

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: P197614

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115333)
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-MQ-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6118.9 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

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



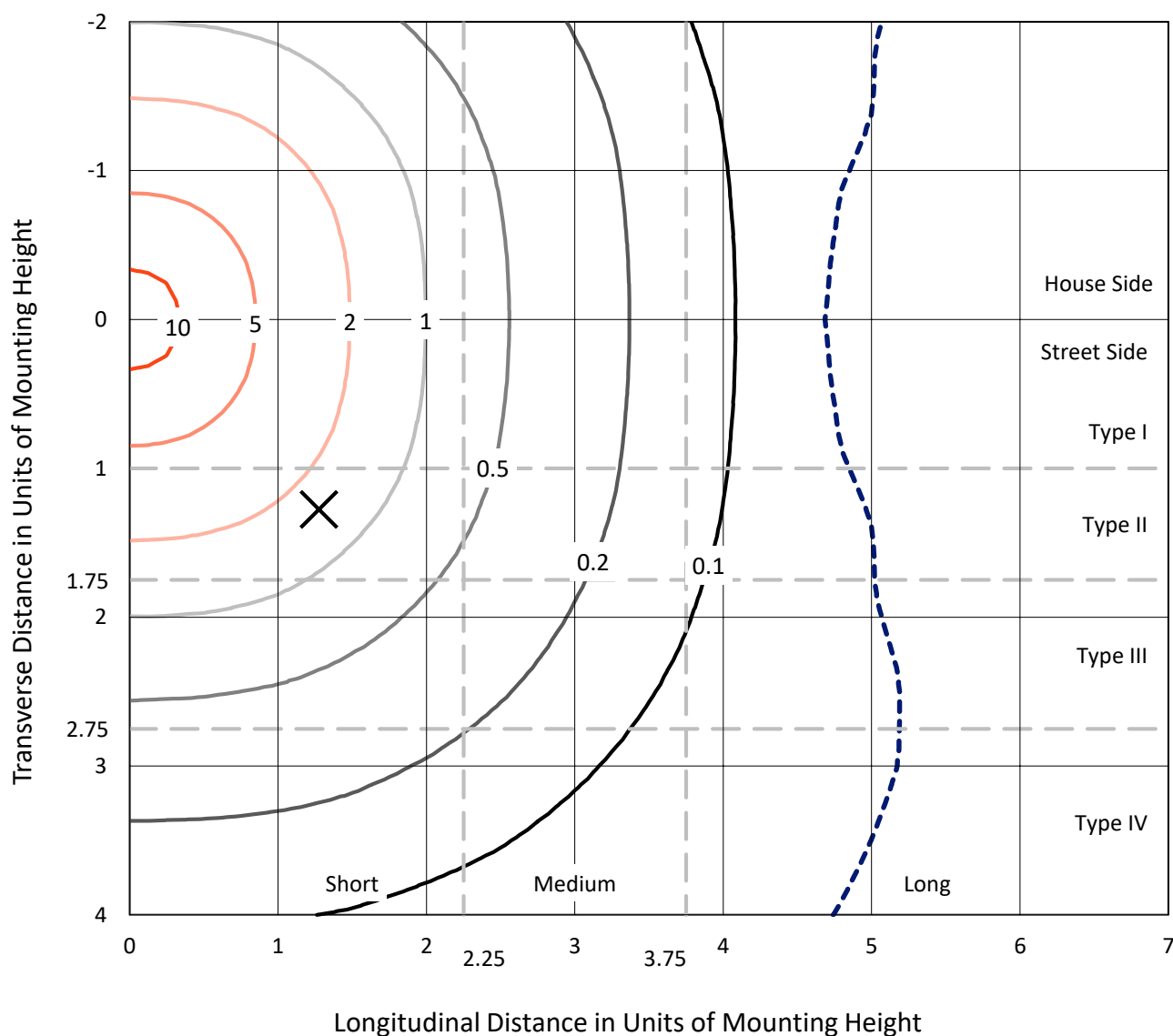
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

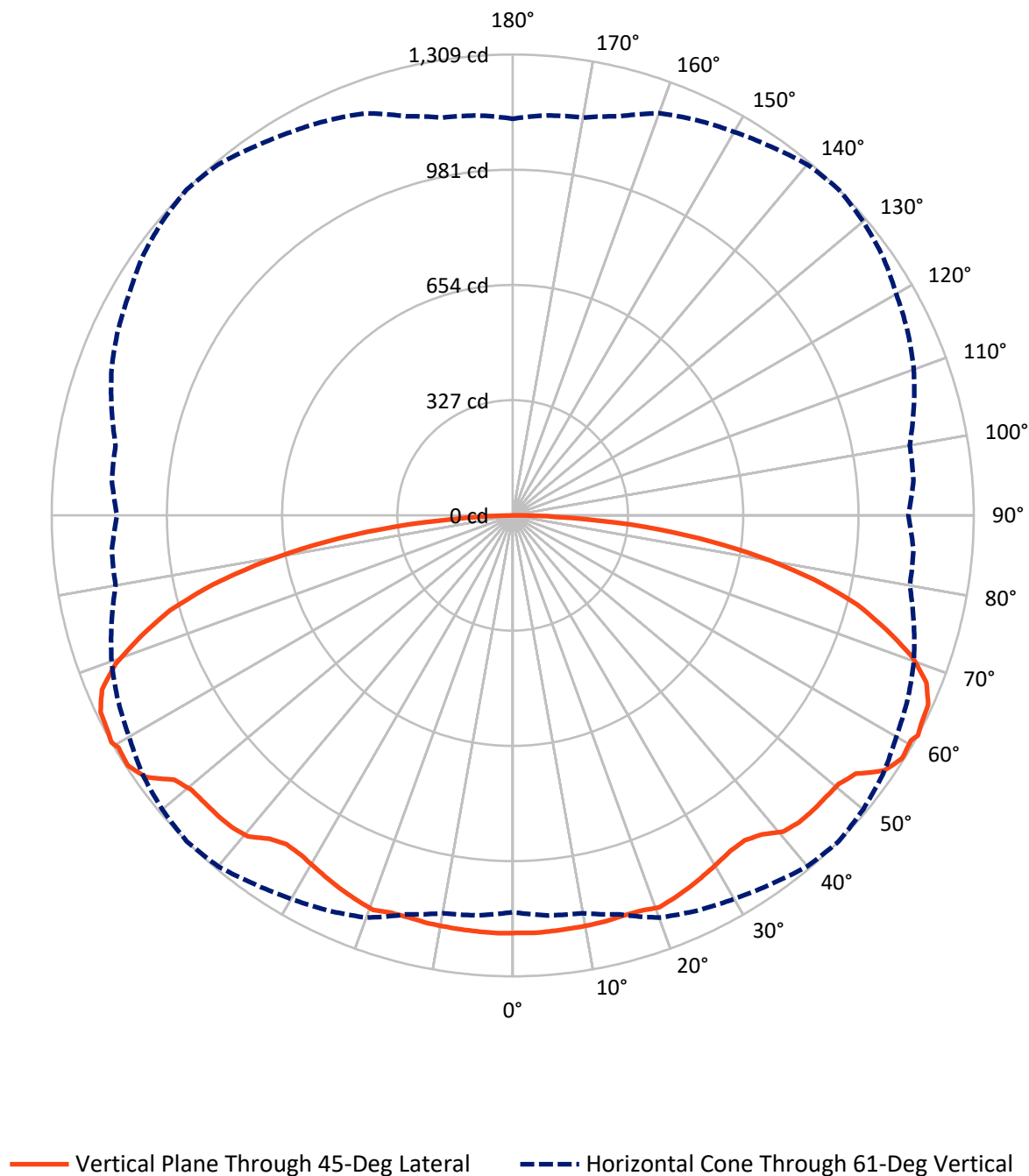


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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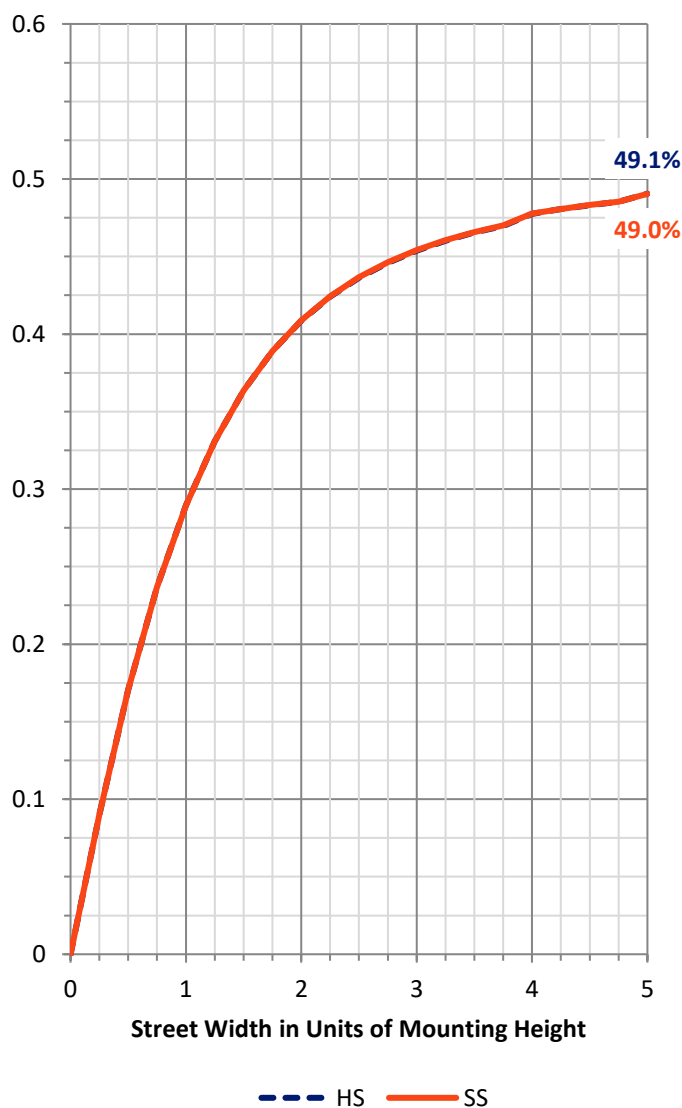
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3059.4	0.0	3059.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3059.4	0.0	3059.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	6118.9	0.0	6118.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.8
10°-20°	334.4	5.5
20°-30°	538.0	8.8
30°-40°	712.7	11.6
40°-50°	900.0	14.7
50°-60°	1078.4	17.6
60°-70°	1179.1	19.3
70°-80°	943.9	15.4
80°-90°	319.3	5.2
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°	6118.9	100.0
0°-180°	6118.9	100.0

Coefficient of Utilization



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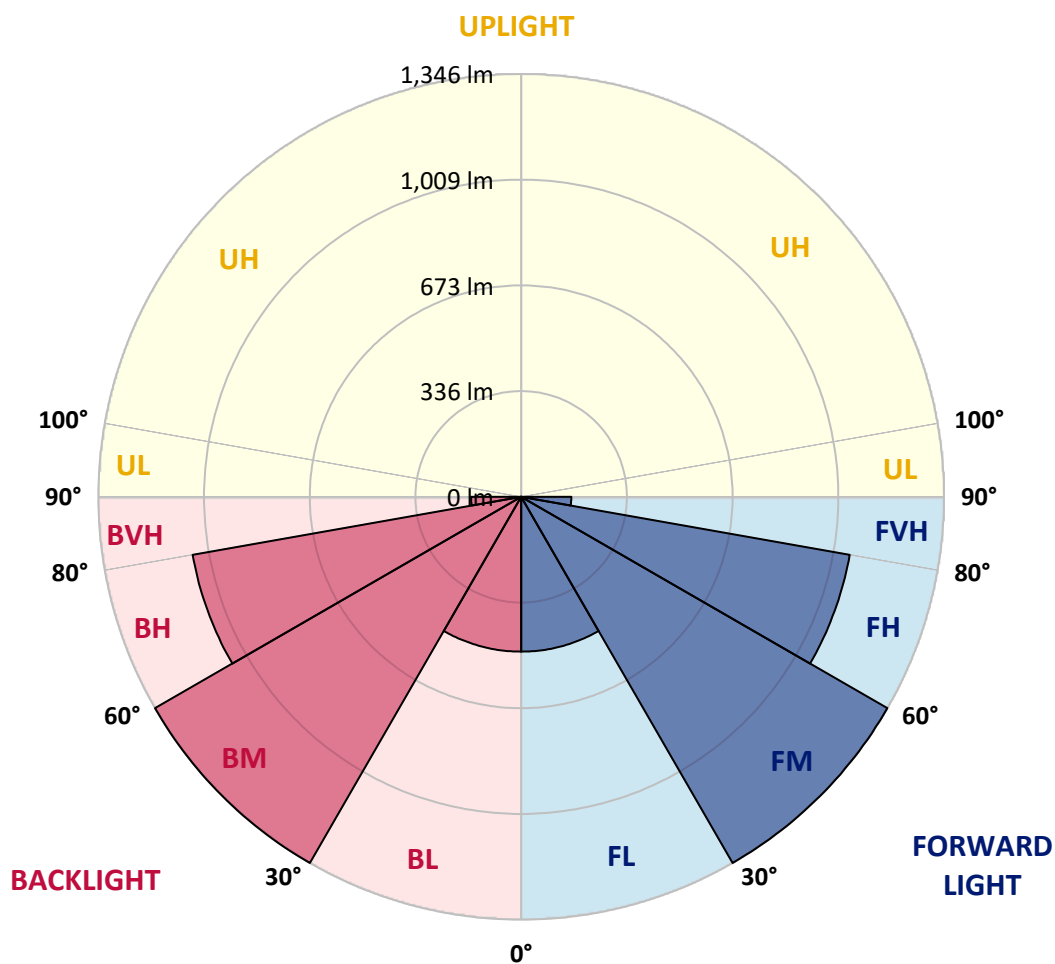
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	492.7	8.1			
FM	(30°-60°)	1345.5	22.0			
FH	(60°-80°)	1061.5	17.3			G1/1800
FVH	(80°-90°)	159.7	2.6			G2/225
BL	(0°-30°)	492.7	8.1	B1/500		
BM	(30°-60°)	1345.5	22.0	B2/2500		
BH	(60°-80°)	1061.5	17.3	B3/2500		G1/1800
BVH	(80°-90°)	159.7	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
2.5°	1186.7	1185.5	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7
5°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
7.5°	1184.4	1184.4	1184.4	1184.4	1184.4	1184.4	1184.4	1184.4	1185.5	1184.4	1185.5
10°	1182.1	1182.1	1182.1	1182.1	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2
12.5°	1179.8	1179.8	1179.8	1179.8	1181.0	1181.0	1181.0	1181.0	1182.1	1182.1	1181.0
15°	1177.5	1176.4	1176.4	1177.5	1177.5	1178.6	1178.6	1178.6	1179.8	1178.6	1178.6
17.5°	1175.3	1174.1	1175.3	1176.4	1176.4	1177.5	1178.6	1178.6	1179.8	1179.8	1179.8
20°	1178.6	1177.5	1178.6	1179.8	1181.0	1183.2	1184.4	1185.5	1186.7	1187.7	1187.7
22.5°	1171.9	1170.7	1171.9	1171.9	1172.9	1174.1	1176.4	1177.5	1178.6	1178.6	1178.6
25°	1161.6	1161.6	1162.7	1162.7	1163.8	1165.0	1166.2	1167.2	1167.2	1168.4	1167.2
27.5°	1150.2	1150.2	1151.4	1151.4	1153.6	1153.6	1154.7	1155.9	1157.0	1157.0	1157.0
30°	1136.4	1136.4	1137.6	1138.8	1141.1	1142.1	1143.3	1144.5	1145.6	1145.6	1145.6
32.5°	1124.0	1122.8	1124.0	1126.2	1129.7	1131.9	1134.2	1135.4	1135.4	1135.4	1136.4
35°	1113.7	1114.9	1117.1	1119.4	1124.0	1126.2	1128.5	1131.9	1133.1	1133.1	1133.1
37.5°	1115.9	1117.1	1120.6	1125.1	1130.8	1137.6	1142.1	1146.7	1150.2	1149.0	1147.9
40°	1130.8	1133.1	1138.8	1145.6	1154.7	1163.8	1170.7	1176.4	1179.8	1181.0	1179.8
42.5°	1133.1	1135.4	1139.9	1150.2	1160.5	1170.7	1179.8	1185.5	1190.1	1191.2	1190.1
45°	1131.9	1131.9	1138.8	1150.2	1160.5	1170.7	1182.1	1190.1	1194.6	1194.6	1194.6
47.5°	1124.0	1127.3	1131.9	1143.3	1157.0	1167.2	1178.6	1186.7	1192.3	1195.8	1192.3
50°	1124.0	1124.0	1131.9	1139.9	1152.4	1170.7	1186.7	1194.6	1200.3	1199.2	1200.3
52.5°	1121.6	1128.5	1133.1	1144.5	1167.2	1185.5	1198.0	1209.4	1217.5	1218.5	1216.3
55°	1142.1	1143.3	1153.6	1175.3	1196.9	1217.5	1240.2	1257.3	1271.0	1279.0	1267.6
57.5°	1158.1	1152.4	1172.9	1191.2	1216.3	1247.1	1281.2	1294.9	1305.1	1302.9	1306.3
60°	1136.4	1144.5	1159.3	1178.6	1218.5	1249.3	1267.6	1282.4	1294.9	1298.4	1293.8
61°	1126.2	1139.9	1146.7	1172.9	1215.1	1238.0	1257.3	1277.9	1300.6	1308.6	1298.4
62.5°	1109.2	1130.8	1128.5	1170.7	1196.9	1223.1	1259.6	1283.6	1299.5	1301.8	1299.5
65°	1110.3	1106.8	1133.1	1163.8	1190.1	1236.8	1267.6	1282.4	1291.5	1296.0	1293.8
67.5°	1073.8	1062.4	1094.3	1115.9	1160.5	1196.9	1226.6	1248.2	1261.9	1266.4	1260.7
70°	989.4	997.5	1020.2	1053.3	1089.8	1134.2	1161.6	1190.1	1201.5	1202.5	1202.5
72.5°	908.5	913.0	935.9	966.7	1008.8	1047.6	1074.9	1097.7	1108.0	1109.2	1111.4
75°	801.3	805.9	832.1	860.6	902.8	935.9	955.2	982.6	997.5	1009.9	999.7
77.5°	677.1	685.1	705.6	736.4	775.1	793.4	827.6	859.5	869.8	873.2	869.8
80°	536.9	547.2	565.4	606.4	623.5	653.2	686.3	699.9	709.0	711.3	712.4
82.5°	386.4	394.4	413.8	442.2	461.7	485.6	508.3	525.5	535.7	533.5	532.4
85°	227.9	230.3	250.8	270.1	285.0	299.8	318.1	330.5	332.9	337.4	336.3
87.5°	68.4	69.5	78.7	89.0	95.7	102.6	114.0	128.8	132.2	123.1	124.3
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°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
2.5°	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1185.5	1186.7
5°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
7.5°	1185.5	1184.4	1184.4	1184.4	1184.4	1184.4	1184.4	1184.4
10°	1183.2	1183.2	1183.2	1183.2	1182.1	1182.1	1182.1	1182.1
12.5°	1181.0	1181.0	1181.0	1181.0	1179.8	1179.8	1179.8	1179.8
15°	1178.6	1178.6	1178.6	1178.6	1177.5	1177.5	1177.5	1177.5
17.5°	1179.8	1178.6	1177.5	1177.5	1176.4	1175.3	1175.3	1175.3
20°	1186.7	1185.5	1183.2	1181.0	1179.8	1178.6	1178.6	1178.6
22.5°	1177.5	1176.4	1174.1	1172.9	1172.9	1171.9	1170.7	1170.7
25°	1167.2	1165.0	1165.0	1163.8	1163.8	1161.6	1161.6	1160.5
27.5°	1155.9	1154.7	1153.6	1152.4	1152.4	1151.4	1150.2	1149.0
30°	1145.6	1143.3	1141.1	1139.9	1138.8	1137.6	1137.6	1137.6
32.5°	1135.4	1133.1	1131.9	1128.5	1126.2	1125.1	1124.0	1124.0
35°	1131.9	1128.5	1126.2	1122.8	1119.4	1117.1	1115.9	1113.7
37.5°	1145.6	1141.1	1137.6	1131.9	1124.0	1120.6	1117.1	1115.9
40°	1175.3	1170.7	1163.8	1154.7	1145.6	1138.8	1133.1	1130.8
42.5°	1185.5	1179.8	1170.7	1161.6	1150.2	1139.9	1135.4	1133.1
45°	1188.9	1183.2	1170.7	1159.3	1149.0	1139.9	1133.1	1130.8
47.5°	1185.5	1177.5	1166.2	1157.0	1142.1	1130.8	1126.2	1122.8
50°	1193.4	1186.7	1171.9	1151.4	1138.8	1131.9	1124.0	1122.8
52.5°	1209.4	1196.9	1183.2	1168.4	1144.5	1130.8	1126.2	1120.6
55°	1257.3	1240.2	1216.3	1192.3	1177.5	1155.9	1142.1	1142.1
57.5°	1293.8	1280.1	1249.3	1217.5	1190.1	1174.1	1153.6	1154.7
60°	1283.6	1265.3	1250.5	1218.5	1179.8	1158.1	1150.2	1135.4
61°	1282.4	1257.3	1236.8	1211.8	1178.6	1144.5	1142.1	1122.8
62.5°	1284.6	1261.9	1223.1	1196.9	1171.9	1127.3	1126.2	1108.0
65°	1282.4	1260.7	1241.4	1192.3	1158.1	1139.9	1101.1	1115.9
67.5°	1247.1	1227.7	1192.3	1165.0	1112.5	1089.8	1068.1	1068.1
70°	1191.2	1162.7	1128.5	1094.3	1059.0	1020.2	1000.8	989.4
72.5°	1097.7	1073.8	1046.4	1009.9	966.7	931.3	913.0	905.1
75°	980.3	954.1	930.2	902.8	857.2	827.6	808.2	802.5
77.5°	857.2	834.5	792.3	766.0	735.2	701.1	683.9	677.1
80°	699.9	687.3	657.7	615.5	600.7	558.6	547.2	536.9
82.5°	525.5	511.8	484.4	454.8	436.6	412.6	392.1	389.9
85°	330.5	321.4	304.3	282.7	259.9	246.2	227.9	232.5
87.5°	123.1	117.4	107.1	93.5	83.2	74.0	64.9	68.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)