

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: P180451

Luminaire Tested: **ICS-F04-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180451
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: ICS-F04-LED-E1-SL2-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4599.3 lumens
Efficiency: N/A
Efficacy: 45.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

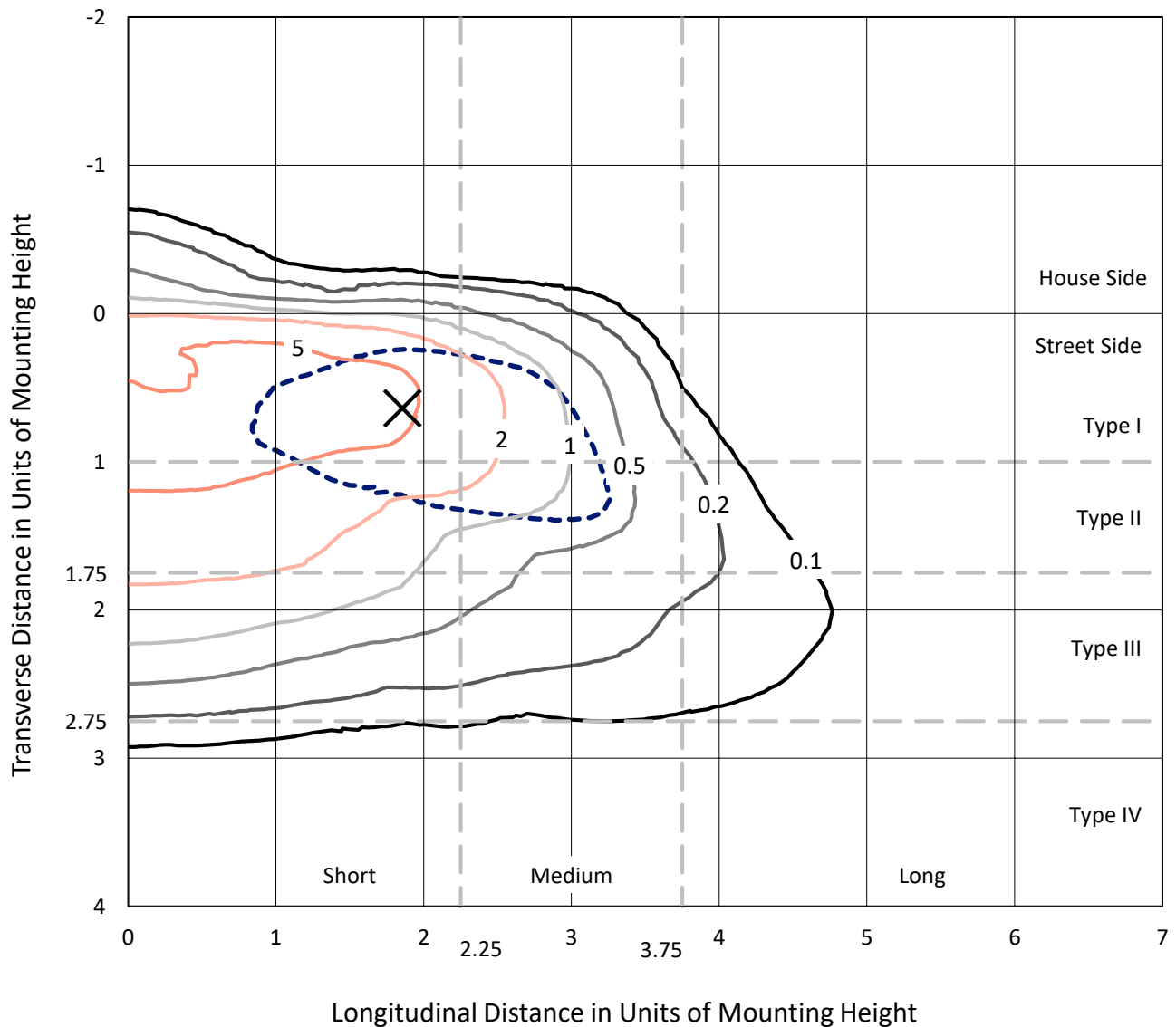
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

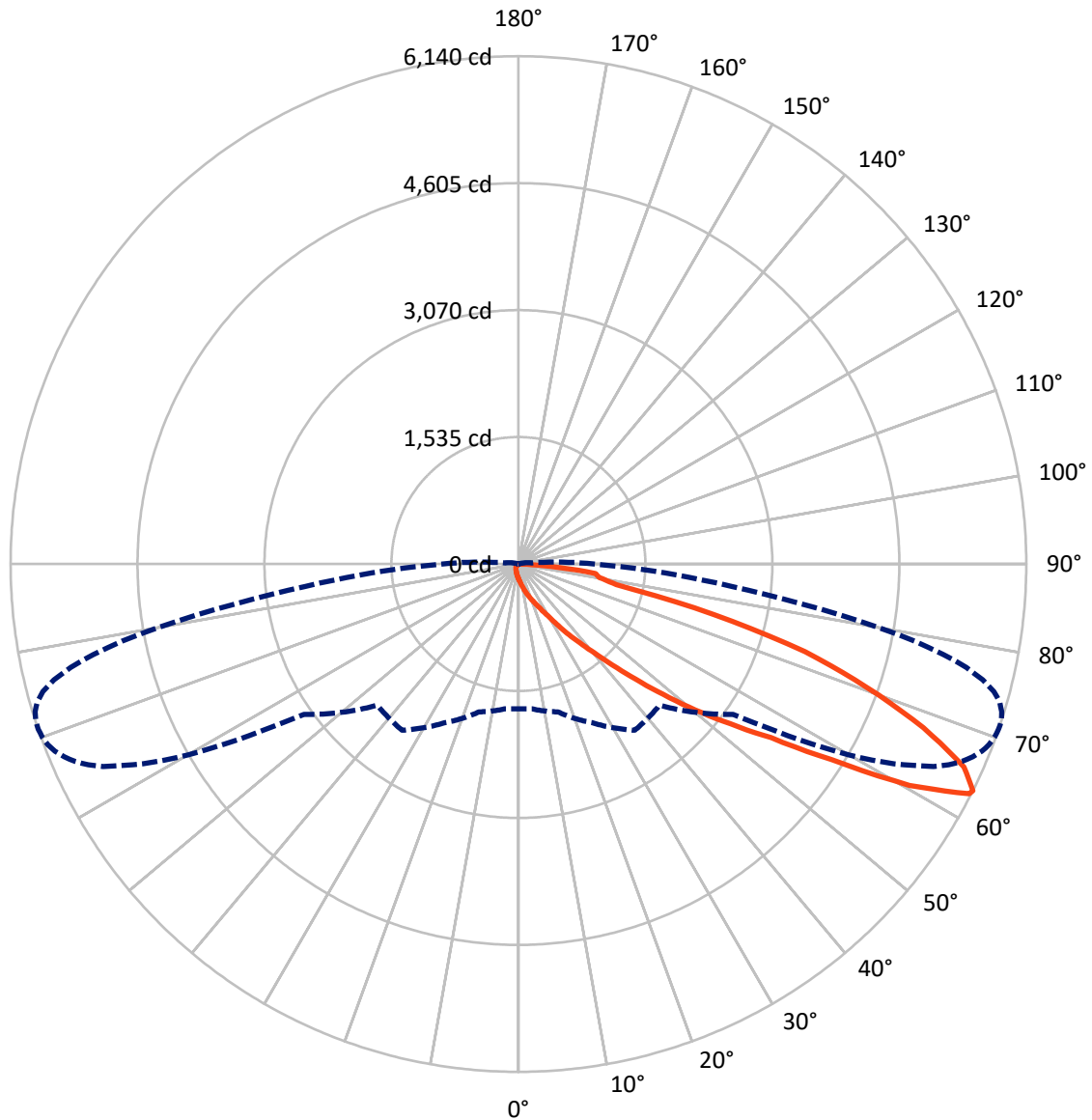
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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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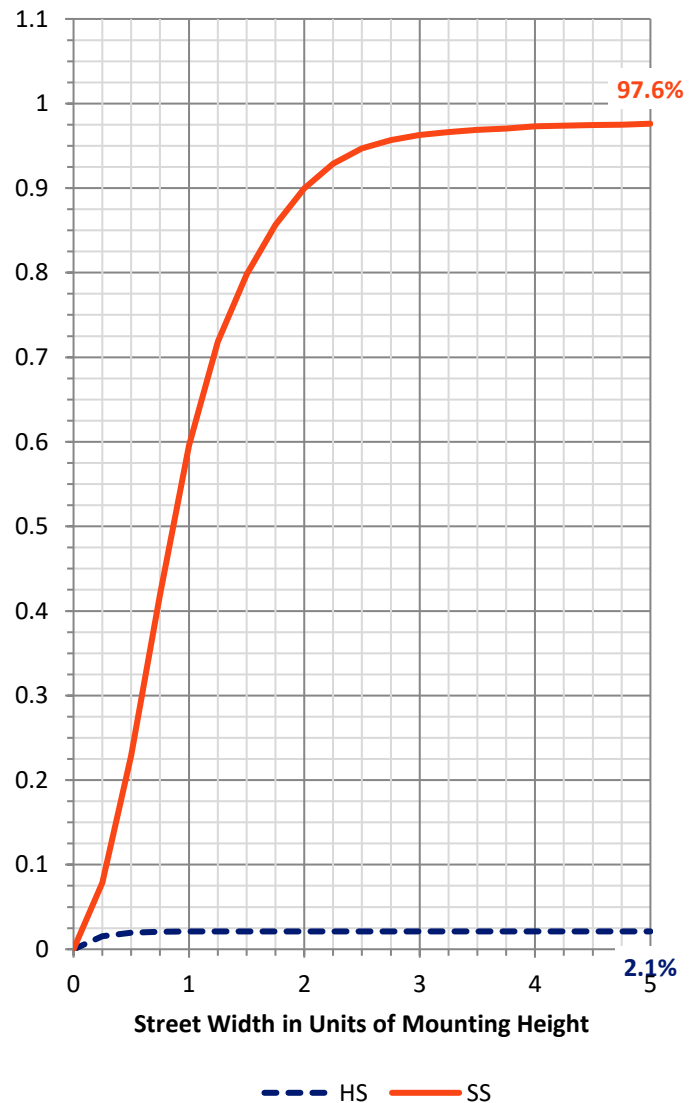
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	97.7	0.0	97.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4501.7	0.0	4501.7
	% Fixture	97.9	0.0	97.9
Total	Lumens	4599.3	0.0	4599.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.5	0.4
10°-20°	75.6	1.6
20°-30°	153.6	3.3
30°-40°	375.3	8.2
40°-50°	839.3	18.2
50°-60°	1180.1	25.7
60°-70°	1387.8	30.2
70°-80°	501.1	10.9
80°-90°	67.0	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°	4599.3	100.0
0°-180°	4599.3	100.0



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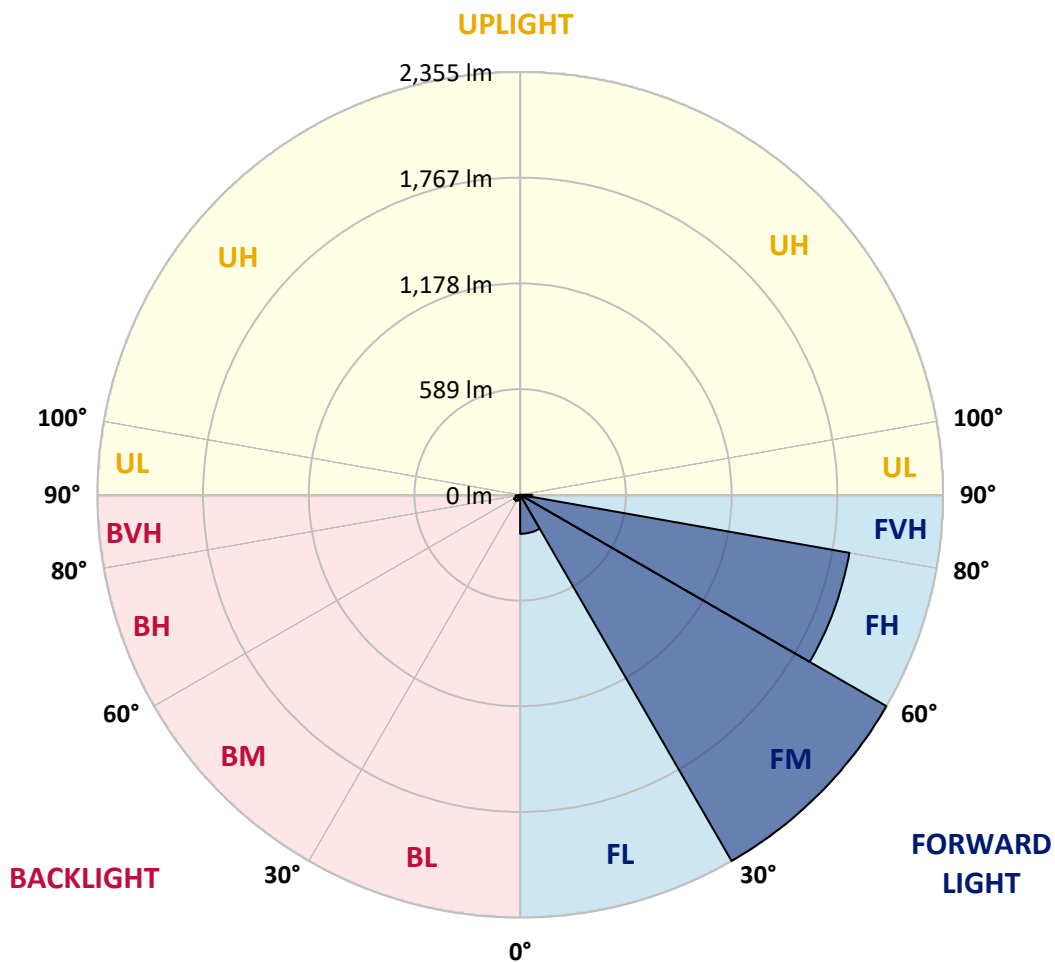
CATALOG NUMBER: ICS-F04-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.3	4.7			
FM (30°-60°)	2355.4	51.2			
FH (60°-80°)	1862.1	40.5			G2/5000
FVH (80°-90°)	66.9	1.5			G1/100
BL (0°-30°)	31.4	0.7	B0/110		
BM (30°-60°)	39.3	0.9	B0/220		
BH (60°-80°)	26.8	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°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
2.5°	230.8	233.3	231.6	227.4	222.4	215.7	209.9	209.9	209.0	206.5	207.4
5°	302.7	303.5	300.2	290.1	280.9	266.7	250.8	249.2	247.5	245.0	244.1
7.5°	372.9	376.3	372.9	362.0	343.6	321.9	296.8	294.3	289.3	289.3	286.0
10°	444.8	444.8	441.5	428.9	412.2	381.3	349.5	345.3	339.5	337.8	332.8
12.5°	495.8	495.8	494.2	487.5	474.1	446.5	408.0	403.8	396.3	393.8	388.0
15°	515.9	515.9	516.7	522.6	523.4	510.9	470.7	467.4	459.9	453.2	450.7
17.5°	528.4	527.6	527.6	536.0	551.0	559.4	533.4	530.1	521.7	518.4	510.0
20°	556.0	554.4	549.3	549.3	563.6	592.8	592.8	592.0	582.8	580.3	576.1
22.5°	597.0	595.3	580.3	567.7	574.4	611.2	645.5	643.8	640.5	637.1	634.6
25°	663.9	658.0	632.1	595.3	589.5	628.8	685.6	689.8	692.3	692.3	694.0
27.5°	765.1	757.5	711.5	643.0	617.1	657.2	729.9	738.3	745.8	747.5	755.0
30°	905.5	892.1	826.1	725.8	666.4	699.0	795.2	804.4	815.2	818.6	830.3
32.5°	1136.3	1128.8	1065.2	914.7	787.6	780.9	886.3	898.0	912.2	918.1	932.3
35°	1487.5	1489.1	1437.3	1301.9	1126.3	1034.3	1049.3	1059.4	1064.4	1081.9	1089.5
37.5°	1725.8	1729.9	1741.7	1688.1	1562.7	1469.1	1351.2	1362.1	1336.1	1338.6	1339.5
40°	1856.2	1869.6	1938.1	1990.0	1980.0	1925.6	1831.1	1837.0	1788.5	1777.6	1724.9
42.5°	1943.2	1960.7	2070.3	2230.8	2312.7	2362.1	2340.3	2337.8	2300.2	2286.0	2241.7
45°	1997.5	2013.4	2151.4	2388.0	2576.9	2720.8	2780.1	2786.8	2755.0	2740.8	2704.0
47.5°	1995.0	2013.4	2161.4	2446.5	2724.9	2954.9	3122.1	3130.5	3149.7	3137.2	3139.7
50°	1884.6	1902.2	2051.0	2347.0	2681.5	3061.9	3367.9	3394.7	3425.6	3446.5	3456.6
52.5°	1750.9	1763.4	1895.5	2176.4	2495.8	3017.6	3513.4	3559.4	3605.4	3644.7	3672.3
55°	1701.5	1715.7	1819.4	2052.7	2347.0	2832.0	3581.1	3648.9	3714.1	3778.5	3831.1
57.5°	1727.4	1740.8	1815.2	1994.2	2258.4	2636.3	3600.4	3705.7	3812.7	3917.3	4020.9
60°	1822.8	1837.0	1900.5	2048.5	2235.0	2523.4	3525.1	3699.9	3878.0	4060.2	4231.6
62.5°	1785.1	1791.0	1884.6	2143.8	2402.2	2427.3	3251.7	3495.9	3767.6	4048.5	4325.3
63°	1749.2	1755.9	1851.2	2117.9	2453.2	2413.1	3167.3	3424.8	3711.6	4014.3	4315.3
65°	1586.1	1587.0	1659.7	1870.4	2396.3	2438.1	2791.0	3036.8	3366.3	3729.1	4109.6
67.5°	1184.0	1178.1	1248.3	1408.9	1881.3	2439.0	2395.5	2533.5	2762.6	3084.5	3425.6
70°	419.7	410.5	524.3	746.7	1172.3	1995.0	2058.5	2067.7	2131.3	2305.2	2519.3
72.5°	136.3	138.8	167.2	273.4	540.1	1342.8	1863.7	1835.3	1818.6	1817.7	1846.2
75°	54.3	55.2	66.9	121.2	242.5	647.2	1632.1	1648.0	1653.9	1662.2	1671.4
77.5°	25.9	28.4	37.6	67.7	120.4	320.2	1168.1	1302.7	1379.6	1439.0	1474.9
80°	9.2	10.9	20.9	41.8	56.0	147.2	615.4	742.5	855.4	1000.8	1126.3
82.5°	0.0	0.0	4.2	29.3	30.9	59.4	252.5	296.0	338.6	439.0	563.6
85°	0.0	0.0	0.0	8.4	9.2	10.0	85.3	102.8	115.4	134.6	155.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	5.0	12.5	19.2
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°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
2.5°	205.7	204.9	204.9	203.2	202.3	200.7	199.8	197.3	196.5	196.5	196.5
5°	243.3	240.0	238.3	234.1	231.6	230.8	226.6	224.9	222.4	223.2	219.1
7.5°	285.1	279.3	276.8	270.9	269.2	263.4	261.7	257.5	255.0	250.0	248.3
10°	331.1	323.6	319.4	310.2	307.7	303.5	298.5	293.5	289.3	284.3	281.8
12.5°	383.8	377.1	373.7	361.2	355.4	349.5	342.8	336.1	329.4	325.3	319.4
15°	445.7	434.8	431.4	419.7	409.7	402.2	393.0	384.6	379.6	371.2	365.4
17.5°	506.7	495.8	493.3	475.8	464.9	459.9	449.8	439.0	429.8	421.4	412.2
20°	567.7	560.2	553.5	536.8	525.1	516.7	503.3	492.5	485.0	473.2	461.5
22.5°	628.8	621.2	616.2	598.7	587.8	576.1	564.4	552.7	541.8	527.6	514.2
25°	691.5	686.5	684.0	668.1	658.0	647.2	635.5	622.1	608.7	592.8	578.6
27.5°	756.7	758.4	753.4	750.0	739.1	731.6	713.2	704.0	694.0	674.8	657.2
30°	839.5	844.5	842.8	845.3	838.6	833.6	819.4	807.7	796.0	777.6	757.5
32.5°	944.0	950.7	954.0	963.2	959.9	958.2	954.0	937.3	928.9	897.2	888.8
35°	1105.4	1102.0	1116.2	1123.8	1120.4	1118.7	1113.7	1104.5	1094.5	1071.9	1051.0
37.5°	1315.2	1318.6	1323.6	1308.5	1298.5	1297.7	1282.6	1273.4	1259.2	1234.1	1209.0
40°	1699.8	1678.9	1655.5	1592.0	1564.4	1548.5	1504.2	1491.7	1467.4	1433.1	1407.2
42.5°	2199.9	2178.9	2108.7	2002.5	1945.7	1867.1	1831.1	1786.8	1752.5	1696.5	1666.4
45°	2696.5	2636.3	2628.0	2504.2	2434.0	2330.3	2265.9	2191.5	2113.7	2040.2	1986.6
47.5°	3115.4	3102.0	3061.1	2985.8	2920.6	2833.6	2750.9	2636.3	2556.0	2451.5	2355.4
50°	3450.7	3449.9	3434.8	3391.3	3337.0	3266.8	3194.0	3097.0	3005.9	2878.0	2775.1
52.5°	3701.5	3714.9	3719.9	3706.6	3685.7	3623.8	3587.0	3505.9	3429.0	3320.3	3209.1
55°	3885.5	3934.8	3959.9	3988.3	3982.5	3960.7	3959.1	3906.4	3871.3	3785.2	3706.6
57.5°	4112.9	4194.0	4271.8	4409.7	4414.8	4463.3	4488.3	4513.4	4520.1	4485.8	4459.9
60°	4402.2	4567.8	4714.9	5003.4	5078.6	5197.4	5274.3	5357.9	5429.0	5434.8	5433.2
62.5°	4606.2	4861.2	5098.7	5526.8	5673.1	5810.3	5913.1	5994.2	6043.5	6093.7	6117.1
63°	4612.1	4891.3	5143.9	5585.3	5739.2	5869.6	5967.4	6042.7	6094.5	6124.6	6139.7
65°	4470.8	4809.4	5110.4	5550.2	5694.9	5826.1	5877.1	5926.5	5951.6	5963.3	5919.0
67.5°	3789.3	4120.4	4471.6	4963.3	5087.0	5244.2	5286.0	5311.1	5322.8	5320.3	5282.7
70°	2833.6	3111.2	3501.7	4063.6	4227.5	4381.3	4476.6	4517.6	4531.0	4526.8	4470.8
72.5°	1978.3	2141.3	2463.2	3088.7	3311.9	3509.2	3627.1	3688.2	3700.7	3675.6	3623.8
75°	1661.4	1669.7	1742.5	2084.5	2293.5	2504.2	2637.1	2675.6	2650.5	2574.4	2442.3
77.5°	1483.3	1501.7	1501.7	1552.7	1593.7	1652.2	1664.7	1571.1	1462.4	1321.9	1208.2
80°	1244.2	1308.5	1353.7	1391.3	1395.5	1383.8	1352.9	1300.2	1216.6	1109.5	990.8
82.5°	755.9	883.0	934.8	1128.8	1224.1	1288.5	1283.5	1213.2	1149.7	1038.5	937.3
85°	190.6	205.7	223.2	290.1	325.3	397.2	442.3	463.2	470.7	432.3	391.3
87.5°	18.4	12.5	20.9	15.9	22.6	16.7	22.6	20.9	25.9	27.6	30.1
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
2.5°	194.8	194.0	193.1	192.3	191.5	190.6	189.0	189.0	187.3	186.5	185.6
5°	216.6	214.9	214.0	212.4	209.9	208.2	205.7	202.3	199.8	199.0	197.3
7.5°	244.1	240.0	238.3	235.8	232.4	227.4	224.1	221.6	217.4	214.9	209.9
10°	275.1	270.9	265.9	260.9	255.9	250.0	245.8	242.5	235.8	232.4	226.6
12.5°	314.4	306.9	301.0	294.3	287.6	280.9	275.9	265.9	260.0	252.5	247.5
15°	354.5	347.8	341.1	332.8	322.7	311.9	306.9	297.7	290.1	278.4	271.7
17.5°	403.0	390.5	380.4	370.4	361.2	351.2	341.1	326.9	316.1	306.0	292.6
20°	450.7	435.6	424.8	411.4	398.0	382.1	370.4	360.4	345.3	331.9	317.7
22.5°	501.7	486.6	469.1	455.7	437.3	424.8	408.9	392.1	377.1	359.5	342.0
25°	563.6	547.7	527.6	510.0	489.1	471.6	452.3	433.1	414.7	394.7	372.1
27.5°	639.6	622.9	601.2	580.3	552.7	530.9	512.5	486.6	463.2	438.1	412.2
30°	735.8	717.4	690.6	660.5	632.9	608.7	582.8	548.5	522.6	492.5	459.0
32.5°	861.2	839.5	803.5	775.1	740.8	709.0	673.1	638.8	602.0	562.7	524.3
35°	1019.2	999.2	957.4	915.6	877.9	840.3	795.2	755.9	704.0	656.4	607.0
37.5°	1183.1	1147.2	1108.7	1063.6	1016.7	971.6	916.4	862.0	802.7	750.8	689.0
40°	1370.4	1326.9	1295.2	1246.7	1180.6	1116.2	1065.2	997.5	923.1	853.7	780.9
42.5°	1627.1	1578.6	1521.8	1448.2	1400.5	1325.3	1259.2	1178.9	1081.1	1003.4	915.6
45°	1923.9	1857.9	1802.7	1731.6	1673.9	1580.3	1503.4	1396.3	1298.5	1196.5	1089.5
47.5°	2262.6	2180.6	2100.4	2030.1	1938.1	1846.2	1748.3	1634.6	1509.2	1397.2	1270.1
50°	2651.4	2535.1	2423.9	2333.6	2207.4	2101.2	1995.0	1867.1	1728.3	1599.5	1454.9
52.5°	3083.6	2949.0	2801.9	2663.1	2516.7	2380.5	2252.5	2105.4	1950.7	1793.5	1632.1
55°	3605.4	3504.2	3331.1	3154.7	2959.1	2776.8	2612.1	2429.8	2241.7	2035.1	1865.4
57.5°	4422.3	4373.0	4228.3	4051.9	3796.9	3575.3	3296.0	3072.8	2800.2	2515.9	2296.8
60°	5529.3	5468.3	5387.2	5244.2	5041.9	4740.8	4433.2	4086.2	3671.4	3277.6	2903.9
62.5°	6119.6	6097.9	6031.8	5933.2	5744.2	5506.7	5196.5	4815.3	4347.0	3868.8	3392.2
63°	6137.2	6109.6	6052.7	5952.4	5786.0	5556.1	5251.7	4881.3	4423.1	3935.7	3449.0
65°	5899.7	5888.9	5831.2	5721.6	5607.9	5432.3	5196.5	4878.0	4493.4	4032.6	3548.5
67.5°	5232.5	5199.9	5111.3	5077.8	4998.4	4876.3	4696.5	4477.5	4202.4	3840.3	3422.3
70°	4425.6	4377.1	4265.9	4206.6	4109.6	4032.6	3923.1	3766.8	3597.0	3344.5	3032.6
72.5°	3570.3	3469.9	3367.9	3213.2	3077.8	2940.7	2819.4	2709.1	2522.6	2420.6	2184.0
75°	2318.6	2136.3	1961.6	1727.4	1516.7	1330.3	1148.8	1056.9	865.4	787.6	676.4
77.5°	1100.3	998.3	861.2	755.0	619.6	505.9	413.0	310.2	243.3	190.6	145.5
80°	888.0	801.8	719.1	622.9	520.9	415.6	318.6	238.3	168.9	117.1	82.8
82.5°	791.8	698.2	596.2	530.1	460.7	377.1	309.4	252.5	186.5	136.3	92.8
85°	307.7	259.2	199.8	163.0	127.1	104.5	94.5	65.2	51.0	40.1	30.9
87.5°	26.8	21.7	17.6	11.7	12.5	6.7	7.5	5.0	4.2	4.2	3.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
2.5°	184.8	183.9	183.1	181.4	181.4	179.8	178.9	178.1	173.9	164.7	157.2
5°	194.0	192.3	190.6	188.1	186.5	183.9	182.3	179.8	170.6	153.0	138.0
7.5°	207.4	204.0	201.5	196.5	194.0	190.6	188.1	183.9	168.9	142.1	121.2
10°	223.2	217.4	213.2	207.4	202.3	198.2	194.0	188.1	167.2	130.4	106.2
12.5°	242.5	235.8	227.4	220.7	214.0	208.2	202.3	194.8	164.7	120.4	94.5
15°	261.7	251.7	245.8	236.6	227.4	219.1	210.7	204.0	165.6	109.5	84.4
17.5°	283.4	273.4	260.9	250.8	240.8	229.9	219.9	206.5	161.4	101.2	76.9
20°	304.4	290.1	278.4	265.9	251.7	238.3	225.8	214.0	158.0	92.8	70.2
22.5°	326.9	310.2	295.2	279.3	261.7	246.7	231.6	216.6	152.2	85.3	64.4
25°	354.5	335.3	313.5	294.3	275.9	257.5	238.3	219.9	146.3	78.6	60.2
27.5°	388.0	362.9	341.1	316.9	291.0	267.6	246.7	226.6	140.5	73.6	56.0
30°	430.6	401.3	370.4	339.5	311.9	285.1	255.9	230.8	134.6	68.6	51.8
32.5°	487.5	450.7	413.0	377.1	340.3	306.0	275.1	242.5	131.3	64.4	47.7
35°	562.7	515.1	469.1	423.9	379.6	337.8	297.7	260.9	131.3	59.4	42.6
37.5°	633.8	578.6	520.1	464.1	411.4	362.9	315.2	270.9	124.6	55.2	38.5
40°	710.7	644.7	576.1	510.0	446.5	386.3	331.9	280.9	118.7	50.2	34.3
42.5°	828.6	745.0	655.5	578.6	502.5	428.1	360.4	300.2	111.2	45.2	30.1
45°	983.3	877.1	771.7	678.1	581.1	490.0	409.7	335.3	109.5	41.0	25.9
47.5°	1148.8	1023.4	899.7	780.1	666.4	560.2	464.1	374.6	109.5	36.8	22.6
50°	1313.6	1156.4	1024.3	885.5	757.5	632.1	517.6	415.6	110.4	33.4	18.4
52.5°	1462.4	1294.3	1146.3	985.8	844.5	699.0	574.4	455.7	108.7	29.3	15.1
55°	1668.9	1471.6	1300.2	1122.9	957.4	793.5	652.2	515.9	109.5	25.9	12.5
57.5°	2049.4	1817.7	1611.2	1378.8	1188.1	976.6	805.2	639.6	119.6	21.7	9.2
60°	2595.3	2294.3	2004.2	1720.8	1478.3	1226.6	1004.2	809.4	140.5	17.6	6.7
62.5°	2962.4	2568.6	2222.4	1909.7	1627.9	1364.6	1122.1	900.5	154.7	14.2	4.2
63°	3000.0	2592.8	2245.0	1922.3	1634.6	1371.3	1127.1	907.2	155.5	13.4	4.2
65°	3071.1	2634.6	2257.5	1924.8	1627.9	1362.1	1123.8	906.4	157.2	10.9	3.3
67.5°	2990.0	2570.3	2184.8	1852.9	1569.4	1307.7	1081.9	872.9	156.4	7.5	2.5
70°	2673.9	2326.1	1987.5	1678.1	1420.6	1184.0	985.0	796.0	143.8	5.0	1.7
72.5°	1963.2	1726.6	1464.1	1240.8	1070.2	888.8	758.4	597.8	111.2	3.3	0.8
75°	581.9	530.1	445.7	393.0	347.0	286.8	255.0	199.0	56.9	1.7	0.0
77.5°	116.2	105.4	94.5	86.1	81.1	69.4	66.1	54.3	23.4	0.8	0.0
80°	61.0	50.2	42.6	37.6	32.6	26.8	22.6	18.4	4.2	0.0	0.0
82.5°	58.5	39.3	28.4	23.4	20.1	15.9	12.5	9.2	2.5	0.0	0.0
85°	21.7	16.7	12.5	10.0	8.4	7.5	5.9	5.0	0.0	0.0	0.0
87.5°	3.3	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°	176.4	176.4	176.4	176.4	176.4	176.4	176.4
2.5°	149.7	143.0	139.6	135.5	135.5	134.6	136.3
5°	124.6	115.4	108.7	103.7	104.5	102.0	102.8
7.5°	105.4	96.2	90.3	87.0	86.1	85.3	85.3
10°	91.1	82.8	77.8	75.3	74.4	74.4	74.4
12.5°	81.1	72.7	68.6	66.9	66.9	66.1	66.1
15°	72.7	66.1	61.9	60.2	60.2	59.4	60.2
17.5°	66.1	59.4	56.0	54.3	54.3	53.5	53.5
20°	60.2	54.3	51.0	48.5	48.5	47.7	48.5
22.5°	55.2	49.3	45.2	43.5	42.6	41.8	42.6
25°	50.2	44.3	40.1	37.6	36.8	36.8	36.0
27.5°	46.0	40.1	35.1	32.6	31.8	31.8	30.9
30°	41.8	35.1	30.1	27.6	26.8	26.8	26.8
32.5°	37.6	30.1	25.9	23.4	22.6	22.6	22.6
35°	33.4	25.9	21.7	19.2	18.4	18.4	18.4
37.5°	28.4	21.7	16.7	15.1	14.2	13.4	13.4
40°	24.2	16.7	12.5	10.9	9.2	9.2	9.2
42.5°	20.1	13.4	9.2	6.7	5.9	5.0	5.9
45°	16.7	10.0	5.9	3.3	2.5	2.5	2.5
47.5°	13.4	6.7	2.5	0.8	0.8	0.8	0.8
50°	10.0	4.2	0.8	0.0	0.0	0.8	0.8
52.5°	7.5	2.5	0.0	0.0	0.0	0.0	0.0
55°	4.2	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)