

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: P197692

Luminaire Tested: **TT-C4-LED-E1-MQ-CG-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115363)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-MQ-CG-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6323.9 lumens
Efficiency: N/A
Efficacy: 109.0 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): 58
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



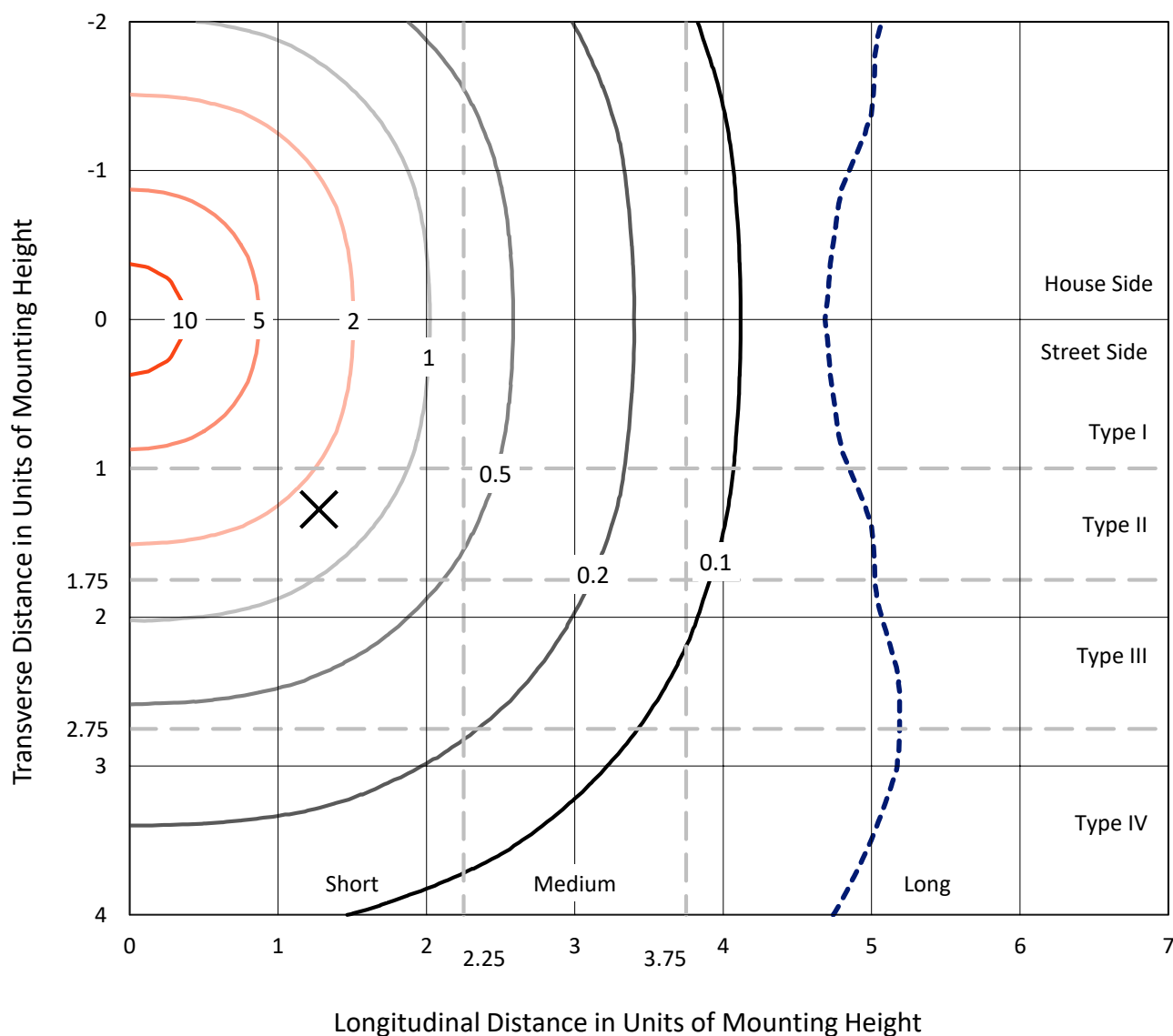
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

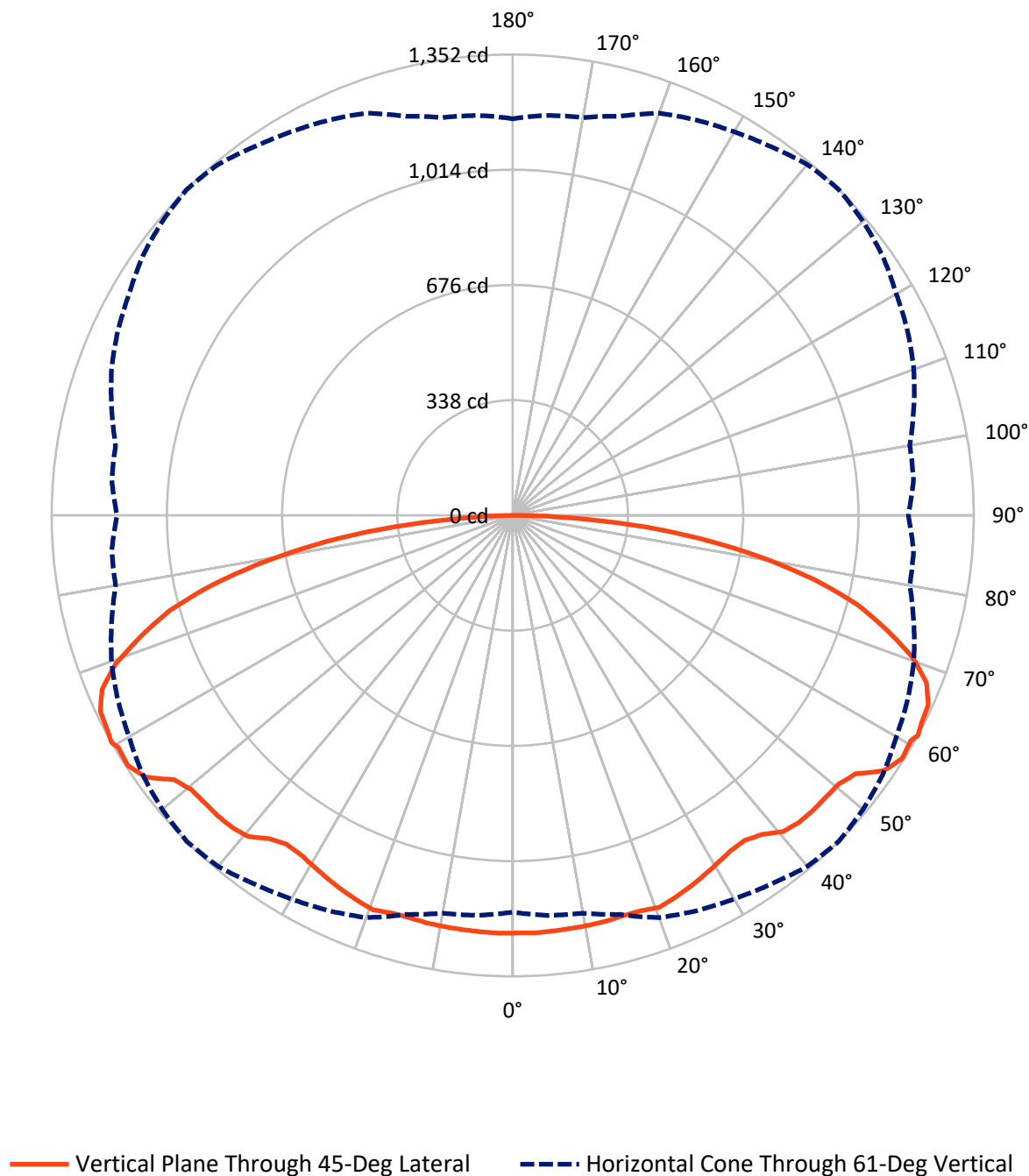


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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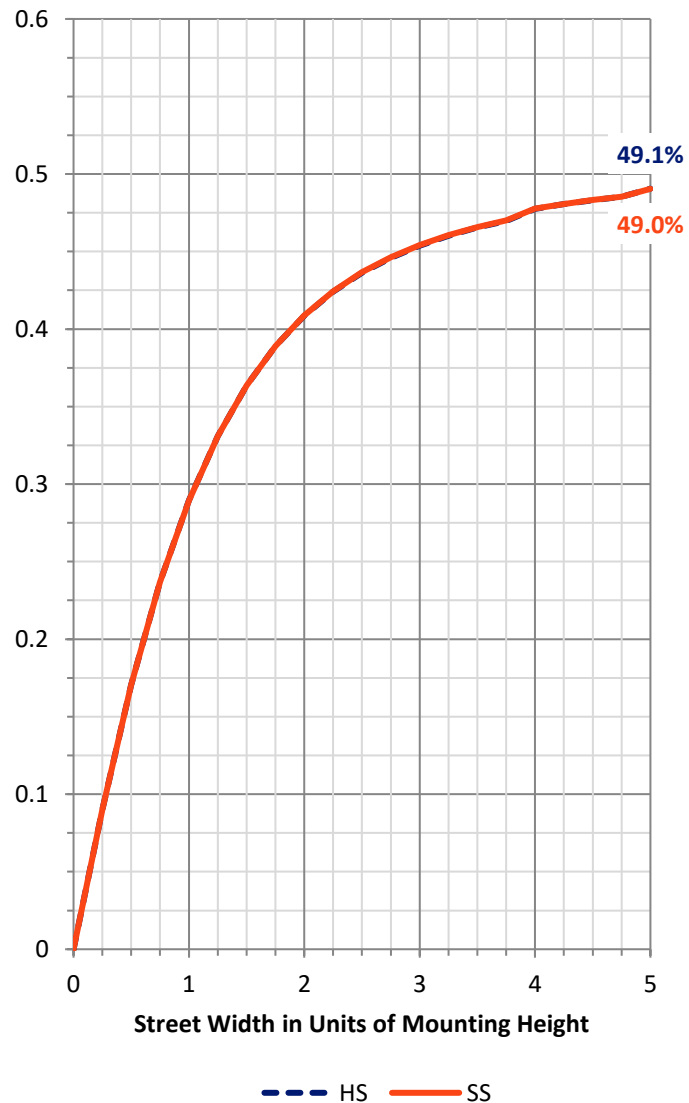
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3161.9	0.0	3161.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3161.9	0.0	3161.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6323.9	0.0	6323.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	1.8
10°-20°	345.6	5.5
20°-30°	556.0	8.8
30°-40°	736.6	11.6
40°-50°	930.1	14.7
50°-60°	1114.5	17.6
60°-70°	1218.6	19.3
70°-80°	975.5	15.4
80°-90°	330.1	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°	6323.9	100.0
0°-180°	6323.9	100.0

Coefficient of Utilization



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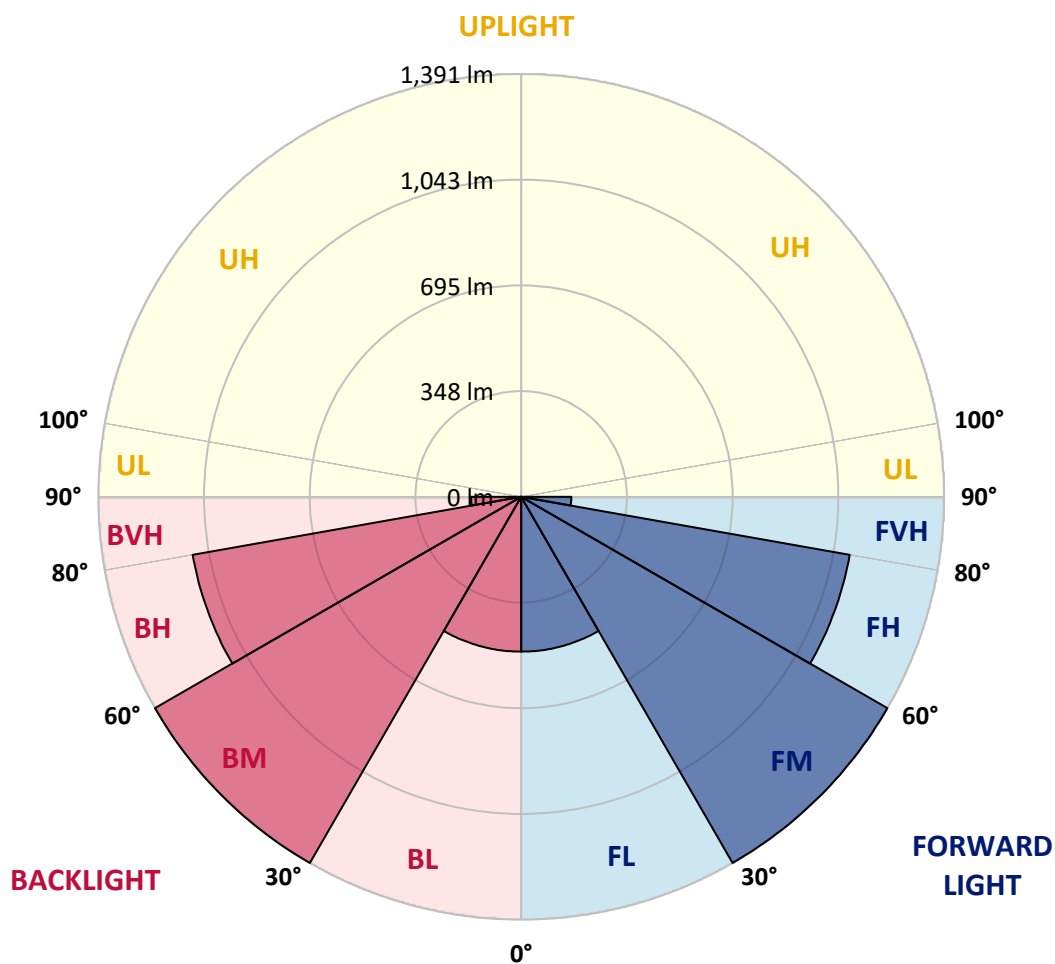
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.2	8.1			
FM	(30°-60°)	1390.6	22.0			
FH	(60°-80°)	1097.1	17.3			G1/1800
FVH	(80°-90°)	165.0	2.6			G2/225
BL	(0°-30°)	509.2	8.1	B2/1000		
BM	(30°-60°)	1390.6	22.0	B2/2500		
BH	(60°-80°)	1097.1	17.3	B3/2500		G1/1800
BVH	(80°-90°)	165.0	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°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2
2.5°	1226.4	1225.2	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4
5°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2
7.5°	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1225.2	1224.0	1225.2
10°	1221.7	1221.7	1221.7	1221.7	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9	1222.9
12.5°	1219.4	1219.4	1219.4	1219.4	1220.4	1220.4	1220.4	1220.4	1221.7	1221.7	1220.4
15°	1216.9	1215.8	1215.8	1216.9	1216.9	1218.1	1218.1	1218.1	1219.4	1218.1	1218.1
17.5°	1214.6	1213.4	1214.6	1215.8	1215.8	1216.9	1218.1	1218.1	1219.4	1219.4	1219.4
20°	1218.1	1216.9	1218.1	1219.4	1220.4	1222.9	1224.0	1225.2	1226.4	1227.6	1227.6
22.5°	1211.1	1209.9	1211.1	1211.1	1212.3	1213.4	1215.8	1216.9	1218.1	1218.1	1218.1
25°	1200.5	1200.5	1201.7	1201.7	1202.8	1204.0	1205.2	1206.3	1206.3	1207.5	1206.3
27.5°	1188.7	1188.7	1189.9	1189.9	1192.2	1192.2	1193.4	1194.6	1195.7	1195.7	1195.7
30°	1174.6	1174.6	1175.8	1176.9	1179.3	1180.4	1181.6	1182.8	1183.9	1183.9	1183.9
32.5°	1161.7	1160.4	1161.7	1164.0	1167.5	1169.8	1172.2	1173.3	1173.3	1173.3	1174.6
35°	1150.9	1152.2	1154.5	1156.9	1161.7	1164.0	1166.3	1169.8	1171.0	1171.0	1171.0
37.5°	1153.4	1154.5	1158.1	1162.7	1168.7	1175.8	1180.4	1185.1	1188.7	1187.5	1186.4
40°	1168.7	1171.0	1176.9	1183.9	1193.4	1202.8	1209.9	1215.8	1219.4	1220.4	1219.4
42.5°	1171.0	1173.3	1178.1	1188.7	1199.3	1209.9	1219.4	1225.2	1229.9	1231.2	1229.9
45°	1169.8	1169.8	1176.9	1188.7	1199.3	1209.9	1221.7	1229.9	1234.7	1234.7	1234.7
47.5°	1161.7	1165.2	1169.8	1181.6	1195.7	1206.3	1218.1	1226.4	1232.3	1235.8	1232.3
50°	1161.7	1161.7	1169.8	1178.1	1191.0	1209.9	1226.4	1234.7	1240.5	1239.3	1240.5
52.5°	1159.2	1166.3	1171.0	1182.8	1206.3	1225.2	1238.2	1249.9	1258.2	1259.4	1257.0
55°	1180.4	1181.6	1192.2	1214.6	1237.0	1258.2	1281.8	1299.5	1313.6	1321.9	1310.0
57.5°	1197.0	1191.0	1212.3	1231.2	1257.0	1288.9	1324.2	1338.3	1348.9	1346.6	1350.1
60°	1174.6	1182.8	1198.2	1218.1	1259.4	1291.2	1310.0	1325.4	1338.3	1341.8	1337.2
61°	1164.0	1178.1	1185.1	1212.3	1255.9	1279.4	1299.5	1320.6	1344.3	1352.4	1341.8
62.5°	1146.3	1168.7	1166.3	1209.9	1237.0	1264.2	1301.8	1326.5	1343.0	1345.3	1343.0
65°	1147.4	1143.9	1171.0	1202.8	1229.9	1278.3	1310.0	1325.4	1334.7	1339.5	1337.2
67.5°	1109.8	1098.0	1131.0	1153.4	1199.3	1237.0	1267.7	1289.9	1304.2	1308.8	1303.0
70°	1022.6	1030.8	1054.4	1088.6	1126.2	1172.2	1200.5	1229.9	1241.8	1242.8	1242.8
72.5°	938.9	943.6	967.3	999.0	1042.6	1082.6	1110.9	1134.5	1145.1	1146.3	1148.6
75°	828.2	832.9	860.0	889.5	933.0	967.3	987.2	1015.5	1030.8	1043.8	1033.2
77.5°	699.8	708.0	729.3	761.0	801.1	820.0	855.3	888.2	898.8	902.4	898.8
80°	554.8	565.4	584.3	626.8	644.4	675.1	709.2	723.3	732.8	735.1	736.3
82.5°	399.4	407.7	427.6	457.1	477.2	501.9	525.4	543.2	553.7	551.3	550.2
85°	235.7	238.0	259.2	279.2	294.6	309.8	328.7	341.7	344.0	348.8	347.5
87.5°	70.7	71.8	81.3	91.9	99.0	106.0	117.8	133.2	136.7	127.2	128.4
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°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2
2.5°	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1225.2	1226.4
5°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2
7.5°	1225.2	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0
10°	1222.9	1222.9	1222.9	1222.9	1221.7	1221.7	1221.7	1221.7
12.5°	1220.4	1220.4	1220.4	1220.4	1219.4	1219.4	1219.4	1219.4
15°	1218.1	1218.1	1218.1	1218.1	1216.9	1216.9	1216.9	1216.9
17.5°	1219.4	1218.1	1216.9	1216.9	1215.8	1214.6	1214.6	1214.6
20°	1226.4	1225.2	1222.9	1220.4	1219.4	1218.1	1218.1	1218.1
22.5°	1216.9	1215.8	1213.4	1212.3	1212.3	1211.1	1209.9	1209.9
25°	1206.3	1204.0	1204.0	1202.8	1202.8	1200.5	1200.5	1199.3
27.5°	1194.6	1193.4	1192.2	1191.0	1191.0	1189.9	1188.7	1187.5
30°	1183.9	1181.6	1179.3	1178.1	1176.9	1175.8	1175.8	1175.8
32.5°	1173.3	1171.0	1169.8	1166.3	1164.0	1162.7	1161.7	1161.7
35°	1169.8	1166.3	1164.0	1160.4	1156.9	1154.5	1153.4	1150.9
37.5°	1183.9	1179.3	1175.8	1169.8	1161.7	1158.1	1154.5	1153.4
40°	1214.6	1209.9	1202.8	1193.4	1183.9	1176.9	1171.0	1168.7
42.5°	1225.2	1219.4	1209.9	1200.5	1188.7	1178.1	1173.3	1171.0
45°	1228.7	1222.9	1209.9	1198.2	1187.5	1178.1	1171.0	1168.7
47.5°	1225.2	1216.9	1205.2	1195.7	1180.4	1168.7	1164.0	1160.4
50°	1233.5	1226.4	1211.1	1189.9	1176.9	1169.8	1161.7	1160.4
52.5°	1249.9	1237.0	1222.9	1207.5	1182.8	1168.7	1164.0	1158.1
55°	1299.5	1281.8	1257.0	1232.3	1216.9	1194.6	1180.4	1180.4
57.5°	1337.2	1322.9	1291.2	1258.2	1229.9	1213.4	1192.2	1193.4
60°	1326.5	1307.7	1292.4	1259.4	1219.4	1197.0	1188.7	1173.3
61°	1325.4	1299.5	1278.3	1252.3	1218.1	1182.8	1180.4	1160.4
62.5°	1327.7	1304.2	1264.2	1237.0	1211.1	1165.2	1164.0	1145.1
65°	1325.4	1303.0	1282.9	1232.3	1197.0	1178.1	1138.0	1153.4
67.5°	1288.9	1268.8	1232.3	1204.0	1149.8	1126.2	1103.8	1103.8
70°	1231.2	1201.7	1166.3	1131.0	1094.5	1054.4	1034.3	1022.6
72.5°	1134.5	1109.8	1081.4	1043.8	999.0	962.5	943.6	935.4
75°	1013.1	986.1	961.3	933.0	885.9	855.3	835.3	829.3
77.5°	885.9	862.3	818.7	791.7	759.8	724.5	706.9	699.8
80°	723.3	710.4	679.7	636.2	620.8	577.2	565.4	554.8
82.5°	543.2	528.9	500.7	470.1	451.3	426.4	405.2	402.9
85°	341.7	332.2	314.5	292.1	268.7	254.4	235.7	240.3
87.5°	127.2	121.4	110.8	96.7	85.9	76.6	67.2	70.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)