

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: P198362

Luminaire Tested: **TT-C3-LED-E1-CQ-LWR-LW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198362
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-CQ-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5808.1 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G1

Input Watts (W): 62.4
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

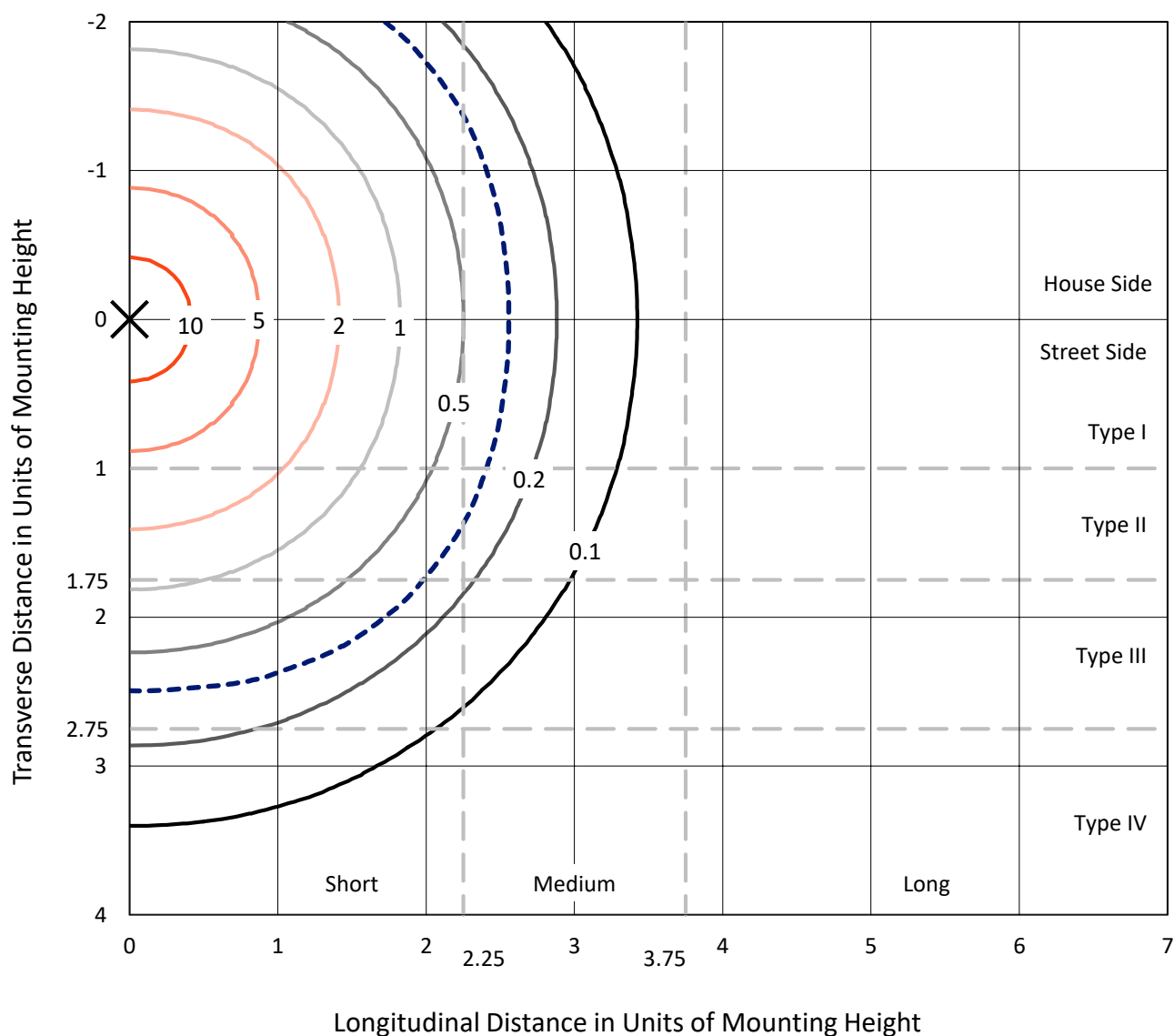


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

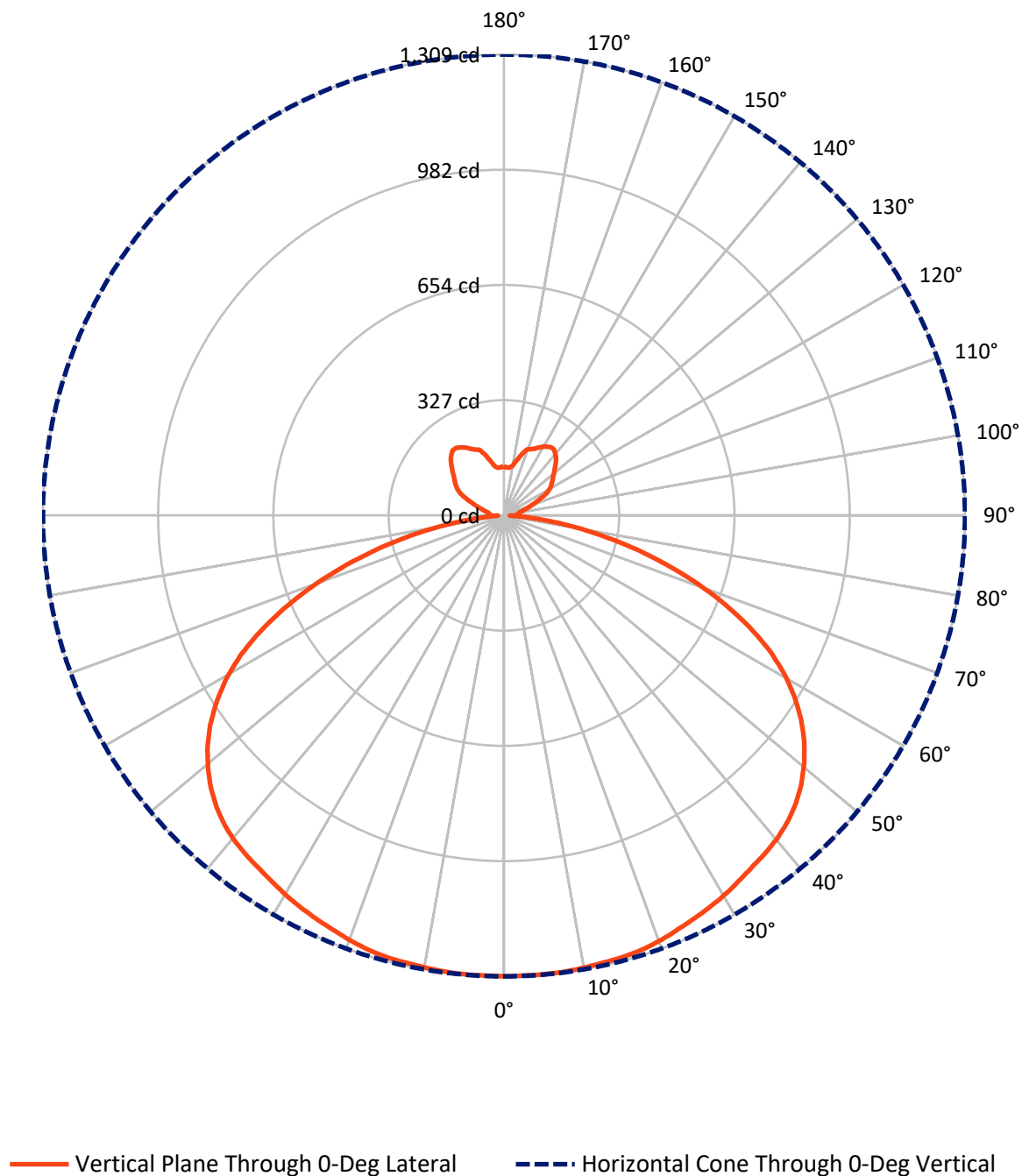


Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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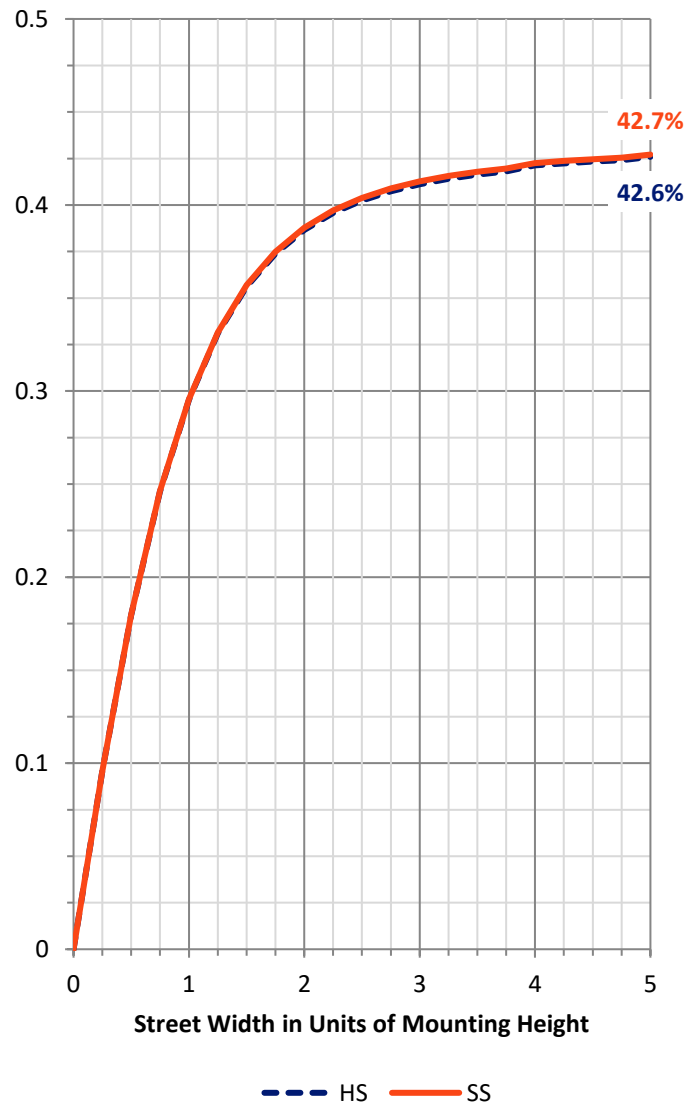
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2492.1	412.0	2904.0
	% Fixture	42.9	7.1	50.0
Street Side	Lumens	2492.1	412.0	2904.0
	% Fixture	42.9	7.1	50.0
Total	Lumens	4984.1	824.0	5808.1
	% Fixture	85.8	14.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	2.1
10°-20°	367.2	6.3
20°-30°	584.9	10.1
30°-40°	766.8	13.2
40°-50°	904.4	15.6
50°-60°	936.7	16.1
60°-70°	783.3	13.5
70°-80°	427.0	7.4
80°-90°	89.1	1.5
90°-100°	38.3	0.7
100°-110°	59.4	1.0
110°-120°	119.3	2.1
120°-130°	148.7	2.6
130°-140°	153.2	2.6
140°-150°	136.0	2.3
150°-160°	103.7	1.8
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	4984.1	85.8
0°-180°	5808.1	100.0

Coefficient of Utilization



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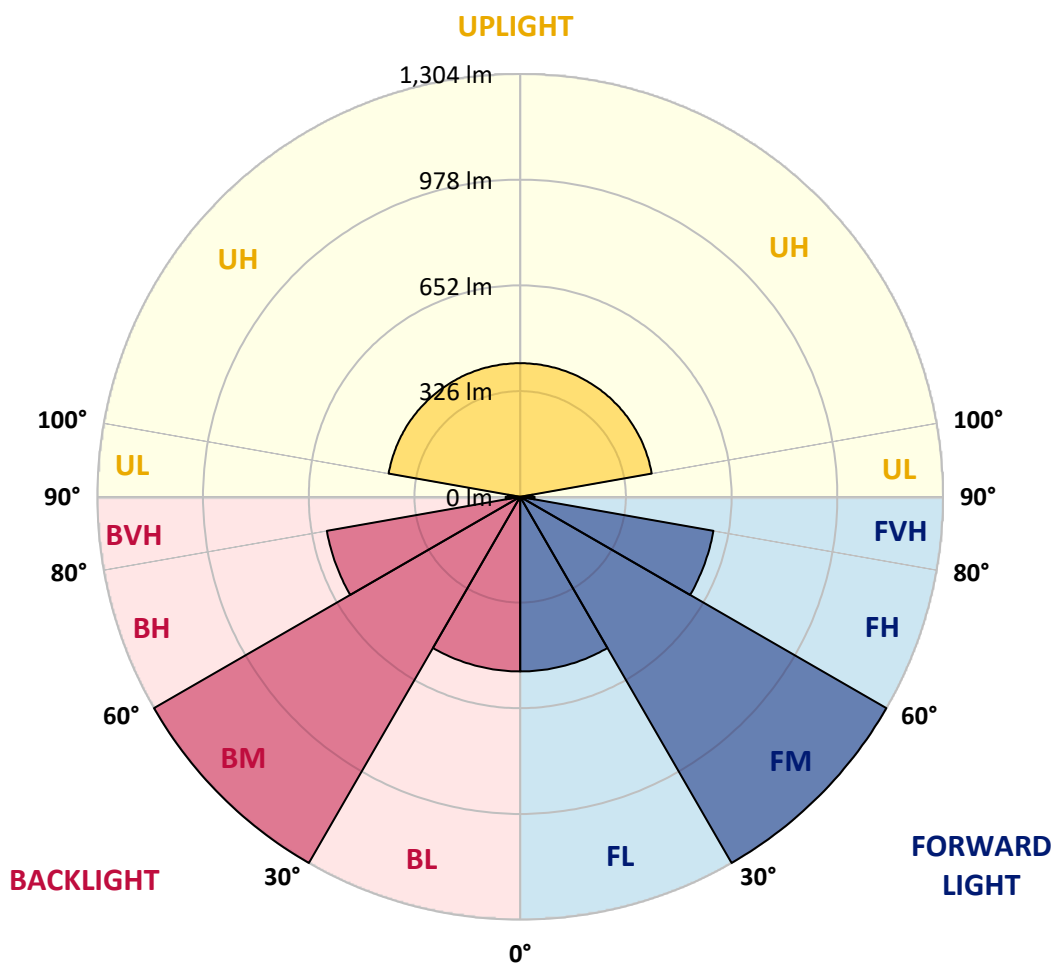
CATALOG NUMBER: TT-C3-LED-E1-CQ-LWR-LW-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	538.4	9.3			
FM	(30°-60°)	1303.9	22.5			
FH	(60°-80°)	605.2	10.4			G0/660
FVH	(80°-90°)	44.6	0.8			G1/100
BL	(0°-30°)	538.4	9.3	B2/1000		
BM	(30°-60°)	1303.9	22.5	B2/2500		
BH	(60°-80°)	605.2	10.4	B2/1000		G0/660
BVH	(80°-90°)	44.6	0.8			G1/100
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	7.1		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7
2.5°	1307.6	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1307.6	1308.7	1308.7
5°	1307.6	1307.6	1307.6	1307.6	1308.7	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6
7.5°	1306.6	1305.5	1305.5	1305.5	1305.5	1305.5	1306.6	1306.6	1306.6	1306.6	1306.6
10°	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4
12.5°	1300.3	1300.3	1300.3	1300.3	1301.3	1301.3	1301.3	1301.3	1301.3	1301.3	1300.3
15°	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2
17.5°	1293.0	1293.0	1293.0	1293.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0
20°	1284.6	1284.6	1284.6	1284.6	1284.6	1285.6	1286.7	1286.7	1286.7	1286.7	1286.7
22.5°	1274.1	1274.1	1275.2	1275.2	1276.2	1276.2	1277.2	1277.2	1277.2	1277.2	1277.2
25°	1264.7	1264.7	1264.7	1265.7	1265.7	1265.7	1266.8	1267.8	1267.8	1267.8	1266.8
27.5°	1255.2	1255.2	1255.2	1256.3	1256.3	1256.3	1257.3	1257.3	1258.4	1257.3	1257.3
30°	1244.8	1243.7	1243.7	1244.8	1245.8	1245.8	1246.9	1246.9	1246.9	1246.9	1245.8
32.5°	1232.2	1232.2	1233.2	1234.3	1234.3	1235.3	1236.4	1236.4	1236.4	1237.4	1235.3
35°	1220.7	1221.7	1221.7	1222.8	1224.9	1225.9	1227.0	1228.0	1228.0	1228.0	1225.9
37.5°	1211.2	1212.3	1213.3	1215.4	1217.5	1219.6	1221.7	1223.8	1222.8	1222.8	1219.6
40°	1199.7	1200.8	1202.9	1205.0	1209.1	1211.2	1214.4	1216.5	1217.5	1216.5	1213.3
42.5°	1184.0	1185.0	1187.1	1190.3	1195.5	1199.7	1202.9	1206.0	1207.0	1206.0	1202.9
45°	1163.0	1164.1	1166.2	1170.4	1176.7	1180.9	1186.1	1189.2	1191.3	1191.3	1188.2
47.5°	1136.8	1137.9	1141.0	1145.2	1151.5	1156.8	1163.0	1167.2	1169.3	1171.4	1168.3
50°	1104.4	1105.4	1109.6	1114.8	1120.1	1127.4	1134.7	1141.0	1144.2	1145.2	1144.2
52.5°	1067.7	1068.7	1072.9	1078.2	1085.5	1093.9	1102.3	1109.6	1113.8	1115.9	1113.8
55°	1023.7	1025.8	1028.9	1036.3	1044.6	1052.0	1062.5	1070.8	1076.1	1077.1	1076.1
57.5°	972.3	975.5	978.6	987.0	995.4	1005.9	1014.3	1022.6	1028.9	1030.0	1030.0
60°	914.7	916.8	920.0	928.3	937.8	945.1	956.6	965.0	970.2	970.2	971.3
62.5°	846.6	848.7	853.9	860.2	870.7	878.0	887.5	895.9	901.1	903.2	902.1
65°	767.0	769.1	772.2	780.6	789.0	797.4	806.8	814.1	819.4	820.4	819.4
67.5°	679.0	681.1	683.2	693.6	702.0	705.2	716.7	723.0	726.1	727.2	727.2
70°	585.7	586.8	589.9	595.1	604.6	607.7	615.0	620.3	622.4	626.6	623.4
72.5°	488.3	490.4	497.7	498.7	506.1	510.3	512.4	512.4	517.6	517.6	518.7
75°	391.9	392.9	396.1	397.1	402.3	402.3	401.3	403.4	407.6	407.6	408.6
77.5°	296.5	296.5	301.8	297.6	299.7	295.5	297.6	295.5	298.6	297.6	298.6
80°	207.5	207.5	210.6	206.4	207.5	203.3	204.3	203.3	203.3	204.3	204.3
82.5°	127.8	128.9	131.0	127.8	127.8	124.7	125.7	126.8	126.8	125.7	124.7
85°	62.9	62.9	65.0	63.9	62.9	60.8	61.8	62.9	62.9	61.8	61.8
87.5°	16.8	16.8	17.8	17.8	16.8	15.7	16.8	17.8	17.8	17.8	16.8
90°	36.0	36.0	36.0	36.0	35.0	34.0	31.0	29.0	27.0	26.0	26.0
92.5°	40.0	39.0	39.0	38.0	36.0	34.0	32.0	29.0	27.0	27.0	27.0
95°	44.0	43.0	42.0	41.0	38.0	36.0	34.0	32.0	31.0	30.0	30.0
97.5°	42.0	42.0	41.0	40.0	38.0	37.0	36.0	35.0	34.0	33.0	32.0
100°	45.0	45.0	45.0	44.0	42.0	40.0	39.0	38.0	36.0	36.0	35.0
102.5°	51.0	51.0	50.0	49.0	47.0	46.0	45.0	44.0	42.0	42.0	42.0
105°	60.0	60.0	59.0	57.0	55.0	54.0	53.0	53.0	51.0	52.0	52.0
107.5°	72.0	72.0	72.0	70.0	68.0	67.0	66.0	66.0	66.0	68.0	68.0
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	101.0	102.0	104.0	108.0	106.0	107.0	107.0	110.0	108.0	107.0	103.0
115°	121.0	122.0	123.0	128.0	126.0	128.0	127.0	129.0	126.0	124.0	120.0
117.5°	140.0	141.0	141.0	144.0	141.0	141.0	140.0	141.0	138.0	136.0	135.0
120°	152.0	153.0	154.0	155.0	151.0	149.0	147.0	149.0	147.0	147.0	148.0
122.5°	161.0	162.0	163.0	164.0	159.0	154.0	153.0	155.0	156.0	158.0	158.0
125°	169.0	169.0	170.0	172.0	168.0	163.0	160.0	165.0	166.0	168.0	167.0
127.5°	177.0	177.0	179.0	181.0	177.0	171.0	170.0	176.0	177.0	178.0	175.0
130°	187.0	188.0	190.0	191.0	185.0	179.0	179.0	186.0	187.0	186.0	183.0
132.5°	198.0	199.0	200.0	201.0	193.0	186.0	187.0	193.0	195.0	195.0	191.0
135°	210.0	210.0	211.0	209.0	199.0	192.0	193.0	199.0	202.0	201.0	197.0
137.5°	221.0	219.0	217.0	213.0	203.0	197.0	198.0	205.0	207.0	208.0	203.0
140°	229.0	226.0	222.0	216.0	205.0	200.0	201.0	207.0	210.0	213.0	212.0
142.5°	235.0	231.0	225.0	218.0	206.0	201.0	202.0	208.0	212.0	218.0	218.0
145°	235.0	230.0	225.0	218.0	207.0	202.0	204.0	211.0	215.0	223.0	225.0
147.5°	230.0	227.0	223.0	219.0	210.0	207.0	209.0	216.0	220.0	229.0	233.0
150°	224.0	221.0	219.0	220.0	215.0	214.0	216.0	222.0	227.0	235.0	239.0
152.5°	216.0	214.0	216.0	221.0	220.0	220.0	224.0	230.0	234.0	241.0	241.0
155°	208.0	207.0	211.0	219.0	222.0	224.0	229.0	237.0	239.0	243.0	239.0
157.5°	203.0	203.0	207.0	216.0	220.0	224.0	229.0	234.0	232.0	235.0	230.0
160°	199.0	198.0	203.0	210.0	212.0	213.0	216.0	219.0	216.0	219.0	216.0
162.5°	185.0	184.0	188.0	193.0	194.0	193.0	196.0	198.0	195.0	198.0	196.0
165°	169.0	167.0	169.0	173.0	173.0	173.0	175.0	176.0	174.0	177.0	175.0
167.5°	154.0	152.0	153.0	156.0	156.0	155.0	157.0	159.0	157.0	159.0	158.0
170°	142.0	141.0	142.0	145.0	144.0	144.0	146.0	147.0	146.0	147.0	147.0
172.5°	137.0	135.0	136.0	139.0	139.0	138.0	140.0	141.0	140.0	141.0	140.0
175°	136.0	134.0	135.0	137.0	137.0	137.0	138.0	139.0	138.0	139.0	138.0
177.5°	137.0	136.0	136.0	139.0	138.0	138.0	139.0	140.0	139.0	139.0	138.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7
2.5°	1307.6	1307.6	1308.7	1307.6	1308.7	1307.6	1308.7	1308.7
5°	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6
7.5°	1305.5	1306.6	1305.5	1305.5	1305.5	1306.6	1305.5	1306.6
10°	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4
12.5°	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1299.3
15°	1298.2	1297.2	1297.2	1297.2	1296.1	1296.1	1296.1	1296.1
17.5°	1294.0	1293.0	1291.9	1291.9	1291.9	1291.9	1290.9	1290.9
20°	1286.7	1285.6	1284.6	1284.6	1283.5	1283.5	1282.5	1282.5
22.5°	1276.2	1276.2	1275.2	1274.1	1274.1	1273.1	1273.1	1272.0
25°	1266.8	1265.7	1264.7	1263.6	1262.6	1262.6	1261.5	1260.5
27.5°	1256.3	1254.2	1253.1	1252.1	1251.1	1250.0	1249.0	1247.9
30°	1244.8	1242.7	1240.6	1239.5	1237.4	1235.3	1234.3	1233.2
32.5°	1233.2	1231.1	1228.0	1224.9	1222.8	1220.7	1218.6	1217.5
35°	1223.8	1219.6	1216.5	1212.3	1209.1	1206.0	1205.0	1203.9
37.5°	1216.5	1212.3	1207.0	1202.9	1199.7	1195.5	1193.4	1191.3
40°	1209.1	1203.9	1197.6	1192.4	1188.2	1182.9	1180.9	1178.8
42.5°	1198.7	1192.4	1186.1	1179.8	1173.5	1168.3	1165.1	1163.0
45°	1184.0	1177.7	1170.4	1162.0	1155.7	1149.4	1146.3	1144.2
47.5°	1164.1	1157.8	1149.4	1142.1	1134.7	1128.5	1124.3	1122.2
50°	1140.0	1133.7	1125.3	1116.9	1109.6	1102.3	1099.1	1096.0
52.5°	1109.6	1104.4	1094.9	1088.6	1080.3	1072.9	1069.8	1067.7
55°	1071.9	1066.6	1057.2	1050.9	1042.5	1036.3	1032.1	1028.9
57.5°	1025.8	1021.6	1011.1	1004.8	996.4	990.2	987.0	984.9
60°	969.2	965.0	954.5	948.2	940.9	933.6	931.5	929.4
62.5°	899.0	896.9	888.5	881.2	873.9	866.5	864.4	863.4
65°	817.3	815.2	807.8	801.6	795.3	789.0	786.9	784.8
67.5°	724.0	723.0	716.7	711.4	707.3	701.0	699.9	697.8
70°	624.5	622.4	617.1	613.0	609.8	604.6	603.5	601.4
72.5°	520.7	519.7	516.6	511.3	511.3	504.0	502.9	501.9
75°	406.5	411.8	407.6	405.5	405.5	401.3	401.3	400.3
77.5°	297.6	302.8	306.0	301.8	306.0	301.8	301.8	300.7
80°	203.3	207.5	210.6	207.5	212.7	209.6	209.6	213.7
82.5°	123.6	127.8	129.9	128.9	132.0	131.0	129.9	133.1
85°	60.8	62.9	63.9	63.9	65.0	62.9	65.0	66.0
87.5°	15.7	16.8	17.8	16.8	17.8	17.8	17.8	18.9
90°	28.0	30.0	32.0	33.0	34.0	34.0	34.0	34.0
92.5°	28.0	30.0	32.0	33.0	35.0	36.0	36.0	36.0
95°	30.0	32.0	34.0	35.0	37.0	38.0	39.0	38.0
97.5°	33.0	34.0	34.0	35.0	36.0	36.0	36.0	36.0
100°	36.0	37.0	38.0	38.0	38.0	38.0	37.0	37.0
102.5°	43.0	44.0	44.0	42.0	42.0	41.0	41.0	41.0
105°	54.0	54.0	53.0	51.0	49.0	48.0	48.0	49.0
107.5°	68.0	68.0	66.0	63.0	60.0	59.0	59.0	60.0
110°	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	102.0	102.0	105.0	103.0	100.0	98.0	95.0	94.0
115°	121.0	123.0	125.0	124.0	123.0	121.0	116.0	113.0
117.5°	138.0	140.0	141.0	139.0	139.0	139.0	133.0	129.0
120°	150.0	151.0	153.0	148.0	148.0	148.0	145.0	142.0
122.5°	159.0	160.0	162.0	156.0	155.0	156.0	153.0	150.0
125°	167.0	167.0	168.0	164.0	163.0	164.0	160.0	158.0
127.5°	176.0	175.0	175.0	173.0	173.0	173.0	166.0	163.0
130°	183.0	182.0	183.0	181.0	184.0	181.0	171.0	169.0
132.5°	190.0	189.0	192.0	189.0	192.0	190.0	179.0	176.0
135°	196.0	197.0	201.0	199.0	199.0	195.0	185.0	184.0
137.5°	203.0	205.0	210.0	207.0	204.0	198.0	191.0	190.0
140°	212.0	214.0	217.0	214.0	209.0	202.0	195.0	195.0
142.5°	220.0	222.0	223.0	217.0	211.0	204.0	198.0	198.0
145°	230.0	230.0	227.0	217.0	211.0	205.0	201.0	202.0
147.5°	239.0	236.0	229.0	218.0	212.0	207.0	204.0	206.0
150°	242.0	240.0	232.0	220.0	214.0	211.0	210.0	211.0
152.5°	242.0	241.0	235.0	223.0	219.0	217.0	215.0	216.0
155°	238.0	237.0	234.0	227.0	224.0	223.0	220.0	219.0
157.5°	228.0	229.0	229.0	226.0	226.0	225.0	222.0	219.0
160°	215.0	217.0	219.0	219.0	221.0	222.0	218.0	215.0
162.5°	196.0	199.0	200.0	201.0	204.0	208.0	207.0	207.0
165°	176.0	179.0	181.0	181.0	185.0	189.0	190.0	192.0
167.5°	160.0	163.0	165.0	164.0	168.0	171.0	172.0	174.0
170°	148.0	150.0	152.0	152.0	155.0	158.0	159.0	160.0
172.5°	141.0	144.0	145.0	144.0	146.0	149.0	149.0	151.0
175°	138.0	140.0	141.0	140.0	141.0	143.0	143.0	144.0
177.5°	138.0	140.0	140.0	138.0	140.0	141.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)