

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: P180651

Luminaire Tested: **ICS-F04-LED-E1-SL3-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180651
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 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: 4349.1 lumens
Efficiency: N/A
Efficacy: 42.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

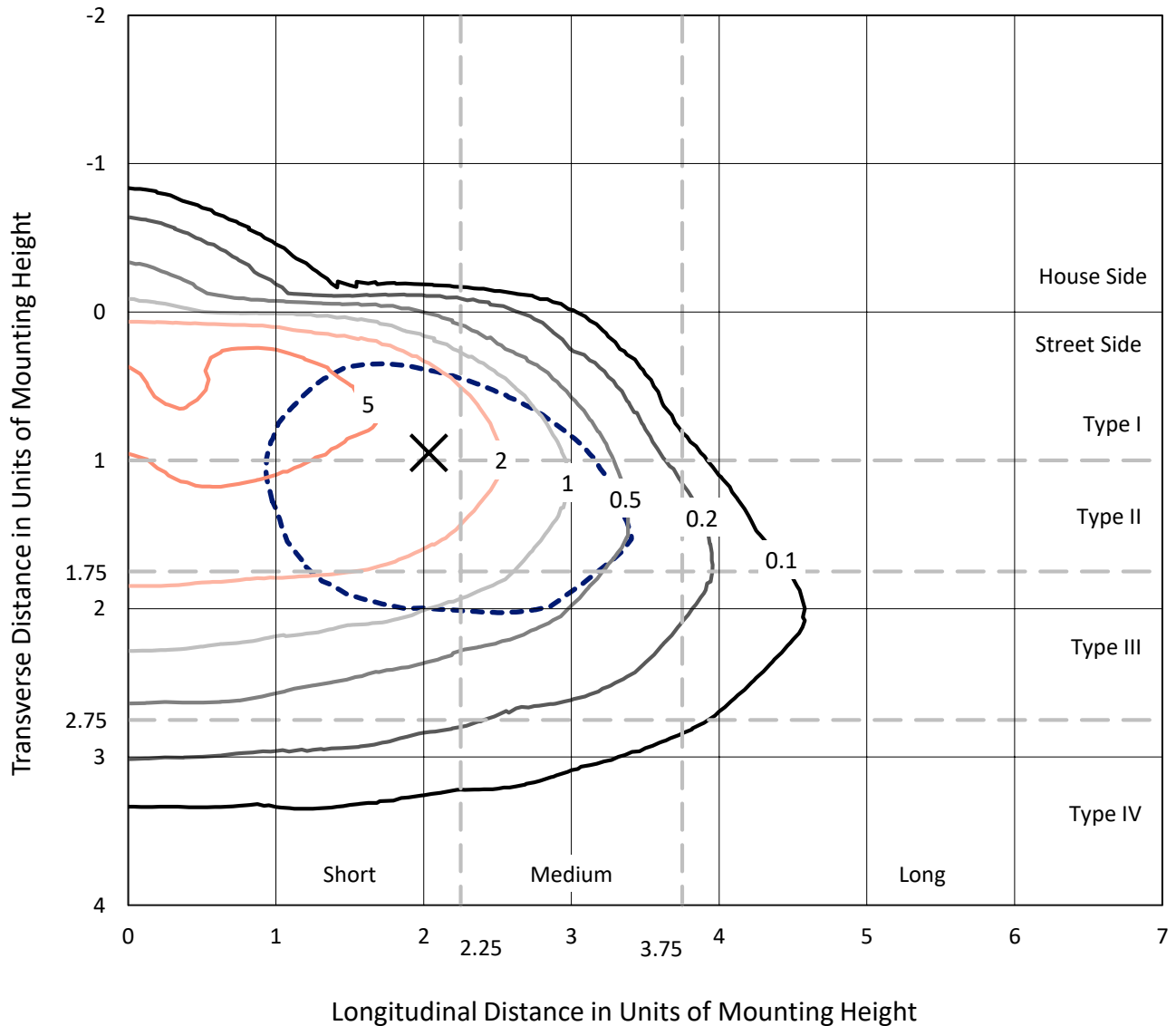
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

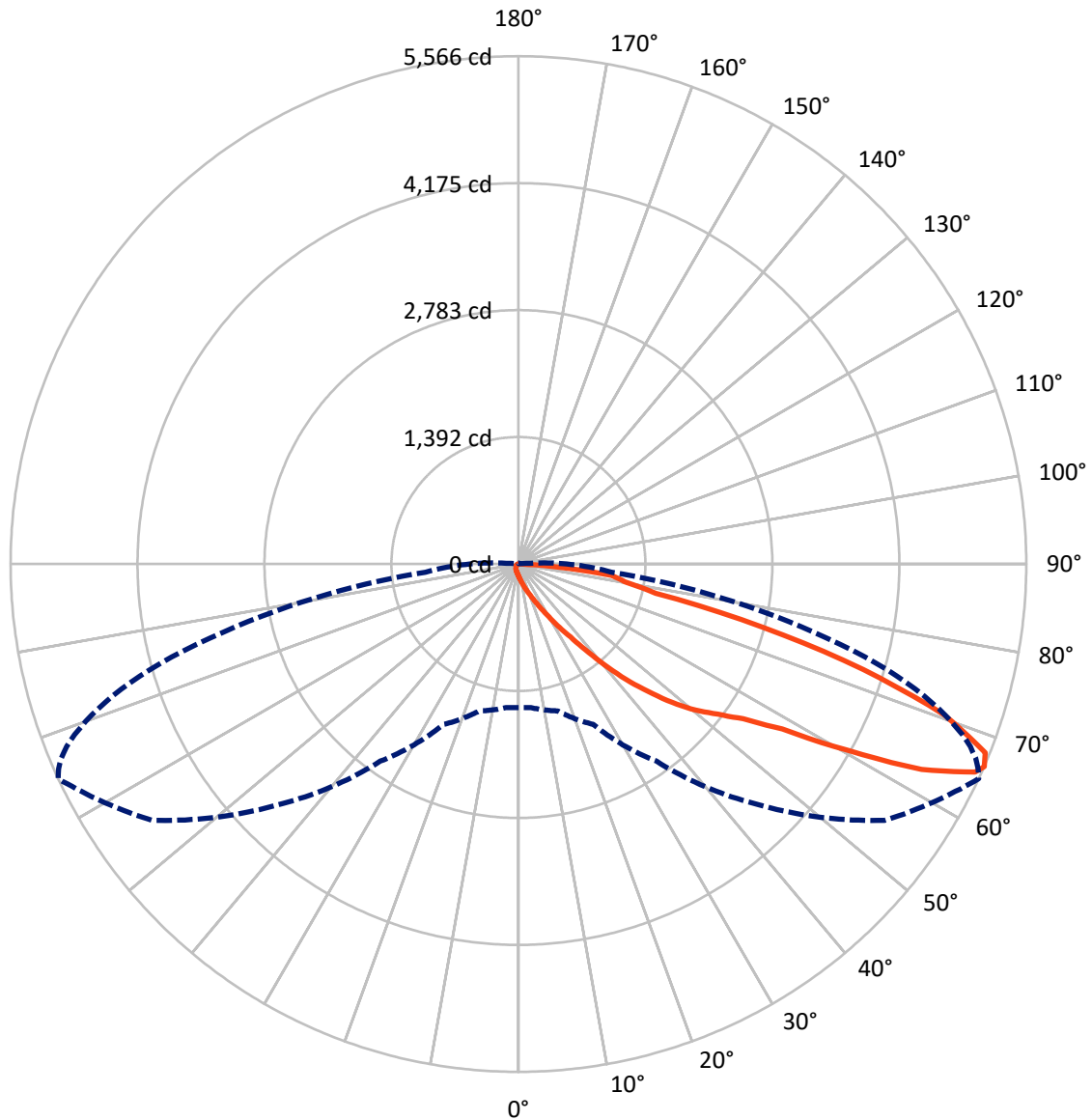
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	94.3	0.0	94.3
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4254.8	0.0	4254.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	4349.1	0.0	4349.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	0.3
10°-20°	62.3	1.4
20°-30°	134.4	3.1
30°-40°	287.0	6.6
40°-50°	634.7	14.6
50°-60°	1075.6	24.7
60°-70°	1435.3	33.0
70°-80°	632.2	14.5
80°-90°	72.8	1.7
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°	4349.1	100.0
0°-180°	4349.1	100.0



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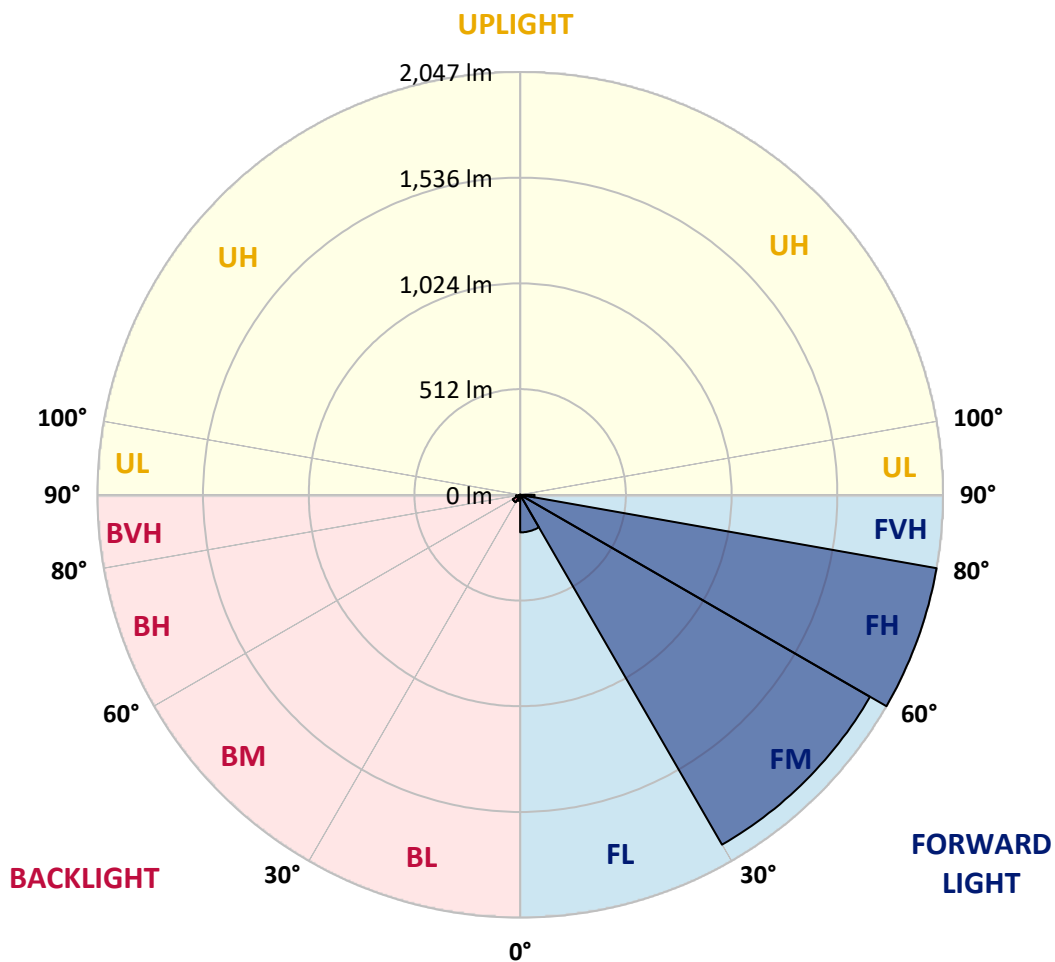
CATALOG NUMBER: ICS-F04-LED-E1-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.7	4.2			
FM	(30°-60°)	1955.9	45.0			
FH	(60°-80°)	2047.3	47.1			G2/5000
FVH	(80°-90°)	69.9	1.6			G1/100
BL	(0°-30°)	29.7	0.7	B0/110		
BM	(30°-60°)	41.4	1.0	B0/220		
BH	(60°-80°)	20.2	0.5	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3
2.5°	165.6	164.7	161.4	161.4	156.4	153.0	148.8	144.7	144.7	143.8	143.0
5°	219.1	214.0	213.2	204.0	196.5	185.6	175.6	162.2	160.5	158.9	158.0
7.5°	278.4	277.6	270.1	259.2	244.1	224.1	204.0	182.3	178.9	177.3	173.9
10°	355.4	351.2	341.1	322.7	300.2	273.4	240.8	206.5	202.3	199.0	197.3
12.5°	428.9	421.4	415.6	392.1	363.7	324.4	285.1	235.8	232.4	228.3	221.6
15°	497.5	490.8	480.8	460.7	428.9	379.6	333.6	273.4	265.1	259.2	254.2
17.5°	551.0	546.8	535.1	512.5	478.3	434.8	379.6	311.9	305.2	297.7	288.5
20°	602.0	596.2	577.8	546.8	510.0	476.6	434.0	362.0	352.8	343.6	333.6
22.5°	650.5	644.7	614.6	563.6	524.3	510.0	495.0	418.9	404.7	397.2	387.1
25°	718.2	705.7	658.9	577.8	525.1	536.0	561.9	492.5	479.1	468.2	452.3
27.5°	809.4	792.6	719.1	598.7	528.4	564.4	638.8	581.9	567.7	555.2	537.6
30°	912.2	901.3	813.6	648.8	552.7	606.2	724.9	695.7	678.9	663.9	643.0
32.5°	1015.9	1000.8	913.9	744.2	617.9	687.3	832.8	827.8	806.0	791.8	769.2
35°	1107.0	1099.5	1035.1	900.5	766.7	829.4	976.6	982.5	963.2	948.2	923.1
37.5°	1168.9	1168.9	1156.4	1068.6	1003.4	1050.2	1188.1	1189.0	1169.7	1135.5	1122.9
40°	1200.7	1209.9	1255.0	1271.8	1268.4	1328.6	1465.7	1450.7	1434.8	1417.2	1375.4
42.5°	1265.9	1274.3	1370.4	1485.8	1561.1	1640.5	1735.0	1729.9	1710.7	1678.9	1640.5
45°	1376.3	1387.1	1501.7	1684.8	1839.5	1952.4	2012.6	1989.1	1969.9	1939.8	1919.8
47.5°	1516.7	1537.6	1667.2	1893.8	2080.3	2266.7	2329.5	2267.6	2250.9	2227.4	2194.8
50°	1666.4	1686.5	1824.4	2083.6	2294.3	2516.7	2621.3	2516.7	2492.5	2485.0	2448.2
52.5°	1796.0	1812.7	1945.7	2230.0	2458.2	2719.1	2871.3	2733.3	2715.7	2690.7	2663.9
55°	1872.9	1886.3	2010.9	2300.2	2569.4	2901.4	3112.9	2991.7	2965.7	2955.7	2917.3
57.5°	1898.8	1912.2	2024.3	2309.4	2629.6	3067.8	3406.4	3410.6	3379.6	3343.7	3332.0
60°	1898.8	1913.9	2008.4	2286.8	2688.2	3245.0	3797.7	4146.4	4079.5	4072.8	4030.1
62.5°	1820.3	1834.5	1929.8	2217.4	2766.7	3484.1	4342.8	4958.2	4939.0	4895.5	4825.3
65°	1649.7	1658.0	1751.7	2040.2	2736.6	3704.0	4815.3	5498.4	5467.4	5382.2	5291.9
66°	1572.8	1579.4	1667.2	1939.0	2638.0	3734.1	4898.9	5566.1	5515.1	5443.2	5341.2
67.5°	1461.6	1473.3	1535.1	1750.9	2401.4	3629.6	4846.2	5518.4	5474.1	5387.2	5285.2
70°	975.8	967.4	1185.6	1343.7	1829.4	2957.4	4347.9	4954.9	4955.7	4914.8	4873.8
72.5°	463.2	468.2	531.8	826.9	1197.3	1975.8	3460.7	3954.9	4011.7	3938.2	3887.2
75°	332.8	340.3	378.8	505.9	714.1	1185.6	2243.3	2765.9	2767.6	2637.1	2520.9
77.5°	97.0	101.2	142.1	311.9	535.1	800.2	1288.5	1537.6	1501.7	1408.0	1320.2
80°	40.1	40.1	41.8	99.5	214.9	543.5	901.3	1184.0	1179.8	1143.8	1092.0
82.5°	15.1	15.9	20.1	41.0	51.0	133.8	601.2	1027.6	1025.1	974.1	937.3
85°	1.7	1.7	5.0	17.6	19.2	25.1	120.4	453.2	450.7	453.2	397.2
87.5°	0.0	0.0	0.8	1.7	2.5	3.3	5.0	17.6	19.2	18.4	16.7
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3
2.5°	143.0	141.3	141.3	140.5	140.5	140.5	139.6	138.8	138.8	138.0	137.1
5°	156.4	154.7	153.8	152.2	151.3	150.5	148.8	148.0	146.3	145.5	144.7
7.5°	172.2	168.9	168.1	165.6	163.0	161.4	159.7	157.2	155.5	152.2	151.3
10°	192.3	188.1	184.8	181.4	178.9	174.8	172.2	168.9	165.6	163.0	160.5
12.5°	218.2	212.4	207.4	204.0	198.2	193.1	188.1	185.6	178.9	175.6	171.4
15°	246.7	240.0	234.1	227.4	223.2	214.9	208.2	200.7	197.3	191.5	184.8
17.5°	283.4	272.6	263.4	256.7	248.3	240.0	232.4	224.9	214.9	208.2	199.8
20°	322.7	313.5	301.0	289.3	279.3	269.2	258.4	248.3	239.1	228.3	218.2
22.5°	372.9	359.5	344.5	332.8	319.4	308.5	293.5	280.1	265.1	250.8	239.1
25°	436.5	418.9	404.7	388.0	372.1	355.4	337.0	320.2	301.0	287.6	267.6
27.5°	515.1	498.3	479.1	457.4	441.5	416.4	392.1	371.2	348.7	327.8	305.2
30°	615.4	591.1	571.1	550.2	518.4	494.2	465.7	437.3	406.4	385.5	351.2
32.5°	735.8	709.9	679.8	649.7	620.4	586.1	551.0	515.9	481.6	443.1	408.0
35°	883.0	852.0	817.7	785.1	740.0	703.2	658.9	610.4	571.9	527.6	483.3
37.5°	1077.8	1026.8	996.7	962.4	901.3	851.2	801.8	753.4	685.6	638.8	576.1
40°	1321.9	1291.8	1242.5	1187.3	1132.1	1066.1	999.2	934.8	856.2	791.0	718.2
42.5°	1608.7	1564.4	1514.2	1434.8	1378.8	1301.0	1224.9	1139.6	1043.5	959.9	874.6
45°	1877.9	1825.3	1786.8	1707.4	1648.8	1556.9	1464.9	1374.6	1263.4	1155.5	1056.9
47.5°	2168.9	2125.4	2061.9	1997.5	1938.1	1834.5	1735.0	1625.4	1508.4	1380.4	1252.5
50°	2424.8	2390.5	2347.0	2269.3	2203.2	2116.2	1999.2	1879.6	1731.6	1604.5	1459.0
52.5°	2642.2	2615.4	2554.4	2499.2	2439.8	2357.9	2253.4	2138.8	1979.1	1839.5	1673.9
55°	2898.9	2879.6	2826.1	2791.8	2739.2	2660.6	2562.7	2456.5	2287.6	2135.5	1948.2
57.5°	3319.4	3304.4	3257.6	3243.3	3191.5	3122.9	3002.5	2888.8	2691.5	2502.5	2288.5
60°	4015.9	3985.8	3917.3	3882.1	3772.6	3680.6	3524.3	3367.9	3129.6	2888.8	2631.3
62.5°	4761.7	4677.3	4546.9	4434.8	4279.3	4119.6	3910.6	3671.4	3392.2	3106.2	2810.2
65°	5163.9	5020.1	4855.4	4677.3	4475.8	4240.8	3977.5	3690.7	3390.5	3088.7	2775.9
66°	5209.9	5047.7	4873.0	4674.8	4450.7	4200.7	3933.1	3632.1	3320.3	3025.9	2713.2
67.5°	5152.2	4982.5	4797.7	4577.8	4335.3	4076.1	3795.2	3482.5	3182.3	2883.8	2579.5
70°	4748.4	4579.5	4414.8	4183.1	3924.8	3663.9	3398.0	3048.5	2764.2	2490.0	2219.1
72.5°	3791.8	3677.3	3514.2	3316.1	3064.4	2758.4	2536.8	2224.1	1977.4	1711.6	1501.7
75°	2369.6	2208.2	2006.7	1754.2	1561.9	1313.6	1184.0	946.5	806.0	683.1	564.4
77.5°	1211.5	1090.3	949.0	806.9	670.6	535.1	413.9	292.6	197.3	137.1	102.0
80°	1000.8	893.8	776.8	647.2	526.8	408.9	294.3	200.7	127.9	83.6	65.2
82.5°	826.9	736.6	632.1	511.7	407.2	321.1	223.2	145.5	90.3	58.5	46.0
85°	352.0	319.4	246.7	195.7	147.2	108.7	76.1	51.0	36.0	29.3	26.8
87.5°	15.1	16.7	15.9	12.5	9.2	9.2	8.4	6.7	6.7	6.7	6.7
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3	131.3
2.5°	137.1	136.3	135.5	135.5	134.6	133.8	128.8	124.6	119.6	116.2	112.9
5°	143.0	142.1	140.5	139.6	138.0	137.1	126.3	117.1	109.5	103.7	99.5
7.5°	148.8	148.0	145.5	143.0	142.1	140.5	122.9	111.2	101.2	94.5	90.3
10°	156.4	153.8	151.3	148.0	145.5	143.0	119.6	104.5	93.6	87.8	83.6
12.5°	167.2	163.0	158.9	154.7	151.3	147.2	117.9	98.7	87.8	81.1	76.9
15°	179.8	173.9	168.9	163.9	158.0	153.8	114.5	93.6	82.8	76.1	71.1
17.5°	191.5	184.8	177.3	169.7	163.9	158.0	111.2	88.6	77.8	71.1	66.1
20°	208.2	198.2	189.0	179.8	171.4	163.9	106.2	83.6	73.6	66.1	61.0
22.5°	226.6	214.9	203.2	190.6	179.8	169.7	102.0	79.4	69.4	61.9	56.0
25°	250.0	235.8	219.9	204.0	191.5	178.1	97.8	75.3	65.2	57.7	51.8
27.5°	282.6	262.5	245.0	224.9	205.7	190.6	94.5	71.9	61.0	53.5	47.7
30°	326.9	297.7	270.1	248.3	225.8	204.0	91.1	67.7	57.7	49.3	42.6
32.5°	376.3	342.0	310.2	277.6	249.2	224.1	87.8	64.4	53.5	45.2	39.3
35°	437.3	393.8	351.2	313.5	279.3	245.8	84.4	61.0	50.2	41.0	35.1
37.5°	525.1	470.7	414.7	366.2	321.9	277.6	81.9	57.7	46.0	36.8	30.9
40°	645.5	575.3	506.7	440.6	382.9	327.8	78.6	54.3	42.6	33.4	27.6
42.5°	775.9	690.6	600.3	525.9	446.5	377.1	75.3	51.0	39.3	30.1	24.2
45°	938.1	831.9	722.4	621.2	524.3	434.8	71.9	47.7	35.1	26.8	20.9
47.5°	1115.4	979.9	856.2	729.1	613.7	506.7	67.7	45.2	31.8	23.4	18.4
50°	1297.7	1154.7	998.3	853.7	716.6	578.6	63.5	41.0	28.4	20.9	15.1
52.5°	1494.2	1325.3	1165.6	985.8	826.1	673.1	59.4	37.6	25.9	18.4	12.5
55°	1744.2	1555.2	1367.9	1166.4	974.1	782.6	55.2	33.4	22.6	15.9	10.0
57.5°	2058.5	1834.5	1604.5	1377.1	1143.8	926.4	51.8	29.3	19.2	13.4	8.4
60°	2355.4	2093.7	1815.2	1553.5	1290.1	1036.8	46.8	25.9	16.7	10.9	8.4
62.5°	2509.2	2210.7	1910.6	1622.1	1341.1	1076.1	41.8	21.7	14.2	9.2	7.5
65°	2471.6	2167.2	1876.3	1585.3	1310.2	1051.0	36.8	19.2	12.5	8.4	7.5
66°	2417.2	2116.2	1823.6	1546.8	1284.3	1024.3	34.3	18.4	11.7	8.4	6.7
67.5°	2298.5	2007.5	1728.3	1470.7	1213.2	973.3	30.9	16.7	10.9	7.5	6.7
70°	1963.2	1699.0	1475.8	1246.7	1036.8	820.2	25.1	14.2	9.2	6.7	6.7
72.5°	1299.3	1119.6	970.7	835.3	698.2	541.8	20.9	11.7	7.5	6.7	5.9
75°	490.0	443.1	380.4	342.0	298.5	261.7	16.7	7.5	5.9	5.9	5.9
77.5°	87.0	80.3	71.1	65.2	60.2	55.2	13.4	5.0	5.0	5.9	5.9
80°	58.5	54.3	49.3	45.2	41.8	37.6	9.2	4.2	5.0	5.0	5.9
82.5°	41.8	39.3	36.8	33.4	30.9	27.6	5.9	4.2	5.0	5.0	5.0
85°	25.1	23.4	21.7	20.1	17.6	16.7	4.2	4.2	4.2	5.0	5.0
87.5°	6.7	5.9	6.7	6.7	5.0	5.9	3.3	3.3	3.3	4.2	4.2
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):

	145°	155°	165°	175°	180°
0°	131.3	131.3	131.3	131.3	131.3
2.5°	111.2	111.2	109.5	112.0	112.0
5°	96.2	96.2	95.3	96.2	96.2
7.5°	87.8	87.0	87.0	87.0	87.8
10°	80.3	79.4	79.4	79.4	79.4
12.5°	73.6	72.7	71.9	72.7	72.7
15°	67.7	66.1	66.1	66.1	66.1
17.5°	62.7	61.0	60.2	60.2	60.2
20°	57.7	55.2	55.2	55.2	55.2
22.5°	52.7	50.2	50.2	50.2	50.2
25°	47.7	45.2	45.2	45.2	45.2
27.5°	43.5	41.0	41.0	41.0	41.0
30°	38.5	36.8	36.8	37.6	36.8
32.5°	35.1	32.6	32.6	33.4	33.4
35°	30.9	29.3	29.3	29.3	29.3
37.5°	26.8	25.1	25.1	25.1	25.1
40°	23.4	21.7	20.9	21.7	21.7
42.5°	20.1	18.4	17.6	17.6	17.6
45°	17.6	15.1	14.2	15.1	15.1
47.5°	14.2	12.5	12.5	13.4	13.4
50°	10.9	10.9	11.7	13.4	13.4
52.5°	10.0	10.0	11.7	13.4	13.4
55°	9.2	10.0	11.7	12.5	13.4
57.5°	8.4	10.0	11.7	12.5	12.5
60°	8.4	9.2	10.9	12.5	12.5
62.5°	7.5	8.4	10.0	11.7	11.7
65°	7.5	8.4	10.0	11.7	11.7
66°	7.5	8.4	10.0	11.7	11.7
67.5°	7.5	8.4	10.0	11.7	11.7
70°	7.5	8.4	10.0	10.9	10.9
72.5°	6.7	7.5	9.2	10.9	10.9
75°	6.7	7.5	9.2	10.9	10.9
77.5°	6.7	7.5	9.2	10.9	10.9
80°	6.7	7.5	9.2	10.0	10.9
82.5°	5.9	7.5	8.4	10.0	10.0
85°	5.9	6.7	8.4	9.2	10.0
87.5°	5.0	5.9	6.7	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)