

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: P198390

Luminaire Tested: **TT-C3-LED-E1-MQ-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198390
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-MQ-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM DISTRIBUTION
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7088.4 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U4 - G2

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



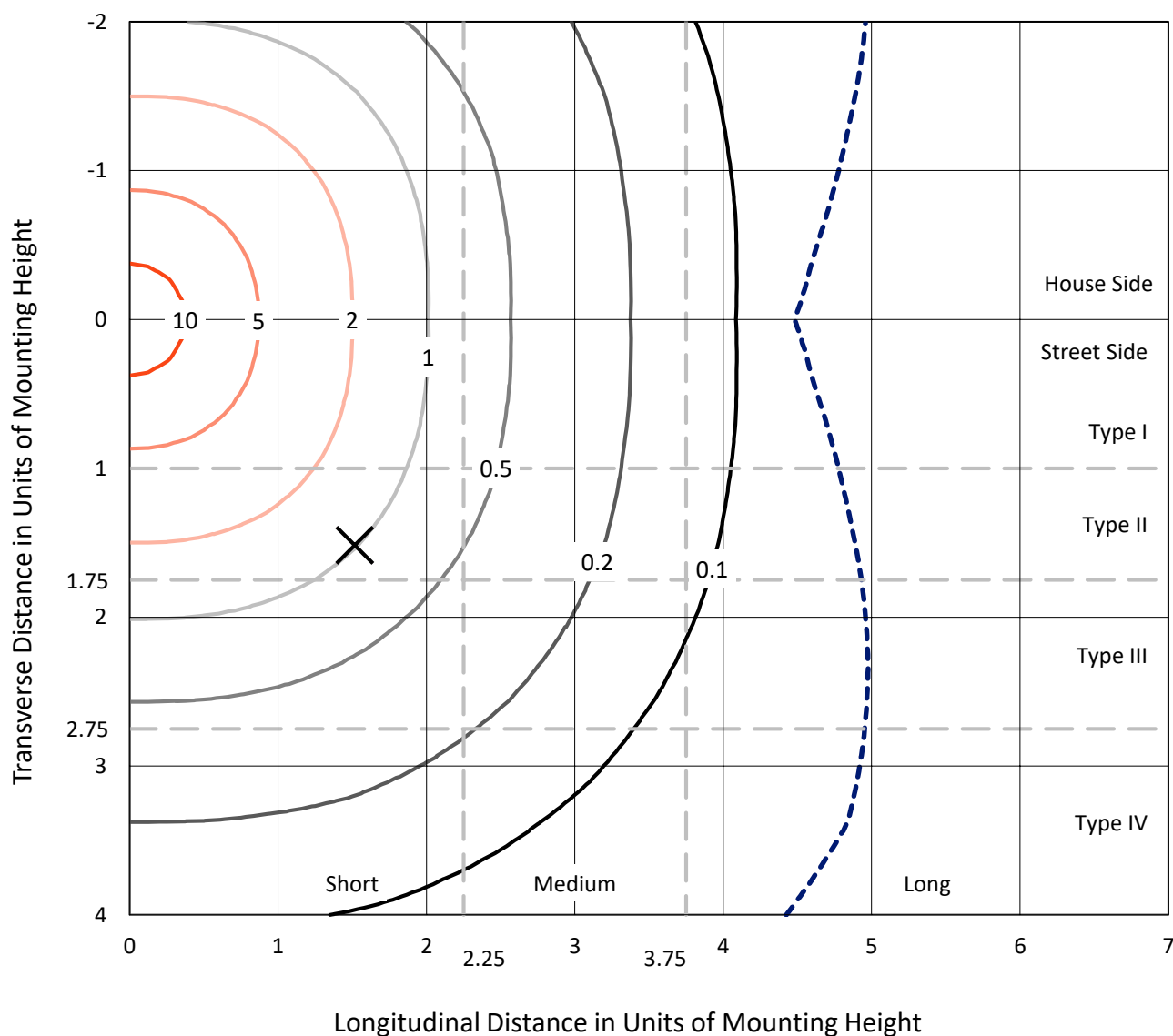
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

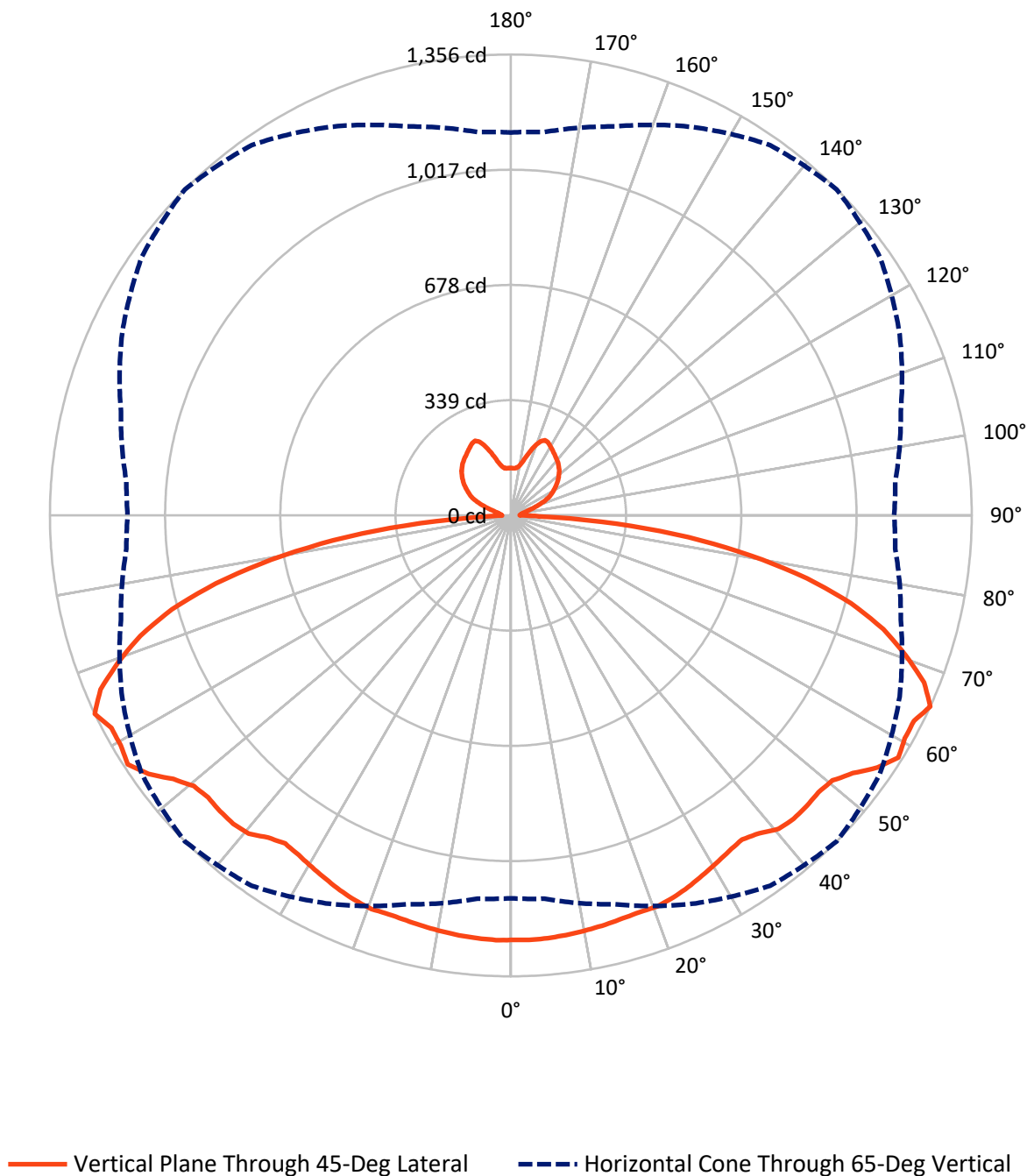


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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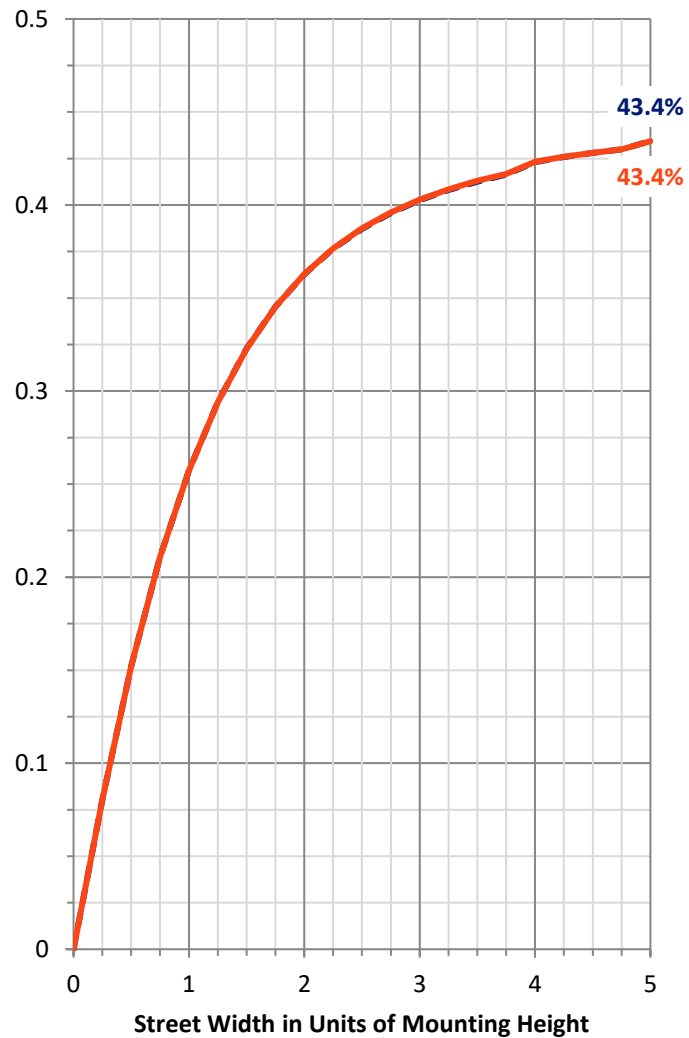
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3131.5	412.7	3544.2
	% Fixture	44.2	5.8	50.0
Street Side	Lumens	3131.5	412.7	3544.2
	% Fixture	44.2	5.8	50.0
Total	Lumens	6263.0	825.3	7088.4
	% Fixture	88.4	11.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	1.7
10°-20°	348.6	4.9
20°-30°	557.8	7.9
30°-40°	736.7	10.4
40°-50°	921.0	13.0
50°-60°	1105.7	15.6
60°-70°	1208.6	17.1
70°-80°	960.3	13.5
80°-90°	305.5	4.3
90°-100°	38.4	0.5
100°-110°	59.5	0.8
110°-120°	119.6	1.7
120°-130°	148.9	2.1
130°-140°	153.3	2.2
140°-150°	136.3	1.9
150°-160°	103.9	1.5
160°-170°	51.8	0.7
170°-180°	13.6	0.2
0°-90°	6263.0	88.4
0°-180°	7088.4	100.0

Coefficient of Utilization



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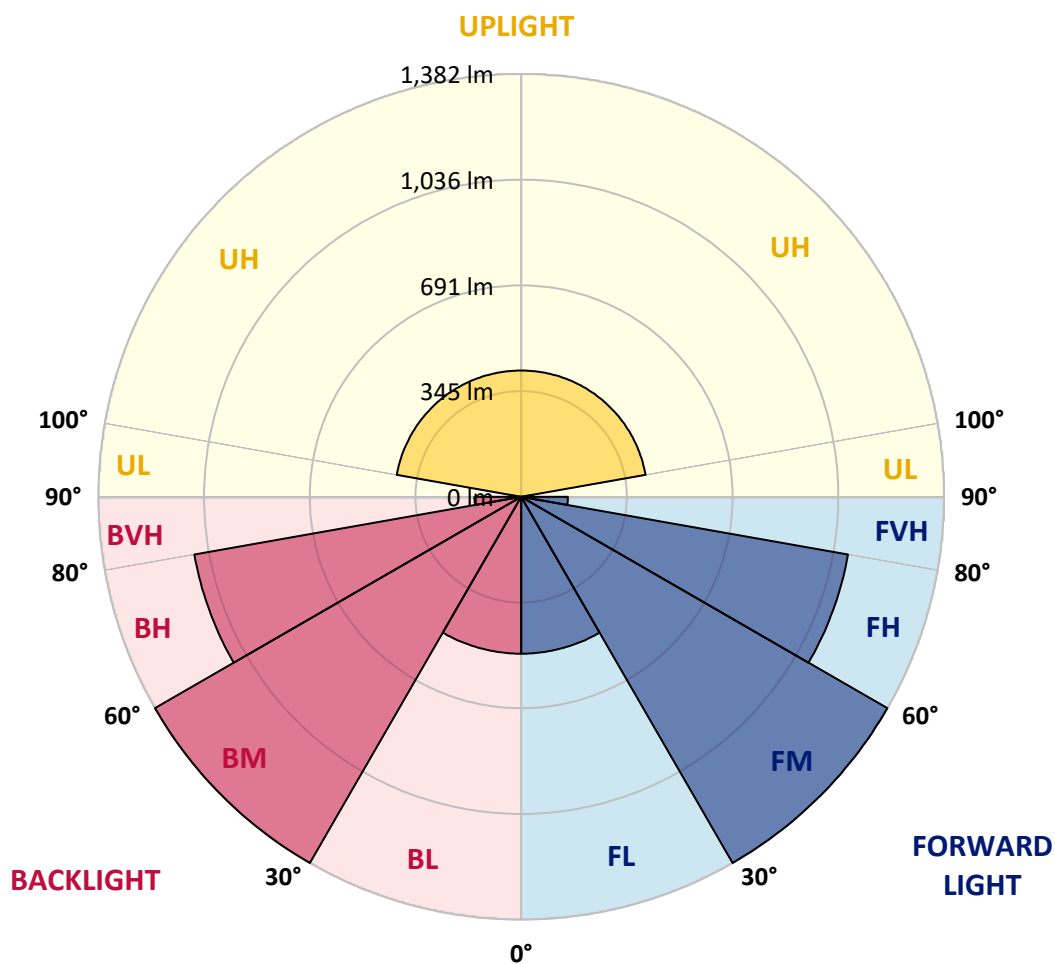
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	512.6	7.2			
FM	(30°-60°)	1381.7	19.5			
FH	(60°-80°)	1084.4	15.3			G1/1800
FVH	(80°-90°)	152.7	2.2			G2/225
BL	(0°-30°)	512.6	7.2	B2/1000		
BM	(30°-60°)	1381.7	19.5	B2/2500		
BH	(60°-80°)	1084.4	15.3	B3/2500		G1/1800
BVH	(80°-90°)	152.7	2.2			G2/225
UL	(90°-100°)	38.4	0.5		U2/50	
UH	(100°-180°)	412.7	5.8		U3/500	

BUG Rating: B3-U4-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7
2.5°	1249.8	1249.8	1249.8	1249.8	1248.7	1249.8	1248.7	1248.7	1249.8	1249.8	1249.8
5°	1247.6	1247.6	1247.6	1247.6	1247.6	1247.6	1247.6	1247.6	1247.6	1247.6	1247.6
7.5°	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3
10°	1239.9	1241.0	1241.0	1241.0	1239.9	1239.9	1239.9	1241.0	1241.0	1239.9	1239.9
12.5°	1235.5	1235.5	1236.6	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1235.5	1234.5
15°	1229.0	1229.0	1230.1	1230.1	1230.1	1230.1	1230.1	1229.0	1229.0	1227.9	1227.9
17.5°	1223.5	1223.5	1225.7	1225.7	1226.8	1226.8	1226.8	1224.6	1224.6	1222.4	1222.4
20°	1222.4	1222.4	1223.5	1225.7	1226.8	1227.9	1226.8	1224.6	1222.4	1220.2	1220.2
22.5°	1214.8	1215.9	1218.1	1219.1	1221.3	1221.3	1221.3	1218.1	1217.0	1214.8	1214.8
25°	1204.9	1203.8	1207.1	1209.3	1211.5	1211.5	1210.4	1208.2	1207.1	1203.8	1203.8
27.5°	1189.6	1190.7	1192.9	1196.2	1199.5	1199.5	1198.4	1196.2	1194.0	1191.8	1190.7
30°	1176.5	1177.6	1179.8	1183.1	1185.3	1188.5	1185.3	1183.1	1179.8	1178.7	1177.6
32.5°	1162.3	1163.4	1166.7	1172.1	1175.4	1177.6	1175.4	1173.2	1167.8	1164.5	1163.4
35°	1152.5	1153.5	1156.8	1164.5	1171.0	1171.0	1171.0	1165.6	1159.0	1153.5	1152.5
37.5°	1153.5	1155.7	1163.4	1174.3	1185.3	1186.3	1185.3	1174.3	1164.5	1155.7	1154.6
40°	1162.3	1164.5	1177.6	1194.0	1208.2	1212.6	1209.3	1194.0	1178.7	1166.7	1163.4
42.5°	1161.2	1164.5	1178.7	1199.5	1213.7	1220.2	1213.7	1199.5	1180.9	1167.8	1163.4
45°	1156.8	1159.0	1174.3	1196.2	1213.7	1220.2	1214.8	1198.4	1177.6	1162.3	1159.0
47.5°	1150.3	1152.5	1164.5	1190.7	1210.4	1217.0	1211.5	1194.0	1167.8	1155.7	1153.5
50°	1141.5	1148.1	1167.8	1195.1	1221.3	1225.7	1222.4	1197.3	1169.9	1152.5	1143.7
52.5°	1150.3	1149.2	1172.1	1221.3	1245.4	1259.6	1248.7	1219.1	1177.6	1154.6	1152.5
55°	1169.9	1178.7	1203.8	1249.8	1289.1	1308.8	1293.5	1253.0	1206.0	1177.6	1172.1
57.5°	1168.9	1179.8	1224.6	1270.5	1330.7	1343.8	1326.3	1276.0	1222.4	1185.3	1171.0
60°	1162.3	1166.7	1200.6	1282.6	1316.5	1331.8	1316.5	1277.1	1209.3	1167.8	1167.8
62.5°	1140.4	1148.1	1201.7	1258.5	1306.6	1330.7	1312.1	1262.9	1200.6	1155.7	1141.5
65°	1126.2	1131.7	1184.2	1260.7	1329.6	1355.8	1325.2	1261.8	1187.4	1135.0	1127.3
67.5°	1081.4	1091.2	1140.4	1223.5	1290.2	1311.0	1299.0	1221.3	1140.4	1092.3	1080.3
70°	1004.8	1010.3	1078.1	1156.8	1218.1	1232.3	1214.8	1164.5	1071.5	1018.0	1001.6
72.5°	910.8	918.5	980.8	1068.3	1127.3	1145.9	1125.1	1071.5	975.3	927.2	911.9
75°	815.7	823.3	863.8	958.9	1008.1	1034.4	1010.3	952.4	866.0	819.0	812.4
77.5°	679.0	691.0	753.4	816.8	863.8	891.1	870.4	816.8	749.0	693.2	672.4
80°	533.6	542.3	600.3	656.0	698.7	716.2	706.3	656.0	601.4	544.5	534.7
82.5°	373.9	379.4	429.7	474.5	527.0	527.0	516.1	483.3	428.6	379.4	381.6
85°	200.1	206.7	244.9	279.9	312.7	312.7	302.9	282.1	243.8	205.6	201.2
87.5°	40.5	44.8	59.0	64.5	76.5	82.0	74.4	67.8	59.0	47.0	47.0
90°	36.0	36.0	36.0	34.0	29.0	26.0	28.0	32.0	34.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	28.0	32.0	35.0	36.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.0	30.0	34.0	37.0	39.0	38.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.0	33.0	34.0	36.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	36.0	38.0	38.0	37.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	43.0	44.0	42.0	41.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	52.0	54.0	53.0	49.0	48.0	49.0
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	60.0
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	75.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.0
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	113.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	129.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	142.0
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	150.0
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.0
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	163.0
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	176.0
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.0
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.0
140°	229.0	226.0	216.0	200.0	207.0	213.0	212.0	217.0	209.0	195.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	218.0	220.0	223.0	211.0	198.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	223.0	230.0	227.0	211.0	201.0	202.0
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	206.0
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	211.0
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	216.0
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.0
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	219.0
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	215.0
162.5°	185.0	184.0	193.0	193.0	198.0	198.0	196.0	200.0	204.0	207.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	177.0	176.0	181.0	185.0	190.0	192.0
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	174.0
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	160.0
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	151.0
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	144.0
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	138.0	140.0	140.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)