

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: P180828

Luminaire Tested: **ICS-E02-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180828
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
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-SL4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 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: 3662.8 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

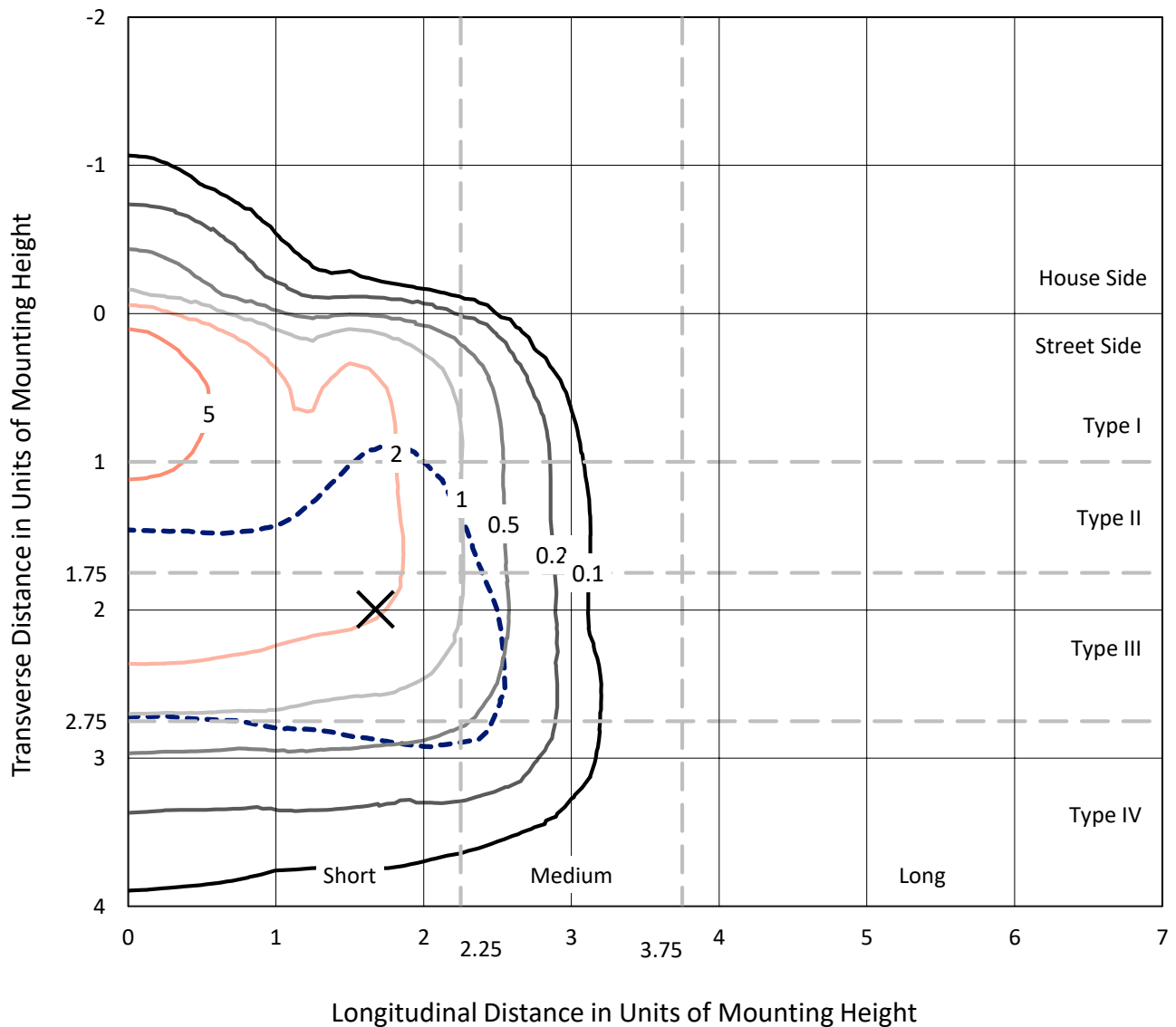
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

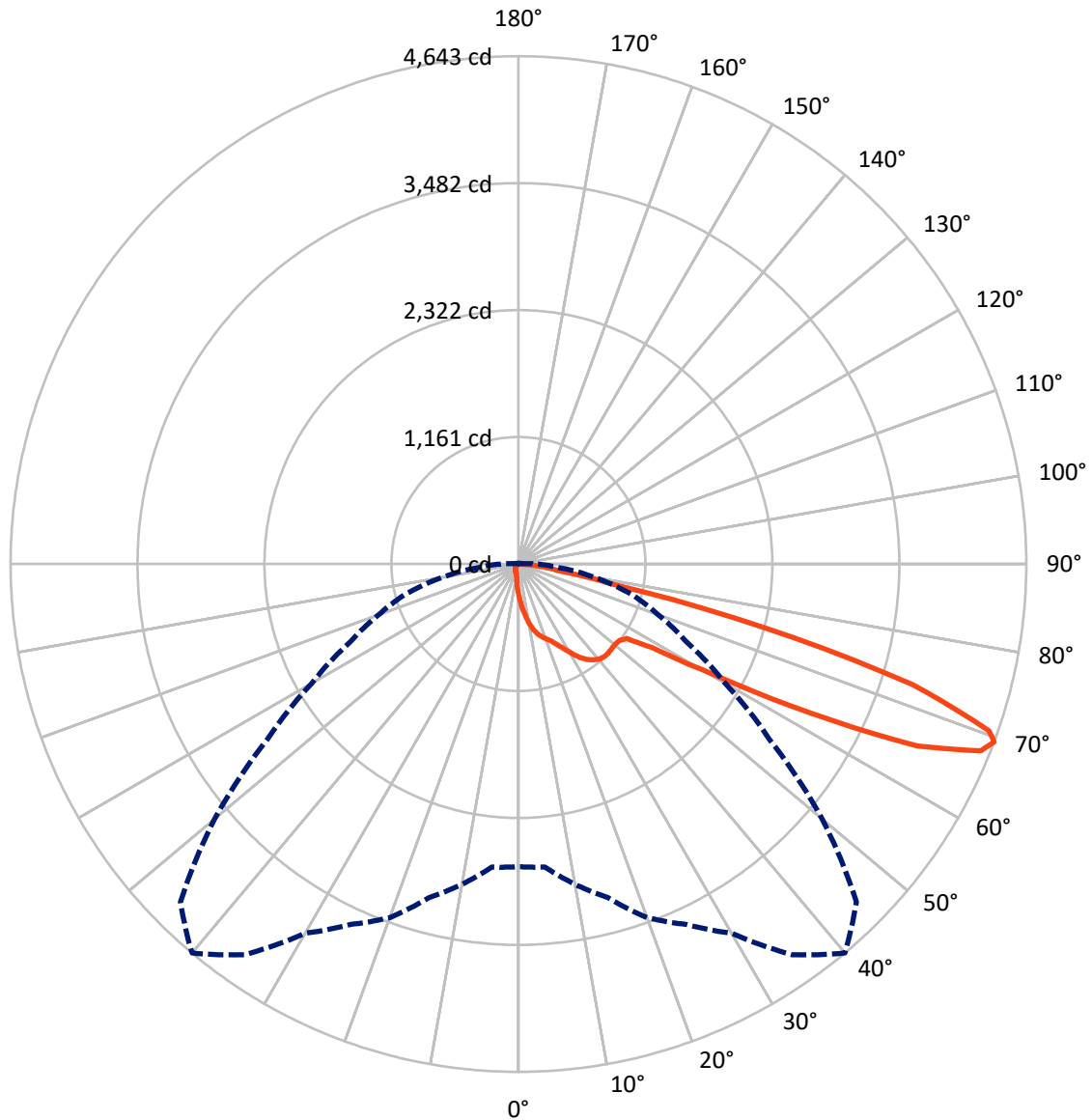


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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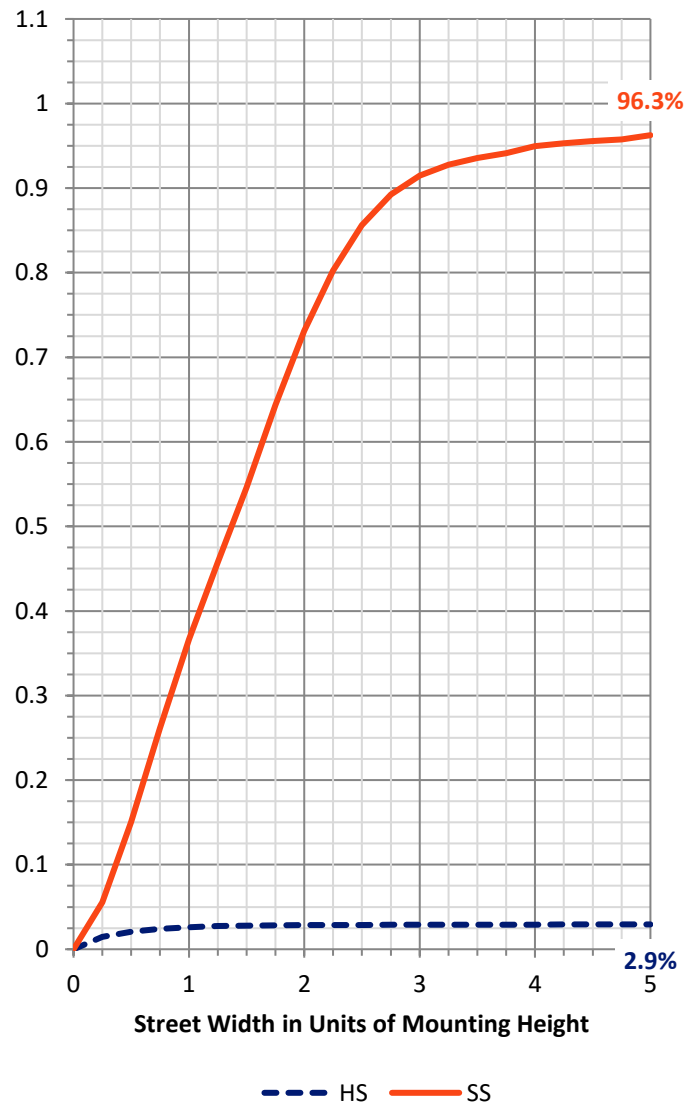
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	109.1	0.0	109.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	3553.8	0.0	3553.8
	% Fixture	97.0	0.0	97.0
Total	Lumens	3662.8	0.0	3662.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	0.8
10°-20°	98.0	2.7
20°-30°	187.6	5.1
30°-40°	312.0	8.5
40°-50°	422.2	11.5
50°-60°	660.3	18.0
60°-70°	1357.5	37.1
70°-80°	546.2	14.9
80°-90°	50.5	1.4
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°	3662.8	100.0
0°-180°	3662.8	100.0



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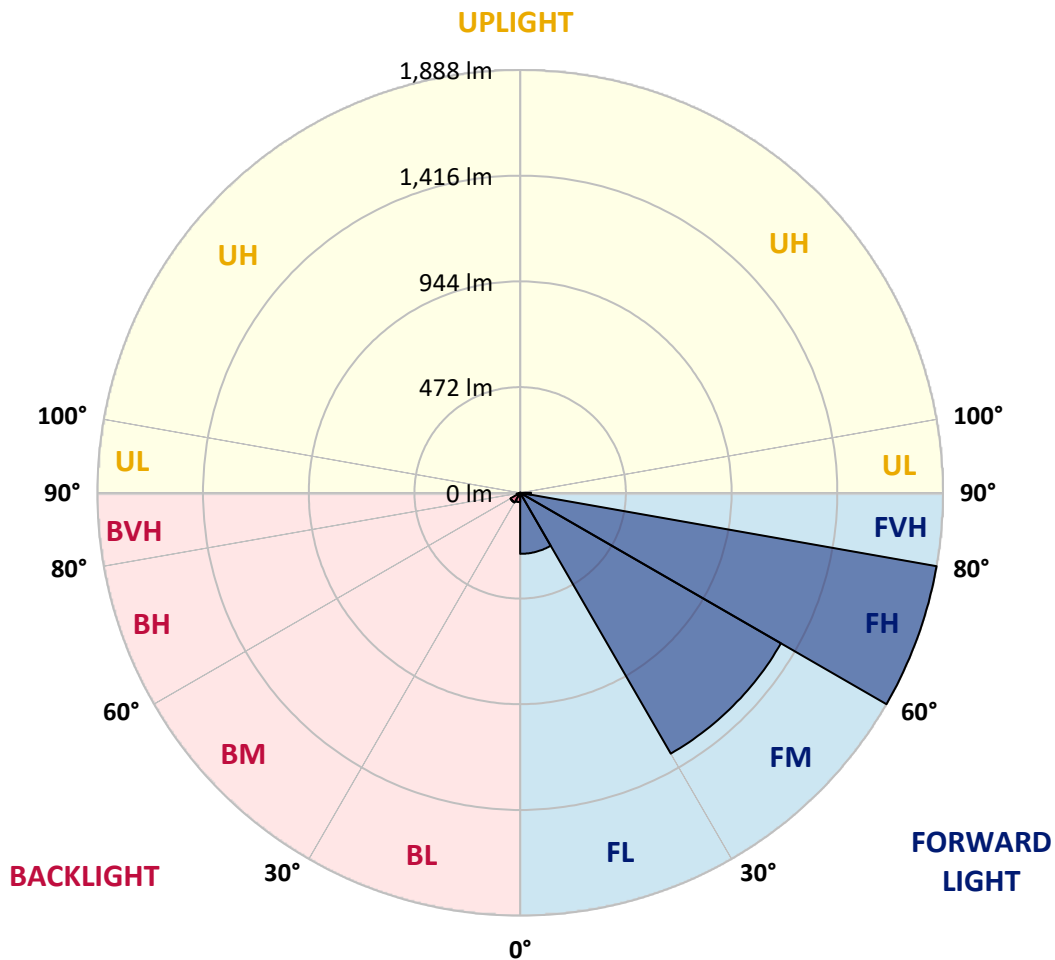
CATALOG NUMBER: ICS-E02-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.6	7.4			
FM (30°-60°)	1344.7	36.7			
FH (60°-80°)	1887.8	51.5			G2/5000
FVH (80°-90°)	48.6	1.3			G1/100
BL (0°-30°)	41.5	1.1	B0/110		
BM (30°-60°)	49.8	1.4	B0/220		
BH (60°-80°)	15.9	0.4	B0/110		G0/110
BVH (80°-90°)	1.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6
2.5°	369.0	364.8	360.0	360.0	354.0	354.0	350.4	340.8	339.6	334.2	328.8
5°	471.0	467.4	461.4	456.0	451.2	442.8	436.8	425.4	412.8	400.8	390.0
7.5°	570.6	568.8	558.0	556.2	548.4	534.6	522.6	505.8	484.2	467.4	447.6
10°	663.0	658.8	656.4	646.2	634.8	619.8	601.2	580.8	555.6	529.2	501.0
12.5°	736.2	733.8	723.0	718.8	706.8	691.8	668.4	642.0	616.8	582.6	549.6
15°	790.8	786.6	779.4	772.8	758.4	745.2	723.6	694.8	664.2	627.0	587.4
17.5°	836.4	828.6	826.8	816.6	801.6	786.0	762.0	735.6	699.6	662.4	619.2
20°	897.6	886.8	883.2	868.2	850.8	829.2	801.6	768.6	730.8	690.0	645.6
22.5°	969.7	961.9	954.1	940.9	918.6	888.0	847.8	811.8	763.8	718.8	670.8
25°	1071.7	1065.1	1052.5	1034.5	1006.9	970.3	921.7	868.8	812.4	754.8	698.4
27.5°	1170.7	1164.7	1155.7	1141.9	1110.7	1070.5	1010.5	943.3	871.8	802.2	739.8
30°	1263.7	1258.3	1249.3	1235.5	1207.9	1168.3	1100.5	1028.5	939.7	858.6	783.6
32.5°	1363.9	1362.1	1351.9	1332.1	1308.1	1254.7	1180.9	1103.5	1013.5	919.9	832.2
35°	1477.3	1463.5	1453.9	1434.1	1393.3	1336.3	1249.9	1165.3	1070.5	974.5	876.6
37.5°	1573.3	1560.1	1548.1	1522.9	1473.1	1400.5	1302.7	1209.7	1111.9	1014.1	914.4
40°	1643.5	1636.9	1622.5	1589.5	1533.7	1447.3	1341.7	1240.3	1141.9	1043.5	945.1
42.5°	1695.7	1685.5	1669.3	1635.1	1569.1	1470.7	1357.3	1252.9	1155.7	1061.5	964.9
45°	1714.9	1706.5	1691.5	1654.3	1582.9	1477.3	1356.7	1249.3	1156.3	1066.9	978.1
47.5°	1703.5	1695.1	1681.9	1647.1	1576.9	1469.5	1345.9	1239.1	1150.3	1068.7	990.1
50°	1665.7	1660.9	1650.7	1621.3	1558.3	1454.5	1336.3	1233.7	1149.1	1077.7	1006.9
52.5°	1662.1	1659.1	1646.5	1617.1	1552.9	1449.7	1335.1	1236.7	1159.3	1089.1	1018.9
55°	2031.1	1988.5	1893.1	1812.1	1678.9	1520.5	1395.7	1285.3	1202.5	1134.1	1084.9
57.5°	2886.8	2823.2	2697.7	2543.5	2237.5	1936.9	1696.3	1522.3	1436.5	1405.3	1423.9
60°	3287.6	3276.2	3256.4	3183.2	3026.6	2768.0	2479.9	2168.5	2043.7	2032.9	2070.7
62.5°	3477.8	3470.6	3476.6	3467.6	3419.0	3343.4	3260.6	3126.2	3002.6	2922.8	2753.5
65°	3565.4	3570.2	3604.4	3631.4	3637.4	3657.2	3717.8	3885.2	4007.6	3801.8	3332.0
67.5°	3342.8	3371.0	3449.6	3548.0	3663.2	3774.8	3954.8	4307.6	4559.0	4317.2	3650.0
69°	2767.4	2781.2	2973.2	3158.6	3440.0	3636.8	3897.8	4360.4	4643.1	4370.0	3624.8
70°	2178.7	2191.3	2397.1	2649.1	3125.0	3378.2	3719.6	4271.0	4564.4	4299.8	3495.2
72.5°	982.9	964.9	1037.5	1172.5	1689.7	2091.7	2688.7	3460.4	3765.8	3444.8	2614.9
75°	686.4	678.6	686.4	687.0	767.4	990.1	1249.3	1875.7	2319.7	2001.7	1249.3
77.5°	531.6	526.2	520.8	514.8	524.4	587.4	612.6	665.4	864.0	817.2	476.4
80°	420.6	415.8	429.0	424.8	424.8	432.0	427.2	407.4	370.2	343.2	307.2
82.5°	195.6	196.8	196.8	213.6	257.4	300.6	314.4	294.6	261.6	222.6	179.4
85°	18.6	21.0	35.4	54.6	108.6	122.4	123.0	102.0	102.0	80.4	64.8
87.5°	0.0	0.6	0.6	0.6	5.4	15.0	12.6	3.6	1.8	1.8	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6
2.5°	319.2	317.4	310.2	303.0	296.4	289.2	282.6	276.0	268.8	263.4	256.8
5°	373.2	360.0	345.0	330.6	316.2	301.2	285.6	271.8	257.4	244.2	231.6
7.5°	427.8	402.0	381.6	355.8	332.4	309.0	287.4	265.2	244.8	225.6	207.6
10°	474.0	442.8	411.0	378.0	344.4	313.2	283.2	256.8	229.8	206.4	184.2
12.5°	511.8	472.2	433.2	391.8	354.0	314.4	277.2	245.4	213.6	187.2	164.4
15°	546.0	500.4	453.6	405.6	357.6	312.6	271.2	231.6	199.2	169.2	143.4
17.5°	573.6	521.4	468.6	414.6	363.0	310.2	263.4	222.0	184.2	153.0	127.8
20°	597.6	543.0	486.0	425.4	366.6	309.6	256.8	210.0	171.0	138.0	113.4
22.5°	619.8	565.2	504.0	439.2	372.0	309.0	250.8	201.0	159.6	126.6	102.0
25°	645.0	587.4	523.2	453.6	381.6	311.4	247.2	193.8	149.4	115.8	93.0
27.5°	673.2	612.6	546.0	471.6	394.2	316.2	246.0	186.0	140.4	105.6	85.8
30°	712.8	642.6	568.8	489.6	405.6	321.6	244.8	181.2	131.4	97.8	78.6
32.5°	747.6	672.0	594.0	508.2	418.2	327.0	244.2	174.6	123.0	90.0	73.2
35°	784.2	699.0	615.6	526.2	429.0	333.0	243.6	169.8	115.2	82.2	67.8
37.5°	816.0	721.8	632.4	541.8	441.0	338.4	244.2	165.6	108.0	75.6	63.0
40°	843.0	745.2	651.0	556.2	453.6	346.8	244.8	161.4	100.8	69.6	58.8
42.5°	867.0	767.4	670.8	572.4	468.0	356.4	248.4	157.8	94.8	64.2	54.6
45°	885.6	787.8	692.4	595.2	491.4	372.0	255.0	155.4	88.8	59.4	51.0
47.5°	904.8	817.8	729.0	631.2	525.6	396.6	266.4	154.8	84.0	55.8	48.0
50°	931.3	847.8	761.4	667.8	556.8	421.8	280.2	155.4	78.0	52.2	45.0
52.5°	950.5	878.4	803.4	731.4	631.2	498.6	333.6	166.2	75.0	49.2	41.4
55°	1063.9	1051.3	1053.1	1065.1	987.7	848.4	558.0	240.0	88.2	55.8	40.8
57.5°	1500.1	1544.5	1570.3	1569.7	1441.9	1195.9	749.4	308.4	98.4	64.8	48.6
60°	2073.7	2040.1	1992.7	1875.7	1705.9	1365.1	838.2	331.8	85.2	51.6	44.4
62.5°	2580.7	2383.9	2209.3	2019.7	1797.1	1423.9	856.2	330.0	74.4	39.0	31.2
65°	2897.0	2542.9	2260.9	2023.3	1761.1	1374.7	810.0	303.0	63.0	31.8	25.8
67.5°	2972.6	2457.1	2058.1	1755.1	1471.3	1069.9	594.6	228.0	49.2	26.4	22.8
69°	2807.6	2184.1	1705.3	1361.5	1070.5	709.8	367.8	144.0	37.8	24.0	21.0
70°	2582.5	1899.7	1389.1	1092.7	792.6	498.6	257.4	101.4	30.6	22.2	19.2
72.5°	1661.5	997.9	682.8	475.2	327.0	198.6	100.8	45.6	23.4	18.6	15.6
75°	644.4	369.0	267.6	203.4	159.0	110.4	61.2	29.4	19.8	15.6	12.0
77.5°	317.4	243.0	198.6	136.2	79.2	49.2	33.0	22.8	16.2	11.4	7.8
80°	250.8	166.8	99.6	61.8	46.8	35.4	25.2	18.6	12.0	7.2	5.4
82.5°	128.4	70.2	51.6	42.0	34.8	27.6	20.4	13.2	7.8	4.8	4.2
85°	40.2	29.4	26.4	25.8	24.0	19.8	14.4	8.4	4.8	3.0	3.0
87.5°	3.0	4.2	5.4	4.2	4.8	4.2	5.4	3.6	2.4	2.4	1.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6	276.6
2.5°	252.0	244.8	238.2	234.0	226.2	223.2	220.2	219.0	213.6	214.8	210.0
5°	220.2	207.6	198.0	188.4	179.4	172.8	167.4	160.8	155.4	153.0	148.2
7.5°	191.4	175.2	162.6	152.4	141.6	133.2	126.0	121.2	116.4	111.6	109.2
10°	166.2	148.8	134.4	124.2	114.0	106.8	101.4	97.8	94.8	93.0	92.4
12.5°	142.8	126.0	112.8	103.8	96.0	92.4	90.0	88.2	87.6	87.0	87.0
15°	124.8	108.0	97.8	91.2	87.6	85.8	85.2	84.0	82.8	82.2	82.2
17.5°	108.0	95.4	88.2	84.6	82.8	81.6	80.4	79.2	78.0	77.4	77.4
20°	96.6	86.4	82.8	80.4	78.6	77.4	75.6	74.4	73.8	73.2	72.6
22.5°	87.6	81.0	78.6	76.8	74.4	72.6	71.4	70.2	69.0	68.4	67.8
25°	81.0	76.8	75.0	72.6	70.2	68.4	66.6	64.8	63.6	63.0	61.8
27.5°	76.2	73.2	70.8	67.8	65.4	63.6	61.8	60.0	58.8	57.6	57.0
30°	72.0	69.0	66.0	63.6	60.6	58.8	56.4	54.6	54.0	52.8	51.6
32.5°	67.8	64.8	61.8	58.8	55.8	53.4	52.2	49.8	48.6	48.0	46.8
35°	63.0	60.0	56.4	54.0	51.0	48.6	46.8	45.0	43.8	42.6	42.0
37.5°	58.8	55.2	51.6	48.6	46.2	43.8	42.0	40.2	39.0	37.8	37.2
40°	54.0	50.4	46.8	43.8	41.4	39.6	37.8	36.0	34.8	34.2	34.2
42.5°	49.8	45.6	42.0	39.6	37.8	35.4	33.6	31.8	31.2	30.6	31.2
45°	45.6	41.4	38.4	36.0	34.2	31.8	30.0	28.8	28.2	28.8	29.4
47.5°	42.0	37.8	34.8	33.0	31.2	29.4	27.6	26.4	26.4	27.6	28.8
50°	38.4	34.2	31.8	30.6	28.8	27.0	24.6	24.0	24.6	25.8	27.0
52.5°	34.8	30.0	28.2	27.6	25.8	24.0	22.2	21.6	22.2	23.4	22.8
55°	31.2	26.4	25.8	25.2	23.4	21.0	19.2	19.2	19.2	18.6	17.4
57.5°	30.0	23.4	22.8	22.2	20.4	18.0	16.8	15.6	15.0	13.2	12.6
60°	31.2	21.0	21.0	19.8	18.0	15.6	13.8	12.0	10.8	9.6	9.6
62.5°	25.2	19.2	18.6	17.4	15.0	12.6	10.8	9.0	8.4	7.8	7.8
65°	20.4	17.4	16.2	14.4	12.6	10.2	8.4	7.2	6.6	6.6	7.2
67.5°	18.6	15.6	13.8	12.0	10.2	7.8	6.6	6.0	6.0	6.6	6.6
69°	17.4	14.4	12.6	10.8	9.0	7.2	6.0	6.0	6.0	6.0	6.6
70°	16.2	13.8	12.0	10.2	7.8	6.0	5.4	5.4	6.0	6.0	6.6
72.5°	12.6	10.8	10.2	8.4	6.0	5.4	4.8	5.4	5.4	6.0	6.0
75°	9.6	7.8	7.8	6.6	4.8	4.2	4.2	4.8	4.8	5.4	5.4
77.5°	6.6	5.4	5.4	4.8	4.2	3.6	3.6	4.2	4.8	4.8	5.4
80°	4.8	4.2	3.6	4.2	3.6	3.0	3.6	4.2	4.2	4.8	4.8
82.5°	3.6	3.6	3.6	3.6	3.0	3.0	3.6	3.6	4.2	4.8	4.8
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.6	3.6	4.2	4.2
87.5°	1.8	1.8	1.8	2.4	2.4	3.0	3.0	3.0	3.0	3.6	3.6
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):

	165°	170°	175°	180°
0°	276.6	276.6	276.6	276.6
2.5°	208.8	208.2	205.8	206.4
5°	146.4	142.8	145.2	144.6
7.5°	107.4	106.8	106.2	107.4
10°	91.8	91.8	91.2	91.8
12.5°	86.4	86.4	86.4	86.4
15°	82.2	82.2	81.6	81.6
17.5°	77.4	77.4	77.4	76.8
20°	72.6	72.0	72.0	72.0
22.5°	67.2	66.6	66.6	66.6
25°	61.8	61.2	61.2	61.2
27.5°	56.4	55.8	55.2	55.2
30°	51.0	50.4	49.8	49.8
32.5°	45.6	45.0	44.4	44.4
35°	40.8	40.8	40.2	39.6
37.5°	36.6	36.6	36.6	36.6
40°	33.6	34.2	34.2	34.2
42.5°	31.8	32.4	33.0	33.6
45°	30.6	31.8	32.4	32.4
47.5°	30.0	30.6	31.2	31.2
50°	27.6	27.0	27.0	27.0
52.5°	22.2	21.0	20.4	19.8
55°	16.2	15.6	14.4	14.4
57.5°	11.4	11.4	10.8	10.8
60°	9.0	9.0	8.4	9.0
62.5°	7.8	7.8	7.8	7.8
65°	7.2	7.2	7.2	7.2
67.5°	7.2	7.2	7.2	7.2
69°	6.6	6.6	6.6	6.6
70°	6.6	6.6	6.6	6.6
72.5°	6.0	6.0	6.0	6.0
75°	5.4	6.0	6.0	6.0
77.5°	5.4	5.4	5.4	5.4
80°	4.8	4.8	5.4	5.4
82.5°	4.8	4.8	4.8	4.8
85°	4.2	4.2	4.8	4.8
87.5°	3.6	3.6	4.2	4.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)