

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: P198361

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198361
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-CQ-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
CONCENTRATED DISTRIBUTION
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6266.9 lumens
Efficiency: N/A
Efficacy: 100.4 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



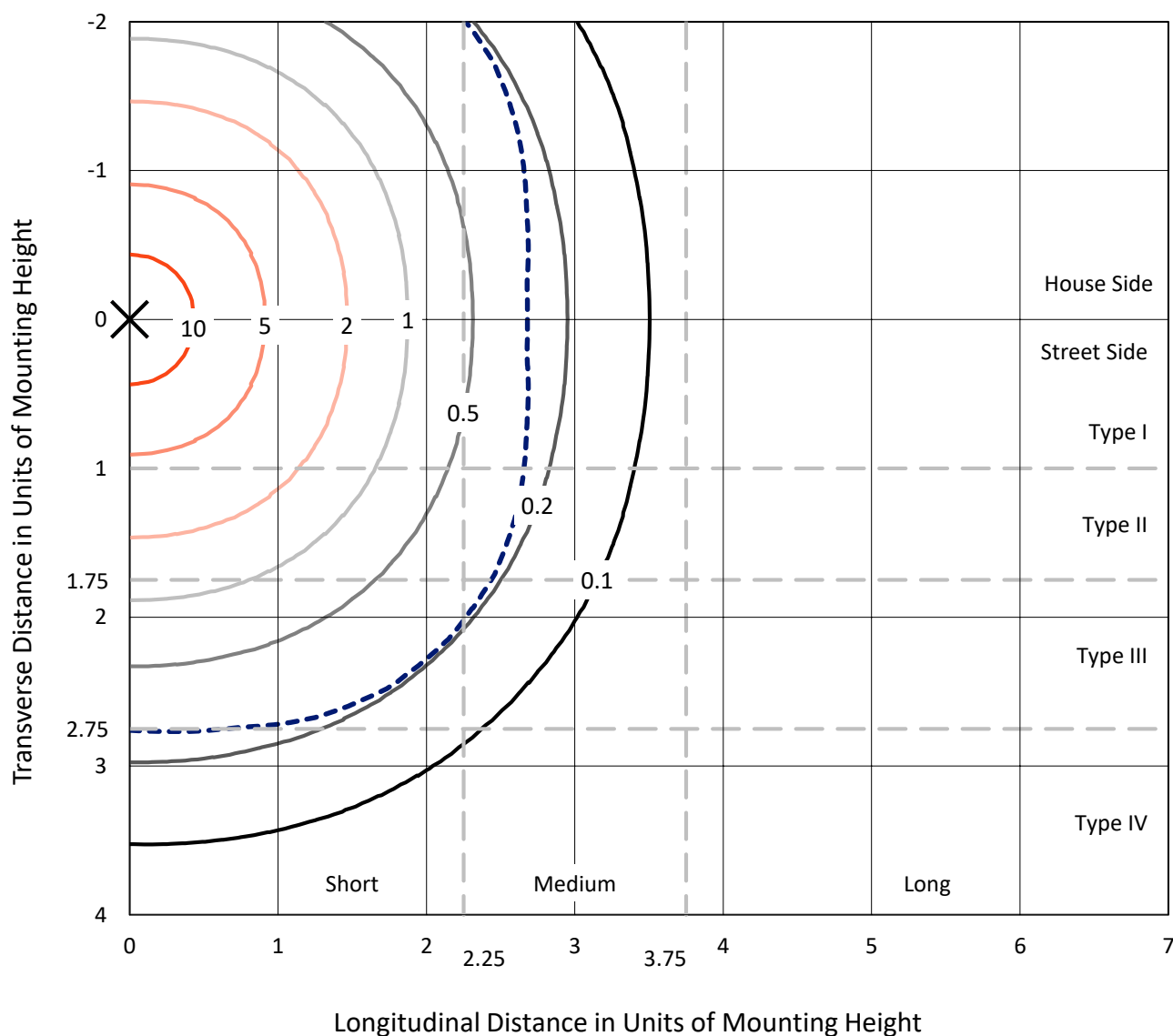
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

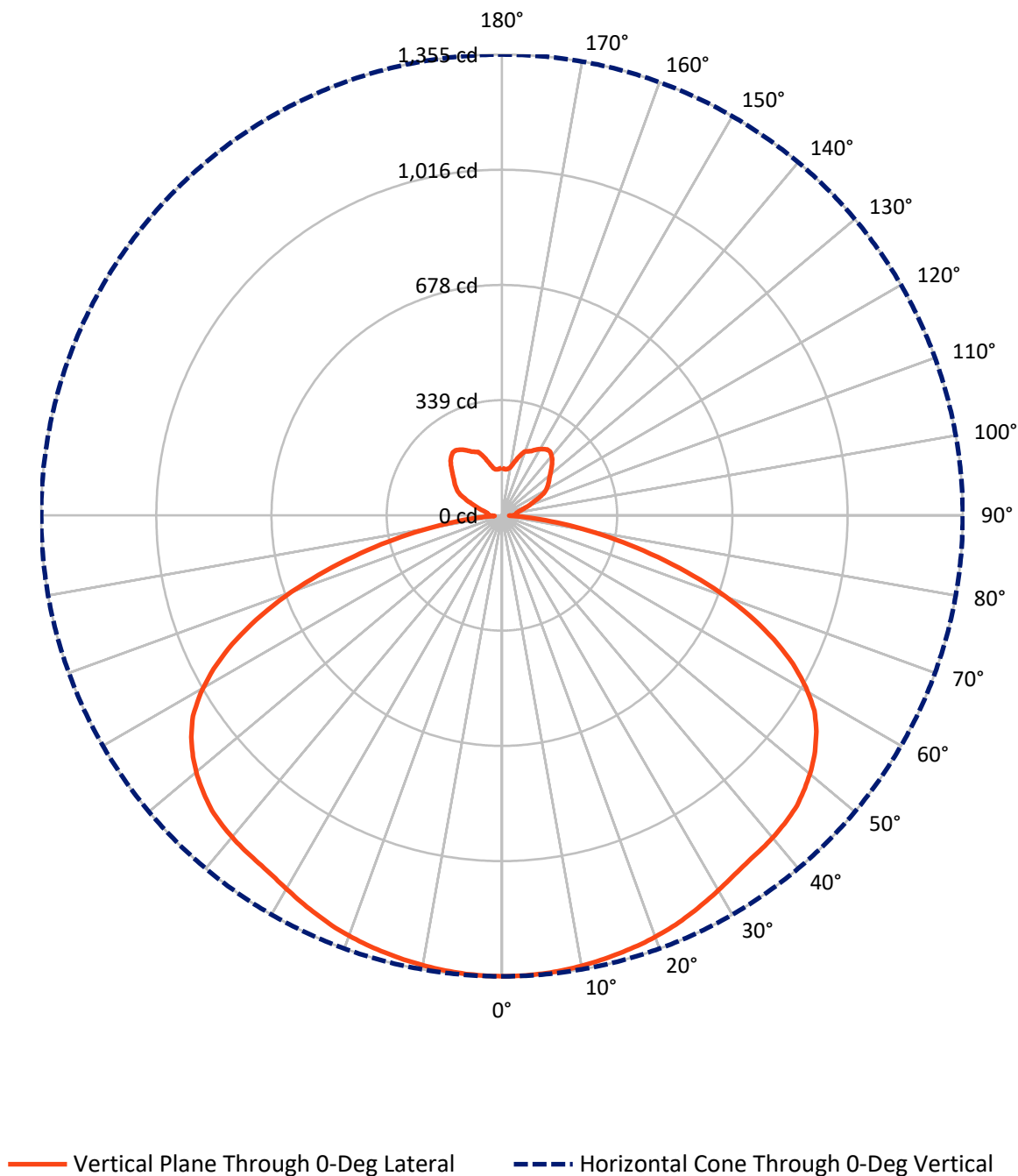


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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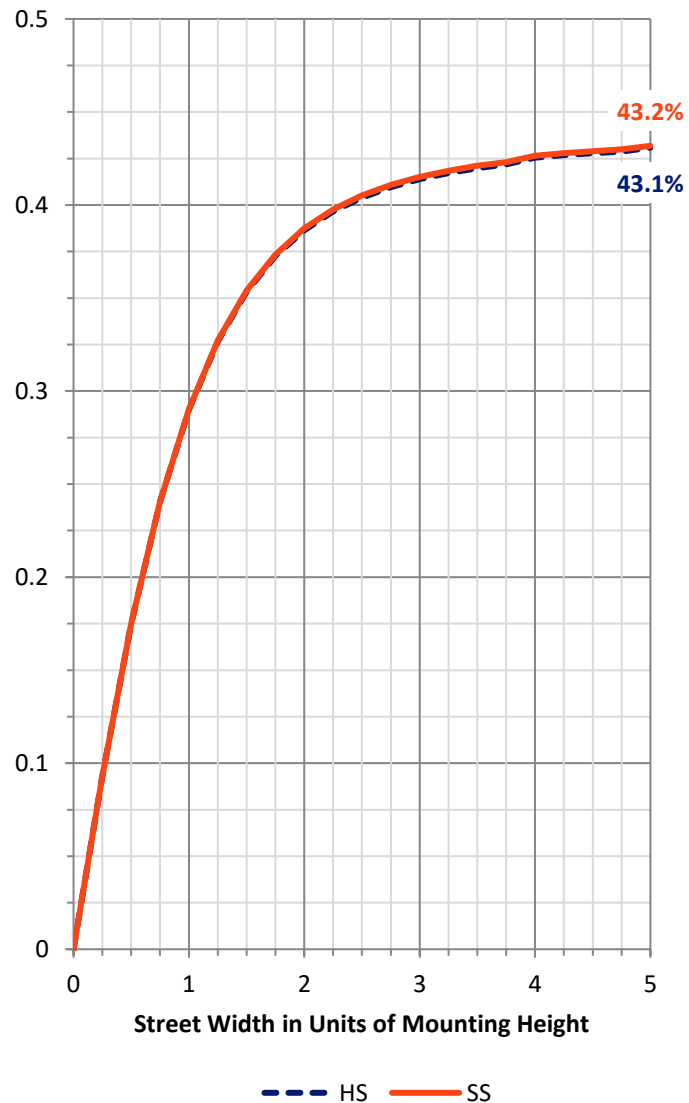
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2720.8	412.7	3133.4
	% Fixture	43.4	6.6	50.0
Street Side	Lumens	2720.8	412.7	3133.4
	% Fixture	43.4	6.6	50.0
Total	Lumens	5441.5	825.3	6266.9
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.1
10°-20°	377.1	6.0
20°-30°	599.9	9.6
30°-40°	793.4	12.7
40°-50°	968.1	15.4
50°-60°	1045.5	16.7
60°-70°	905.4	14.4
70°-80°	513.4	8.2
80°-90°	110.0	1.8
90°-100°	38.4	0.6
100°-110°	59.5	0.9
110°-120°	119.6	1.9
120°-130°	148.9	2.4
130°-140°	153.3	2.4
140°-150°	136.3	2.2
150°-160°	103.9	1.7
160°-170°	51.8	0.8
170°-180°	13.6	0.2
0°-90°	5441.5	86.8
0°-180°	6266.9	100.0

Coefficient of Utilization



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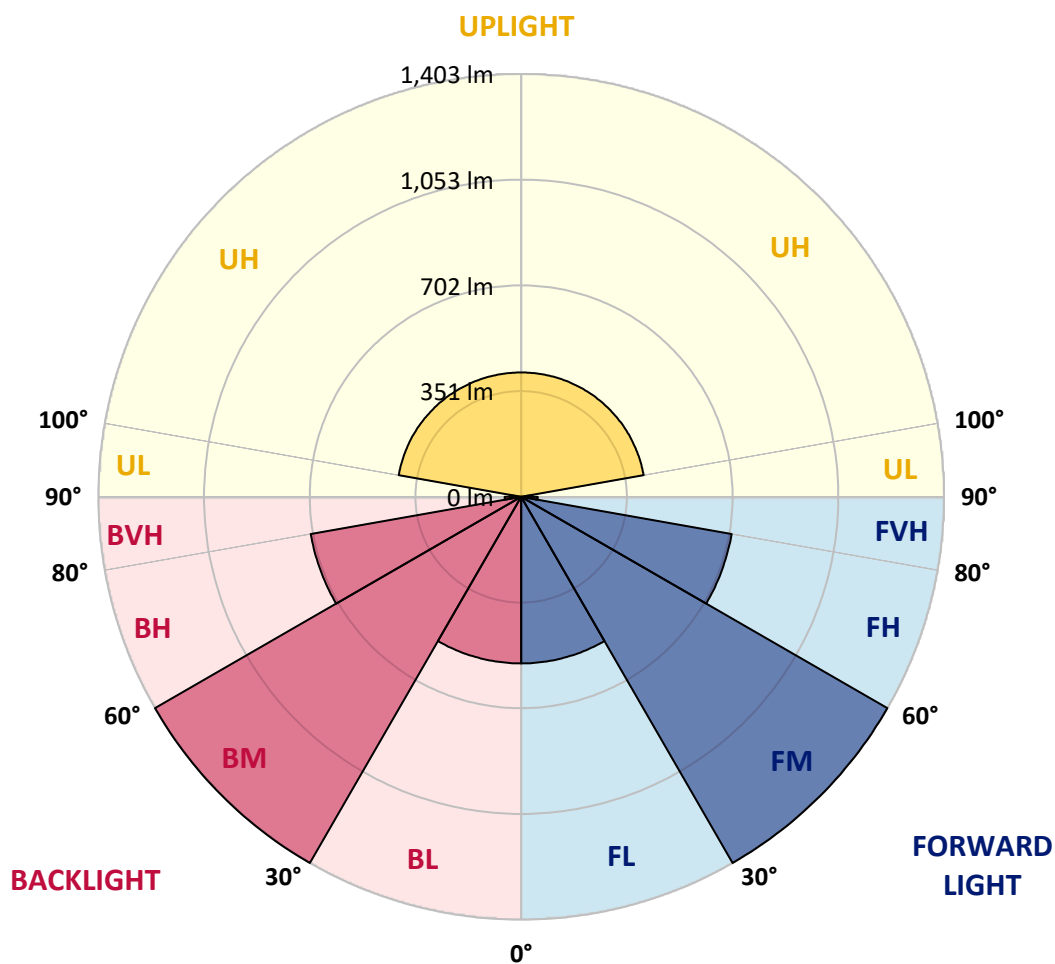
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.9	8.8			
FM	(30°-60°)	1403.5	22.4			
FH	(60°-80°)	709.4	11.3			G1/1800
FVH	(80°-90°)	55.0	0.9			G1/100
BL	(0°-30°)	552.9	8.8	B2/1000		
BM	(30°-60°)	1403.5	22.4	B2/2500		
BH	(60°-80°)	709.4	11.3	B2/1000		G1/1800
BVH	(80°-90°)	55.0	0.9			G1/100
UL	(90°-100°)	38.4	0.6		U2/50	
UH	(100°-180°)	412.7	6.6		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0
2.5°	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1
5°	1352.2	1352.2	1352.2	1352.2	1352.2	1352.2	1352.2	1352.2	1352.2	1352.2	1352.2
7.5°	1348.5	1348.5	1348.5	1348.5	1348.5	1349.4	1348.5	1348.5	1348.5	1348.5	1349.4
10°	1343.8	1343.8	1344.7	1344.7	1343.8	1343.8	1343.8	1343.8	1343.8	1343.8	1343.8
12.5°	1338.2	1338.2	1338.2	1338.2	1338.2	1338.2	1338.2	1338.2	1337.2	1337.2	1337.2
15°	1331.6	1331.6	1331.6	1332.5	1332.5	1332.5	1332.5	1331.6	1330.7	1329.7	1330.7
17.5°	1325.1	1325.1	1326.0	1326.9	1326.9	1326.9	1326.9	1325.1	1324.1	1323.2	1323.2
20°	1316.6	1317.6	1317.6	1318.5	1319.4	1319.4	1319.4	1318.5	1316.6	1314.8	1314.8
22.5°	1307.3	1308.2	1309.2	1310.1	1311.0	1310.1	1310.1	1309.2	1307.3	1306.3	1305.4
25°	1295.1	1295.1	1297.0	1298.9	1299.8	1299.8	1299.8	1297.9	1296.1	1295.1	1294.2
27.5°	1283.0	1283.0	1284.8	1287.6	1288.6	1289.5	1287.6	1286.7	1283.9	1282.0	1282.0
30°	1269.9	1269.9	1272.7	1276.4	1279.2	1280.1	1279.2	1275.5	1271.7	1269.9	1269.9
32.5°	1257.7	1258.6	1261.4	1267.0	1271.7	1273.6	1272.7	1268.0	1263.3	1259.6	1258.6
35°	1248.3	1249.3	1254.9	1261.4	1268.9	1271.7	1268.9	1264.2	1256.8	1251.1	1251.1
37.5°	1242.7	1242.7	1250.2	1261.4	1269.9	1273.6	1269.9	1263.3	1253.0	1245.5	1245.5
40°	1236.2	1238.0	1247.4	1261.4	1273.6	1279.2	1274.5	1265.2	1252.1	1242.7	1241.8
42.5°	1227.7	1230.5	1240.8	1259.6	1274.5	1283.0	1278.3	1267.0	1251.1	1240.8	1239.9
45°	1216.5	1217.4	1230.5	1253.0	1272.7	1283.9	1280.1	1266.1	1248.3	1236.2	1234.3
47.5°	1198.7	1200.6	1216.5	1242.7	1267.0	1279.2	1276.4	1260.5	1238.0	1224.0	1221.2
50°	1178.1	1180.0	1198.7	1228.7	1255.8	1269.9	1265.2	1245.5	1221.2	1202.5	1200.6
52.5°	1152.9	1156.6	1177.2	1210.9	1239.9	1253.0	1245.5	1220.3	1192.2	1171.6	1169.7
55°	1122.0	1125.7	1149.1	1184.7	1213.7	1224.0	1213.7	1183.8	1153.8	1130.4	1125.7
57.5°	1083.6	1086.4	1108.9	1146.3	1174.4	1182.8	1169.7	1138.8	1103.3	1078.0	1075.2
60°	1027.5	1031.2	1057.4	1092.1	1120.1	1130.4	1117.3	1079.9	1041.5	1016.3	1015.3
62.5°	960.1	966.7	989.1	1026.5	1051.8	1065.9	1048.1	1009.7	971.3	942.3	942.3
65°	878.7	883.4	907.7	944.2	968.5	980.7	962.9	927.4	885.2	860.0	857.2
67.5°	785.1	788.9	810.4	847.8	874.0	884.3	864.7	831.0	791.7	764.5	761.7
70°	681.2	686.9	702.8	737.4	760.8	766.4	751.4	719.6	684.1	659.7	657.9
72.5°	568.0	572.7	593.3	620.4	639.1	641.0	631.7	608.3	571.8	552.1	549.3
75°	452.0	459.5	477.2	500.6	514.7	514.7	509.1	492.2	460.4	445.4	445.4
77.5°	342.5	346.2	365.0	380.9	392.1	397.7	391.2	376.2	350.9	340.6	335.0
80°	238.6	242.4	250.8	263.0	274.2	277.9	270.4	258.3	244.2	236.8	233.0
82.5°	146.0	149.7	154.4	161.0	168.4	172.2	167.5	160.0	147.9	146.9	146.0
85°	70.2	72.1	75.8	77.7	81.4	82.3	83.3	79.5	75.8	71.1	73.0
87.5°	21.5	21.5	22.5	23.4	25.3	25.3	25.3	24.3	22.5	21.5	21.5
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)