

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: P197541

Luminaire Tested: **TT-C3-LED-E1-CQ-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
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-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5314.9 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 45
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



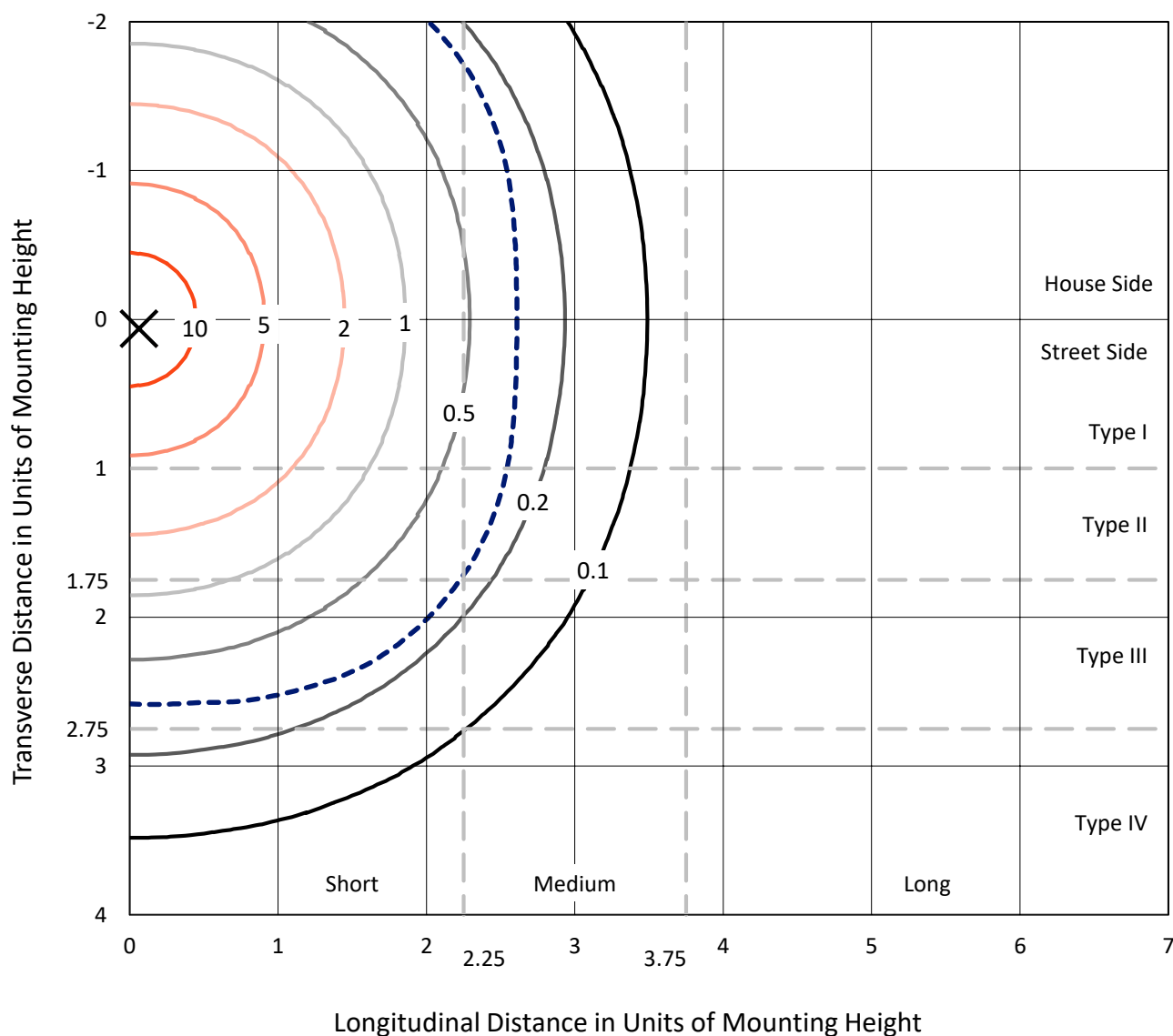
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

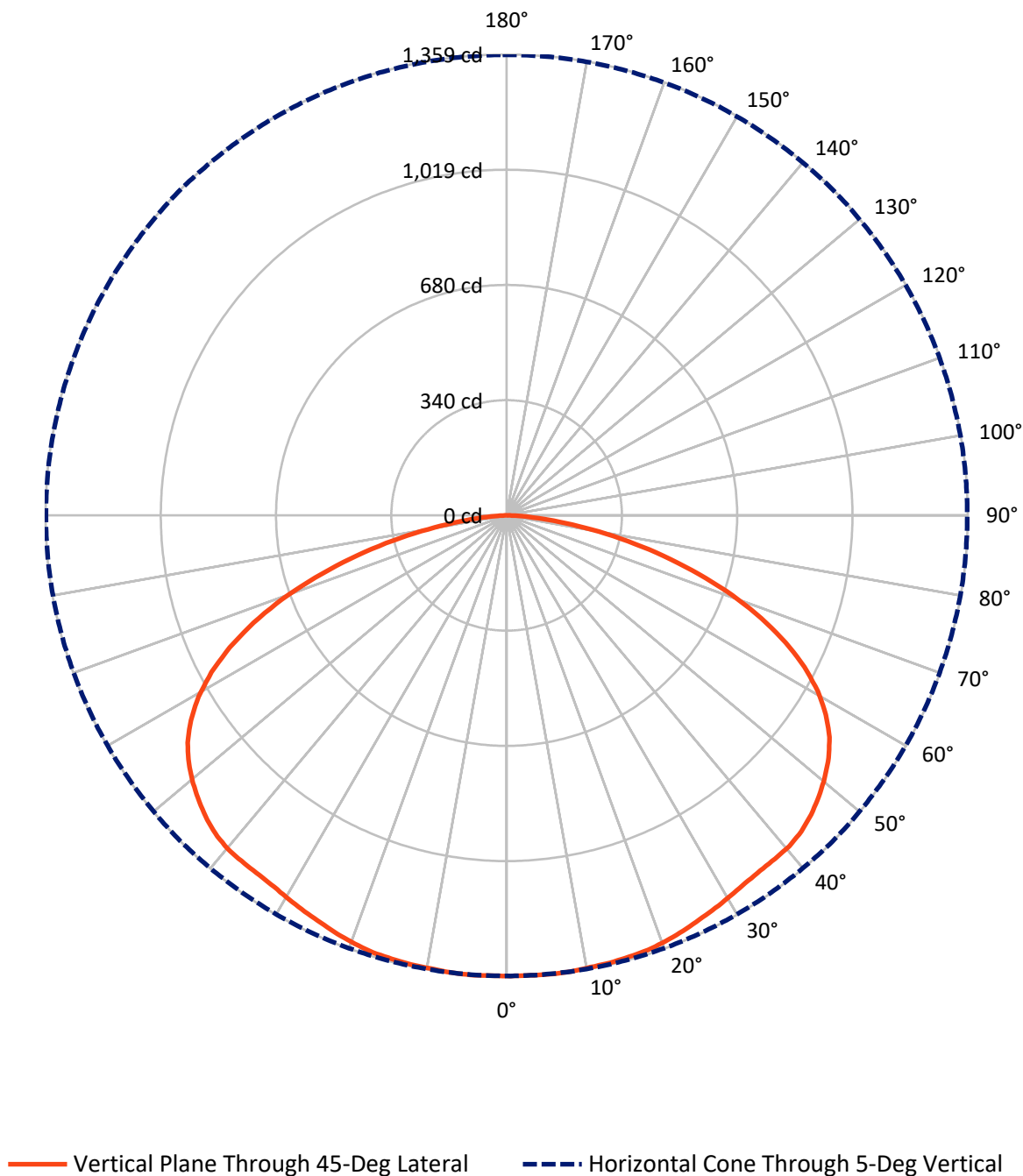


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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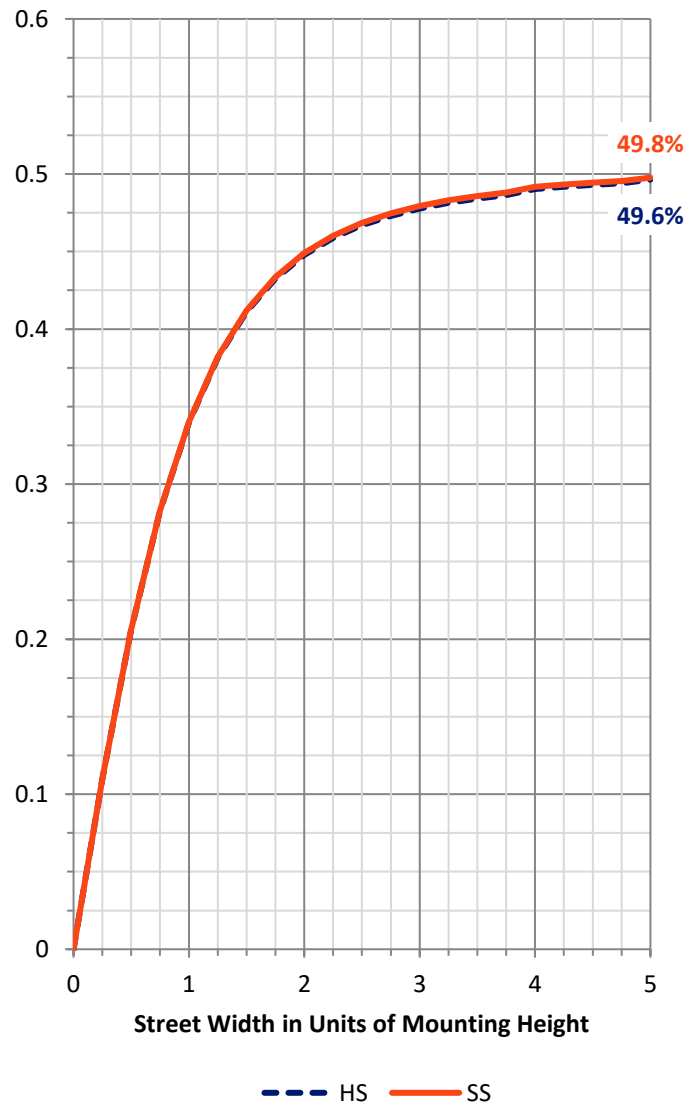
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2657.5	0.0	2657.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2657.5	0.0	2657.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5314.9	0.0	5314.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	2.4
10°-20°	382.0	7.2
20°-30°	609.6	11.5
30°-40°	803.0	15.1
40°-50°	955.2	18.0
50°-60°	999.7	18.8
60°-70°	850.1	16.0
70°-80°	483.1	9.1
80°-90°	102.7	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°	5314.9	100.0
0°-180°	5314.9	100.0

Coefficient of Utilization



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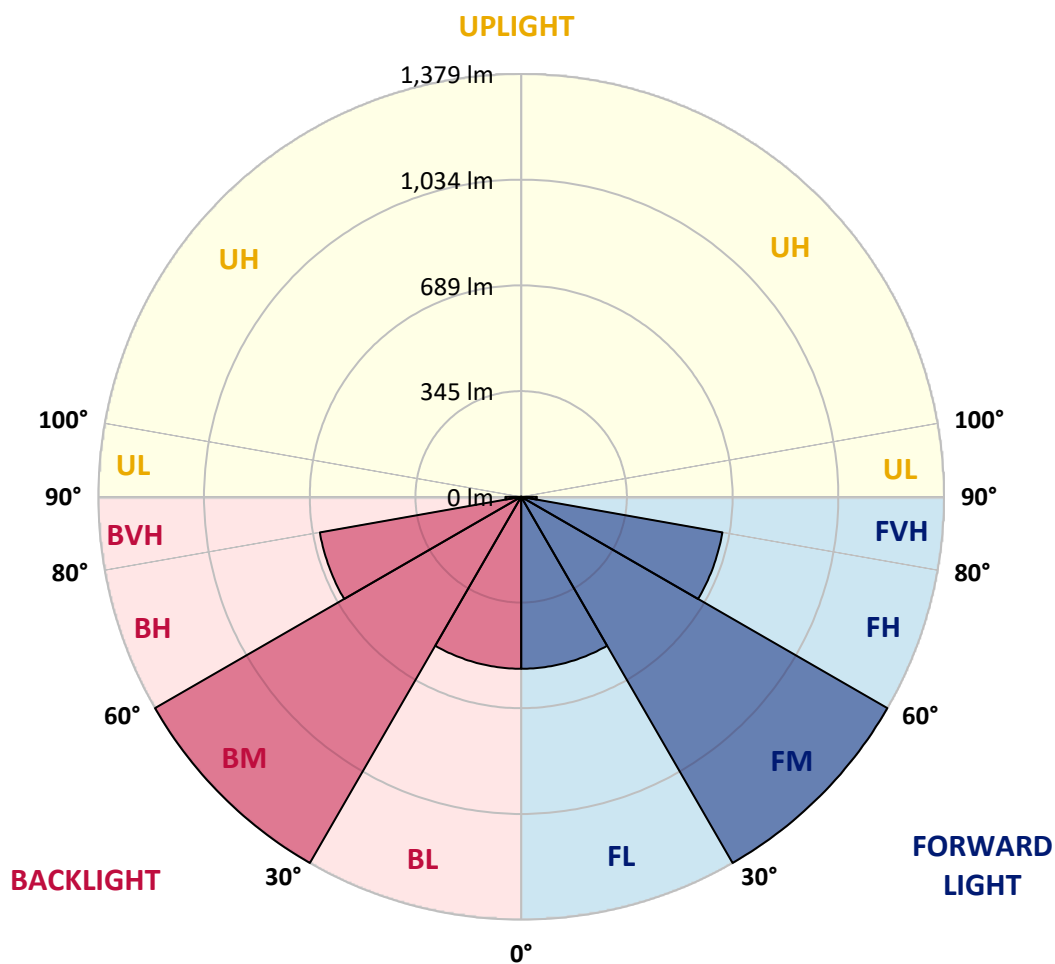
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.6	10.5			
FM	(30°-60°)	1378.9	25.9			
FH	(60°-80°)	666.6	12.5			G1/1800
FVH	(80°-90°)	51.4	1.0			G1/100
BL	(0°-30°)	560.6	10.5	B2/1000		
BM	(30°-60°)	1378.9	25.9	B2/2500		
BH	(60°-80°)	666.6	12.5	B2/1000		G1/1800
BVH	(80°-90°)	51.4	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9
2.5°	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9
5°	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1359.0	1357.9
7.5°	1356.9	1356.9	1356.9	1356.9	1357.9	1356.9	1356.9	1357.9	1357.9	1357.9	1357.9
10°	1354.8	1353.7	1353.7	1354.8	1354.8	1354.8	1354.8	1354.8	1355.8	1354.8	1354.8
12.5°	1351.6	1350.6	1351.6	1351.6	1351.6	1352.7	1352.7	1352.7	1353.7	1353.7	1352.7
15°	1348.5	1348.5	1348.5	1348.5	1348.5	1349.5	1349.5	1350.6	1350.6	1350.6	1350.6
17.5°	1344.3	1344.3	1344.3	1345.4	1345.4	1346.4	1346.4	1346.4	1347.4	1347.4	1347.4
20°	1337.0	1335.9	1337.0	1337.0	1338.0	1339.1	1339.1	1340.1	1340.1	1340.1	1340.1
22.5°	1326.5	1326.5	1327.5	1327.5	1328.6	1329.6	1329.6	1330.7	1330.7	1330.7	1330.7
25°	1316.0	1317.1	1317.1	1318.1	1318.1	1319.2	1320.2	1320.2	1320.2	1320.2	1320.2
27.5°	1305.5	1306.6	1306.6	1306.6	1307.6	1308.7	1309.7	1310.8	1311.8	1310.8	1310.8
30°	1294.0	1294.0	1295.1	1296.1	1297.2	1298.2	1300.3	1301.3	1302.4	1301.3	1301.3
32.5°	1281.4	1282.5	1283.5	1284.6	1286.7	1288.8	1290.9	1291.9	1293.0	1291.9	1291.9
35°	1272.0	1272.0	1274.1	1276.2	1278.3	1281.4	1283.5	1285.6	1287.7	1286.7	1285.6
37.5°	1262.6	1262.6	1264.7	1267.8	1272.0	1276.2	1280.4	1283.5	1284.6	1284.6	1283.5
40°	1251.1	1252.1	1254.2	1259.4	1265.7	1271.0	1276.2	1280.4	1282.5	1282.5	1280.4
42.5°	1238.5	1239.5	1242.7	1247.9	1255.2	1261.5	1267.8	1271.0	1274.1	1274.1	1272.0
45°	1220.7	1221.7	1225.9	1231.1	1238.5	1244.8	1252.1	1255.2	1259.4	1258.4	1257.3
47.5°	1197.6	1198.7	1202.9	1208.1	1215.4	1222.8	1230.1	1235.3	1238.5	1238.5	1237.4
50°	1169.3	1170.4	1174.6	1179.8	1189.2	1197.6	1205.0	1210.2	1215.4	1215.4	1214.4
52.5°	1133.7	1135.8	1138.9	1146.3	1156.8	1166.2	1175.6	1184.0	1187.1	1188.2	1187.1
55°	1089.7	1091.8	1096.0	1104.4	1115.9	1127.4	1137.9	1147.3	1151.5	1154.7	1152.6
57.5°	1038.4	1040.4	1045.7	1055.1	1067.7	1079.2	1092.8	1103.3	1106.5	1109.6	1108.6
60°	977.6	980.7	986.0	996.4	1009.0	1021.6	1034.2	1046.7	1049.9	1054.1	1052.0
62.5°	906.3	909.5	914.7	926.2	939.9	951.4	966.1	977.6	980.7	984.9	983.9
65°	824.6	827.7	833.0	845.6	858.1	870.7	884.3	896.9	900.0	904.2	903.2
67.5°	731.4	734.5	739.7	754.4	767.0	779.6	791.1	803.6	805.7	809.9	808.9
70°	632.9	637.1	641.2	654.9	666.4	676.9	689.4	699.9	704.1	706.2	704.1
72.5°	534.4	537.5	541.7	551.1	559.5	568.9	581.5	588.9	592.0	593.0	593.0
75°	432.7	435.9	435.9	446.4	452.6	457.9	468.4	473.6	475.7	477.8	477.8
77.5°	336.3	334.2	336.3	340.5	344.7	348.9	355.2	358.3	360.4	364.6	362.5
80°	235.8	236.8	237.8	241.0	243.1	244.1	248.3	249.4	250.4	254.6	252.5
82.5°	151.9	149.8	151.9	150.9	153.0	149.8	151.9	155.1	153.0	155.1	156.1
85°	79.6	76.5	76.5	77.5	78.6	76.5	77.5	76.5	76.5	78.6	77.5
87.5°	25.1	24.1	25.1	24.1	25.1	24.1	25.1	26.2	25.1	25.1	26.2
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°	60°	65°	70°	75°	80°	85°	90°
0°	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9
2.5°	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9
5°	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9
7.5°	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1355.8	1356.9
10°	1354.8	1354.8	1354.8	1354.8	1353.7	1353.7	1353.7	1353.7
12.5°	1352.7	1352.7	1351.6	1351.6	1351.6	1351.6	1350.6	1350.6
15°	1350.6	1349.5	1349.5	1348.5	1348.5	1348.5	1347.4	1348.5
17.5°	1347.4	1346.4	1346.4	1345.4	1345.4	1344.3	1344.3	1344.3
20°	1340.1	1339.1	1339.1	1338.0	1338.0	1337.0	1335.9	1335.9
22.5°	1329.6	1329.6	1329.6	1328.6	1327.5	1327.5	1326.5	1326.5
25°	1320.2	1319.2	1319.2	1318.1	1317.1	1317.1	1316.0	1316.0
27.5°	1310.8	1309.7	1308.7	1306.6	1306.6	1305.5	1304.5	1303.4
30°	1300.3	1298.2	1296.1	1295.1	1294.0	1291.9	1290.9	1289.8
32.5°	1289.8	1287.7	1285.6	1283.5	1280.4	1279.3	1277.2	1277.2
35°	1283.5	1280.4	1277.2	1273.1	1269.9	1266.8	1264.7	1263.6
37.5°	1280.4	1276.2	1271.0	1265.7	1260.5	1256.3	1253.1	1253.1
40°	1276.2	1271.0	1264.7	1257.3	1251.1	1245.8	1242.7	1241.6
42.5°	1267.8	1262.6	1254.2	1247.9	1239.5	1234.3	1230.1	1229.0
45°	1253.1	1247.9	1240.6	1232.2	1223.8	1217.5	1213.3	1212.3
47.5°	1234.3	1228.0	1219.6	1211.2	1202.9	1195.5	1191.3	1190.3
50°	1210.2	1203.9	1195.5	1187.1	1177.7	1170.4	1165.1	1165.1
52.5°	1182.9	1175.6	1166.2	1156.8	1146.3	1138.9	1133.7	1132.7
55°	1147.3	1138.9	1129.5	1119.0	1107.5	1099.1	1092.8	1091.8
57.5°	1103.3	1093.9	1083.4	1071.9	1060.4	1050.9	1043.6	1042.5
60°	1047.8	1037.3	1026.8	1015.3	1002.7	992.3	984.9	982.8
62.5°	979.7	968.2	956.6	946.1	932.5	922.0	914.7	912.6
65°	899.0	889.6	878.0	865.5	850.8	840.3	833.0	831.9
67.5°	804.7	795.3	783.7	772.2	757.5	748.1	740.8	738.7
70°	701.0	692.6	683.2	671.6	659.1	649.6	642.3	641.2
72.5°	590.9	583.6	575.2	566.9	554.3	546.9	540.7	539.6
75°	477.8	470.5	464.2	457.9	448.5	443.2	436.9	436.9
77.5°	362.5	360.4	356.2	348.9	343.7	339.5	336.3	334.2
80°	253.6	251.5	249.4	245.2	242.0	241.0	238.9	236.8
82.5°	155.1	154.0	155.1	153.0	151.9	151.9	150.9	148.8
85°	78.6	79.6	78.6	77.5	77.5	77.5	77.5	76.5
87.5°	25.1	26.2	25.1	24.1	24.1	24.1	24.1	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)