

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: McGRAW-EDISON

Report Number: P92769

Luminaire Tested: **LRC-B16-7-LED-E1-MST**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P92769
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (LM-63-2002)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: LRC-B16-7-LED-E1-MST
Description: LRC CANOPY LUMINAIRE
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3098.7 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.9' x L: 0.9' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G0

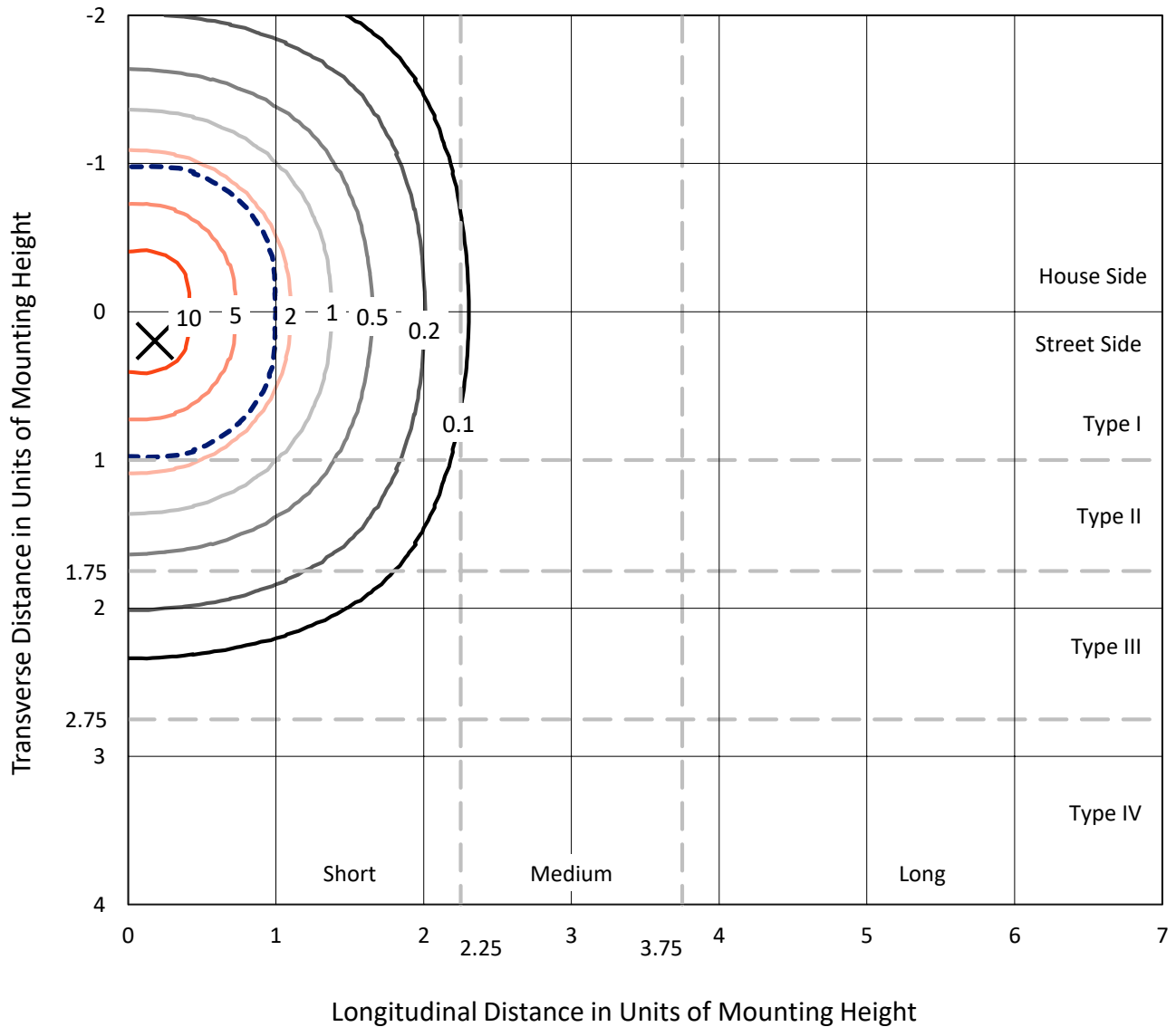
Input Watts (W): 36.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

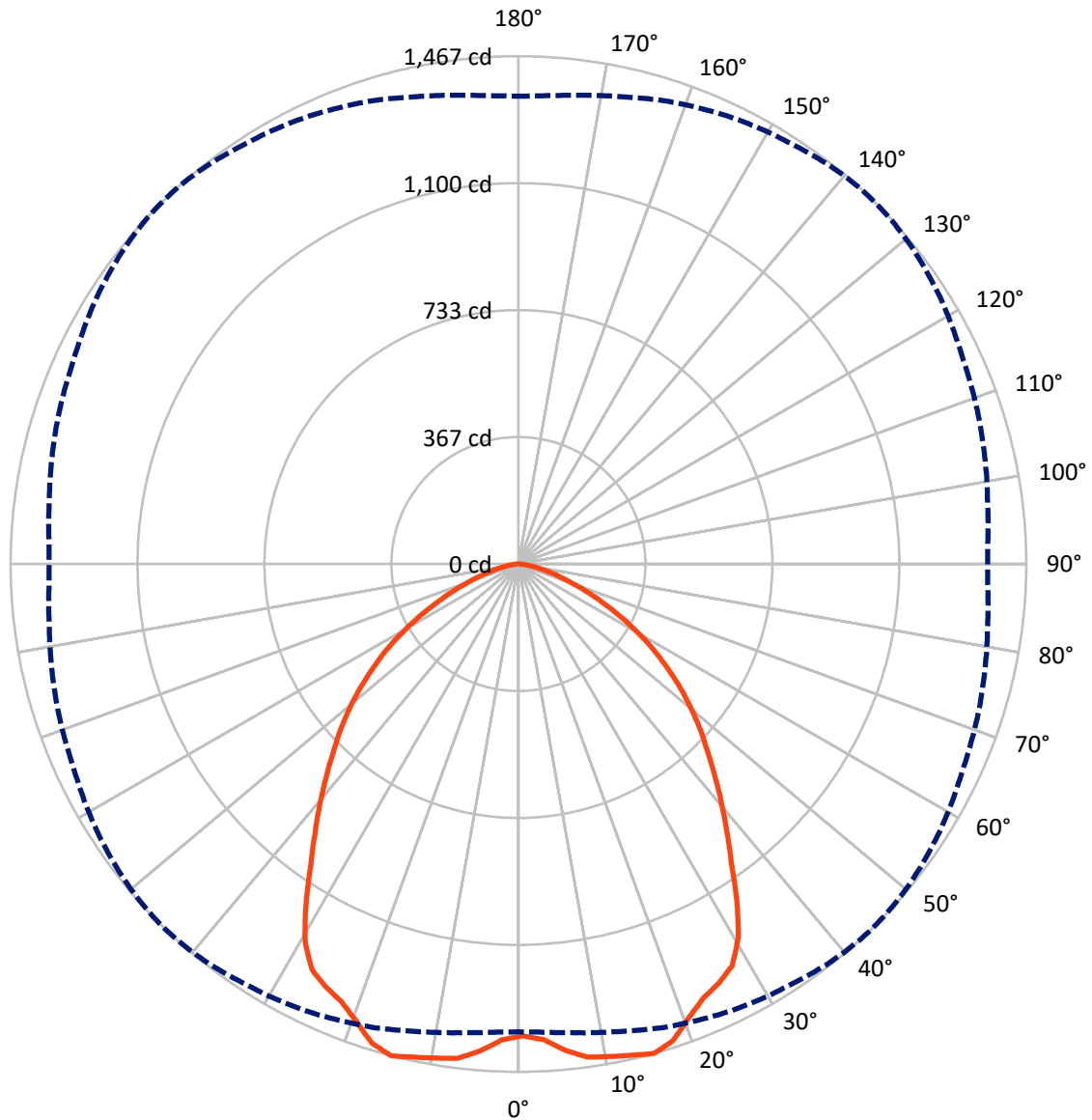
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 15-Deg Vertical

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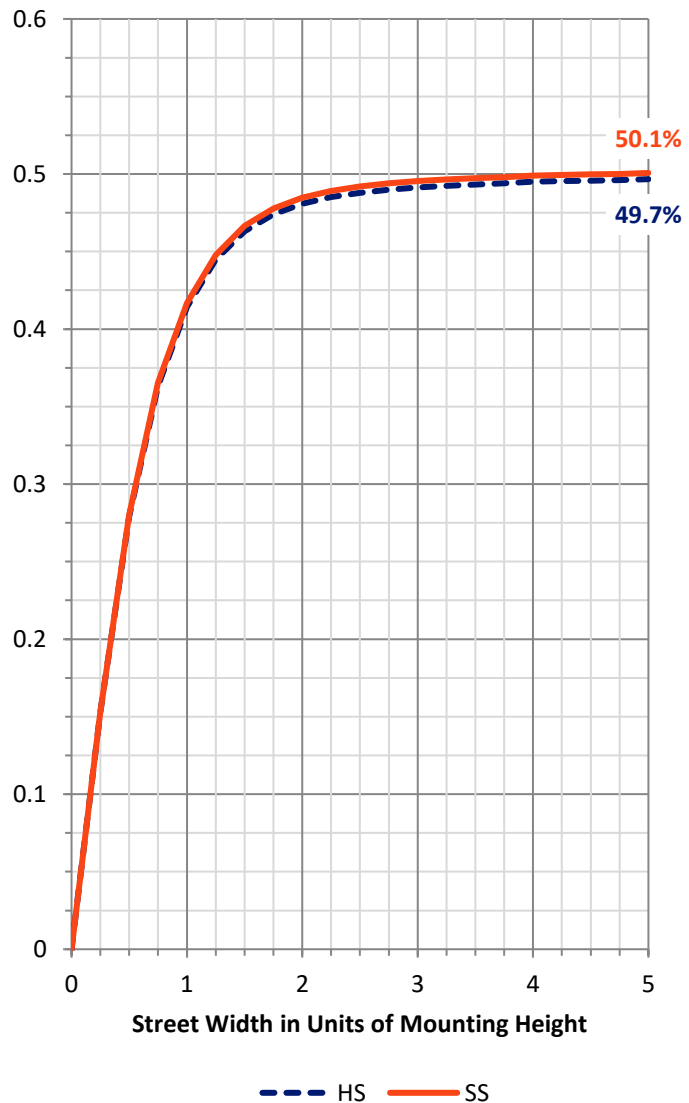
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1549.4	0.0	1549.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1549.4	0.0	1549.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3098.7	0.0	3098.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	4.3
10°-20°	397.7	12.8
20°-30°	588.2	19.0
30°-40°	639.5	20.6
40°-50°	575.7	18.6
50°-60°	433.9	14.0
60°-70°	228.7	7.4
70°-80°	84.2	2.7
80°-90°	16.3	0.5
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°	3098.7	100.0
0°-180°	3098.7	100.0



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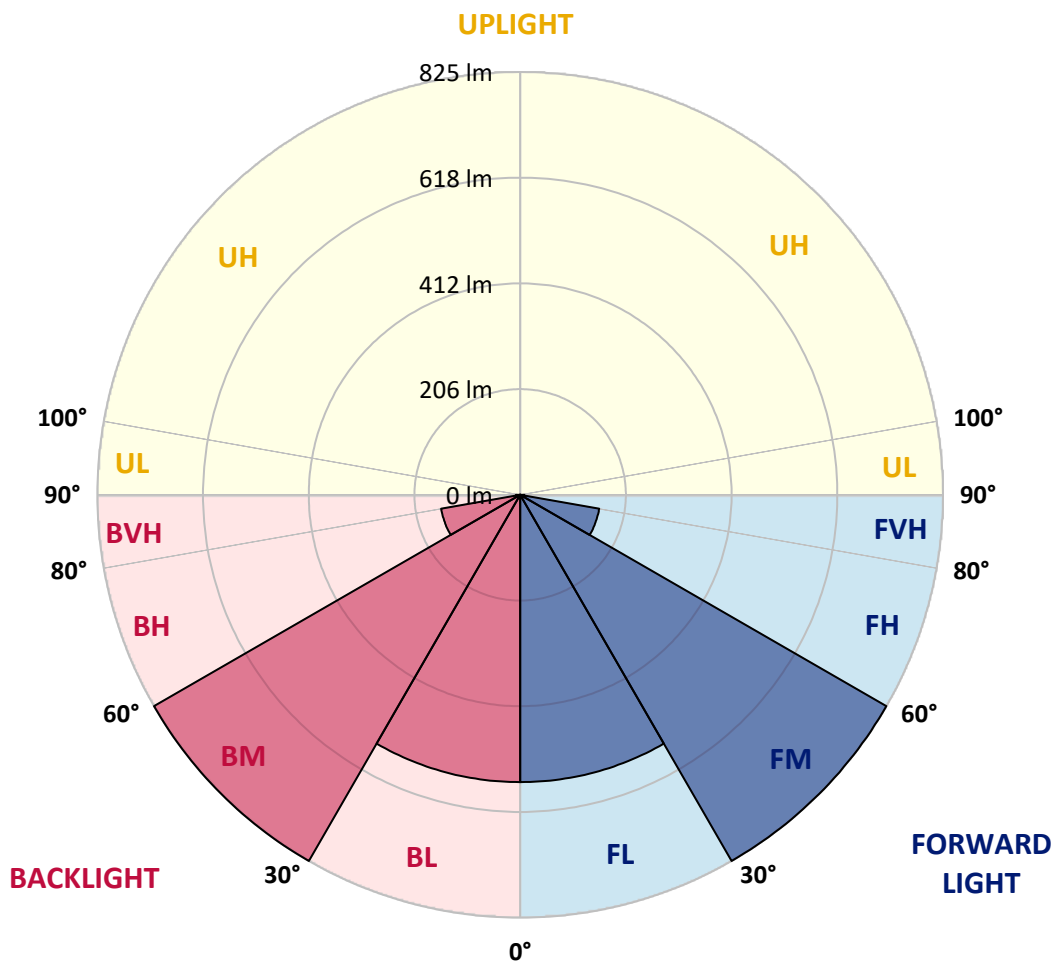
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.3	18.1			
FM	(30°-60°)	824.5	26.6			
FH	(60°-80°)	156.5	5.0			G0/660
FVH	(80°-90°)	8.1	0.3			G0/10
BL	(0°-30°)	560.3	18.1	B2/1000		
BM	(30°-60°)	824.5	26.6	B1/1000		
BH	(60°-80°)	156.5	5.0	B1/500		G0/660
BVH	(80°-90°)	8.1	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8
2.5°	1370.0	1371.5	1372.6	1371.9	1371.1	1371.5	1371.5	1370.8	1371.5	1371.5	1371.5
5°	1390.4	1391.5	1393.0	1392.6	1393.7	1394.4	1395.5	1395.5	1397.0	1398.8	1400.3
7.5°	1393.3	1393.7	1395.2	1396.3	1397.3	1399.2	1402.4	1405.0	1407.2	1411.2	1415.6
10°	1396.3	1396.6	1398.1	1401.0	1405.0	1409.0	1413.4	1417.4	1421.0	1425.4	1430.1
12.5°	1386.1	1386.8	1387.9	1394.1	1400.3	1408.3	1415.6	1423.9	1430.1	1437.4	1443.2
15°	1351.1	1353.3	1358.4	1365.7	1374.0	1382.4	1392.6	1403.2	1411.2	1419.6	1427.9
17.5°	1324.9	1327.1	1333.3	1342.0	1350.0	1361.7	1370.8	1378.4	1385.7	1393.3	1400.6
20°	1296.5	1298.7	1304.5	1315.4	1326.3	1338.7	1349.3	1356.2	1363.8	1371.9	1379.1
22.5°	1252.4	1255.7	1263.0	1273.2	1285.9	1299.0	1310.7	1319.4	1329.2	1339.8	1348.9
25°	1196.7	1200.3	1207.6	1220.0	1232.0	1243.3	1255.0	1265.9	1277.5	1289.6	1301.2
27.5°	1142.1	1147.5	1154.4	1165.7	1177.0	1186.9	1197.1	1208.7	1220.7	1231.6	1238.2
30°	1086.0	1089.3	1098.0	1109.3	1119.8	1130.8	1142.4	1153.0	1161.0	1168.3	1170.8
32.5°	1027.0	1029.5	1036.8	1047.4	1057.9	1069.6	1081.2	1090.0	1095.8	1098.7	1100.5
35°	965.4	968.7	973.8	981.5	993.5	1005.1	1014.6	1023.0	1027.3	1029.5	1033.5
37.5°	901.3	904.3	908.3	916.6	927.9	938.5	948.3	952.7	955.2	960.3	967.3
40°	835.4	837.6	842.3	848.9	859.1	868.2	875.5	880.2	887.1	893.0	899.9
42.5°	773.5	773.9	775.7	781.5	791.0	797.2	803.0	808.1	815.0	821.6	827.0
45°	704.7	708.3	709.8	713.4	719.3	725.1	730.5	737.5	744.0	749.8	754.6
47.5°	641.7	643.5	643.9	649.0	652.6	656.6	663.2	669.0	675.2	681.4	682.8
50°	581.2	579.4	580.9	584.1	587.1	590.0	598.0	602.3	607.8	611.5	615.1
52.5°	517.5	515.7	515.3	520.4	523.0	527.0	531.3	536.8	542.6	546.3	550.3
55°	449.0	448.7	448.7	451.9	454.9	459.2	464.7	469.1	474.9	479.3	484.0
57.5°	381.3	381.3	382.4	382.8	386.8	390.4	393.3	399.9	406.1	411.9	417.0
60°	315.4	316.1	313.9	317.2	319.7	322.7	326.3	331.8	337.6	343.4	350.3
62.5°	251.3	252.7	253.1	252.4	257.1	259.3	263.3	267.3	272.8	279.3	284.8
65°	195.2	196.3	198.5	196.7	200.3	203.2	207.6	212.3	217.4	223.2	228.0
67.5°	152.2	153.3	154.0	153.7	157.3	158.4	161.7	165.7	170.1	174.8	179.9
70°	118.7	119.8	119.8	120.2	122.4	123.1	125.6	128.6	131.5	135.5	139.1
72.5°	91.8	92.9	93.2	94.3	95.1	95.4	96.9	99.1	100.9	103.1	105.6
75°	69.6	70.3	70.7	70.7	71.7	72.5	73.6	75.0	75.7	77.6	79.0
77.5°	51.0	51.7	52.1	52.4	52.8	52.8	53.5	54.6	55.4	56.4	57.2
80°	35.7	35.7	36.1	36.4	36.8	36.8	37.9	37.9	38.2	39.0	39.3
82.5°	22.6	22.6	22.9	22.9	23.3	23.3	24.0	23.7	24.0	24.4	24.4
85°	12.0	12.0	12.4	12.4	12.7	12.4	12.7	12.4	12.4	12.4	12.4
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8
2.5°	1371.9	1371.5	1372.6	1372.9	1372.9	1372.9	1372.9	1375.5	1376.2	1376.6	1377.3
5°	1401.7	1403.2	1404.6	1406.8	1407.2	1408.3	1410.8	1411.2	1412.3	1413.0	1413.0
7.5°	1418.5	1422.8	1425.4	1429.8	1431.9	1434.5	1438.1	1440.0	1441.1	1441.8	1441.1
10°	1433.8	1438.5	1441.1	1443.2	1445.1	1446.5	1446.9	1446.9	1446.1	1446.1	1444.7
12.5°	1446.5	1449.8	1451.2	1452.0	1453.8	1455.6	1456.0	1457.1	1457.1	1456.3	1454.9
15°	1434.5	1441.1	1446.1	1452.7	1459.3	1464.0	1466.9	1466.9	1465.1	1461.1	1455.6
17.5°	1409.0	1418.5	1425.0	1433.0	1441.4	1445.4	1446.9	1446.9	1444.0	1439.2	1430.5
20°	1386.8	1395.2	1399.9	1403.2	1405.4	1404.3	1401.4	1399.5	1398.8	1398.8	1397.3
22.5°	1359.1	1365.3	1368.2	1367.9	1366.4	1363.5	1363.5	1366.4	1369.3	1371.1	1373.3
25°	1310.7	1316.9	1319.1	1322.7	1327.8	1335.1	1342.0	1348.2	1352.2	1350.7	1347.8
27.5°	1243.3	1248.8	1255.3	1270.3	1286.6	1302.7	1314.3	1322.3	1323.4	1315.4	1302.7
30°	1173.7	1181.8	1192.3	1210.5	1229.1	1241.1	1251.7	1251.3	1249.9	1241.8	1229.1
32.5°	1106.7	1118.0	1131.1	1144.6	1153.7	1157.7	1158.1	1149.3	1147.5	1143.9	1137.7
35°	1042.6	1052.5	1061.6	1065.2	1066.7	1062.7	1058.7	1057.2	1052.5	1052.1	1049.9
37.5°	975.6	980.0	981.8	981.1	979.6	975.3	976.7	976.7	972.7	971.6	972.0
40°	905.0	904.6	902.1	899.9	898.1	899.9	901.7	898.4	899.9	899.2	898.8
42.5°	828.9	827.4	825.6	825.2	826.0	826.3	830.0	832.9	830.0	831.1	831.1
45°	755.3	754.6	755.7	757.5	759.7	759.7	763.0	764.4	764.4	766.2	765.5
47.5°	685.7	688.7	690.5	693.8	696.3	697.4	702.9	705.4	705.0	704.7	702.9
50°	620.6	624.2	626.0	630.8	633.3	635.9	640.2	642.4	640.6	640.2	639.1
52.5°	555.4	559.0	564.8	568.1	571.0	573.9	578.3	581.6	580.1	580.1	577.6
55°	490.5	496.4	501.1	504.8	507.3	511.7	513.9	516.8	518.2	517.9	516.0
57.5°	424.3	429.7	434.8	440.3	445.0	451.2	453.8	454.9	455.2	456.3	453.0
60°	356.9	363.4	369.6	375.1	379.1	386.0	387.8	393.3	392.6	390.4	385.7
62.5°	291.3	297.2	303.4	309.9	317.2	320.8	325.2	328.5	328.1	325.6	321.2
65°	234.5	239.3	245.1	250.2	256.7	261.1	265.5	266.6	265.5	262.9	257.5
67.5°	185.0	190.5	194.8	199.6	205.8	208.7	211.2	210.9	210.9	207.9	203.2
70°	143.5	147.5	151.9	155.1	160.2	161.7	163.9	163.9	162.8	160.6	157.3
72.5°	108.9	111.4	115.8	118.0	120.9	122.7	123.5	123.8	122.4	120.2	117.6
75°	80.8	82.7	85.2	86.3	87.8	89.2	89.6	90.0	88.5	87.4	85.2
77.5°	58.3	59.7	61.2	60.8	61.9	62.6	62.6	62.3	61.9	61.2	59.7
80°	40.1	39.7	40.8	40.4	41.5	41.9	41.9	41.9	41.5	40.8	39.7
82.5°	24.4	24.4	25.1	25.5	25.9	26.2	26.2	26.2	25.9	25.5	24.8
85°	12.7	13.1	13.5	13.8	13.8	14.2	14.2	14.2	14.2	13.8	13.5
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8	1362.8
2.5°	1377.3	1375.9	1375.1	1375.1	1374.4	1374.0	1374.8	1374.4	1375.1	1375.1	1374.8
5°	1413.4	1411.6	1410.1	1410.1	1408.3	1408.3	1408.3	1407.2	1406.5	1407.2	1406.5
7.5°	1439.2	1438.1	1435.6	1433.4	1430.5	1429.0	1426.8	1424.7	1422.1	1420.3	1418.8
10°	1445.1	1444.3	1443.2	1441.8	1439.6	1436.7	1434.5	1431.2	1427.6	1424.3	1422.5
12.5°	1453.4	1452.0	1449.4	1445.8	1442.5	1438.1	1432.7	1426.1	1420.7	1415.9	1411.9
15°	1448.7	1441.8	1433.0	1423.9	1414.8	1407.9	1401.7	1395.2	1387.9	1381.0	1374.0
17.5°	1422.1	1413.7	1403.9	1394.4	1386.1	1378.0	1372.2	1366.8	1360.6	1353.3	1346.4
20°	1396.3	1392.3	1384.2	1377.0	1371.5	1362.8	1354.4	1348.9	1344.2	1339.4	1331.4
22.5°	1374.8	1374.4	1369.3	1361.7	1352.9	1342.7	1331.4	1320.5	1311.4	1303.4	1294.7
25°	1345.3	1338.4	1327.8	1317.2	1307.4	1294.7	1280.8	1266.6	1254.6	1244.4	1234.2
27.5°	1288.1	1271.3	1259.0	1248.0	1236.7	1225.8	1214.2	1202.9	1191.6	1181.8	1172.7
30°	1211.6	1193.8	1181.8	1172.3	1165.0	1158.8	1152.3	1143.2	1133.7	1124.6	1115.8
32.5°	1129.7	1119.8	1108.9	1101.6	1095.4	1091.8	1088.9	1083.8	1075.4	1065.9	1056.1
35°	1049.2	1047.4	1043.7	1039.0	1033.5	1028.4	1025.2	1020.1	1012.8	1001.9	992.0
37.5°	973.4	974.2	974.9	971.6	967.6	962.2	957.4	951.6	943.6	933.0	923.6
40°	899.2	901.7	904.3	905.3	902.8	897.0	890.4	883.1	874.4	865.3	856.2
42.5°	830.0	831.4	832.5	834.0	834.0	827.4	821.2	812.5	805.6	799.4	791.7
45°	764.4	763.0	764.4	764.8	763.3	759.7	752.8	745.8	740.4	734.9	729.1
47.5°	701.0	700.3	699.6	698.9	696.3	690.5	687.2	682.1	677.4	673.4	670.1
50°	639.1	638.8	636.2	634.8	631.1	627.8	623.1	618.7	614.4	610.4	606.7
52.5°	577.9	576.5	574.3	569.9	566.3	564.5	559.7	555.4	549.9	545.5	542.6
55°	513.9	513.1	509.5	506.2	501.8	495.3	489.8	486.5	481.8	475.3	471.2
57.5°	448.3	445.4	441.7	437.7	431.9	424.6	419.2	412.2	408.6	404.2	401.0
60°	383.1	378.0	372.2	366.7	360.5	353.6	347.8	342.0	336.5	334.3	330.7
62.5°	315.0	310.3	304.1	297.2	291.3	284.1	279.3	273.5	268.8	264.8	261.1
65°	252.0	246.5	240.7	233.4	226.5	219.2	214.5	207.9	202.5	197.0	193.7
67.5°	197.0	191.2	185.4	177.7	171.9	165.7	161.3	155.5	150.8	147.1	144.9
70°	150.4	145.3	139.8	134.0	129.6	124.9	121.6	118.0	115.4	112.9	111.4
72.5°	112.9	109.6	104.5	100.5	97.2	94.3	92.5	90.3	88.9	87.0	85.9
75°	81.6	79.8	77.6	75.4	73.2	71.0	69.6	68.5	67.0	65.9	65.9
77.5°	58.6	57.5	56.1	54.3	53.2	52.1	50.6	50.3	49.5	48.8	48.4
80°	39.3	38.6	37.9	37.1	36.4	35.7	35.0	34.6	33.9	34.2	33.5
82.5°	24.4	23.7	23.3	22.9	22.6	22.6	22.2	21.9	21.5	21.9	21.5
85°	13.1	12.7	12.4	12.0	11.7	11.7	11.7	11.7	11.7	12.0	11.7
87.5°	5.1	5.1	5.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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):

	82.5°	85°	87.5°	90°
0°	1362.8	1362.8	1362.8	1362.8
2.5°	1375.5	1375.1	1374.8	1375.9
5°	1406.1	1405.0	1404.6	1405.0
7.5°	1417.0	1414.5	1413.4	1413.0
10°	1419.2	1416.7	1415.2	1415.6
12.5°	1405.7	1400.3	1397.3	1397.0
15°	1366.8	1362.0	1356.9	1355.1
17.5°	1340.2	1333.6	1330.0	1328.2
20°	1323.8	1316.9	1312.9	1311.8
22.5°	1286.6	1277.9	1271.0	1268.1
25°	1225.5	1214.9	1209.4	1207.6
27.5°	1164.3	1156.3	1149.3	1148.3
30°	1107.8	1099.5	1092.2	1088.5
32.5°	1047.0	1037.5	1030.3	1031.0
35°	980.7	972.0	966.5	968.3
37.5°	914.1	906.1	901.3	903.5
40°	848.5	842.7	839.8	838.3
42.5°	785.9	782.6	780.4	781.2
45°	724.3	721.4	720.0	722.2
47.5°	666.8	661.7	660.6	662.4
50°	604.2	600.9	600.9	600.9
52.5°	539.3	538.3	539.0	538.3
55°	468.0	465.8	465.4	467.6
57.5°	397.7	397.7	397.0	397.0
60°	327.4	327.0	328.1	327.4
62.5°	256.4	254.6	254.6	254.2
65°	189.7	187.2	187.6	186.8
67.5°	142.4	140.6	139.8	139.5
70°	110.7	108.2	108.2	108.2
72.5°	85.6	84.5	83.8	83.8
75°	64.8	64.5	64.1	63.4
77.5°	47.7	47.3	47.0	46.6
80°	33.1	33.1	32.8	32.8
82.5°	21.1	21.1	20.8	20.8
85°	11.7	11.3	11.3	11.3
87.5°	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0

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