

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: P197878

Luminaire Tested: **TT-C3-LED-E1-WQ-SG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
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-WQ-SG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5065.7 lumens
Efficiency: N/A
Efficacy: 112.6 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

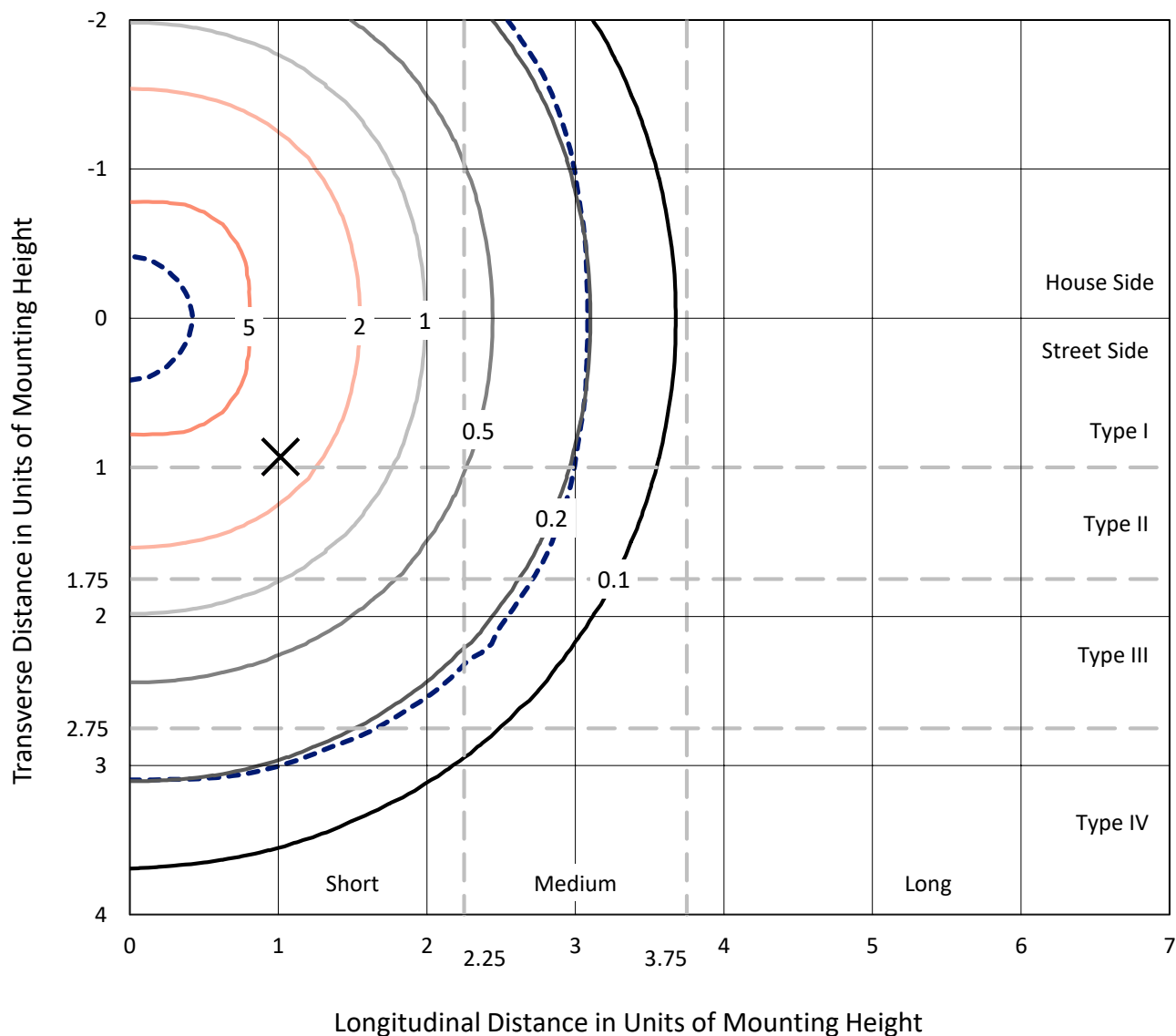


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

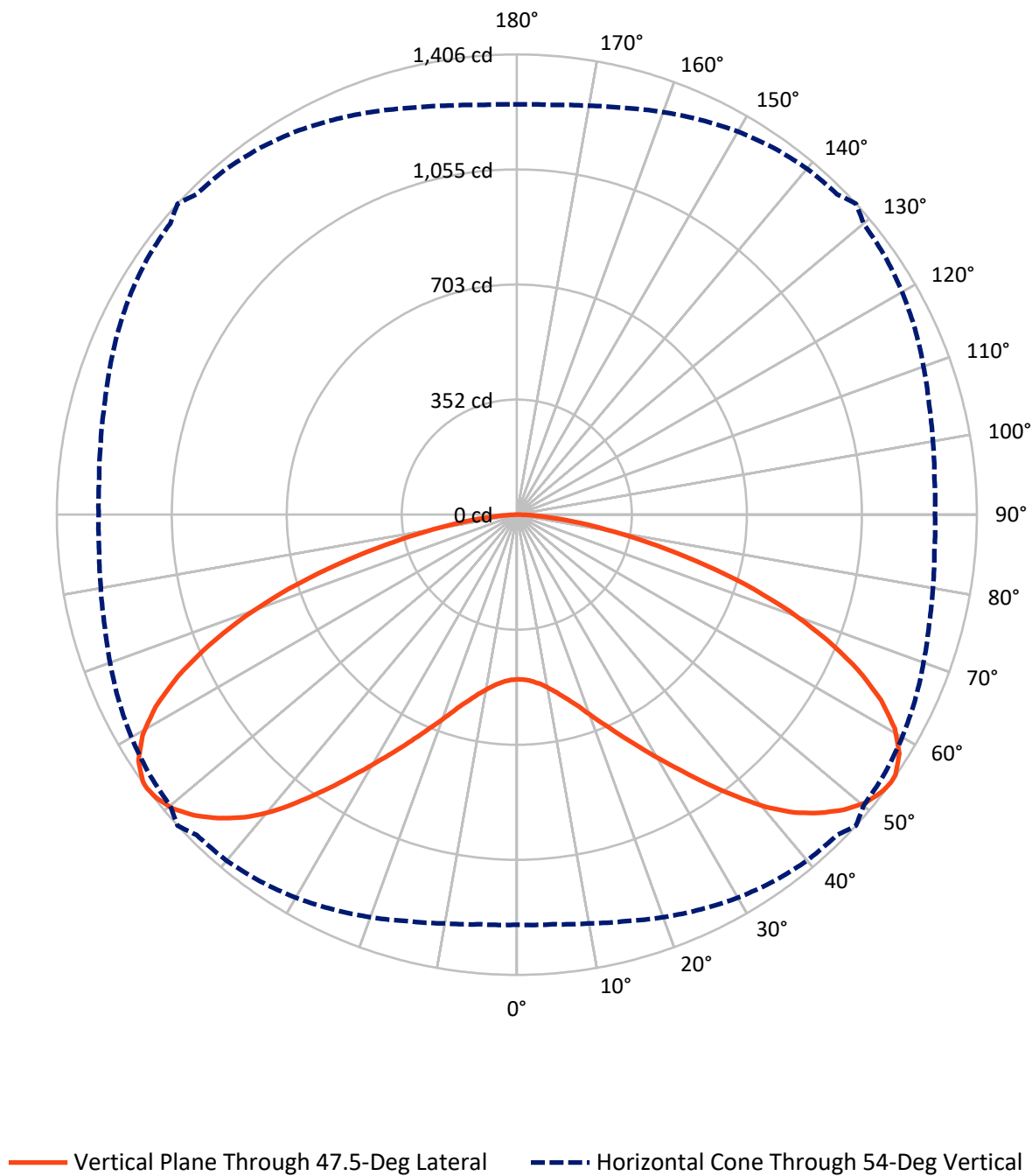


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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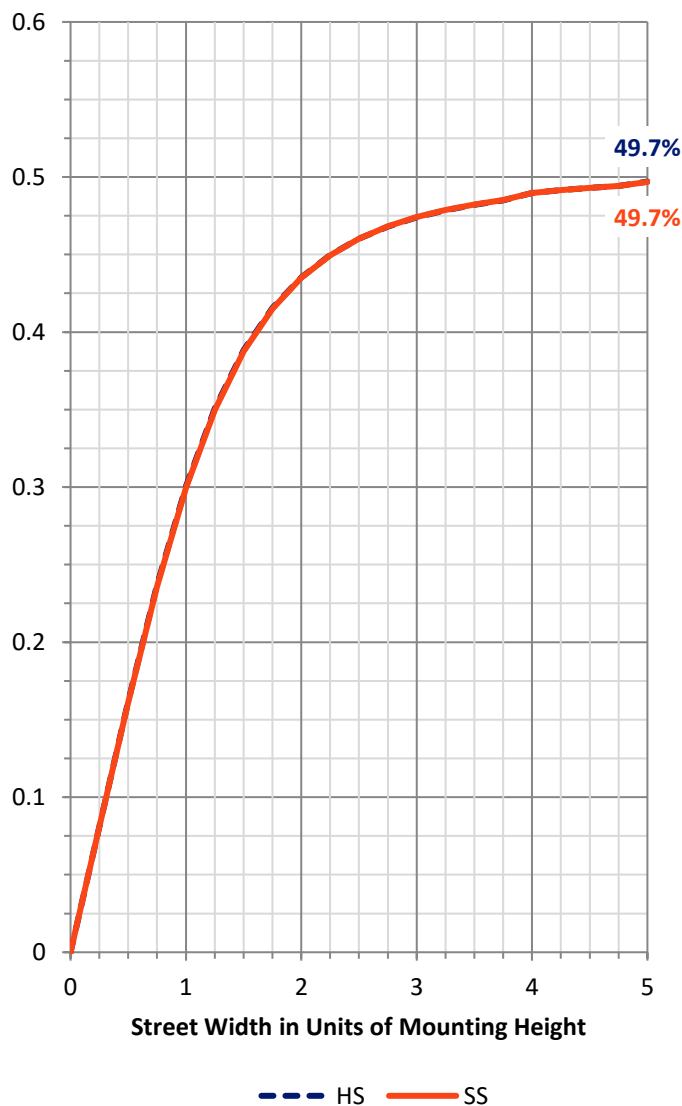
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2532.9	0.0	2532.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2532.9	0.0	2532.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5065.7	0.0	5065.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	1.0
10°-20°	168.3	3.3
20°-30°	346.6	6.8
30°-40°	619.8	12.2
40°-50°	951.0	18.8
50°-60°	1172.5	23.1
60°-70°	1060.8	20.9
70°-80°	584.1	11.5
80°-90°	113.0	2.2
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°	5065.7	100.0
0°-180°	5065.7	100.0

Coefficient of Utilization



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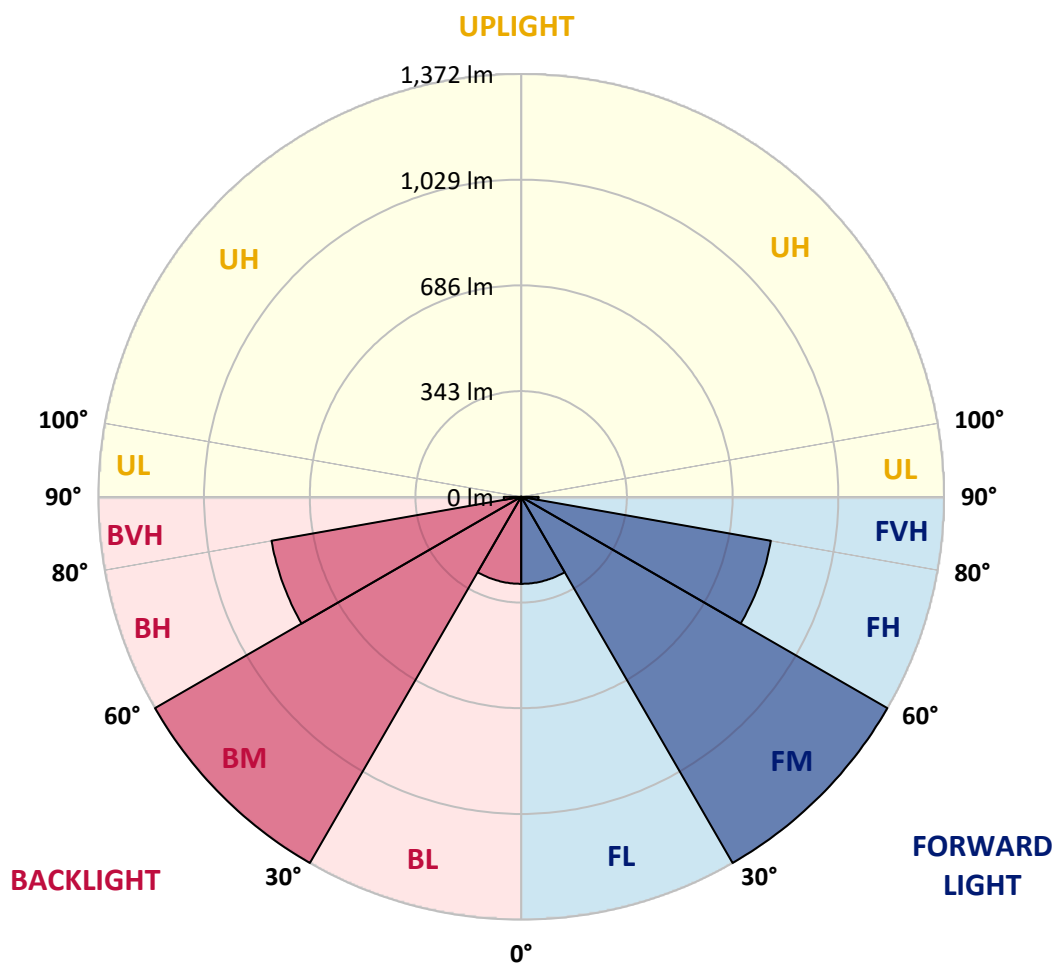
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.3	5.6			
FM	(30°-60°)	1371.7	27.1			
FH	(60°-80°)	822.4	16.2			G1/1800
FVH	(80°-90°)	56.5	1.1			G1/100
BL	(0°-30°)	282.3	5.6	B1/500		
BM	(30°-60°)	1371.7	27.1	B2/2500		
BH	(60°-80°)	822.4	16.2	B2/1000		G1/1800
BVH	(80°-90°)	56.5	1.1			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°	47.5°
0°	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0
2.5°	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2
5°	511.7	511.7	511.7	512.8	511.7	511.7	511.7	511.7	511.7	511.7	511.7
7.5°	522.7	522.7	522.7	522.7	522.7	522.7	521.6	521.6	522.7	521.6	522.7
10°	538.0	536.9	536.9	538.0	538.0	536.9	538.0	538.0	538.0	538.0	539.1
12.5°	557.7	557.7	558.8	558.8	558.8	559.9	559.9	558.8	559.9	559.9	559.9
15°	583.9	583.9	583.9	583.9	585.0	586.1	585.0	585.0	583.9	583.9	586.1
17.5°	614.5	614.5	614.5	614.5	616.7	616.7	615.6	616.7	617.8	617.8	616.7
20°	651.7	650.6	649.5	650.6	652.8	652.8	653.9	655.0	655.0	655.0	657.2
22.5°	691.1	690.0	692.2	693.3	694.4	695.4	695.4	696.5	698.7	697.6	700.9
25°	734.8	733.7	734.8	737.0	741.4	741.4	742.5	744.7	744.7	743.6	751.2
27.5°	784.0	784.0	785.1	789.5	790.6	791.7	795.0	797.1	800.4	800.4	807.0
30°	837.6	836.5	838.7	843.1	846.3	849.6	854.0	859.5	860.6	861.7	868.2
32.5°	892.3	892.3	894.5	902.1	907.6	913.0	919.6	925.1	927.3	927.3	937.1
35°	950.2	951.3	956.8	962.3	973.2	979.7	986.3	994.0	998.3	1000.5	1013.6
37.5°	1011.5	1014.7	1019.1	1026.8	1037.7	1048.6	1058.5	1070.5	1077.1	1079.3	1093.5
40°	1069.4	1073.8	1080.3	1091.3	1102.2	1117.5	1129.6	1141.6	1149.2	1153.6	1175.5
42.5°	1126.3	1128.5	1136.1	1148.1	1162.4	1176.6	1193.0	1206.1	1213.7	1220.3	1244.4
45°	1171.1	1173.3	1183.1	1197.3	1213.7	1231.2	1247.6	1263.0	1270.6	1276.1	1300.1
47.5°	1208.3	1212.7	1223.6	1237.8	1254.2	1275.0	1293.6	1308.9	1318.7	1322.0	1347.2
50°	1235.6	1242.2	1252.0	1268.4	1288.1	1308.9	1328.6	1345.0	1355.9	1360.3	1383.2
52.5°	1250.9	1256.4	1267.3	1283.7	1306.7	1327.5	1348.2	1364.6	1376.7	1381.0	1401.8
54°	1253.1	1256.4	1268.4	1285.9	1308.9	1330.7	1351.5	1367.9	1380.0	1384.3	1406.2
55°	1250.9	1253.1	1266.2	1282.6	1306.7	1328.6	1349.3	1365.7	1378.9	1383.2	1404.0
57.5°	1229.1	1232.3	1243.3	1260.8	1282.6	1307.8	1327.5	1343.9	1357.0	1359.2	1378.9
60°	1184.2	1188.6	1198.4	1217.0	1238.9	1260.8	1280.4	1294.7	1306.7	1313.3	1327.5
62.5°	1119.7	1121.9	1131.7	1148.1	1167.8	1190.8	1206.1	1220.3	1231.2	1237.8	1249.8
65°	1027.9	1037.7	1045.4	1058.5	1073.8	1092.4	1112.1	1123.0	1128.5	1139.4	1148.1
67.5°	925.1	931.6	939.3	951.3	961.2	973.2	991.8	1001.6	1008.2	1015.8	1023.5
70°	810.3	808.1	816.8	823.4	834.3	842.0	854.0	859.5	867.1	871.5	884.6
72.5°	673.6	676.9	684.5	692.2	695.4	697.6	707.5	710.8	717.3	715.1	731.5
75°	550.0	544.5	546.7	547.8	550.0	547.8	554.4	557.7	560.9	557.7	566.4
77.5°	415.5	409.0	411.1	410.0	410.0	407.9	406.8	406.8	407.9	405.7	411.1
80°	286.5	283.2	284.3	286.5	281.0	282.1	275.6	275.6	275.6	275.6	277.7
82.5°	177.1	172.8	171.7	172.8	172.8	169.5	170.6	166.2	165.1	164.0	173.9
85°	86.4	84.2	86.4	84.2	83.1	83.1	80.9	82.0	79.8	78.7	85.3
87.5°	23.0	21.9	21.9	21.9	20.8	21.9	21.9	21.9	21.9	23.0	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0	503.0
2.5°	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2	504.1
5°	511.7	511.7	511.7	511.7	511.7	511.7	511.7	511.7	511.7
7.5°	522.7	522.7	521.6	521.6	521.6	521.6	521.6	521.6	521.6
10°	538.0	539.1	536.9	536.9	538.0	536.9	536.9	535.8	535.8
12.5°	559.9	558.8	559.9	559.9	558.8	557.7	556.6	555.5	556.6
15°	585.0	583.9	583.9	583.9	582.8	582.8	581.7	582.8	581.7
17.5°	615.6	615.6	616.7	613.4	614.5	612.3	612.3	612.3	611.2
20°	655.0	653.9	652.8	649.5	650.6	648.4	647.3	646.2	645.1
22.5°	697.6	695.4	694.4	691.1	692.2	690.0	686.7	684.5	684.5
25°	744.7	742.5	740.3	739.2	738.1	733.7	731.5	728.2	730.4
27.5°	800.4	796.0	792.8	788.4	789.5	784.0	781.8	779.6	779.6
30°	860.6	857.3	851.8	848.5	847.4	842.0	837.6	835.4	834.3
32.5°	926.2	924.0	920.7	915.2	913.0	904.3	901.0	897.7	896.6
35°	1003.8	998.3	995.1	987.4	979.7	974.3	966.6	964.4	962.3
37.5°	1076.0	1076.0	1070.5	1061.8	1050.8	1043.2	1036.6	1032.2	1029.0
40°	1152.5	1150.3	1141.6	1133.9	1123.0	1112.1	1100.0	1095.7	1093.5
42.5°	1220.3	1215.9	1207.2	1197.3	1186.4	1173.3	1160.2	1153.6	1152.5
45°	1277.2	1271.7	1263.0	1249.8	1235.6	1222.5	1210.5	1203.9	1200.6
47.5°	1323.1	1316.5	1305.6	1293.6	1277.2	1261.9	1249.8	1243.3	1238.9
50°	1357.0	1351.5	1339.5	1324.2	1307.8	1290.3	1278.3	1270.6	1267.3
52.5°	1378.9	1371.2	1358.1	1341.7	1323.1	1305.6	1291.4	1282.6	1279.4
54°	1383.2	1374.5	1360.3	1342.8	1323.1	1304.5	1291.4	1281.5	1278.3
55°	1381.0	1372.3	1357.0	1340.6	1319.8	1301.2	1287.0	1277.2	1273.9
57.5°	1358.1	1348.2	1334.0	1316.5	1294.7	1276.1	1263.0	1252.0	1248.7
60°	1308.9	1300.1	1283.7	1268.4	1246.6	1228.0	1213.7	1202.8	1199.5
62.5°	1233.4	1225.8	1211.6	1196.3	1173.3	1156.9	1142.7	1136.1	1127.4
65°	1132.8	1127.4	1113.1	1094.6	1078.2	1061.8	1047.5	1043.2	1037.7
67.5°	1012.5	1004.9	999.4	980.8	967.7	952.4	938.2	929.4	927.3
70°	870.4	867.1	861.7	844.2	836.5	823.4	813.5	805.9	803.7
72.5°	717.3	714.0	712.9	704.2	694.4	682.3	677.9	671.4	670.3
75°	557.7	555.5	557.7	551.1	547.8	544.5	542.4	542.4	539.1
77.5°	403.5	406.8	407.9	407.9	410.0	410.0	412.2	409.0	405.7
80°	274.5	277.7	276.6	278.8	277.7	285.4	279.9	284.3	279.9
82.5°	165.1	169.5	169.5	169.5	173.9	172.8	172.8	175.0	173.9
85°	80.9	82.0	80.9	79.8	85.3	84.2	84.2	83.1	84.2
87.5°	24.1	21.9	23.0	20.8	23.0	19.7	21.9	21.9	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)