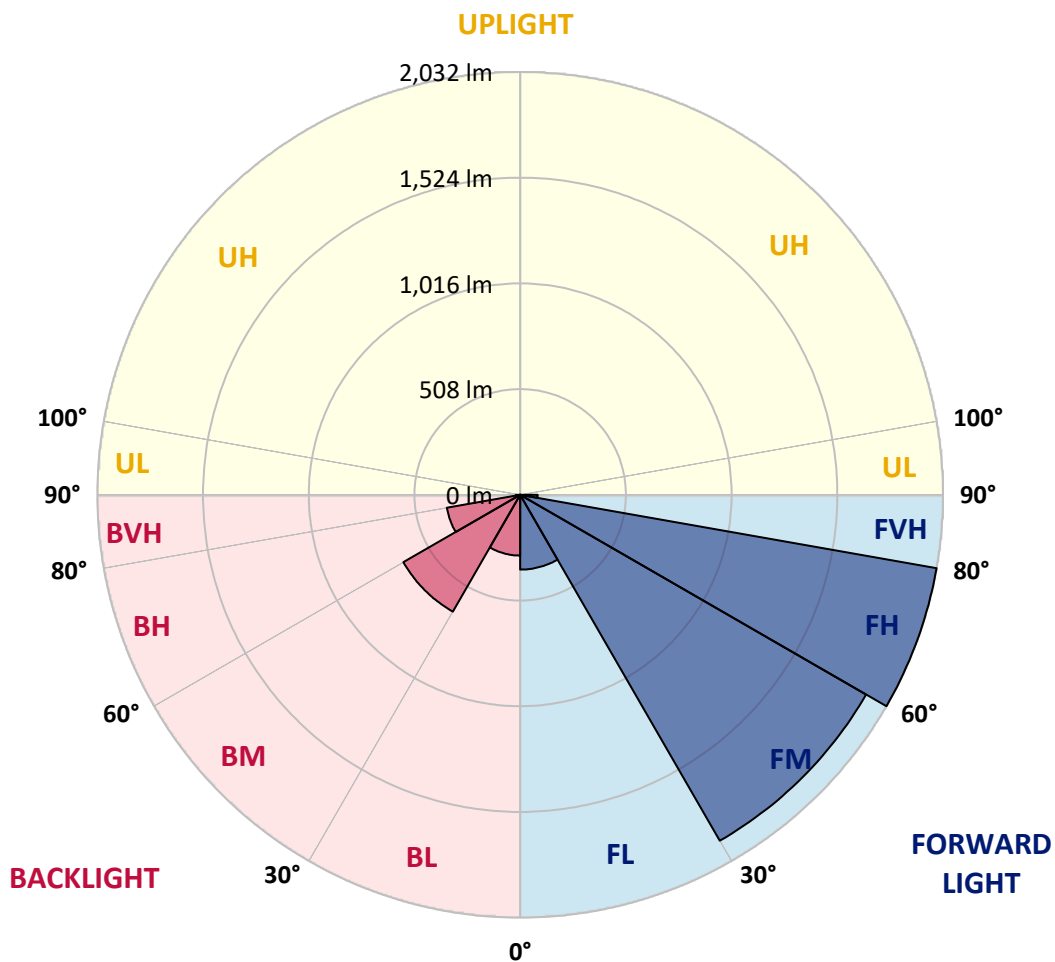
CATALOG NUMBER: ICS-F03-LED-E1-SL3-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.3	6.3			
FM	(30°-60°)	1919.1	33.6			
FH	(60°-80°)	2031.7	35.6			G2/5000
FVH	(80°-90°)	83.7	1.5			G1/100
BL	(0°-30°)	291.9	5.1	B1/500		
BM	(30°-60°)	648.0	11.3	B1/1000		
BH	(60°-80°)	357.6	6.3	B1/500		G1/500
BVH	(80°-90°)	20.5	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
2.5°	653.4	654.1	652.8	652.2	648.4	644.7	642.1	639.0	639.0	639.0	637.8
5°	690.4	687.9	689.8	685.4	677.9	671.0	664.1	658.5	657.2	657.2	654.7
7.5°	735.0	731.8	730.6	724.3	713.0	703.0	689.2	683.5	680.4	679.1	677.9
10°	788.9	788.9	780.7	770.1	755.0	737.5	722.4	712.4	711.8	711.8	706.1
12.5°	844.1	845.3	834.7	824.0	799.5	776.3	758.8	747.5	746.9	744.4	741.2
15°	894.9	891.7	884.8	869.2	842.2	814.6	792.6	781.4	778.9	776.3	774.5
17.5°	936.9	933.7	925.0	904.9	876.7	844.1	817.1	805.2	803.9	802.7	800.2
20°	963.2	960.7	948.2	925.0	895.5	862.3	833.4	825.3	822.8	822.8	821.5
22.5°	978.3	974.5	956.3	925.6	896.7	872.3	848.5	843.4	841.6	842.2	842.2
25°	985.8	982.7	956.9	913.1	885.5	878.6	868.5	865.4	866.0	866.6	867.9
27.5°	987.0	982.7	952.6	896.7	871.0	890.5	897.4	902.4	902.4	904.9	909.3
30°	977.6	972.6	943.8	884.2	864.8	914.3	941.9	955.1	960.1	958.8	968.9
32.5°	961.3	958.2	935.0	884.2	882.3	961.3	1010.3	1029.1	1031.6	1032.8	1044.1
35°	955.7	955.1	945.0	914.3	936.9	1044.1	1118.7	1133.2	1136.3	1136.3	1144.5
37.5°	954.4	957.6	968.9	970.7	1032.8	1167.0	1264.9	1286.8	1286.8	1293.1	1293.1
40°	954.4	961.3	1004.0	1054.8	1150.1	1326.9	1462.4	1487.5	1487.5	1494.4	1490.6
42.5°	991.4	1001.5	1071.7	1168.3	1298.1	1491.9	1647.4	1675.6	1677.5	1675.6	1681.2
45°	1064.2	1073.0	1158.2	1296.8	1450.5	1668.7	1824.2	1858.1	1851.2	1855.6	1857.5
47.5°	1160.8	1174.6	1271.8	1437.3	1599.1	1832.4	2022.4	2053.1	2050.6	2052.5	2044.3
50°	1263.6	1278.0	1386.5	1576.5	1747.1	1964.1	2181.7	2227.4	2223.1	2226.2	2230.6
52.5°	1354.5	1363.3	1468.0	1681.2	1859.3	2087.0	2304.0	2361.0	2371.1	2372.3	2375.4
55°	1408.5	1419.1	1515.1	1733.3	1940.9	2207.4	2443.8	2530.3	2549.8	2554.8	2568.6
57.5°	1427.3	1438.6	1525.7	1740.8	1985.4	2320.3	2638.8	2791.2	2807.5	2834.5	2878.4
60°	1426.6	1438.6	1514.4	1723.9	2030.5	2460.1	2942.3	3197.6	3280.3	3307.9	3370.6
62.5°	1368.3	1382.1	1459.3	1672.5	2088.2	2638.8	3393.8	3786.4	3893.0	3943.2	4010.9
65°	1240.4	1250.4	1322.5	1542.0	2071.9	2815.0	3771.4	4261.1	4358.3	4431.7	4552.7
67°	1126.9	1133.2	1189.6	1387.8	1912.6	2821.3	3890.5	4379.0	4463.7	4541.4	4666.2
67.5°	1098.0	1111.2	1155.1	1340.7	1853.1	2785.6	3882.4	4360.8	4447.4	4528.3	4660.0
70°	893.6	912.4	934.4	1059.2	1456.7	2343.5	3594.5	4046.0	4121.9	4197.2	4380.9
72.5°	551.2	585.1	589.5	668.5	948.2	1619.8	2908.5	3412.0	3469.1	3523.0	3711.2
75°	324.8	329.9	345.5	409.5	556.2	968.2	1951.5	2534.7	2587.4	2613.7	2761.1
77.5°	181.2	186.2	199.4	254.6	427.7	652.2	1136.3	1489.4	1521.3	1554.6	1530.7
80°	75.3	82.1	88.4	102.8	200.0	514.8	781.4	946.9	967.6	987.0	1011.5
82.5°	36.4	38.9	47.7	54.6	72.7	211.3	612.7	820.9	845.3	873.5	930.6
85°	16.9	18.8	26.3	31.4	35.1	53.3	205.1	399.5	433.3	439.6	450.9
87.5°	1.3	1.3	3.1	4.4	6.3	6.9	21.3	30.1	33.9	30.7	38.9
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
2.5°	637.1	636.5	635.2	635.2	634.6	634.6	634.6	633.4	633.4	633.4	632.7
5°	654.1	653.4	651.6	651.6	650.3	650.3	648.4	647.8	646.5	646.5	645.9
7.5°	676.0	675.4	672.9	672.9	671.0	670.4	669.1	667.2	667.2	666.0	664.7
10°	706.1	704.2	703.6	700.5	701.1	699.8	698.6	696.7	695.4	694.2	692.9
12.5°	740.0	740.0	736.8	735.0	736.2	735.0	732.4	731.8	729.9	729.9	728.1
15°	772.0	772.0	770.7	768.2	768.8	766.9	766.3	765.1	762.5	763.2	762.5
17.5°	799.5	799.5	797.7	796.4	796.4	794.5	795.2	793.9	792.6	792.0	790.1
20°	821.5	821.5	820.2	819.0	819.6	819.6	817.7	817.7	817.7	816.5	816.5
22.5°	842.8	843.4	843.4	843.4	844.1	844.7	844.1	845.3	844.7	846.0	846.0
25°	871.0	872.9	874.2	874.2	877.3	877.9	878.6	880.4	880.4	882.3	883.0
27.5°	913.1	914.3	919.3	920.6	921.2	926.2	926.8	929.4	931.9	932.5	933.1
30°	970.7	973.9	977.6	980.2	980.2	986.4	988.9	987.7	994.6	996.5	999.0
32.5°	1047.9	1050.4	1054.1	1056.7	1059.2	1062.3	1062.9	1066.1	1071.7	1076.7	1073.6
35°	1145.1	1151.3	1145.1	1152.0	1153.9	1158.2	1157.0	1160.8	1163.3	1165.1	1164.5
37.5°	1286.2	1283.0	1281.8	1279.3	1274.9	1289.9	1282.4	1281.8	1278.0	1288.7	1281.8
40°	1471.8	1473.7	1475.6	1465.5	1459.9	1459.9	1458.0	1451.1	1448.0	1457.4	1456.1
42.5°	1665.6	1667.4	1658.7	1652.4	1638.0	1636.1	1627.3	1625.4	1622.3	1627.3	1622.3
45°	1841.8	1843.0	1823.6	1826.7	1815.4	1817.3	1803.5	1809.2	1801.6	1806.7	1816.1
47.5°	2038.7	2041.2	2024.3	2031.2	2019.9	2013.0	2012.4	2016.1	2008.0	2013.0	2015.5
50°	2217.4	2214.3	2205.5	2207.4	2202.4	2203.6	2196.1	2203.0	2193.6	2203.6	2202.4
52.5°	2376.1	2372.3	2370.4	2376.7	2372.3	2372.3	2367.9	2371.1	2372.3	2387.4	2390.5
55°	2568.6	2571.7	2574.9	2586.1	2591.2	2583.0	2591.2	2606.8	2607.5	2643.2	2662.7
57.5°	2877.7	2899.7	2911.0	2917.9	2947.4	2944.2	2963.0	3000.7	3004.4	3087.2	3135.5
60°	3417.0	3455.9	3492.9	3472.9	3532.4	3550.6	3561.9	3632.1	3654.1	3732.5	3774.5
62.5°	4098.1	4102.5	4160.2	4142.0	4175.8	4167.7	4181.5	4213.5	4242.3	4306.9	4346.4
65°	4573.4	4594.1	4616.7	4593.5	4592.9	4565.3	4547.7	4547.1	4564.6	4578.4	4622.3
67°	4702.6	4723.3	4728.9	4712.0	4687.5	4652.4	4619.8	4602.9	4591.6	4597.9	4625.5
67.5°	4701.3	4720.8	4727.7	4711.4	4677.5	4648.0	4613.5	4594.1	4579.1	4582.2	4605.4
70°	4434.2	4476.2	4498.8	4503.8	4499.4	4448.0	4418.5	4401.0	4388.4	4357.7	4355.8
72.5°	3756.9	3807.7	3825.3	3853.5	3866.0	3790.2	3758.2	3777.6	3733.7	3636.5	3640.9
75°	2758.6	2762.4	2703.4	2692.1	2650.1	2478.3	2426.9	2379.8	2304.6	2187.3	2076.9
77.5°	1437.9	1437.3	1369.6	1335.1	1284.9	1181.4	1176.4	1092.4	1033.5	926.2	887.3
80°	1021.5	1037.8	1060.4	1071.7	1054.1	1014.0	958.8	899.3	830.9	763.8	683.5
82.5°	950.1	960.1	972.0	928.1	903.6	847.2	805.2	718.7	670.4	593.9	513.0
85°	462.2	492.9	469.1	441.5	432.1	338.0	326.7	272.8	247.7	203.8	190.0
87.5°	29.5	36.4	32.6	29.5	25.7	14.4	19.4	13.8	14.4	10.7	9.4
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
2.5°	632.7	632.1	631.5	630.9	630.2	630.2	629.6	629.0	628.4	627.1	627.1
5°	644.7	644.7	644.0	642.8	642.8	641.5	639.6	639.0	639.0	637.8	636.5
7.5°	664.1	663.5	662.2	661.6	660.3	659.1	657.8	656.6	655.9	654.1	653.4
10°	693.6	692.3	689.2	687.9	687.3	686.0	684.8	683.5	681.7	680.4	679.8
12.5°	726.8	726.2	723.7	724.9	721.8	720.5	719.3	716.1	717.4	714.9	713.6
15°	760.0	760.7	759.4	759.4	756.9	755.0	753.8	751.3	750.6	749.4	748.1
17.5°	789.5	790.8	788.9	787.6	786.4	785.1	782.6	780.1	780.1	777.6	776.3
20°	816.5	817.7	817.1	815.9	814.0	813.3	812.1	810.2	810.2	809.0	807.1
22.5°	847.2	847.8	847.8	847.2	845.3	846.0	844.7	842.8	843.4	840.9	840.9
25°	884.2	885.5	886.7	887.3	886.1	886.7	885.5	884.2	883.6	884.2	883.6
27.5°	935.0	936.3	940.0	936.9	940.0	940.6	938.8	936.3	938.1	941.3	939.4
30°	1002.1	1000.8	1005.9	1006.5	1005.9	1006.5	1005.2	1003.4	1004.6	1010.3	1007.1
32.5°	1077.4	1079.9	1081.1	1082.4	1084.2	1086.8	1084.9	1083.0	1086.1	1084.2	1088.6
35°	1168.3	1173.9	1175.8	1173.9	1175.2	1179.6	1178.9	1179.6	1185.8	1179.6	1187.7
37.5°	1283.0	1288.7	1293.1	1290.6	1293.7	1293.7	1298.7	1312.5	1303.7	1315.0	1323.8
40°	1449.8	1458.6	1459.3	1458.6	1461.8	1465.5	1470.5	1485.6	1475.6	1487.5	1495.6
42.5°	1621.7	1632.3	1636.1	1629.8	1636.7	1644.9	1645.5	1658.7	1659.3	1661.2	1665.6
45°	1815.4	1824.8	1832.4	1829.2	1829.9	1840.5	1838.0	1850.6	1841.2	1841.2	1843.7
47.5°	2021.8	2030.5	2035.6	2040.6	2034.3	2043.7	2048.1	2045.6	2034.3	2031.8	2016.7
50°	2209.9	2217.4	2224.9	2238.7	2238.1	2242.5	2245.6	2234.3	2231.8	2218.0	2201.1
52.5°	2409.3	2428.7	2445.7	2474.5	2478.9	2494.0	2488.3	2469.5	2466.4	2443.8	2421.2
55°	2687.1	2742.9	2767.4	2811.9	2842.0	2841.4	2828.8	2825.7	2801.9	2756.7	2729.7
57.5°	3170.6	3257.8	3299.8	3357.5	3366.9	3361.2	3344.9	3316.1	3274.7	3198.8	3149.9
60°	3868.6	3922.5	3971.4	3985.2	3992.1	3981.4	3924.4	3860.4	3779.5	3674.8	3587.6
62.5°	4395.9	4451.1	4487.5	4481.9	4438.6	4384.0	4300.6	4193.4	4079.9	3962.6	3832.2
65°	4664.3	4687.5	4681.9	4638.0	4564.0	4468.7	4347.0	4214.7	4081.1	3942.6	3807.1
67°	4649.9	4650.5	4612.3	4527.0	4432.3	4312.5	4163.9	4019.7	3862.9	3717.4	3556.3
67.5°	4624.2	4621.7	4568.4	4475.0	4372.7	4249.2	4094.9	3945.7	3783.3	3636.5	3469.7
70°	4333.2	4298.1	4177.7	4028.5	3886.1	3719.3	3557.5	3386.3	3203.2	3077.2	2885.3
72.5°	3560.7	3442.1	3234.6	3078.4	2926.0	2707.8	2606.8	2394.3	2265.7	2185.4	2040.6
75°	2061.9	1962.8	1802.3	1656.2	1582.2	1453.0	1391.5	1235.4	1202.8	1201.5	1151.3
77.5°	787.0	686.7	583.2	469.7	399.5	317.3	279.7	250.2	227.6	243.3	220.7
80°	590.1	485.4	379.4	275.9	196.9	145.5	124.8	115.4	109.7	105.4	102.2
82.5°	439.6	346.8	269.0	175.6	122.9	92.8	80.3	75.3	72.7	68.4	64.6
85°	148.6	119.1	94.1	65.2	51.4	42.0	38.9	37.6	35.7	32.6	30.7
87.5°	8.2	7.5	8.2	6.3	7.5	6.3	6.9	6.9	6.9	6.3	6.3
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):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
2.5°	626.5	626.5	626.5	625.2	623.3	619.6	615.8	612.7	609.5	607.7	606.4
5°	635.9	634.6	634.0	633.4	629.0	621.5	614.6	608.3	602.0	597.0	595.1
7.5°	652.8	650.3	649.7	647.8	642.1	630.9	620.8	610.8	602.0	595.1	592.0
10°	678.5	678.5	674.8	672.2	666.0	650.9	636.5	623.3	611.4	603.9	602.0
12.5°	711.1	711.1	708.0	706.1	698.6	679.1	661.6	645.9	634.6	627.1	626.5
15°	745.0	744.4	741.9	739.3	731.2	710.5	692.9	679.1	669.7	661.0	658.5
17.5°	775.1	775.1	772.0	769.4	761.3	743.7	728.1	718.0	707.4	689.2	675.4
20°	805.2	805.8	803.3	800.8	793.9	778.9	772.0	761.9	738.1	698.6	666.0
22.5°	838.4	840.9	837.8	835.3	829.6	823.4	820.9	797.0	746.9	683.5	635.9
25°	881.1	885.5	881.7	880.4	877.3	879.2	871.7	816.5	734.3	650.9	591.4
27.5°	939.4	939.4	940.0	940.0	938.8	945.7	918.1	817.1	706.7	608.9	538.0
30°	1007.7	1011.5	1010.3	1010.3	1015.3	1019.7	943.8	803.3	671.6	556.9	472.8
32.5°	1089.9	1093.0	1094.3	1088.6	1108.7	1086.1	953.2	778.2	628.4	492.3	395.1
35°	1189.0	1193.4	1196.5	1197.1	1210.3	1143.8	948.2	741.2	566.3	411.4	309.8
37.5°	1318.2	1326.9	1333.8	1337.0	1337.6	1192.7	934.4	692.3	485.4	321.1	230.8
40°	1490.0	1499.4	1497.5	1503.8	1468.0	1221.6	903.0	621.5	385.0	235.8	178.1
42.5°	1655.5	1656.8	1659.3	1653.7	1580.9	1236.6	859.1	534.9	288.5	176.2	152.4
45°	1840.5	1829.9	1818.0	1809.2	1685.0	1242.3	798.9	429.6	203.8	148.0	141.1
47.5°	2014.2	1999.8	1975.4	1950.3	1777.8	1233.5	721.8	321.7	154.9	135.5	133.6
50°	2184.8	2157.8	2123.3	2094.5	1866.9	1220.3	636.5	232.0	135.5	129.2	127.3
52.5°	2396.1	2351.0	2305.8	2268.2	1982.9	1199.6	546.8	176.2	127.3	124.2	121.7
55°	2685.9	2623.1	2550.4	2497.7	2140.3	1168.3	452.8	149.2	123.5	121.0	117.3
57.5°	3087.2	2993.1	2911.0	2825.1	2355.4	1136.3	371.9	138.6	122.9	119.1	114.1
60°	3497.3	3384.4	3279.7	3156.8	2574.9	1104.3	315.4	137.3	124.8	119.1	111.6
62.5°	3710.5	3593.9	3467.8	3343.0	2669.5	1029.1	276.5	139.2	129.2	121.0	111.6
65°	3661.6	3519.3	3391.3	3264.0	2559.8	886.7	233.9	141.7	138.0	128.6	113.5
67°	3415.8	3267.2	3144.3	3022.6	2315.2	742.5	200.7	144.2	147.4	137.3	117.3
67.5°	3329.3	3180.6	3059.6	2941.1	2243.1	712.4	192.5	145.5	149.2	139.8	118.5
70°	2760.5	2651.4	2522.8	2431.3	1816.1	527.4	158.0	148.0	160.5	154.3	124.2
72.5°	1986.6	1882.5	1786.0	1735.2	1337.6	368.7	132.9	145.5	167.4	162.4	126.7
75°	1056.0	1049.8	1014.6	1039.7	827.8	240.8	117.3	136.1	159.9	148.6	117.9
77.5°	213.2	219.5	257.7	254.0	267.1	134.2	100.3	116.6	123.5	109.1	95.9
80°	99.1	97.2	95.3	96.6	94.7	85.9	81.5	91.6	85.9	70.2	64.0
82.5°	61.5	60.2	58.3	57.7	64.0	68.4	71.5	72.1	57.1	48.9	47.0
85°	29.5	29.5	28.8	30.1	37.6	55.8	60.2	53.3	38.3	35.1	33.2
87.5°	5.6	5.6	6.3	5.6	7.5	13.2	15.1	17.6	14.4	15.1	16.9
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):**

	165°	175°	180°
0°	624.0	624.0	624.0
2.5°	605.1	603.9	603.9
5°	592.6	592.0	592.0
7.5°	589.5	590.1	589.5
10°	601.4	600.8	603.3
12.5°	627.7	629.6	629.0
15°	655.3	656.6	656.6
17.5°	663.5	659.1	658.5
20°	642.1	634.0	632.1
22.5°	602.0	587.0	587.6
25°	551.2	533.0	534.3
27.5°	492.3	472.8	472.2
30°	421.4	400.1	389.4
32.5°	336.1	310.4	310.4
35°	252.7	232.0	224.5
37.5°	191.9	180.0	176.2
40°	159.9	154.3	153.0
42.5°	145.5	143.6	143.0
45°	138.0	136.7	136.1
47.5°	131.1	130.4	129.8
50°	126.0	125.4	124.8
52.5°	121.7	120.4	119.8
55°	115.4	115.4	115.4
57.5°	111.6	111.6	111.0
60°	107.9	107.2	107.2
62.5°	104.7	103.5	104.1
65°	102.8	101.0	101.0
67°	101.6	97.8	97.8
67.5°	101.6	96.6	96.6
70°	99.7	91.6	90.3
72.5°	97.8	85.9	84.0
75°	92.8	81.5	79.6
77.5°	79.6	72.7	71.5
80°	61.5	53.3	54.6
82.5°	44.5	38.3	37.6
85°	32.0	27.6	27.6
87.5°	16.9	14.4	15.1
90°	0.0	0.0	0.0

(END OF REPORT)