

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: P180628

Luminaire Tested: **ICS-E02-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180628
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-E02-LED-E1-SL3-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3121 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

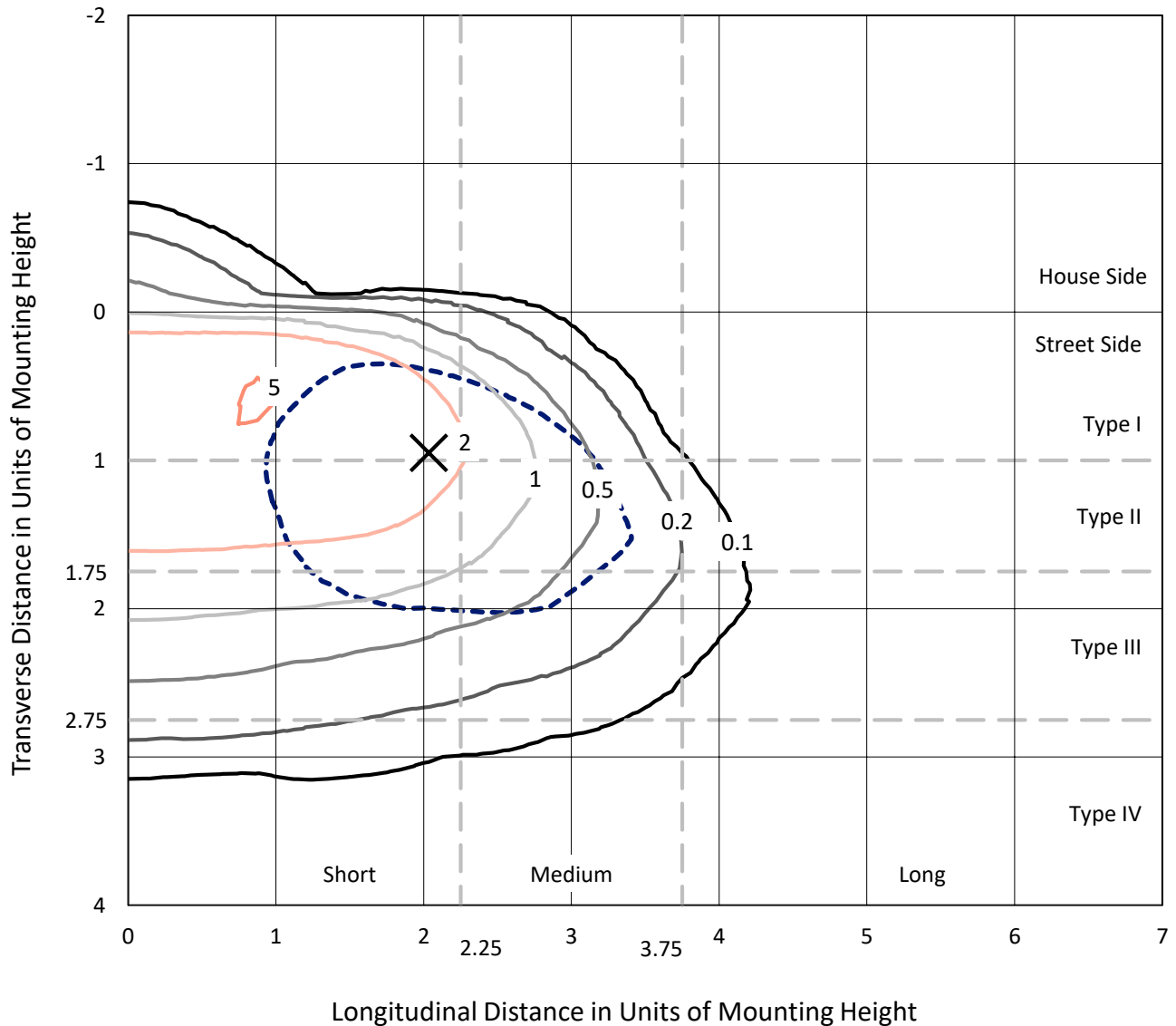
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

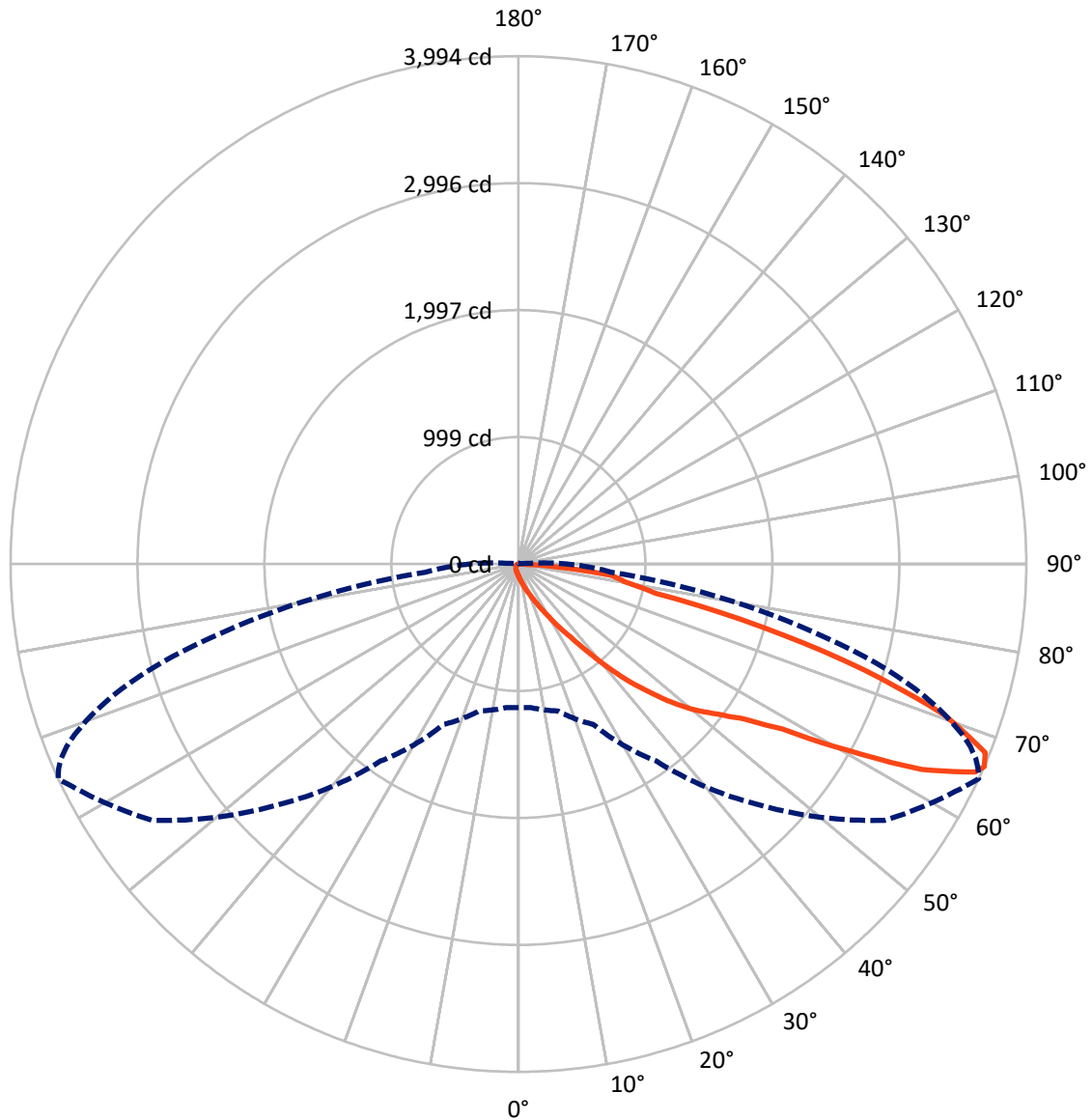


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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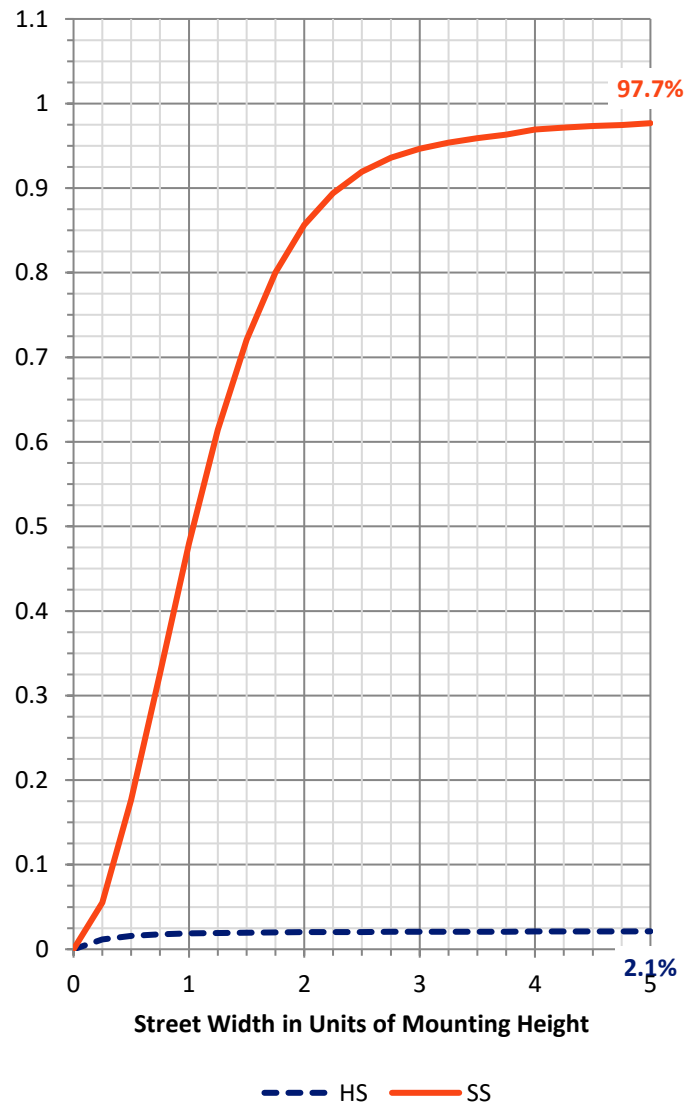
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	67.6	0.0	67.6
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	3053.4	0.0	3053.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	3121.0	0.0	3121.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.3
10°-20°	44.7	1.4
20°-30°	96.4	3.1
30°-40°	206.0	6.6
40°-50°	455.5	14.6
50°-60°	771.9	24.7
60°-70°	1030.0	33.0
70°-80°	453.7	14.5
80°-90°	52.3	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°	3121.0	100.0
0°-180°	3121.0	100.0



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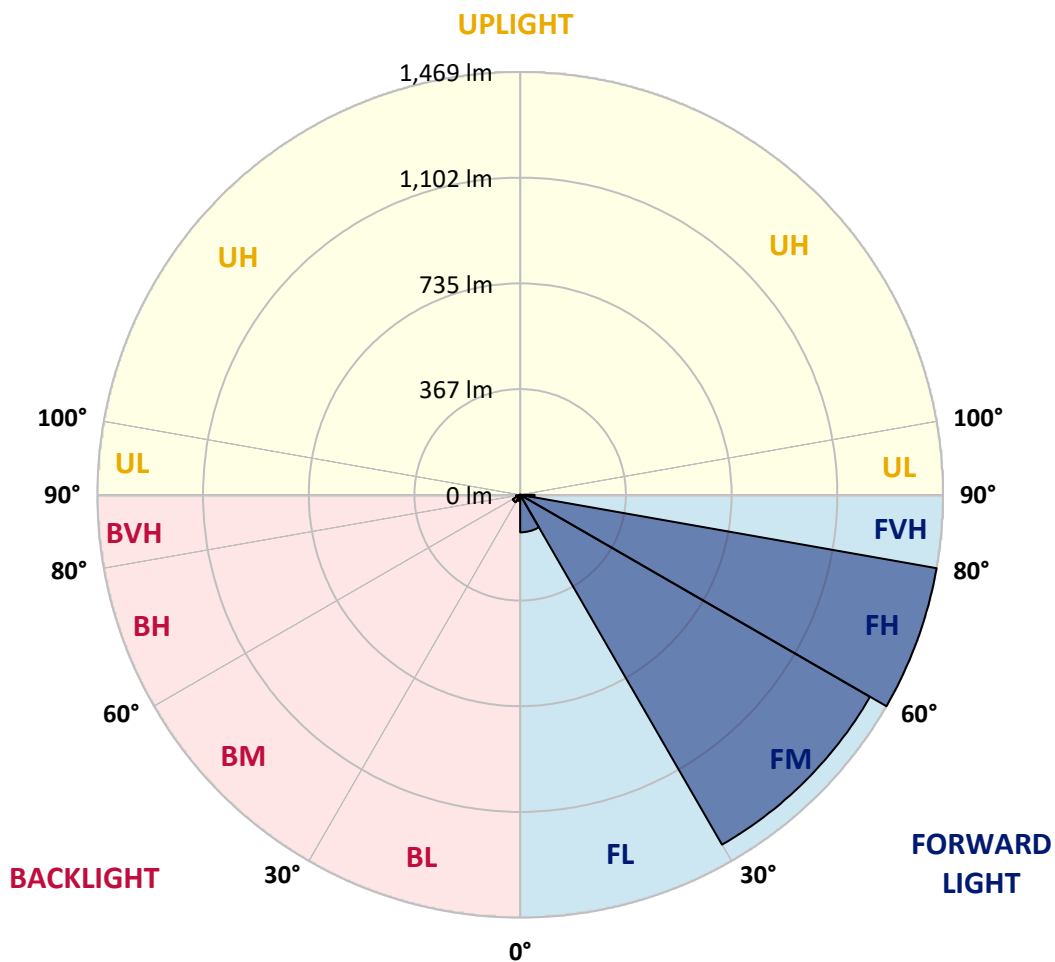
CATALOG NUMBER: ICS-E02-LED-E1-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.4	4.2			
FM	(30°-60°)	1403.6	45.0			
FH	(60°-80°)	1469.2	47.1			G1/1800
FVH	(80°-90°)	50.2	1.6			G1/100
BL	(0°-30°)	21.3	0.7	B0/110		
BM	(30°-60°)	29.7	1.0	B0/220		
BH	(60°-80°)	14.5	0.5	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	118.8	118.2	115.8	115.8	112.2	109.8	106.8	103.8	103.8	103.2	102.6
5°	157.2	153.6	153.0	146.4	141.0	133.2	126.0	116.4	115.2	114.0	113.4
7.5°	199.8	199.2	193.8	186.0	175.2	160.8	146.4	130.8	128.4	127.2	124.8
10°	255.0	252.0	244.8	231.6	215.4	196.2	172.8	148.2	145.2	142.8	141.6
12.5°	307.8	302.4	298.2	281.4	261.0	232.8	204.6	169.2	166.8	163.8	159.0
15°	357.0	352.2	345.0	330.6	307.8	272.4	239.4	196.2	190.2	186.0	182.4
17.5°	395.4	392.4	384.0	367.8	343.2	312.0	272.4	223.8	219.0	213.6	207.0
20°	432.0	427.8	414.6	392.4	366.0	342.0	311.4	259.8	253.2	246.6	239.4
22.5°	466.8	462.6	441.0	404.4	376.2	366.0	355.2	300.6	290.4	285.0	277.8
25°	515.4	506.4	472.8	414.6	376.8	384.6	403.2	353.4	343.8	336.0	324.6
27.5°	580.8	568.8	516.0	429.6	379.2	405.0	458.4	417.6	407.4	398.4	385.8
30°	654.6	646.8	583.8	465.6	396.6	435.0	520.2	499.2	487.2	476.4	461.4
32.5°	729.0	718.2	655.8	534.0	443.4	493.2	597.6	594.0	578.4	568.2	552.0
35°	794.4	789.0	742.8	646.2	550.2	595.2	700.8	705.0	691.2	680.4	662.4
37.5°	838.8	838.8	829.8	766.8	720.0	753.6	852.6	853.2	839.4	814.8	805.8
40°	861.6	868.2	900.6	912.6	910.2	953.5	1051.9	1041.1	1029.7	1017.1	987.1
42.5°	908.4	914.4	983.5	1066.3	1120.3	1177.3	1245.1	1241.5	1227.7	1204.9	1177.3
45°	987.7	995.5	1077.7	1209.1	1320.1	1401.1	1444.3	1427.5	1413.7	1392.1	1377.7
47.5°	1088.5	1103.5	1196.5	1359.1	1492.9	1626.7	1671.7	1627.3	1615.3	1598.5	1575.1
50°	1195.9	1210.3	1309.3	1495.3	1646.5	1806.1	1881.1	1806.1	1788.7	1783.3	1756.9
52.5°	1288.9	1300.9	1396.3	1600.3	1764.1	1951.3	2060.5	1961.5	1948.9	1930.9	1911.7
55°	1344.1	1353.7	1443.1	1650.7	1843.9	2082.1	2233.9	2146.9	2128.3	2121.1	2093.5
57.5°	1362.7	1372.3	1452.7	1657.3	1887.1	2201.5	2444.5	2447.5	2425.3	2399.5	2391.1
60°	1362.7	1373.5	1441.3	1641.1	1929.1	2328.7	2725.3	2975.6	2927.6	2922.8	2892.2
62.5°	1306.3	1316.5	1384.9	1591.3	1985.5	2500.3	3116.6	3558.2	3544.4	3513.2	3462.8
65°	1183.9	1189.9	1257.1	1464.1	1963.9	2658.1	3455.6	3945.8	3923.6	3862.4	3797.6
66°	1128.7	1133.5	1196.5	1391.5	1893.1	2679.7	3515.6	3994.4	3957.8	3906.2	3833.0
67.5°	1048.9	1057.3	1101.7	1256.5	1723.3	2604.7	3477.8	3960.2	3928.4	3866.0	3792.8
70°	700.2	694.2	850.8	964.3	1312.9	2122.3	3120.2	3555.8	3556.4	3527.0	3497.6
72.5°	332.4	336.0	381.6	593.4	859.2	1417.9	2483.5	2838.2	2879.0	2826.2	2789.6
75°	238.8	244.2	271.8	363.0	512.4	850.8	1609.9	1984.9	1986.1	1892.5	1809.1
77.5°	69.6	72.6	102.0	223.8	384.0	574.2	924.7	1103.5	1077.7	1010.5	947.5
80°	28.8	28.8	30.0	71.4	154.2	390.0	646.8	849.6	846.6	820.8	783.6
82.5°	10.8	11.4	14.4	29.4	36.6	96.0	431.4	737.4	735.6	699.0	672.6
85°	1.2	1.2	3.6	12.6	13.8	18.0	86.4	325.2	323.4	325.2	285.0
87.5°	0.0	0.0	0.6	1.2	1.8	2.4	3.6	12.6	13.8	13.2	12.0
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	102.6	101.4	101.4	100.8	100.8	100.8	100.2	99.6	99.6	99.0	98.4
5°	112.2	111.0	110.4	109.2	108.6	108.0	106.8	106.2	105.0	104.4	103.8
7.5°	123.6	121.2	120.6	118.8	117.0	115.8	114.6	112.8	111.6	109.2	108.6
10°	138.0	135.0	132.6	130.2	128.4	125.4	123.6	121.2	118.8	117.0	115.2
12.5°	156.6	152.4	148.8	146.4	142.2	138.6	135.0	133.2	128.4	126.0	123.0
15°	177.0	172.2	168.0	163.2	160.2	154.2	149.4	144.0	141.6	137.4	132.6
17.5°	203.4	195.6	189.0	184.2	178.2	172.2	166.8	161.4	154.2	149.4	143.4
20°	231.6	225.0	216.0	207.6	200.4	193.2	185.4	178.2	171.6	163.8	156.6
22.5°	267.6	258.0	247.2	238.8	229.2	221.4	210.6	201.0	190.2	180.0	171.6
25°	313.2	300.6	290.4	278.4	267.0	255.0	241.8	229.8	216.0	206.4	192.0
27.5°	369.6	357.6	343.8	328.2	316.8	298.8	281.4	266.4	250.2	235.2	219.0
30°	441.6	424.2	409.8	394.8	372.0	354.6	334.2	313.8	291.6	276.6	252.0
32.5°	528.0	509.4	487.8	466.2	445.2	420.6	395.4	370.2	345.6	318.0	292.8
35°	633.6	611.4	586.8	563.4	531.0	504.6	472.8	438.0	410.4	378.6	346.8
37.5°	773.4	736.8	715.2	690.6	646.8	610.8	575.4	540.6	492.0	458.4	413.4
40°	948.7	927.1	891.6	852.0	812.4	765.0	717.0	670.8	614.4	567.6	515.4
42.5°	1154.5	1122.7	1086.7	1029.7	989.5	933.7	879.0	817.8	748.8	688.8	627.6
45°	1347.7	1309.9	1282.3	1225.3	1183.3	1117.3	1051.3	986.5	906.6	829.2	758.4
47.5°	1556.5	1525.3	1479.7	1433.5	1390.9	1316.5	1245.1	1166.5	1082.5	990.7	898.8
50°	1740.1	1715.5	1684.3	1628.5	1581.1	1518.7	1434.7	1348.9	1242.7	1151.5	1047.1
52.5°	1896.1	1876.9	1833.1	1793.5	1750.9	1692.1	1617.1	1534.9	1420.3	1320.1	1201.3
55°	2080.3	2066.5	2028.1	2003.5	1965.7	1909.3	1839.1	1762.9	1641.7	1532.5	1398.1
57.5°	2382.1	2371.3	2337.7	2327.5	2290.3	2241.1	2154.7	2073.1	1931.5	1795.9	1642.3
60°	2882.0	2860.4	2811.2	2786.0	2707.3	2641.3	2529.1	2416.9	2245.9	2073.1	1888.3
62.5°	3417.2	3356.6	3263.0	3182.6	3071.0	2956.4	2806.4	2634.7	2434.3	2229.1	2016.7
65°	3705.8	3602.6	3484.4	3356.6	3212.0	3043.4	2854.4	2648.5	2433.1	2216.5	1992.1
66°	3738.8	3622.4	3497.0	3354.8	3194.0	3014.6	2822.6	2606.5	2382.7	2171.5	1947.1
67.5°	3697.4	3575.6	3443.0	3285.2	3111.2	2925.2	2723.5	2499.1	2283.7	2069.5	1851.1
70°	3407.6	3286.4	3168.2	3002.0	2816.6	2629.3	2438.5	2187.7	1983.7	1786.9	1592.5
72.5°	2721.1	2638.9	2521.9	2379.7	2199.1	1979.5	1820.5	1596.1	1419.1	1228.3	1077.7
75°	1700.5	1584.7	1440.1	1258.9	1120.9	942.7	849.6	679.2	578.4	490.2	405.0
77.5°	869.4	782.4	681.0	579.0	481.2	384.0	297.0	210.0	141.6	98.4	73.2
80°	718.2	641.4	557.4	464.4	378.0	293.4	211.2	144.0	91.8	60.0	46.8
82.5°	593.4	528.6	453.6	367.2	292.2	230.4	160.2	104.4	64.8	42.0	33.0
85°	252.6	229.2	177.0	140.4	105.6	78.0	54.6	36.6	25.8	21.0	19.2
87.5°	10.8	12.0	11.4	9.0	6.6	6.6	6.0	4.8	4.8	4.8	4.8
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°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	98.4	97.8	97.2	97.2	96.6	96.0	92.4	89.4	85.8	83.4	81.0
5°	102.6	102.0	100.8	100.2	99.0	98.4	90.6	84.0	78.6	74.4	71.4
7.5°	106.8	106.2	104.4	102.6	102.0	100.8	88.2	79.8	72.6	67.8	64.8
10°	112.2	110.4	108.6	106.2	104.4	102.6	85.8	75.0	67.2	63.0	60.0
12.5°	120.0	117.0	114.0	111.0	108.6	105.6	84.6	70.8	63.0	58.2	55.2
15°	129.0	124.8	121.2	117.6	113.4	110.4	82.2	67.2	59.4	54.6	51.0
17.5°	137.4	132.6	127.2	121.8	117.6	113.4	79.8	63.6	55.8	51.0	47.4
20°	149.4	142.2	135.6	129.0	123.0	117.6	76.2	60.0	52.8	47.4	43.8
22.5°	162.6	154.2	145.8	136.8	129.0	121.8	73.2	57.0	49.8	44.4	40.2
25°	179.4	169.2	157.8	146.4	137.4	127.8	70.2	54.0	46.8	41.4	37.2
27.5°	202.8	188.4	175.8	161.4	147.6	136.8	67.8	51.6	43.8	38.4	34.2
30°	234.6	213.6	193.8	178.2	162.0	146.4	65.4	48.6	41.4	35.4	30.6
32.5°	270.0	245.4	222.6	199.2	178.8	160.8	63.0	46.2	38.4	32.4	28.2
35°	313.8	282.6	252.0	225.0	200.4	176.4	60.6	43.8	36.0	29.4	25.2
37.5°	376.8	337.8	297.6	262.8	231.0	199.2	58.8	41.4	33.0	26.4	22.2
40°	463.2	412.8	363.6	316.2	274.8	235.2	56.4	39.0	30.6	24.0	19.8
42.5°	556.8	495.6	430.8	377.4	320.4	270.6	54.0	36.6	28.2	21.6	17.4
45°	673.2	597.0	518.4	445.8	376.2	312.0	51.6	34.2	25.2	19.2	15.0
47.5°	800.4	703.2	614.4	523.2	440.4	363.6	48.6	32.4	22.8	16.8	13.2
50°	931.3	828.6	716.4	612.6	514.2	415.2	45.6	29.4	20.4	15.0	10.8
52.5°	1072.3	951.1	836.4	707.4	592.8	483.0	42.6	27.0	18.6	13.2	9.0
55°	1251.7	1116.1	981.7	837.0	699.0	561.6	39.6	24.0	16.2	11.4	7.2
57.5°	1477.3	1316.5	1151.5	988.3	820.8	664.8	37.2	21.0	13.8	9.6	6.0
60°	1690.3	1502.5	1302.7	1114.9	925.9	744.0	33.6	18.6	12.0	7.8	6.0
62.5°	1800.7	1586.5	1371.1	1164.1	962.5	772.2	30.0	15.6	10.2	6.6	5.4
65°	1773.7	1555.3	1346.5	1137.7	940.3	754.2	26.4	13.8	9.0	6.0	5.4
66°	1734.7	1518.7	1308.7	1110.1	921.7	735.0	24.6	13.2	8.4	6.0	4.8
67.5°	1649.5	1440.7	1240.3	1055.5	870.6	698.4	22.2	12.0	7.8	5.4	4.8
70°	1408.9	1219.3	1059.1	894.6	744.0	588.6	18.0	10.2	6.6	4.8	4.8
72.5°	932.5	803.4	696.6	599.4	501.0	388.8	15.0	8.4	5.4	4.8	4.2
75°	351.6	318.0	273.0	245.4	214.2	187.8	12.0	5.4	4.2	4.2	4.2
77.5°	62.4	57.6	51.0	46.8	43.2	39.6	9.6	3.6	3.6	4.2	4.2
80°	42.0	39.0	35.4	32.4	30.0	27.0	6.6	3.0	3.6	3.6	4.2
82.5°	30.0	28.2	26.4	24.0	22.2	19.8	4.2	3.0	3.6	3.6	3.6
85°	18.0	16.8	15.6	14.4	12.6	12.0	3.0	3.0	3.0	3.6	3.6
87.5°	4.8	4.2	4.8	4.8	3.6	4.2	2.4	2.4	2.4	3.0	3.0
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):

	145°	155°	165°	175°	180°
0°	94.2	94.2	94.2	94.2	94.2
2.5°	79.8	79.8	78.6	80.4	80.4
5°	69.0	69.0	68.4	69.0	69.0
7.5°	63.0	62.4	62.4	62.4	63.0
10°	57.6	57.0	57.0	57.0	57.0
12.5°	52.8	52.2	51.6	52.2	52.2
15°	48.6	47.4	47.4	47.4	47.4
17.5°	45.0	43.8	43.2	43.2	43.2
20°	41.4	39.6	39.6	39.6	39.6
22.5°	37.8	36.0	36.0	36.0	36.0
25°	34.2	32.4	32.4	32.4	32.4
27.5°	31.2	29.4	29.4	29.4	29.4
30°	27.6	26.4	26.4	27.0	26.4
32.5°	25.2	23.4	23.4	24.0	24.0
35°	22.2	21.0	21.0	21.0	21.0
37.5°	19.2	18.0	18.0	18.0	18.0
40°	16.8	15.6	15.0	15.6	15.6
42.5°	14.4	13.2	12.6	12.6	12.6
45°	12.6	10.8	10.2	10.8	10.8
47.5°	10.2	9.0	9.0	9.6	9.6
50°	7.8	7.8	8.4	9.6	9.6
52.5°	7.2	7.2	8.4	9.6	9.6
55°	6.6	7.2	8.4	9.0	9.6
57.5°	6.0	7.2	8.4	9.0	9.0
60°	6.0	6.6	7.8	9.0	9.0
62.5°	5.4	6.0	7.2	8.4	8.4
65°	5.4	6.0	7.2	8.4	8.4
66°	5.4	6.0	7.2	8.4	8.4
67.5°	5.4	6.0	7.2	8.4	8.4
70°	5.4	6.0	7.2	7.8	7.8
72.5°	4.8	5.4	6.6	7.8	7.8
75°	4.8	5.4	6.6	7.8	7.8
77.5°	4.8	5.4	6.6	7.8	7.8
80°	4.8	5.4	6.6	7.2	7.8
82.5°	4.2	5.4	6.0	7.2	7.2
85°	4.2	4.8	6.0	6.6	7.2
87.5°	3.6	4.2	4.8	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)