

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: P181512

Luminaire Tested: **ICS-F04-LED-E1-T3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181512
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-T3-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7735.7 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

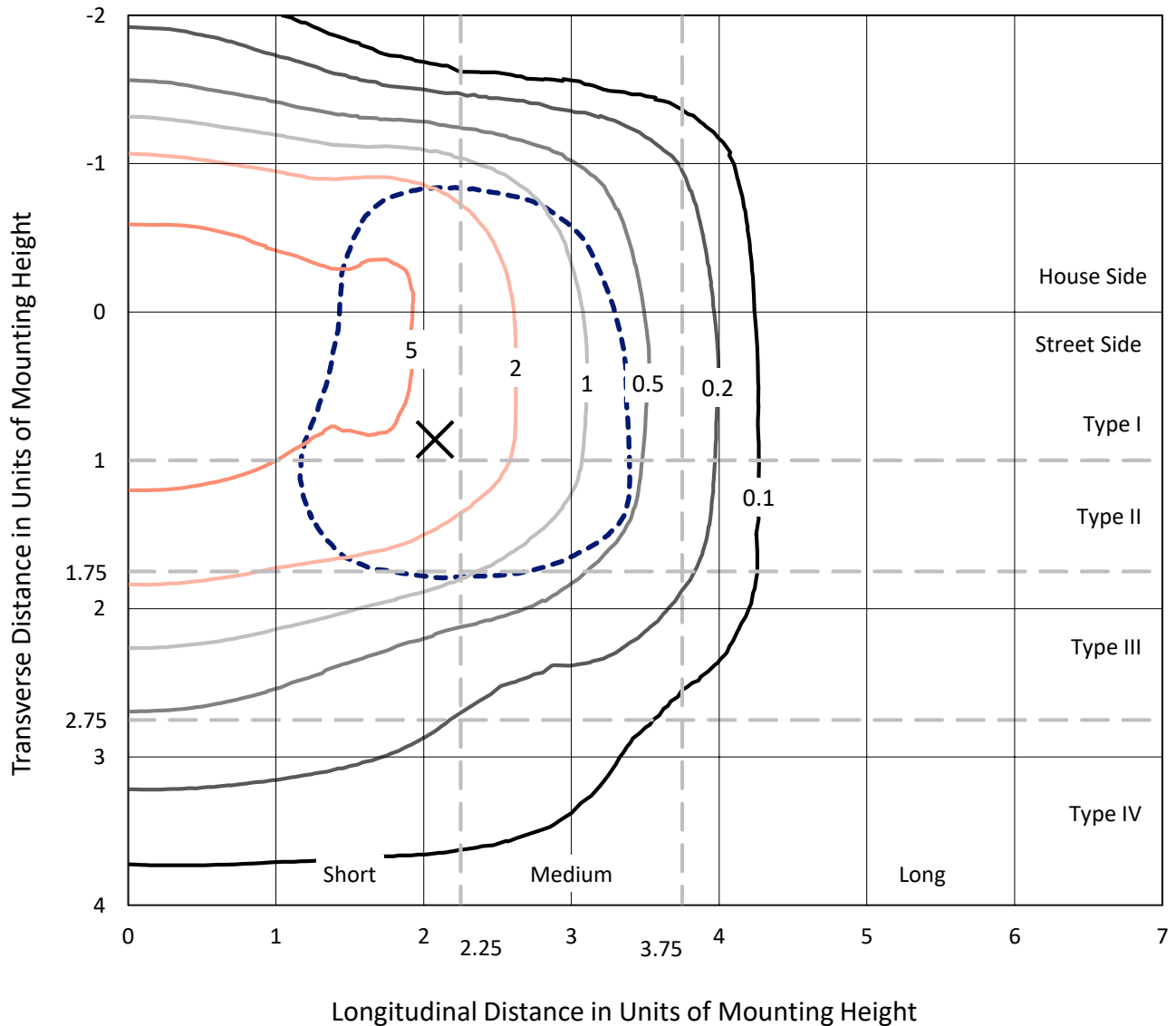
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

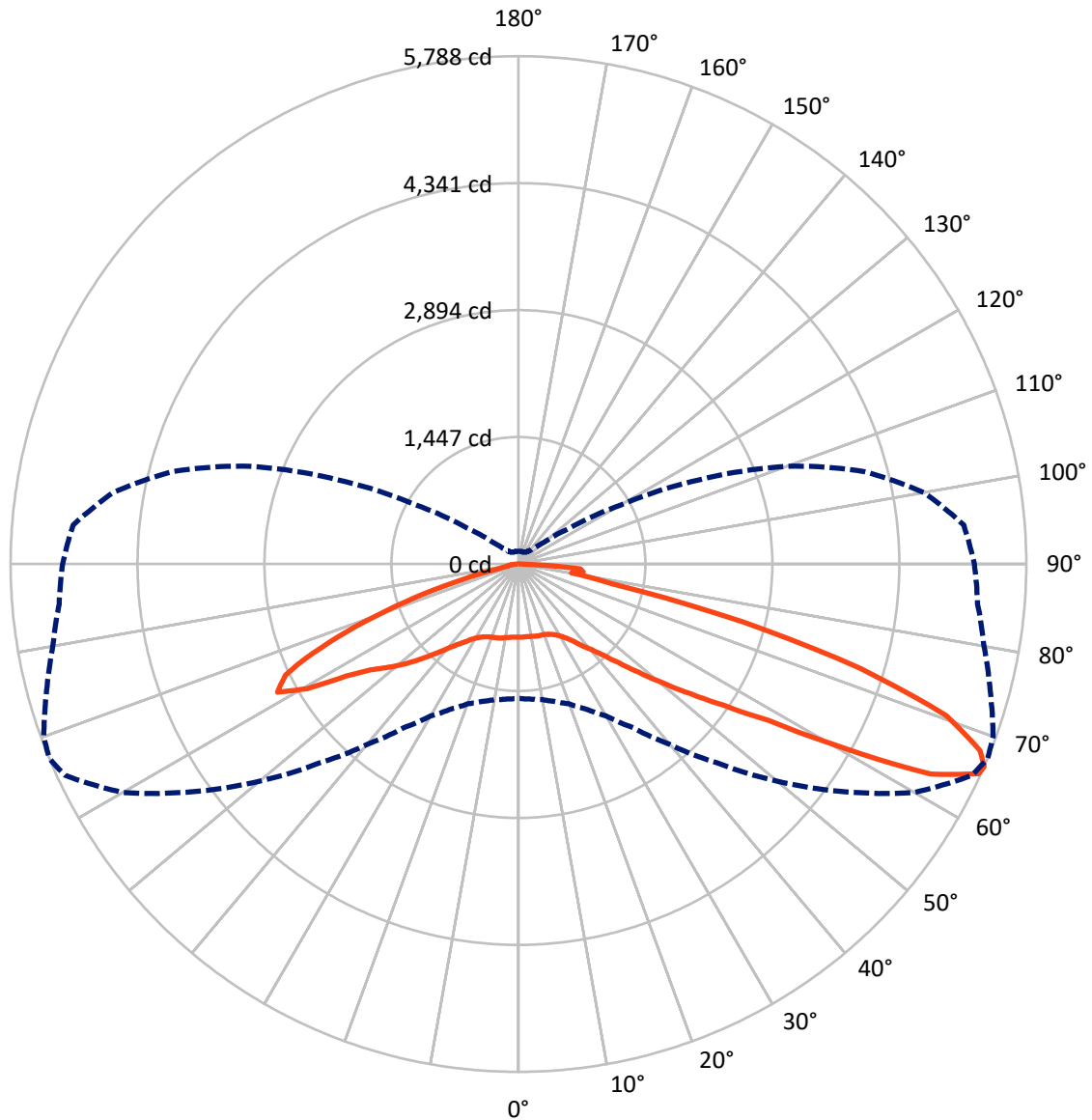
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2671.4	0.0	2671.4
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	5064.3	0.0	5064.3
	% Fixture	65.5	0.0	65.5
Total	Lumens	7735.7	0.0	7735.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.0
10°-20°	235.6	3.0
20°-30°	405.0	5.2
30°-40°	657.6	8.5
40°-50°	1097.8	14.2
50°-60°	1728.7	22.3
60°-70°	2357.2	30.5
70°-80°	1020.4	13.2
80°-90°	153.4	2.0
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°	7735.7	100.0
0°-180°	7735.7	100.0



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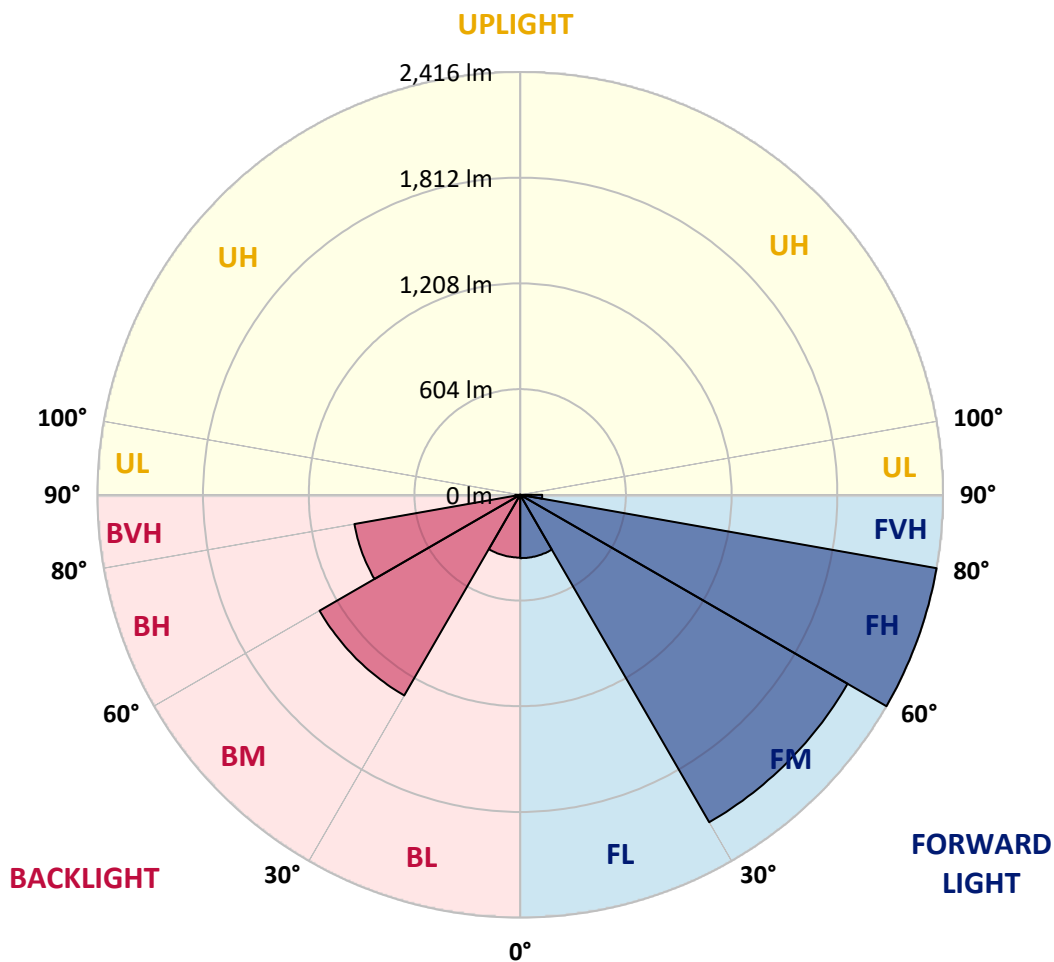
CATALOG NUMBER: ICS-F04-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.9	4.7			
FM	(30°-60°)	2160.3	27.9			
FH	(60°-80°)	2416.1	31.2			G2/5000
FVH	(80°-90°)	126.0	1.6			G2/225
BL	(0°-30°)	358.6	4.6	B1/500		
BM	(30°-60°)	1323.8	17.1	B2/2500		
BH	(60°-80°)	961.6	12.4	B2/1000		G2/1000
BVH	(80°-90°)	27.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6
2.5°	837.0	840.3	837.0	837.8	838.6	837.8	837.0	837.0	834.5	836.1	837.8
5°	833.6	836.1	835.3	836.1	837.0	836.1	835.3	836.1	834.5	835.3	837.8
7.5°	829.4	828.6	829.4	831.1	832.8	832.8	832.8	833.6	832.8	832.8	835.3
10°	816.9	817.7	819.4	821.9	822.8	825.3	825.3	827.8	828.6	830.3	833.6
12.5°	801.0	801.8	803.5	805.2	809.4	813.6	813.6	819.4	821.9	826.1	831.9
15°	789.3	790.1	791.8	793.5	796.8	801.0	803.5	810.2	814.4	821.9	830.3
17.5°	796.0	795.2	796.8	797.7	797.7	801.0	801.0	806.0	811.0	817.7	828.6
20°	815.2	815.2	816.9	816.9	816.1	817.7	814.4	814.4	815.2	818.6	826.1
22.5°	834.5	833.6	837.0	838.6	839.5	842.0	838.6	837.8	833.6	831.1	833.6
25°	852.9	852.0	856.2	858.7	862.9	865.4	865.4	865.4	862.0	857.9	855.4
27.5°	881.3	881.3	885.5	888.0	891.3	896.3	898.8	898.8	899.7	893.8	889.6
30°	928.9	929.8	930.6	934.0	937.3	939.0	942.3	944.8	947.3	944.0	937.3
32.5°	985.8	980.8	980.8	985.8	990.0	995.0	996.7	1000.0	1005.0	1002.5	1001.7
35°	1053.5	1051.8	1050.2	1051.8	1056.9	1062.7	1069.4	1075.3	1071.9	1076.9	1074.4
37.5°	1153.9	1155.5	1156.4	1156.4	1155.5	1157.2	1160.5	1166.4	1164.7	1166.4	1169.7
40°	1319.4	1313.6	1307.7	1308.5	1300.2	1301.9	1288.5	1294.3	1295.2	1289.3	1291.8
42.5°	1485.0	1488.3	1490.8	1497.5	1491.7	1488.3	1475.8	1475.8	1469.1	1463.2	1461.6
45°	1663.9	1670.6	1671.4	1684.8	1679.8	1690.7	1699.8	1697.3	1686.5	1685.6	1673.9
47.5°	1806.9	1817.7	1829.4	1845.3	1857.9	1882.1	1910.6	1924.8	1933.1	1939.8	1926.4
50°	1913.9	1918.9	1949.0	1974.1	2001.7	2041.8	2081.1	2132.1	2173.1	2192.3	2210.7
52.5°	1971.6	1984.1	2016.7	2056.0	2104.5	2164.7	2228.3	2309.4	2379.6	2426.4	2468.3
55°	1984.1	1996.7	2033.5	2083.6	2149.7	2230.8	2321.9	2432.3	2537.6	2628.0	2715.7
57.5°	1949.0	1963.2	2002.5	2060.2	2138.0	2236.6	2351.2	2495.8	2641.3	2787.7	2917.3
60°	1884.6	1902.2	1938.1	1995.0	2081.1	2192.3	2329.5	2510.9	2714.9	2939.0	3187.3
62.5°	1778.4	1796.8	1830.3	1893.0	1981.6	2104.5	2263.4	2489.2	2777.6	3130.5	3571.1
65°	1607.9	1616.2	1657.2	1720.8	1799.3	1934.8	2109.6	2382.1	2757.6	3248.4	3855.4
66°	1531.0	1545.2	1570.2	1621.3	1696.5	1823.6	1999.2	2275.9	2681.5	3207.4	3847.9
67.5°	1410.5	1421.4	1438.1	1472.4	1518.4	1612.1	1778.4	2040.2	2449.0	3000.0	3688.2
70°	1140.5	1145.5	1168.1	1179.8	1195.7	1226.6	1286.8	1437.3	1755.9	2273.4	2976.6
72.5°	777.6	791.8	816.1	849.5	893.0	934.8	963.2	982.5	1051.0	1356.2	1983.3
75°	570.2	585.3	616.2	660.5	736.6	823.6	913.9	955.7	927.3	888.0	1104.5
77.5°	331.1	351.2	377.1	419.7	490.0	605.4	760.0	897.2	990.0	995.8	945.7
80°	139.6	142.1	158.0	179.8	223.2	304.4	424.8	622.1	827.8	966.6	999.2
82.5°	31.8	39.3	50.2	59.4	72.7	100.3	148.8	247.5	447.3	701.5	914.7
85°	11.7	11.7	15.9	23.4	26.8	30.1	39.3	62.7	107.0	197.3	411.4
87.5°	0.0	0.8	1.7	1.7	3.3	4.2	6.7	9.2	8.4	7.5	25.1
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6
2.5°	836.1	835.3	833.6	833.6	833.6	833.6	831.9	832.8	831.1	831.9	831.9
5°	835.3	835.3	834.5	832.8	833.6	833.6	834.5	832.8	832.8	833.6	832.8
7.5°	835.3	834.5	834.5	834.5	835.3	834.5	835.3	835.3	835.3	836.1	836.1
10°	835.3	835.3	837.0	837.8	837.8	838.6	841.1	841.1	842.0	842.8	844.5
12.5°	836.1	839.5	842.0	844.5	845.3	847.0	851.2	851.2	852.9	855.4	856.2
15°	837.0	842.0	847.0	848.7	850.3	853.7	857.9	859.5	862.0	864.6	866.2
17.5°	836.1	842.8	848.7	851.2	853.7	857.9	862.9	864.6	867.9	871.2	874.6
20°	835.3	844.5	853.7	857.0	860.4	866.2	872.9	877.1	880.4	885.5	888.8
22.5°	840.3	851.2	863.7	868.7	874.6	882.1	891.3	896.3	900.5	905.5	908.0
25°	856.2	864.6	879.6	888.0	895.5	908.0	920.6	926.4	931.4	935.6	936.5
27.5°	883.0	885.5	903.9	914.7	925.6	945.7	960.7	964.9	974.1	977.4	976.6
30°	926.4	922.2	937.3	954.0	969.9	997.5	1015.9	1026.8	1035.1	1035.1	1028.4
32.5°	989.1	982.5	986.6	1005.9	1024.3	1064.4	1086.1	1100.3	1106.2	1104.5	1090.3
35°	1071.1	1066.9	1064.4	1079.4	1108.7	1155.5	1184.0	1191.5	1200.7	1199.0	1180.6
37.5°	1168.1	1164.7	1164.7	1182.3	1210.7	1280.1	1311.0	1316.1	1315.2	1301.9	1267.6
40°	1282.6	1280.9	1273.4	1283.5	1307.7	1398.0	1439.8	1446.5	1437.3	1415.6	1375.4
42.5°	1447.3	1437.3	1413.9	1419.7	1438.1	1525.9	1580.3	1598.7	1589.5	1567.7	1502.5
45°	1662.2	1651.4	1612.1	1607.0	1617.1	1694.0	1764.2	1768.4	1766.7	1739.1	1662.2
47.5°	1914.7	1898.0	1856.2	1842.8	1839.5	1910.6	1978.3	1985.0	1980.8	1939.8	1837.0
50°	2188.1	2163.9	2136.3	2127.1	2113.7	2164.7	2233.3	2234.1	2217.4	2160.6	2064.4
52.5°	2480.0	2471.6	2466.6	2457.4	2451.5	2495.8	2537.6	2512.6	2487.5	2428.1	2344.5
55°	2774.3	2808.6	2843.7	2847.0	2857.0	2904.7	2903.9	2835.3	2816.9	2784.3	2701.5
57.5°	3087.0	3214.1	3324.4	3358.7	3392.2	3480.8	3472.4	3404.7	3381.3	3341.2	3272.6
60°	3512.6	3855.4	4174.0	4250.0	4302.7	4408.9	4398.9	4294.4	4342.8	4339.5	4250.9
62.5°	4108.7	4679.0	5156.4	5273.5	5310.2	5322.0	5258.4	5145.5	5193.2	5246.7	4974.1
65°	4512.6	5183.2	5673.1	5763.4	5768.4	5628.8	5487.5	5354.6	5342.9	5296.9	4907.2
66°	4521.8	5208.2	5699.9	5787.7	5756.7	5566.1	5387.2	5253.4	5195.7	5094.5	4690.7
67.5°	4359.6	5051.9	5581.2	5674.0	5606.2	5336.2	5089.5	4917.3	4804.4	4640.5	4284.3
70°	3661.4	4347.9	5000.0	5173.1	5194.9	4791.9	4449.9	4247.5	4095.4	3870.4	3563.6
72.5°	2722.4	3342.8	3918.1	4083.6	4168.1	3846.2	3557.7	3403.9	3195.7	2959.1	2740.8
75°	1706.5	2144.7	2530.1	2646.3	2566.9	2317.7	2144.7	2080.3	1875.4	1734.1	1634.6
77.5°	975.8	1112.9	1143.8	1099.5	1005.9	770.1	547.7	405.5	352.0	389.6	429.8
80°	952.3	872.9	695.7	612.0	554.4	381.3	224.1	153.8	127.9	131.3	142.1
82.5°	1031.8	1107.0	911.4	743.3	623.8	421.4	232.4	123.7	83.6	98.7	111.2
85°	670.6	933.1	840.3	708.2	573.6	360.4	191.5	64.4	42.6	56.0	76.9
87.5°	67.7	74.4	63.5	86.1	64.4	30.1	15.1	9.2	8.4	10.0	15.1
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°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6
2.5°	832.8	832.8	833.6	834.5	835.3	836.1	836.1	836.1	836.1	837.8	837.0
5°	834.5	836.1	837.8	838.6	840.3	840.3	842.8	842.0	842.0	844.5	845.3
7.5°	837.8	840.3	843.7	842.8	846.2	845.3	847.0	847.0	844.5	845.3	843.7
10°	845.3	848.7	850.3	847.8	848.7	845.3	844.5	840.3	835.3	832.8	829.4
12.5°	857.9	861.2	861.2	857.0	852.0	844.5	838.6	829.4	821.9	817.7	813.6
15°	868.7	872.1	871.2	864.6	857.0	845.3	837.0	826.1	815.2	808.5	804.4
17.5°	877.1	878.8	876.3	867.1	858.7	847.8	839.5	827.8	815.2	806.9	799.3
20°	889.6	888.0	882.1	870.4	861.2	851.2	844.5	834.5	820.2	809.4	798.5
22.5°	908.0	901.3	890.5	877.9	868.7	859.5	852.9	842.0	827.8	814.4	801.8
25°	932.3	918.9	903.9	890.5	882.1	872.1	864.6	852.9	837.8	822.8	807.7
27.5°	967.4	944.0	924.8	913.1	903.9	891.3	882.1	867.1	851.2	833.6	816.9
30°	1006.7	974.9	956.5	947.3	937.3	923.9	909.7	890.5	872.1	852.9	832.8
32.5°	1057.7	1019.2	1001.7	992.5	979.1	962.4	945.7	923.9	898.0	872.9	848.7
35°	1124.6	1085.3	1066.9	1052.7	1034.3	1012.6	988.3	959.0	923.9	890.5	859.5
37.5°	1196.5	1153.9	1136.3	1121.2	1093.7	1065.2	1030.9	988.3	940.6	896.3	857.9
40°	1287.6	1248.3	1225.8	1199.8	1167.2	1117.9	1064.4	1002.5	941.5	887.1	842.0
42.5°	1403.0	1363.7	1330.3	1289.3	1232.5	1156.4	1080.3	1000.0	926.4	864.6	816.1
45°	1556.0	1508.4	1450.7	1378.8	1286.8	1180.6	1081.1	984.1	898.0	829.4	777.6
47.5°	1743.3	1670.6	1576.1	1454.9	1322.8	1187.3	1067.7	952.3	853.7	779.3	721.6
50°	1965.7	1851.2	1695.7	1517.6	1341.1	1177.3	1034.3	904.7	791.0	711.5	643.0
52.5°	2219.9	2032.6	1803.5	1562.7	1340.3	1143.8	977.4	832.8	709.0	620.4	555.2
55°	2518.4	2240.0	1914.7	1596.2	1316.9	1081.9	890.5	731.6	607.9	525.9	465.7
57.5°	2955.7	2576.1	2108.7	1648.0	1270.1	986.6	772.6	610.4	501.7	423.9	372.9
60°	3755.1	3137.2	2458.2	1752.5	1198.2	847.0	634.6	480.8	389.6	326.9	292.6
62.5°	4357.1	3571.1	2647.2	1729.1	1053.5	674.8	470.7	350.3	286.8	244.1	222.4
65°	4270.9	3436.5	2445.7	1489.1	826.1	475.8	312.7	238.3	197.3	177.3	164.7
66°	4076.1	3260.9	2270.9	1340.3	714.1	395.5	257.5	199.8	169.7	155.5	147.2
67.5°	3706.6	2934.8	1958.2	1098.7	548.5	286.8	194.0	158.0	138.0	132.1	126.3
70°	3081.1	2340.3	1374.6	639.6	280.1	159.7	122.9	110.4	105.4	104.5	102.8
72.5°	2361.2	1656.4	809.4	302.7	145.5	106.2	95.3	91.1	89.5	89.5	90.3
75°	1447.3	930.6	357.9	148.0	102.0	89.5	84.4	82.8	81.9	82.8	81.9
77.5°	483.3	296.0	153.0	112.0	92.8	82.8	79.4	77.8	77.8	77.8	77.8
80°	148.0	128.8	117.1	103.7	87.8	78.6	73.6	72.7	73.6	74.4	71.9
82.5°	111.2	105.4	98.7	92.0	79.4	70.2	68.6	68.6	68.6	66.1	62.7
85°	81.9	81.1	66.9	62.7	58.5	58.5	58.5	58.5	56.0	51.8	48.5
87.5°	15.1	14.2	15.1	15.9	23.4	25.1	25.1	26.8	29.3	27.6	27.6
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):

	160°	165°	170°	175°	180°
0°	833.6	833.6	833.6	833.6	833.6
2.5°	837.0	836.1	838.6	837.0	837.8
5°	844.5	843.7	845.3	843.7	846.2
7.5°	842.0	840.3	839.5	840.3	841.1
10°	824.4	822.8	821.9	821.1	821.9
12.5°	809.4	806.0	806.0	804.4	805.2
15°	798.5	796.0	795.2	793.5	794.3
17.5°	793.5	789.3	787.6	786.0	786.0
20°	790.1	785.1	782.6	780.9	780.1
22.5°	790.1	782.6	779.3	777.6	776.8
25°	793.5	784.3	779.3	776.8	775.9
27.5°	800.2	788.5	782.6	779.3	779.3
30°	811.9	796.8	788.5	784.3	783.5
32.5°	823.6	803.5	791.8	786.8	785.1
35°	829.4	803.5	789.3	780.9	779.3
37.5°	822.8	792.6	775.1	762.5	760.0
40°	801.8	770.1	750.8	739.1	737.5
42.5°	774.3	743.3	720.7	712.4	709.9
45°	736.6	699.8	677.3	665.6	666.4
47.5°	672.2	634.6	614.6	603.7	605.4
50°	596.2	559.4	541.8	530.1	532.6
52.5°	512.5	479.1	462.4	456.5	454.9
55°	424.8	398.8	387.1	380.4	377.9
57.5°	344.5	326.1	317.7	309.4	310.2
60°	271.7	262.5	260.0	250.8	250.0
62.5°	214.0	208.2	205.7	199.0	199.8
65°	162.2	160.5	162.2	158.0	159.7
66°	146.3	147.2	147.2	144.7	146.3
67.5°	126.3	127.9	130.4	127.9	129.6
70°	104.5	106.2	107.9	107.9	107.9
72.5°	91.1	92.8	93.6	93.6	93.6
75°	83.6	84.4	85.3	83.6	83.6
77.5°	78.6	78.6	76.9	76.1	75.3
80°	71.1	70.2	67.7	66.1	66.1
82.5°	59.4	57.7	56.0	53.5	53.5
85°	45.2	43.5	41.8	38.5	36.8
87.5°	23.4	24.2	23.4	19.2	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)