

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: P401278

Luminaire Tested: **ENV-SA1C-730-U-SLR**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-730-U-SLR
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3633 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-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

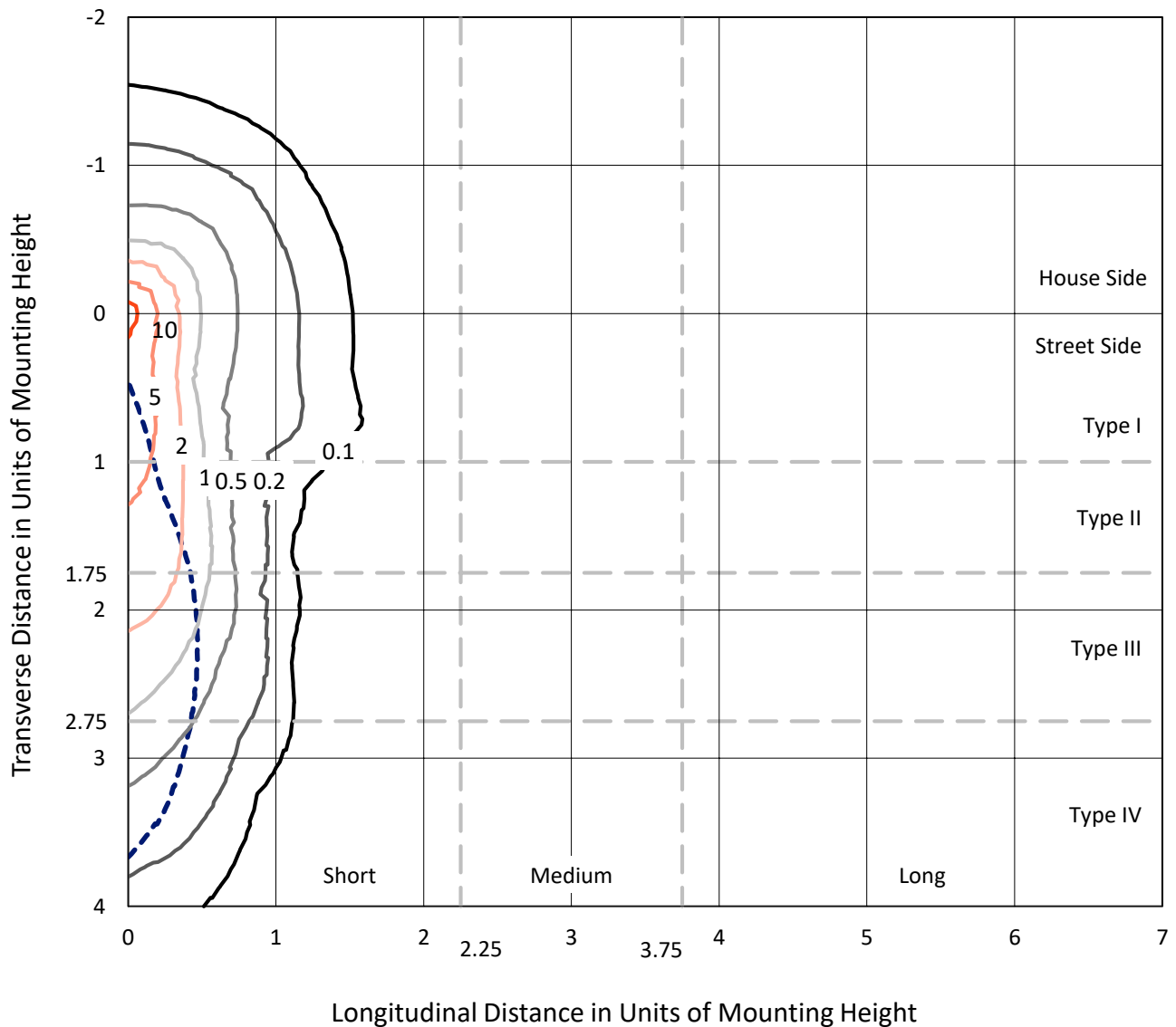


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

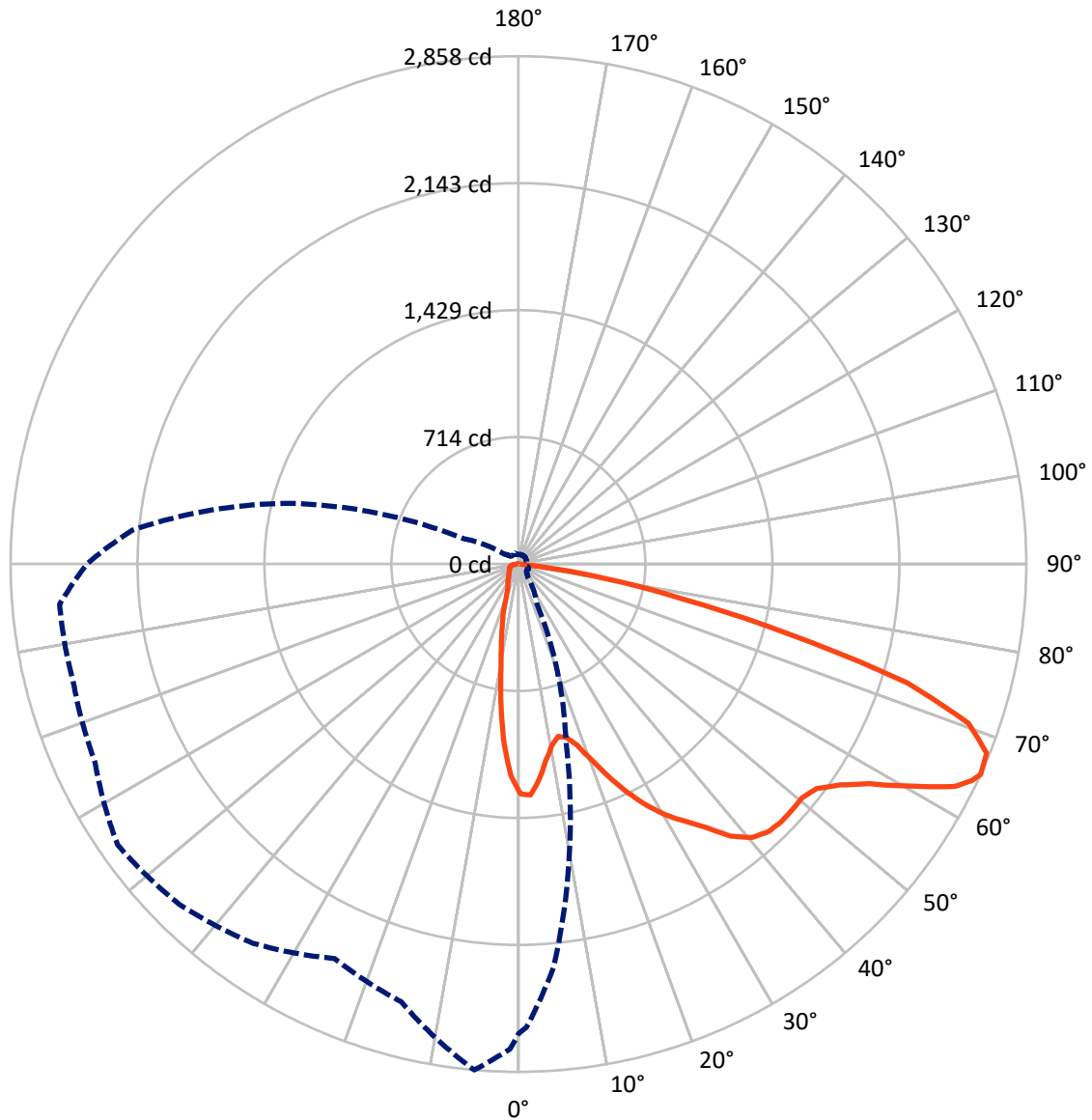


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	745.4	0.0	745.4
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	2887.6	0.0	2887.6
	% Fixture	79.5	0.0	79.5
Total	Lumens	3633.0	0.0	3633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	2.7
10°-20°	196.4	5.4
20°-30°	272.4	7.5
30°-40°	380.7	10.5
40°-50°	518.1	14.3
50°-60°	708.5	19.5
60°-70°	866.3	23.8
70°-80°	523.0	14.4
80°-90°	69.0	1.9
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°	3633.0	100.0
0°-180°	3633.0	100.0



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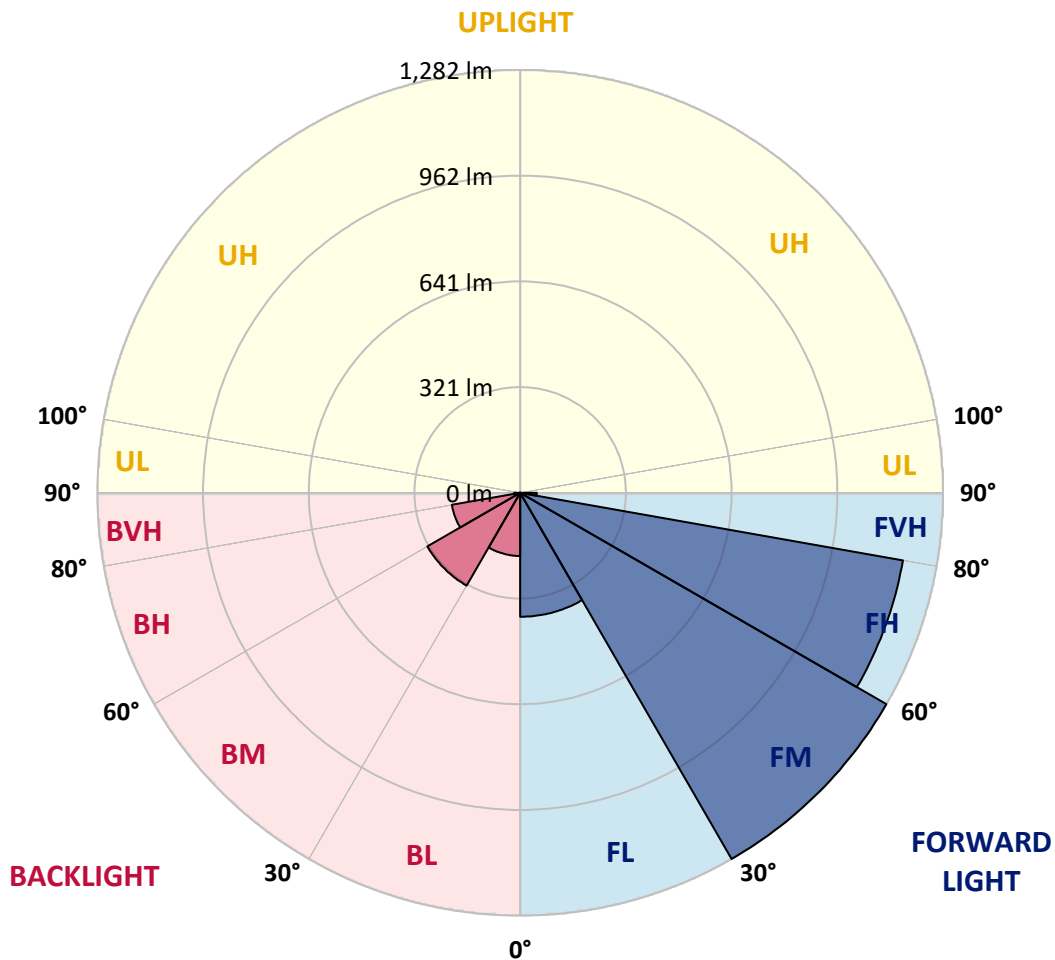
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.9	10.3			
FM	(30°-60°)	1282.4	35.3			
FH	(60°-80°)	1178.9	32.4			G1/1800
FVH	(80°-90°)	50.4	1.4			G1/100
BL	(0°-30°)	191.5	5.3	B1/500		
BM	(30°-60°)	324.9	8.9	B1/1000		
BH	(60°-80°)	210.4	5.8	B1/500		G1/500
BVH	(80°-90°)	18.6	0.5			G1/100
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°	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8
2.5°	1289.8	1286.1	1277.0	1252.7	1226.6	1195.6	1190.1	1156.7	1160.4	1150.6	1153.1
5°	1178.0	1173.1	1148.2	1099.6	1033.4	995.1	965.4	947.7	933.2	925.9	935.0
7.5°	1069.2	1062.6	1032.8	947.1	873.6	812.9	764.3	734.5	705.3	682.2	671.3
10°	981.1	978.7	939.2	842.6	750.3	676.2	644.6	613.0	588.1	555.3	528.5
12.5°	936.8	929.5	882.7	770.3	680.4	634.9	605.1	565.0	531.0	490.9	456.2
15°	938.6	930.1	871.8	753.9	656.1	600.8	555.3	507.3	457.5	416.8	381.5
17.5°	990.9	984.8	913.7	769.1	635.5	558.9	487.8	425.9	371.2	320.2	288.6
20°	1079.0	1069.8	971.4	787.4	609.3	510.9	414.3	329.3	270.3	225.4	200.5
22.5°	1193.8	1176.8	1053.4	809.8	583.2	456.2	334.7	240.0	187.7	165.2	158.6
25°	1316.5	1303.1	1152.5	838.4	555.3	396.7	247.9	174.4	156.1	147.0	142.2
27.5°	1429.5	1407.6	1258.8	870.0	518.2	337.2	188.3	150.1	137.9	133.7	130.6
30°	1510.3	1491.5	1332.3	906.4	486.0	275.2	161.0	136.1	126.4	119.7	118.5
32.5°	1587.5	1560.7	1385.8	923.4	459.3	241.8	148.8	126.4	117.3	110.6	108.1
35°	1678.6	1651.9	1447.1	925.9	439.2	227.8	137.3	119.1	109.4	103.3	100.2
37.5°	1786.1	1749.7	1516.4	927.7	419.2	222.4	127.6	113.0	103.3	96.6	94.2
40°	1888.2	1860.2	1587.5	924.7	405.8	214.5	121.5	106.3	97.2	91.1	88.1
42.5°	1965.3	1935.6	1648.2	915.5	397.9	201.1	123.9	101.5	93.0	86.3	82.6
45°	2004.8	1978.1	1703.5	907.0	393.7	189.5	121.5	99.6	89.9	82.0	78.4
47.5°	2034.6	2008.5	1760.0	903.4	386.4	181.0	111.8	106.3	86.9	77.8	74.1
50°	2082.6	2060.1	1836.5	924.0	374.8	175.6	102.7	113.6	85.7	74.1	69.9
52.5°	2168.9	2154.3	1962.9	972.0	362.7	166.5	93.6	108.7	86.9	71.7	66.8
55°	2329.9	2320.7	2136.7	1035.2	351.1	154.9	83.8	98.4	86.3	67.4	63.8
57.5°	2503.6	2501.2	2347.5	1090.5	334.1	135.5	77.8	83.2	82.0	63.8	59.5
60°	2620.2	2612.3	2444.7	1121.5	312.3	111.8	72.9	70.5	83.8	60.1	55.3
62.5°	2660.3	2634.2	2415.5	1109.9	279.5	96.6	67.4	64.4	77.8	56.5	51.0
64°	2657.9	2619.6	2339.6	1066.2	258.2	93.6	64.4	60.1	68.7	54.1	49.2
65°	2643.9	2607.5	2276.4	1032.2	246.7	93.6	62.6	58.3	62.6	52.9	48.0
67.5°	2554.6	2506.6	2060.7	874.2	216.9	94.8	58.3	53.5	52.2	48.6	45.0
70°	2351.1	2288.5	1764.9	687.7	201.1	95.4	53.5	48.6	46.8	44.3	41.3
72.5°	1888.2	1804.3	1404.6	491.5	184.7	93.6	48.6	44.3	42.5	40.1	37.1
75°	1266.1	1174.3	1035.2	323.8	151.3	83.8	41.9	38.3	37.7	35.2	32.8
77.5°	713.8	675.6	611.2	178.0	104.5	57.7	33.4	31.0	31.6	30.4	27.9
80°	373.0	355.4	326.8	86.3	50.4	27.9	21.3	21.3	24.3	24.3	23.1
82.5°	131.8	132.4	128.2	19.4	10.3	8.5	7.3	10.3	14.0	17.0	17.0
85°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4	4.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8
2.5°	1132.4	1136.1	1145.8	1144.0	1153.7	1149.4	1162.2	1168.9	1172.5	1191.4	1200.5
5°	927.7	928.9	963.5	970.8	989.0	979.3	1001.8	993.3	1011.5	1014.0	1044.3
7.5°	681.6	684.1	701.1	741.2	780.7	797.1	803.8	814.1	805.6	802.5	806.8
10°	518.2	520.0	521.9	550.4	585.0	619.7	619.7	620.3	605.1	589.9	586.9
12.5°	442.9	431.3	413.1	413.7	438.0	454.4	467.2	453.8	451.4	458.7	466.6
15°	364.5	353.0	340.8	326.2	326.8	338.4	345.1	344.5	356.6	362.1	378.5
17.5°	283.1	266.7	267.3	258.8	247.3	254.6	256.4	267.3	283.1	290.4	293.4
20°	190.2	190.2	195.0	205.3	199.9	204.7	205.3	213.8	221.1	216.9	221.1
22.5°	157.3	156.7	158.6	165.2	170.7	175.0	176.2	175.6	168.3	165.2	171.3
25°	142.8	142.2	142.8	146.4	152.5	158.0	155.5	151.9	143.4	142.8	144.0
27.5°	130.6	131.2	132.4	134.9	138.5	145.2	142.8	135.5	131.2	130.0	130.0
30°	120.3	120.3	122.7	125.1	129.4	135.5	131.2	125.1	120.9	119.7	119.1
32.5°	110.0	111.8	113.6	116.0	119.7	125.8	122.1	116.6	112.4	110.0	108.1
35°	99.6	100.8	104.5	108.1	111.2	116.0	113.6	108.7	104.5	99.0	96.6
37.5°	93.6	93.6	95.4	100.8	103.3	106.9	105.7	101.5	94.8	90.5	89.9
40°	88.1	88.1	88.7	91.7	96.0	100.2	97.8	91.1	86.9	85.1	84.4
42.5°	82.6	82.6	83.2	83.2	88.7	96.0	89.9	83.2	81.4	80.2	79.6
45°	77.8	77.8	77.8	77.2	80.2	89.3	82.6	77.2	75.9	75.9	75.3
47.5°	74.1	73.5	72.9	71.7	73.5	80.8	75.3	72.3	71.7	72.3	71.7
50°	69.3	68.7	68.0	67.4	68.7	71.7	70.5	67.4	68.0	68.0	68.7
52.5°	65.0	64.4	63.8	63.2	64.4	66.8	66.8	64.4	64.4	65.0	65.6
55°	62.6	61.4	60.8	60.8	61.4	64.4	63.8	62.0	62.0	63.2	63.8
57.5°	58.9	57.7	57.7	57.1	58.3	62.0	61.4	59.5	59.5	60.1	61.4
60°	55.3	54.7	54.1	55.3	55.9	59.5	58.9	57.7	57.1	58.9	58.9
62.5°	51.0	51.0	51.0	52.2	52.9	57.1	56.5	55.9	55.9	56.5	55.9
64°	48.6	48.6	49.2	49.8	51.0	54.7	54.7	54.7	54.7	54.7	54.1
65°	47.4	47.4	48.6	49.2	49.8	54.1	53.5	54.1	54.7	54.1	52.9
67.5°	44.3	44.3	46.2	46.2	46.8	51.6	51.0	52.2	53.5	52.2	51.0
70°	40.7	41.3	43.1	42.5	43.7	49.2	47.4	49.8	52.2	50.4	49.2
72.5°	37.1	37.7	40.1	38.9	39.5	46.2	43.7	46.2	49.8	48.6	47.4
75°	33.4	34.0	35.8	35.2	36.5	42.5	40.1	42.5	46.2	46.2	45.6
77.5°	28.6	29.8	31.0	30.4	32.8	38.3	35.8	37.7	40.7	43.1	41.9
80°	23.1	24.9	25.5	26.1	28.6	32.8	31.0	31.6	34.6	36.5	37.1
82.5°	15.8	18.8	20.0	20.7	24.3	25.5	26.1	25.5	27.3	29.8	27.9
85°	4.9	6.1	11.5	14.6	18.2	18.2	21.3	20.0	21.3	18.8	15.8
87.5°	0.0	0.0	0.0	4.3	10.9	10.9	15.2	14.0	14.6	10.9	9.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8
2.5°	1202.3	1212.6	1235.7	1262.4	1277.0	1308.6	1328.0	1348.7	1369.4	1373.6	1380.3
5°	1050.4	1062.6	1088.7	1124.5	1160.4	1202.3	1250.9	1302.5	1359.6	1383.9	1407.6
7.5°	818.3	820.8	857.8	922.8	954.4	1014.0	1083.2	1162.8	1250.9	1296.5	1345.1
10°	604.5	629.4	657.3	711.4	791.0	859.6	945.3	1038.3	1130.0	1196.2	1246.6
12.5°	475.1	506.7	552.8	612.4	672.5	737.5	836.6	936.2	1049.2	1108.7	1170.7
15°	391.2	431.3	491.5	554.1	610.0	667.7	755.8	877.9	1022.5	1083.2	1138.5
17.5°	309.8	354.2	418.6	484.2	551.0	621.5	723.6	874.8	1051.0	1121.5	1178.6
20°	237.5	272.2	326.2	392.5	470.8	567.4	698.0	897.9	1135.5	1223.6	1261.2
22.5°	176.2	196.2	238.8	308.0	400.4	519.4	672.5	930.7	1240.0	1343.2	1371.8
25°	145.8	151.3	170.7	230.9	326.2	465.4	653.1	973.3	1344.4	1460.5	1481.1
27.5°	131.2	134.3	143.4	165.9	255.2	421.0	627.6	1022.5	1454.4	1576.5	1574.7
30°	118.5	119.1	124.5	140.3	207.2	381.5	597.8	1077.1	1552.2	1659.8	1654.3
32.5°	106.9	106.9	114.2	126.4	176.8	345.7	562.0	1116.6	1637.3	1727.8	1710.2
35°	96.6	98.4	105.1	117.3	156.7	305.6	528.5	1131.2	1710.2	1809.8	1760.0
37.5°	89.3	91.7	98.4	110.0	139.7	275.8	501.2	1148.2	1800.1	1908.8	1815.9
40°	84.4	86.3	92.3	102.1	126.4	250.9	471.4	1159.8	1889.4	2014.5	1874.8
42.5°	79.6	81.4	87.5	96.6	120.3	221.7	442.9	1166.4	1982.3	2106.3	1924.0
45°	75.3	77.8	83.8	92.3	120.9	195.6	419.2	1164.0	2038.2	2172.5	1962.3
47.5°	72.3	74.7	81.4	92.3	117.3	180.4	399.1	1155.5	2079.6	2215.6	1979.9
50°	69.3	71.7	79.6	102.1	111.2	176.2	384.0	1154.3	2122.7	2224.1	1979.9
52.5°	66.2	70.5	80.2	102.7	102.1	174.4	371.8	1186.5	2182.2	2238.7	1997.5
55°	64.4	68.0	82.6	94.8	89.3	168.3	364.5	1230.8	2282.5	2318.9	2086.2
57.5°	62.0	65.0	81.4	88.7	79.6	154.3	358.4	1273.4	2414.3	2467.8	2263.0
60°	58.9	62.6	79.0	75.9	72.3	131.2	354.8	1308.6	2463.5	2563.7	2453.2
62.5°	55.9	60.1	86.3	66.2	66.8	109.4	348.1	1342.6	2359.6	2540.7	2575.3
64°	54.1	58.3	80.2	62.0	63.8	99.6	341.4	1344.4	2267.9	2486.0	2598.4
65°	52.9	56.5	74.7	59.5	61.4	97.2	335.4	1318.9	2181.6	2427.7	2591.7
67.5°	51.0	53.5	57.7	55.3	57.1	93.0	294.0	1206.5	1998.1	2277.6	2487.8
70°	48.6	50.4	51.0	50.4	53.5	89.9	248.5	1046.8	1797.7	2120.3	2326.2
72.5°	46.2	46.2	46.2	45.6	49.2	85.7	223.6	845.7	1553.4	1913.7	2125.1
75°	44.3	42.5	41.9	40.7	45.0	83.2	201.7	634.9	1200.5	1594.1	1780.7
77.5°	40.7	38.9	37.1	35.8	40.1	74.1	168.3	448.4	885.2	1159.8	1374.2
80°	35.2	34.0	31.6	29.8	33.4	58.3	127.6	277.0	647.6	783.1	901.6
82.5°	28.6	27.9	25.5	23.1	24.3	41.9	86.9	140.9	431.9	425.3	503.6
85°	17.6	21.9	18.8	15.2	16.4	24.3	35.2	45.0	132.4	79.6	123.3
87.5°	10.3	14.0	11.5	7.9	6.1	10.9	9.7	9.1	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°	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8	1292.8
2.5°	1396.1	1404.0	1408.2	1392.4	1375.4	1360.2	1331.1	1301.9	1286.7	1289.8
5°	1453.2	1466.6	1470.2	1447.1	1399.1	1349.9	1278.8	1217.5	1180.4	1178.0
7.5°	1431.3	1475.1	1482.4	1457.4	1388.8	1297.1	1200.5	1114.8	1077.7	1069.2
10°	1353.6	1420.4	1442.3	1433.8	1366.9	1261.8	1144.6	1035.8	998.8	981.1
12.5°	1274.0	1343.8	1357.2	1365.7	1325.0	1236.3	1107.5	995.7	951.4	936.8
15°	1221.7	1269.7	1273.4	1281.3	1272.8	1224.2	1124.5	1012.1	958.7	938.6
17.5°	1214.4	1197.4	1185.9	1202.3	1212.6	1224.8	1168.9	1073.5	1016.4	990.9
20°	1215.7	1162.8	1130.0	1128.8	1173.1	1240.6	1258.8	1176.8	1102.7	1079.0
22.5°	1260.0	1144.6	1089.9	1083.2	1137.3	1267.3	1350.5	1299.5	1225.4	1193.8
25°	1326.2	1133.6	1061.3	1063.2	1117.2	1284.9	1428.9	1422.2	1357.2	1316.5
27.5°	1390.0	1151.9	1057.7	1062.6	1123.9	1296.5	1493.9	1537.6	1464.7	1429.5
30°	1441.0	1192.6	1068.6	1072.9	1144.6	1312.3	1526.1	1640.3	1552.2	1510.3
32.5°	1485.4	1230.8	1085.0	1088.1	1177.4	1334.7	1556.5	1726.6	1637.3	1587.5
35°	1525.5	1263.6	1109.9	1120.3	1219.3	1366.9	1587.5	1820.1	1741.2	1678.6
37.5°	1560.7	1303.7	1159.2	1176.2	1280.7	1413.7	1627.6	1943.5	1857.2	1786.1
40°	1580.8	1339.6	1232.1	1257.6	1360.2	1474.5	1678.6	2023.7	1968.4	1888.2
42.5°	1596.0	1388.8	1349.3	1395.5	1483.6	1531.6	1702.9	2059.5	2034.0	1965.3
45°	1603.9	1486.0	1525.5	1568.6	1622.7	1594.1	1689.5	2071.7	2063.8	2004.8
47.5°	1639.7	1632.4	1729.6	1789.2	1786.1	1688.3	1664.0	2070.4	2083.2	2034.6
50°	1712.6	1803.1	1939.2	1997.5	1975.1	1776.4	1659.1	2068.6	2122.1	2082.6
52.5°	1799.5	1973.8	2165.8	2190.1	2142.7	1865.7	1695.6	2100.2	2195.0	2168.9
55°	1913.7	2134.2	2343.8	2351.7	2284.9	1952.6	1773.4	2193.2	2331.1	2329.9
57.5°	2072.9	2278.2	2493.3	2483.6	2389.4	2072.9	1898.5	2332.3	2482.3	2503.6
60°	2246.0	2430.1	2614.2	2608.7	2508.5	2211.4	2070.4	2538.2	2614.8	2620.2
62.5°	2411.9	2571.0	2730.8	2704.7	2591.7	2354.8	2308.6	2756.9	2701.0	2660.3
64°	2520.0	2618.4	2760.6	2719.3	2611.7	2423.4	2445.9	2828.0	2725.3	2657.9
65°	2591.7	2630.0	2753.9	2704.1	2605.1	2448.9	2549.8	2857.8	2729.6	2643.9
67.5°	2720.5	2563.7	2572.9	2533.4	2444.7	2425.2	2719.9	2841.4	2682.8	2554.6
70°	2684.6	2297.0	2171.9	2147.0	2040.7	2150.0	2698.6	2687.1	2507.2	2351.1
72.5°	2378.5	1844.4	1664.6	1642.1	1494.5	1629.4	2328.6	2288.5	2017.6	1888.2
75°	1959.9	1397.9	1188.9	1207.8	1095.4	1219.9	1852.3	1568.0	1343.2	1266.1
77.5°	1521.2	987.8	821.4	798.9	776.4	789.8	1273.4	941.7	784.9	713.8
80°	969.6	620.9	616.0	563.2	544.9	459.3	654.3	501.2	394.3	373.0
82.5°	515.2	357.8	406.4	325.6	261.8	188.3	221.7	148.8	125.8	131.8
85°	140.9	74.1	20.7	0.0	0.0	0.0	0.0	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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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