

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: P401259

Luminaire Tested: **ENV-SA1C-727-U-SLR-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-727-U-SLR-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2837 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 33.3
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

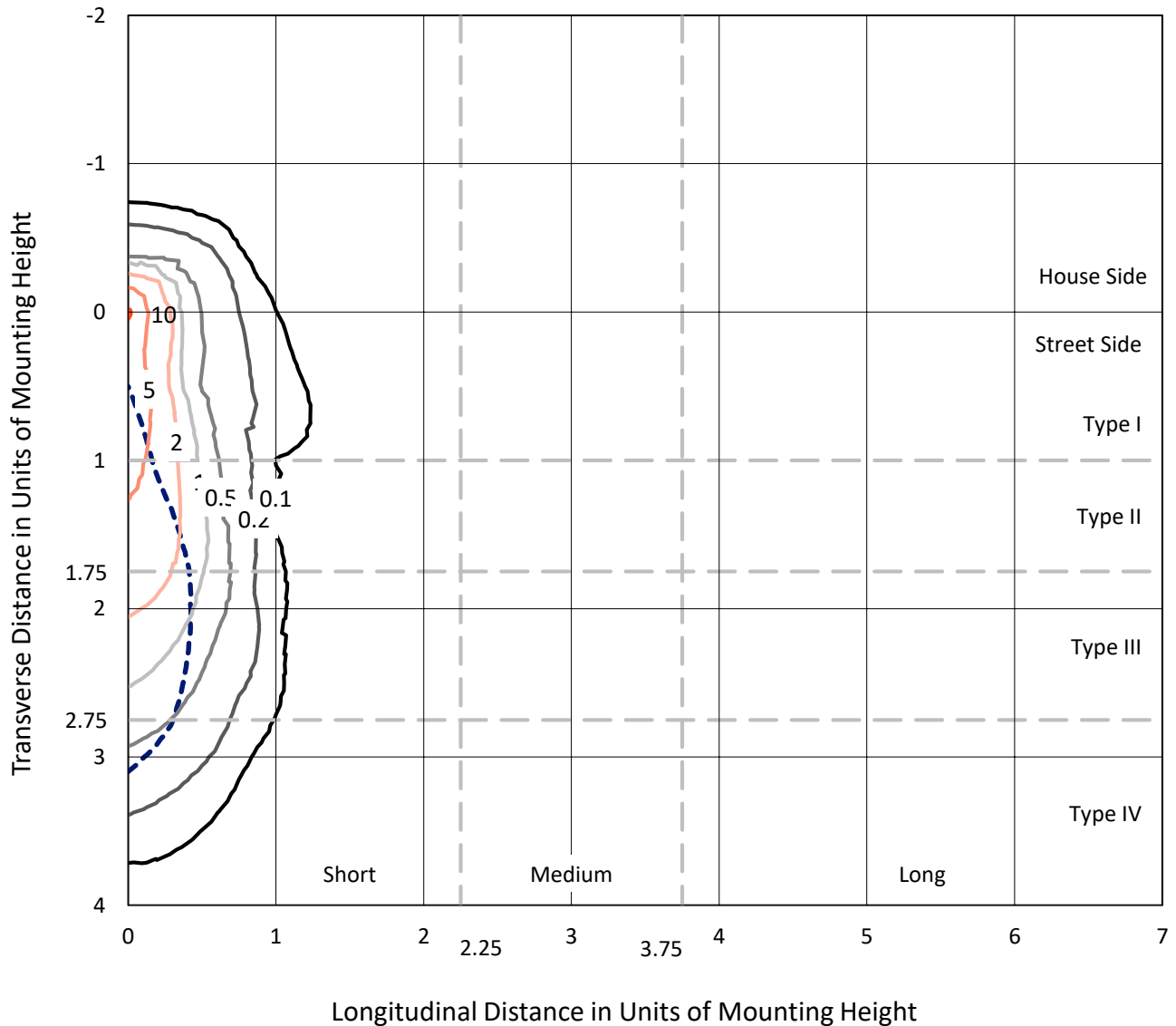


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

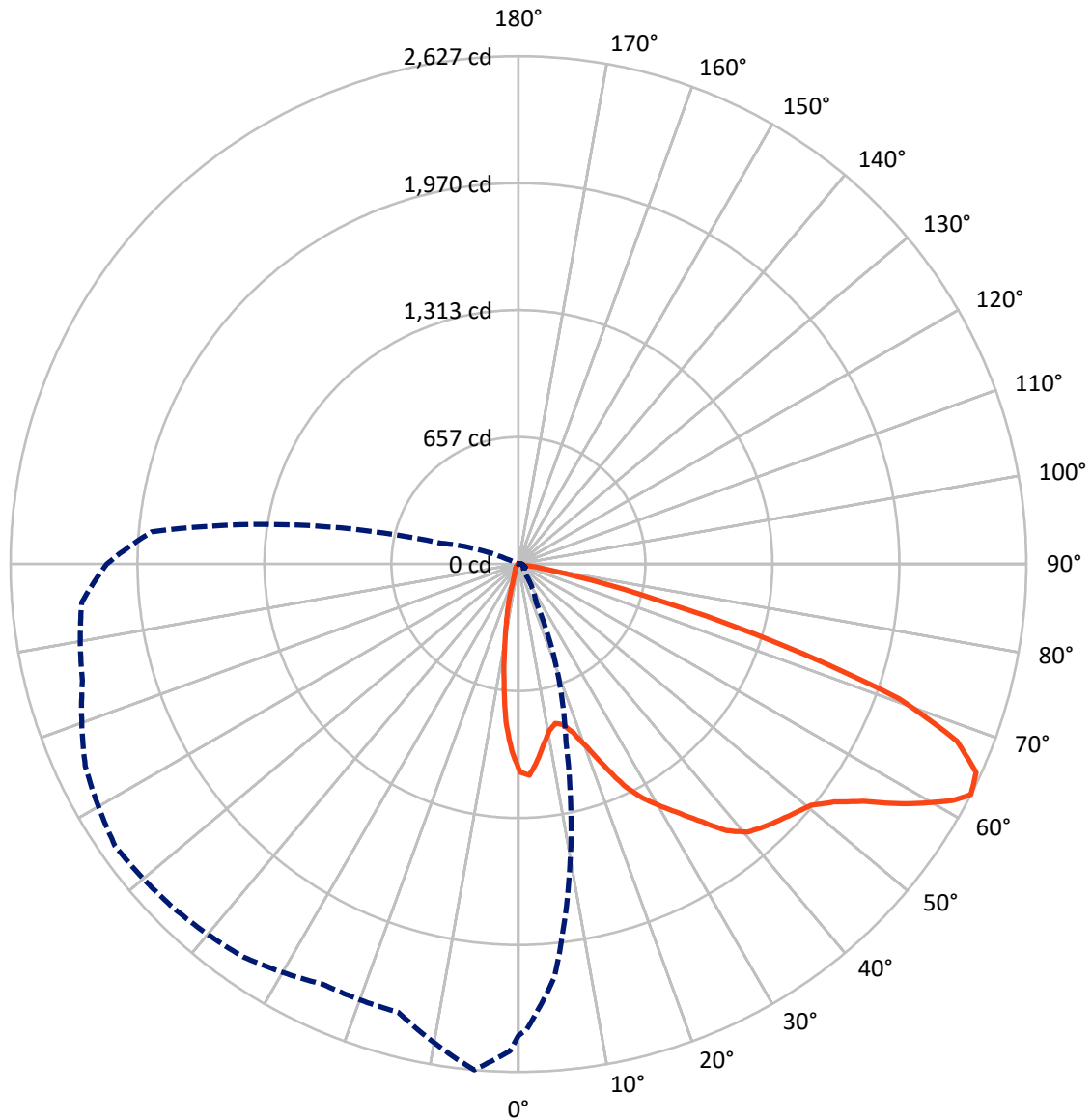


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	399.1	0.0	399.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2437.9	0.0	2437.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	2837.0	0.0	2837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	2.8
10°-20°	153.4	5.4
20°-30°	213.4	7.5
30°-40°	308.7	10.9
40°-50°	442.6	15.6
50°-60°	642.1	22.6
60°-70°	694.7	24.5
70°-80°	280.6	9.9
80°-90°	20.8	0.7
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°	2837.0	100.0
0°-180°	2837.0	100.0

Coefficient of Utilization



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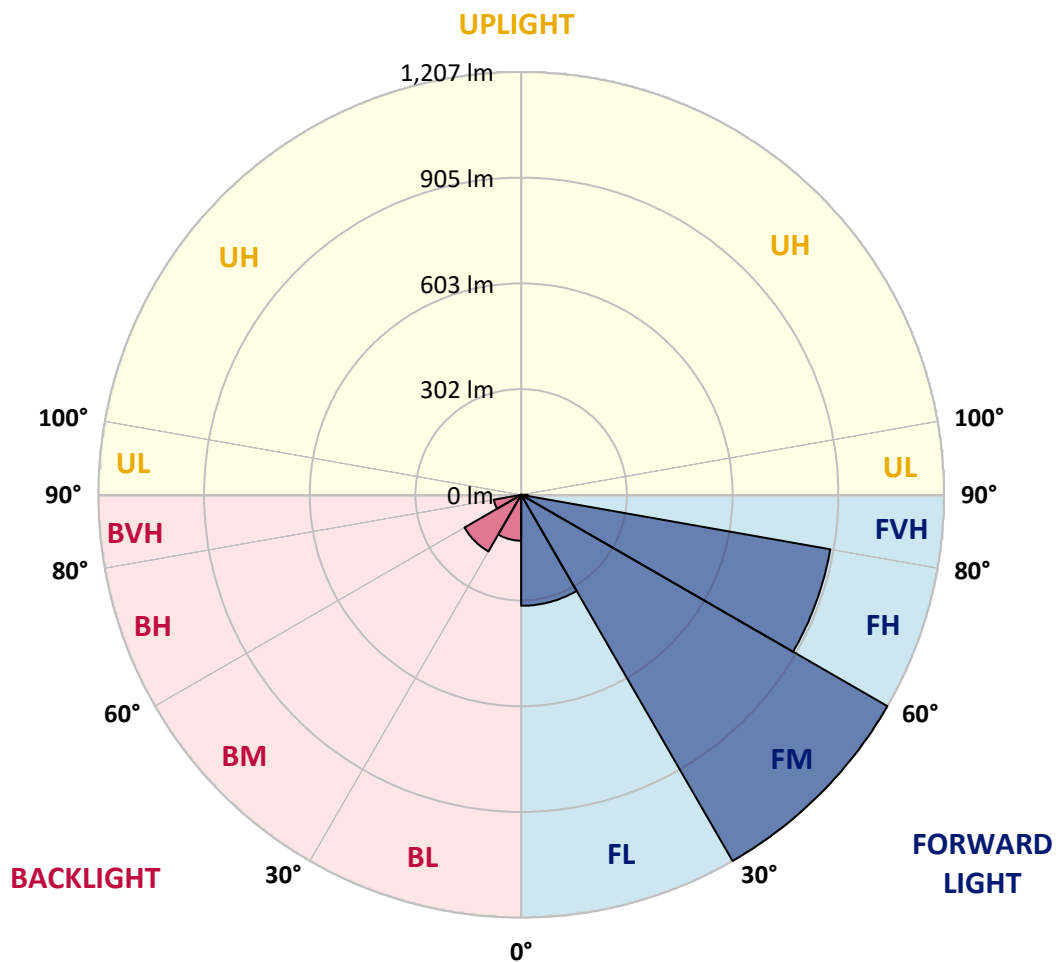
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	316.7	11.2			
FM	(30°-60°)	1206.7	42.5			
FH	(60°-80°)	895.9	31.6			G1/1800
FVH	(80°-90°)	18.7	0.7			G1/100
BL	(0°-30°)	130.8	4.6	B1/500		
BM	(30°-60°)	186.7	6.6	B0/220		
BH	(60°-80°)	79.4	2.8	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: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1
2.5°	1080.6	1076.1	1066.0	1044.1	1012.7	992.5	979.6	962.7	945.3	939.7	928.5
5°	986.3	979.0	965.0	910.0	860.6	811.2	775.8	742.1	730.9	708.4	721.9
7.5°	895.4	892.0	859.4	788.2	709.6	646.1	605.7	556.3	541.7	518.7	500.2
10°	824.1	821.3	782.0	688.8	604.0	551.3	519.3	487.3	455.3	422.7	396.9
12.5°	788.2	782.0	736.5	636.0	557.4	513.6	480.0	437.3	403.1	359.3	327.8
15°	793.8	788.2	735.9	627.6	535.0	474.4	424.4	373.9	325.6	282.4	251.5
17.5°	838.7	836.4	773.0	634.9	508.0	427.8	361.0	293.0	235.8	189.2	162.8
20°	926.2	919.5	827.4	650.6	480.0	373.9	282.4	198.7	151.0	119.0	107.8
22.5°	1034.6	1019.4	913.3	673.6	453.0	316.0	204.3	133.6	107.8	95.4	87.6
25°	1162.0	1162.6	1020.0	704.5	426.1	262.2	143.1	106.1	90.9	82.0	75.2
27.5°	1265.3	1257.5	1116.0	735.4	396.9	215.0	120.1	92.6	79.7	70.2	66.2
30°	1341.7	1329.9	1179.4	756.7	359.3	181.9	107.8	88.1	75.2	64.6	59.5
32.5°	1420.2	1405.7	1236.7	768.5	336.8	166.2	95.4	76.9	67.4	62.9	56.1
35°	1512.3	1499.4	1300.1	767.4	325.0	157.2	86.4	69.6	57.3	50.0	45.5
37.5°	1615.0	1588.7	1365.8	762.3	316.6	152.7	78.6	64.6	53.3	45.5	39.9
40°	1703.2	1676.8	1426.4	755.6	311.0	148.2	74.1	61.2	50.5	42.1	36.5
42.5°	1772.2	1747.0	1483.1	747.2	308.2	138.7	76.3	58.9	48.3	39.9	33.7
45°	1831.7	1805.9	1550.5	746.1	307.1	131.9	75.2	58.4	47.2	37.0	31.4
47.5°	1900.8	1887.3	1639.2	764.6	302.6	126.9	69.0	62.9	46.6	35.9	29.8
50°	2002.9	1991.2	1755.4	819.6	295.8	121.8	62.9	69.0	46.6	34.8	28.1
52.5°	2146.1	2132.6	1938.4	891.4	289.7	116.2	56.7	66.8	47.2	33.1	26.9
55°	2294.3	2292.0	2111.3	967.8	284.0	103.9	50.0	60.1	46.0	30.9	25.3
57.5°	2410.5	2408.8	2241.0	1019.4	273.4	83.6	45.5	50.0	42.7	28.1	23.0
60°	2458.2	2444.2	2255.0	1019.4	248.7	69.0	41.5	39.3	43.2	25.3	20.2
61°	2458.2	2440.2	2229.7	1004.3	236.3	65.7	39.3	36.5	44.3	24.1	19.1
62.5°	2439.1	2409.4	2143.3	949.8	216.7	65.7	35.9	32.6	40.4	23.0	17.4
65°	2354.4	2305.5	1940.6	825.8	196.5	67.4	30.9	27.5	29.2	19.6	15.2
67.5°	2145.0	2090.0	1677.9	653.4	180.2	71.3	25.8	24.1	22.5	17.4	13.5
70°	1767.2	1720.6	1369.2	489.5	167.3	72.4	22.5	20.2	19.1	15.2	11.8
72.5°	1129.5	1052.6	855.0	331.8	134.2	62.9	18.5	19.1	17.4	12.3	9.5
75°	545.6	567.0	497.4	167.3	90.4	41.0	14.6	15.7	14.0	11.2	8.4
77.5°	244.2	239.7	237.5	42.7	23.0	14.0	9.0	10.7	11.2	10.1	7.3
80°	25.3	34.2	20.2	12.9	8.4	6.2	5.1	5.6	6.7	7.3	3.9
82.5°	1.1	0.6	0.6	1.7	1.7	1.1	0.0	0.0	1.1	1.1	0.6
85°	0.0	0.0	0.0	0.0	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	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1
2.5°	918.4	933.5	926.8	925.1	934.1	929.6	943.1	943.7	953.8	967.2	975.6
5°	721.9	710.1	733.7	749.4	769.1	762.9	786.5	783.7	796.6	817.9	809.5
7.5°	501.3	503.0	515.3	529.4	582.1	592.8	600.7	606.8	606.3	611.3	620.3
10°	383.4	373.9	365.4	385.1	405.9	428.9	432.2	440.7	417.7	427.2	431.7
12.5°	313.8	302.6	284.0	273.9	279.0	292.5	298.1	303.1	289.7	290.2	300.3
15°	238.0	222.9	215.6	202.1	197.0	195.9	198.7	191.4	189.7	183.6	187.5
17.5°	154.9	150.4	146.5	143.7	139.8	138.7	128.6	111.1	101.0	98.8	98.8
20°	103.3	99.9	99.9	105.5	103.9	99.4	85.9	71.3	64.0	61.7	62.9
22.5°	84.8	82.5	79.2	79.2	81.4	78.0	65.7	55.0	50.0	50.0	50.0
25°	73.5	72.4	69.0	65.7	66.8	64.0	53.3	46.6	43.2	42.7	43.2
27.5°	64.6	64.0	60.1	56.7	56.7	54.5	46.0	39.9	37.6	36.5	37.0
30°	58.4	57.3	52.8	50.0	49.4	47.2	39.3	34.8	32.6	32.0	32.0
32.5°	53.9	51.6	47.7	44.9	43.2	39.9	34.2	29.8	27.5	26.9	26.9
35°	43.2	43.2	41.5	39.9	37.6	32.6	28.6	24.7	22.5	21.9	21.9
37.5°	37.6	35.4	32.6	33.1	32.0	27.5	23.6	19.6	18.0	17.4	17.4
40°	34.2	31.4	27.5	25.8	26.4	24.1	19.6	15.2	12.9	13.5	12.9
42.5°	30.9	28.6	24.1	20.2	19.6	20.2	15.2	10.7	9.0	9.0	9.0
45°	28.6	26.4	21.3	16.8	14.0	15.7	11.8	7.3	5.6	5.6	5.6
47.5°	26.9	24.7	19.1	14.0	10.1	10.7	8.4	4.5	3.4	2.2	2.8
50°	25.8	23.0	17.4	11.2	7.3	6.2	5.6	2.2	0.6	0.6	0.0
52.5°	24.1	21.9	15.7	9.5	5.6	3.9	2.8	0.6	0.0	0.0	0.0
55°	23.0	20.2	14.0	8.4	4.5	2.2	0.6	0.0	0.0	0.0	0.0
57.5°	20.8	18.5	12.3	6.7	3.4	1.1	0.0	0.0	0.0	0.0	0.0
60°	18.5	16.8	10.7	5.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0
61°	17.4	15.7	10.1	4.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16.3	14.6	9.0	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	14.0	12.3	7.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12.3	11.2	6.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.7	9.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.0	8.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.9	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1
2.5°	983.5	1003.2	1021.7	1045.3	1058.2	1093.5	1118.8	1140.1	1157.0	1160.3	1173.8
5°	831.9	859.4	877.4	926.8	954.3	1013.3	1058.7	1112.6	1160.9	1187.3	1211.4
7.5°	626.5	640.0	670.8	720.2	785.3	836.4	913.3	981.3	1068.3	1116.0	1160.9
10°	442.4	454.7	500.2	551.8	611.3	697.2	790.4	879.7	967.8	1029.0	1081.7
12.5°	311.0	351.4	396.3	462.0	520.4	583.3	682.6	787.0	897.1	955.4	1012.7
15°	204.3	240.3	302.6	385.1	458.1	519.3	611.9	734.3	874.0	939.2	993.6
17.5°	101.0	127.4	182.4	271.1	368.3	464.8	576.5	724.7	903.8	977.3	1028.4
20°	63.4	71.3	91.5	153.3	265.0	407.5	550.1	743.8	984.6	1066.0	1099.1
22.5°	51.1	53.3	61.2	81.4	161.7	336.8	527.1	769.6	1073.3	1172.7	1206.9
25°	43.8	45.5	50.0	60.1	93.7	252.6	499.1	815.1	1176.6	1296.7	1305.2
27.5°	37.6	39.3	43.2	51.1	66.8	170.1	458.6	868.4	1300.1	1405.7	1400.0
30°	32.0	34.2	38.2	43.8	52.8	115.1	383.4	922.3	1391.1	1475.8	1466.8
32.5°	27.5	29.2	32.6	37.6	43.8	79.2	288.0	957.7	1466.8	1542.1	1522.4
35°	22.5	24.1	26.9	31.4	35.4	56.1	217.8	958.8	1544.9	1624.0	1574.6
37.5°	18.0	19.1	21.9	25.8	29.2	43.8	160.0	940.3	1641.4	1730.7	1634.1
40°	13.5	15.2	18.0	21.3	24.7	37.0	119.6	895.4	1735.7	1837.3	1706.0
42.5°	9.0	11.2	14.0	17.4	23.6	29.8	84.2	820.7	1812.1	1932.2	1776.2
45°	5.6	7.3	10.7	14.6	24.1	23.6	56.1	731.5	1866.5	2004.6	1823.9
47.5°	2.8	4.5	7.9	14.0	21.3	17.4	34.8	646.1	1915.9	2046.7	1845.8
50°	0.6	1.7	5.6	17.4	18.0	12.9	23.0	592.8	1941.8	2036.1	1843.5
52.5°	0.0	0.0	3.9	16.8	12.9	10.1	18.0	584.9	1982.2	2050.1	1882.3
55°	0.0	0.0	1.7	7.3	7.3	8.4	15.7	574.3	2054.0	2133.7	1999.0
57.5°	0.0	0.0	0.0	3.4	4.5	6.7	14.6	546.2	2129.8	2222.4	2141.0
60°	0.0	0.0	0.0	1.7	2.8	5.6	12.9	482.2	2060.2	2223.0	2258.9
61°	0.0	0.0	0.0	1.7	2.2	5.1	11.8	459.8	1997.9	2187.1	2273.5
62.5°	0.0	0.0	0.0	0.6	1.7	3.9	10.1	415.4	1904.7	2129.3	2266.8
65°	0.0	0.0	0.0	0.0	0.6	2.2	7.9	335.7	1749.2	1983.9	2189.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.6	5.1	236.3	1525.8	1819.4	2023.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	137.0	1229.4	1540.4	1733.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	62.3	797.7	1189.5	1367.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	491.2	859.4	1021.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	332.9	572.0	687.7
80°	0.0	1.1	0.6	0.0	0.0	0.0	0.0	4.5	204.9	357.0	387.9
82.5°	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	106.1	252.1	257.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.3	53.3
87.5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1
2.5°	1186.2	1189.5	1191.8	1187.8	1163.7	1150.2	1123.3	1093.5	1083.4	1080.6
5°	1255.2	1274.3	1270.9	1245.1	1203.0	1151.4	1087.4	1021.1	995.9	986.3
7.5°	1241.7	1291.7	1301.2	1274.3	1203.0	1112.6	1020.0	941.4	904.9	895.4
10°	1173.2	1236.1	1266.4	1258.0	1191.2	1086.8	972.8	876.3	836.4	824.1
12.5°	1107.0	1167.6	1186.7	1193.5	1157.0	1066.6	949.3	845.4	803.9	788.2
15°	1062.7	1100.3	1099.1	1111.5	1108.7	1058.7	964.4	861.1	814.5	793.8
17.5°	1048.1	1036.8	1022.2	1032.3	1052.0	1061.0	1013.8	917.3	862.8	838.7
20°	1057.0	1002.0	970.0	969.5	1011.0	1079.5	1086.2	1009.9	958.8	926.2
22.5°	1103.1	984.6	935.2	936.4	987.4	1107.0	1169.9	1131.1	1075.0	1034.6
25°	1171.0	988.0	921.8	928.5	985.2	1131.1	1260.3	1269.2	1197.4	1162.0
27.5°	1240.1	1017.2	922.3	929.6	994.7	1144.1	1311.9	1370.8	1309.1	1265.3
30°	1288.3	1053.1	932.4	940.3	1009.9	1154.2	1331.6	1454.5	1390.5	1341.7
32.5°	1333.8	1090.2	948.7	956.6	1040.2	1174.9	1368.6	1538.7	1468.5	1420.2
35°	1378.1	1126.7	979.0	993.1	1089.0	1212.5	1406.2	1637.5	1579.1	1512.3
37.5°	1416.3	1167.1	1031.2	1061.0	1155.3	1270.4	1457.3	1749.8	1689.7	1615.0
40°	1448.3	1214.8	1139.0	1172.1	1256.3	1331.6	1514.0	1823.3	1783.5	1703.2
42.5°	1474.1	1299.0	1293.4	1340.0	1398.9	1401.7	1530.3	1858.7	1843.5	1772.2
45°	1517.4	1450.0	1496.0	1572.4	1568.4	1485.9	1525.8	1891.2	1892.4	1831.7
47.5°	1588.1	1639.2	1772.2	1823.9	1797.5	1601.0	1530.3	1923.2	1948.5	1900.8
50°	1689.1	1853.6	2027.6	2096.1	2019.2	1716.6	1570.1	1961.4	2037.7	2002.9
52.5°	1775.6	2015.9	2263.4	2324.6	2219.6	1840.1	1663.3	2043.9	2157.3	2146.1
55°	1899.1	2155.6	2431.3	2478.4	2394.2	1979.9	1788.5	2165.2	2288.7	2294.3
57.5°	2025.4	2281.9	2540.7	2588.4	2524.5	2154.0	1966.5	2339.2	2412.2	2410.5
60°	2165.7	2399.8	2590.1	2616.5	2580.0	2328.0	2157.9	2498.6	2496.9	2458.2
61°	2246.0	2437.4	2586.8	2594.6	2559.3	2379.1	2256.7	2559.8	2509.3	2458.2
62.5°	2334.7	2471.7	2545.2	2518.8	2480.7	2397.0	2399.8	2626.6	2517.7	2439.1
65°	2424.5	2385.8	2353.8	2227.5	2191.6	2232.0	2520.5	2601.4	2466.6	2354.4
67.5°	2270.7	2044.5	1975.4	1848.6	1706.5	1871.6	2406.0	2447.0	2294.3	2145.0
70°	1855.9	1502.2	1420.2	1415.8	1313.6	1494.9	2122.0	2092.2	1904.1	1767.2
72.5°	1454.5	1025.0	913.3	939.2	919.0	1114.3	1735.7	1404.0	1221.0	1129.5
75°	1140.1	728.6	628.7	624.2	602.3	759.0	1270.9	739.9	610.8	545.6
77.5°	752.2	524.9	523.2	483.3	466.5	411.5	570.3	296.4	241.9	244.2
80°	433.4	321.7	377.2	299.2	299.8	241.4	230.7	43.2	34.8	25.3
82.5°	248.7	154.4	116.8	46.0	96.6	96.6	18.5	0.6	0.6	1.1
85°	24.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
87.5°	0.0	0.0	0.0	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	0.0	0.0	0.0

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