

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: P197717

Luminaire Tested: **TT-C5-LED-E1-MQ-CG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-MQ-CG-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6429 lumens
Efficiency: N/A
Efficacy: 83.5 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): 77
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

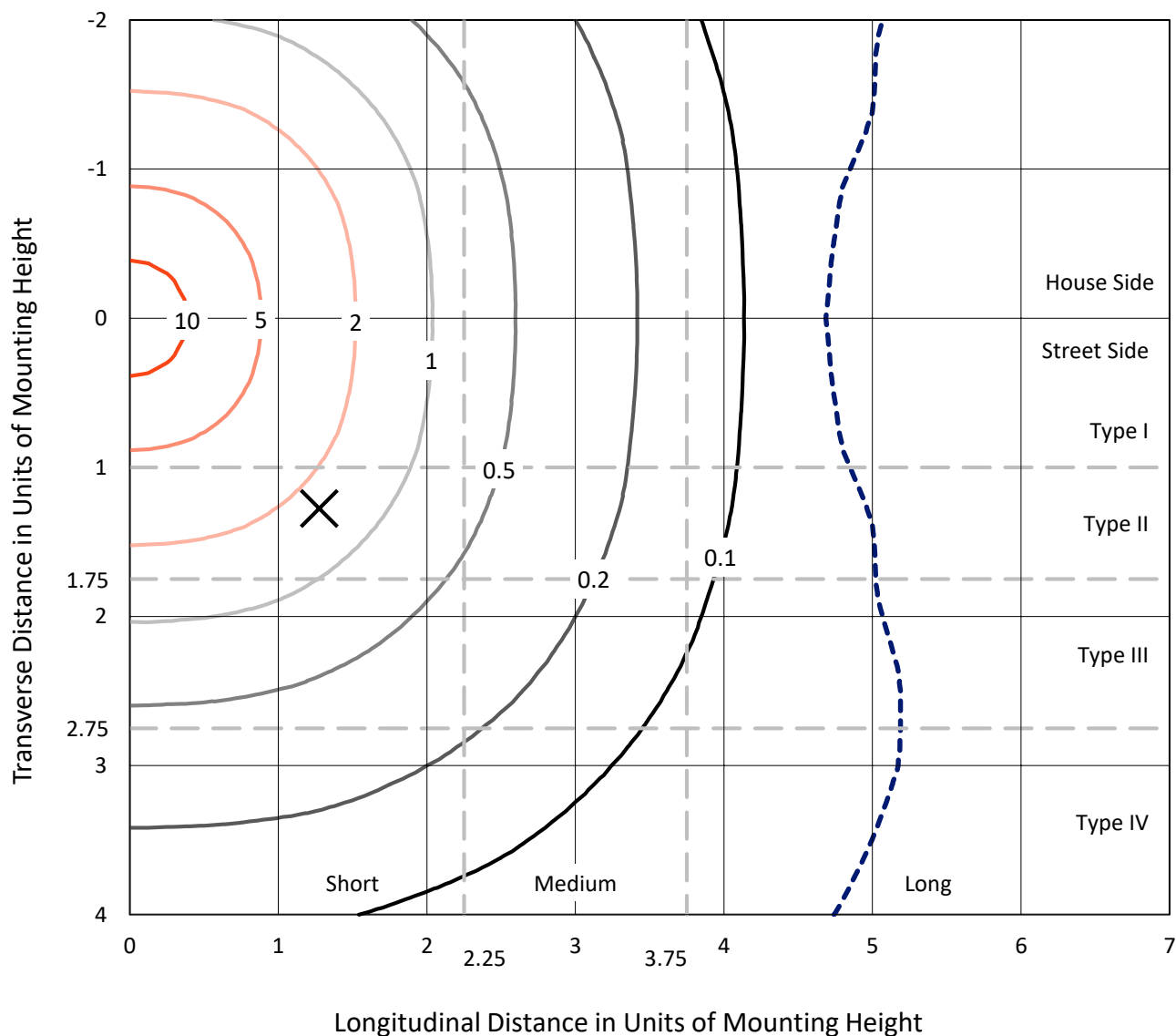


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

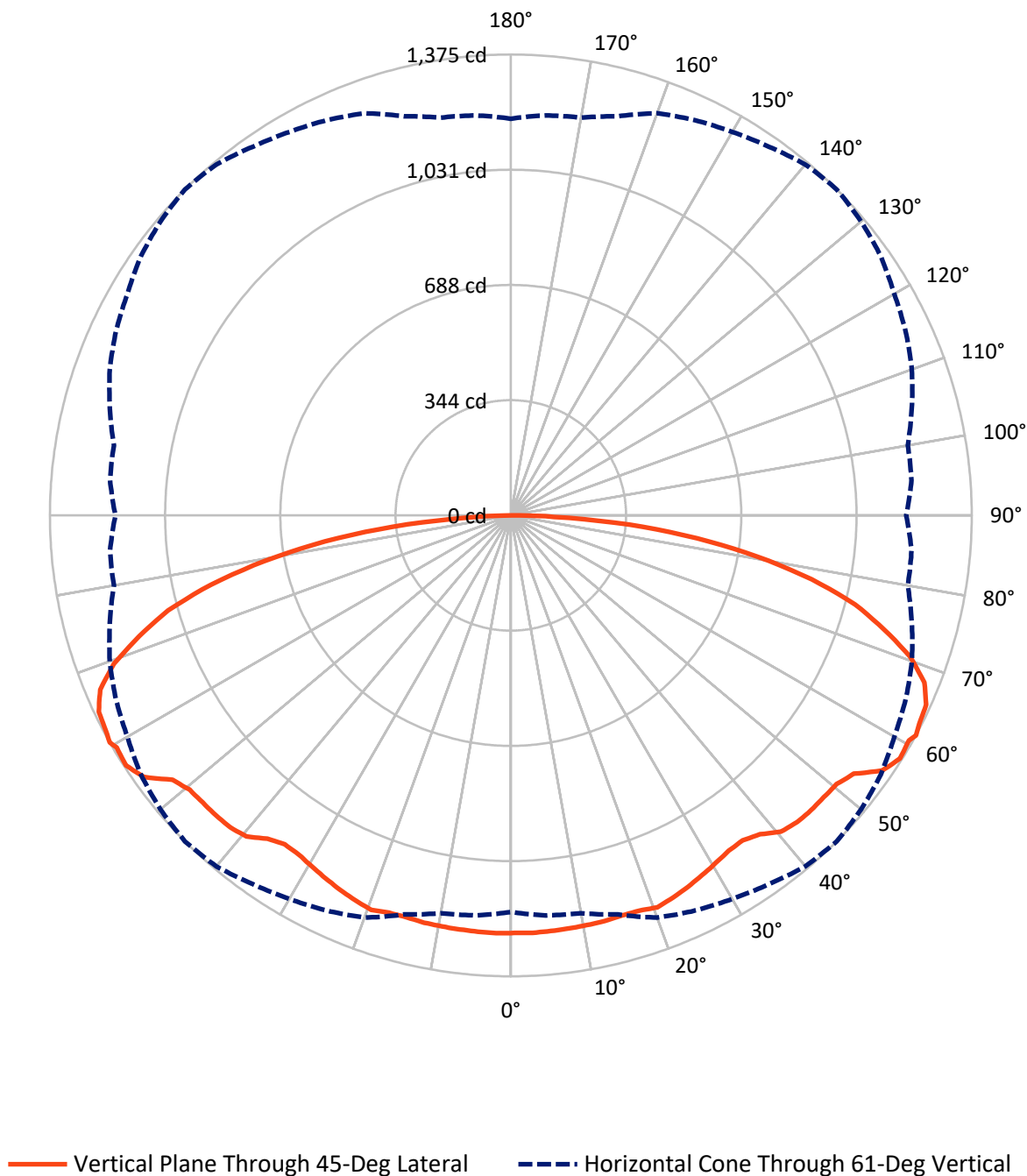


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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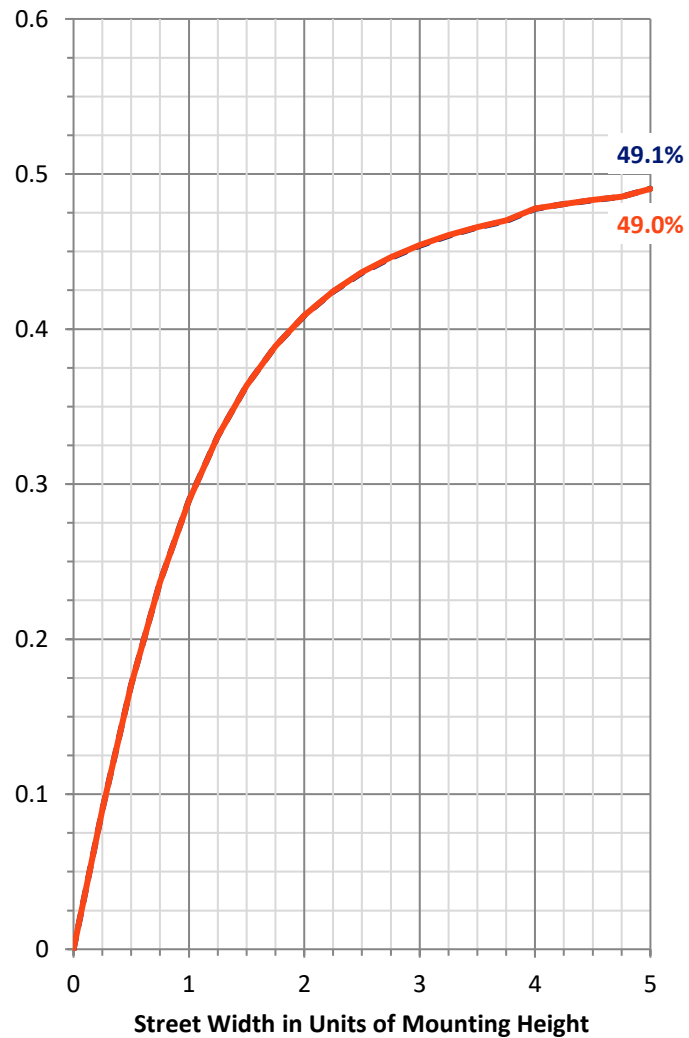
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3214.5	0.0	3214.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3214.5	0.0	3214.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6429.0	0.0	6429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	1.8
10°-20°	351.3	5.5
20°-30°	565.3	8.8
30°-40°	748.8	11.6
40°-50°	945.6	14.7
50°-60°	1133.0	17.6
60°-70°	1238.9	19.3
70°-80°	991.7	15.4
80°-90°	335.5	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°	6429.0	100.0
0°-180°	6429.0	100.0

Coefficient of Utilization



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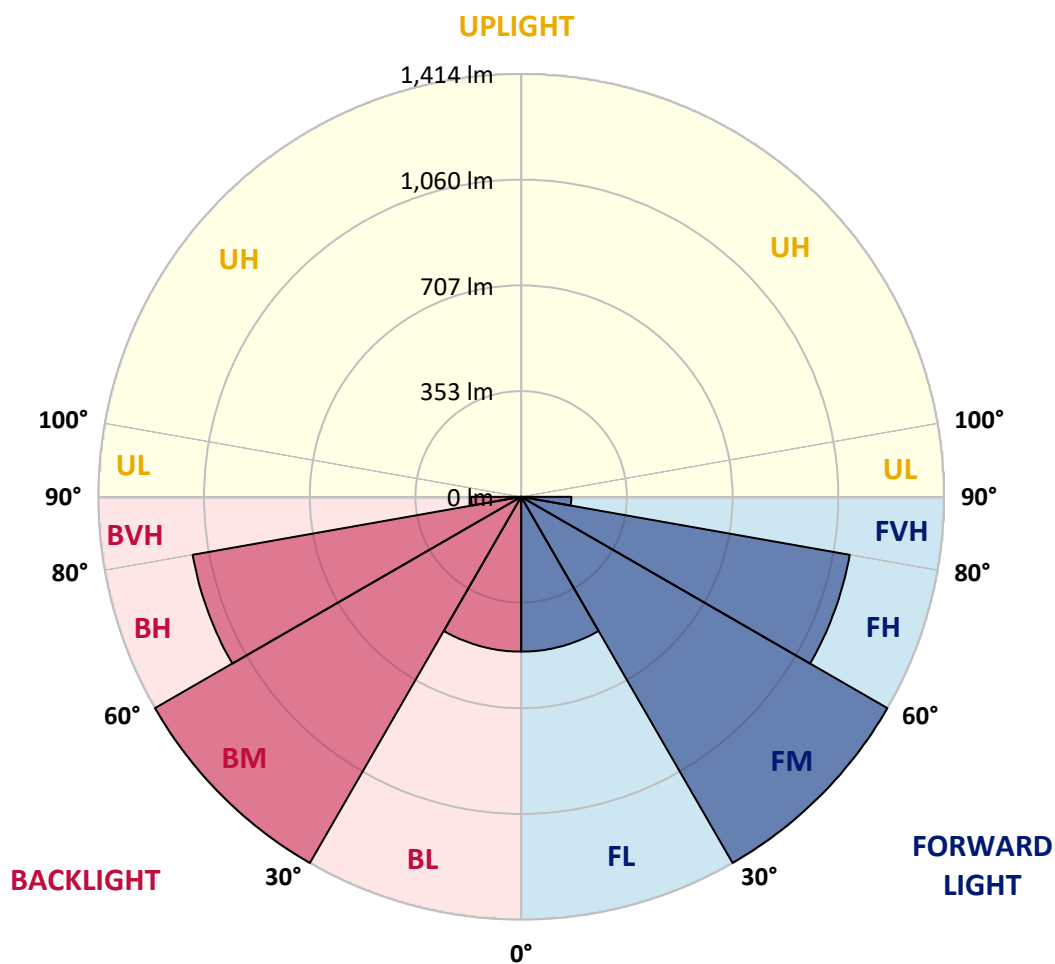
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.7	8.1			
FM	(30°-60°)	1413.7	22.0			
FH	(60°-80°)	1115.3	17.3			G1/1800
FVH	(80°-90°)	167.8	2.6			G2/225
BL	(0°-30°)	517.7	8.1	B2/1000		
BM	(30°-60°)	1413.7	22.0	B2/2500		
BH	(60°-80°)	1115.3	17.3	B3/2500		G1/1800
BVH	(80°-90°)	167.8	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°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1246.8	1245.6	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8
5°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
7.5°	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3	1245.6	1244.3	1245.6
10°	1242.0	1242.0	1242.0	1242.0	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
12.5°	1239.6	1239.6	1239.6	1239.6	1240.8	1240.8	1240.8	1240.8	1242.0	1242.0	1240.8
15°	1237.2	1236.0	1236.0	1237.2	1237.2	1238.4	1238.4	1238.4	1239.6	1238.4	1238.4
17.5°	1234.8	1233.5	1234.8	1236.0	1236.0	1237.2	1238.4	1238.4	1239.6	1239.6	1239.6
20°	1238.4	1237.2	1238.4	1239.6	1240.8	1243.1	1244.3	1245.6	1246.8	1248.0	1248.0
22.5°	1231.3	1230.0	1231.3	1231.3	1232.5	1233.5	1236.0	1237.2	1238.4	1238.4	1238.4
25°	1220.5	1220.5	1221.7	1221.7	1222.9	1224.0	1225.2	1226.4	1226.4	1227.6	1226.4
27.5°	1208.4	1208.4	1209.7	1209.7	1212.1	1212.1	1213.3	1214.4	1215.6	1215.6	1215.6
30°	1194.1	1194.1	1195.2	1196.4	1198.9	1200.1	1201.3	1202.5	1203.7	1203.7	1203.7
32.5°	1180.9	1179.7	1180.9	1183.3	1186.9	1189.3	1191.7	1192.9	1192.9	1192.9	1194.1
35°	1170.1	1171.3	1173.8	1176.1	1180.9	1183.3	1185.6	1189.3	1190.5	1190.5	1190.5
37.5°	1172.6	1173.8	1177.3	1182.1	1188.1	1195.2	1200.1	1204.8	1208.4	1207.2	1206.0
40°	1188.1	1190.5	1196.4	1203.7	1213.3	1222.9	1230.0	1236.0	1239.6	1240.8	1239.6
42.5°	1190.5	1192.9	1197.7	1208.4	1219.2	1230.0	1239.6	1245.6	1250.4	1251.6	1250.4
45°	1189.3	1189.3	1196.4	1208.4	1219.2	1230.0	1242.0	1250.4	1255.1	1255.1	1255.1
47.5°	1180.9	1184.6	1189.3	1201.3	1215.6	1226.4	1238.4	1246.8	1252.7	1256.3	1252.7
50°	1180.9	1180.9	1189.3	1197.7	1210.9	1230.0	1246.8	1255.1	1261.2	1260.0	1261.2
52.5°	1178.5	1185.6	1190.5	1202.5	1226.4	1245.6	1258.8	1270.8	1279.2	1280.4	1277.9
55°	1200.1	1201.3	1212.1	1234.8	1257.6	1279.2	1303.0	1321.0	1335.4	1343.8	1331.8
57.5°	1216.8	1210.9	1232.5	1251.6	1277.9	1310.3	1346.2	1360.5	1371.3	1368.9	1372.5
60°	1194.1	1202.5	1218.0	1238.4	1280.4	1312.6	1331.8	1347.4	1360.5	1364.2	1359.3
61°	1183.3	1197.7	1204.8	1232.5	1276.7	1300.7	1321.0	1342.6	1366.6	1375.0	1364.2
62.5°	1165.4	1188.1	1185.6	1230.0	1257.6	1285.1	1323.4	1348.6	1365.4	1367.8	1365.4
65°	1166.5	1163.0	1190.5	1222.9	1250.4	1299.5	1331.8	1347.4	1357.0	1361.7	1359.3
67.5°	1128.2	1116.3	1149.8	1172.6	1219.2	1257.6	1288.7	1311.4	1325.8	1330.6	1324.6
70°	1039.6	1048.0	1071.9	1106.7	1145.0	1191.7	1220.5	1250.4	1262.3	1263.5	1263.5
72.5°	954.5	959.4	983.2	1015.6	1059.9	1100.6	1129.4	1153.4	1164.2	1165.4	1167.7
75°	842.0	846.7	874.4	904.3	948.6	983.2	1003.6	1032.4	1048.0	1061.1	1050.3
77.5°	711.4	719.9	741.3	773.7	814.4	833.6	869.5	903.1	913.9	917.4	913.9
80°	564.1	574.9	594.1	637.1	655.1	686.3	720.9	735.4	745.0	747.4	748.6
82.5°	406.0	414.4	434.7	464.7	485.1	510.2	534.2	552.1	562.9	560.5	559.3
85°	239.5	241.9	263.5	283.9	299.4	314.9	334.1	347.3	349.7	354.5	353.3
87.5°	71.9	73.0	82.6	93.4	100.7	107.8	119.8	135.3	139.0	129.4	130.6
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°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1245.6	1246.8
5°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
7.5°	1245.6	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3	1244.3
10°	1243.1	1243.1	1243.1	1243.1	1242.0	1242.0	1242.0	1242.0
12.5°	1240.8	1240.8	1240.8	1240.8	1239.6	1239.6	1239.6	1239.6
15°	1238.4	1238.4	1238.4	1238.4	1237.2	1237.2	1237.2	1237.2
17.5°	1239.6	1238.4	1237.2	1237.2	1236.0	1234.8	1234.8	1234.8
20°	1246.8	1245.6	1243.1	1240.8	1239.6	1238.4	1238.4	1238.4
22.5°	1237.2	1236.0	1233.5	1232.5	1232.5	1231.3	1230.0	1230.0
25°	1226.4	1224.0	1224.0	1222.9	1222.9	1220.5	1220.5	1219.2
27.5°	1214.4	1213.3	1212.1	1210.9	1210.9	1209.7	1208.4	1207.2
30°	1203.7	1201.3	1198.9	1197.7	1196.4	1195.2	1195.2	1195.2
32.5°	1192.9	1190.5	1189.3	1185.6	1183.3	1182.1	1180.9	1180.9
35°	1189.3	1185.6	1183.3	1179.7	1176.1	1173.8	1172.6	1170.1
37.5°	1203.7	1198.9	1195.2	1189.3	1180.9	1177.3	1173.8	1172.6
40°	1234.8	1230.0	1222.9	1213.3	1203.7	1196.4	1190.5	1188.1
42.5°	1245.6	1239.6	1230.0	1220.5	1208.4	1197.7	1192.9	1190.5
45°	1249.2	1243.1	1230.0	1218.0	1207.2	1197.7	1190.5	1188.1
47.5°	1245.6	1237.2	1225.2	1215.6	1200.1	1188.1	1183.3	1179.7
50°	1253.9	1246.8	1231.3	1209.7	1196.4	1189.3	1180.9	1179.7
52.5°	1270.8	1257.6	1243.1	1227.6	1202.5	1188.1	1183.3	1177.3
55°	1321.0	1303.0	1277.9	1252.7	1237.2	1214.4	1200.1	1200.1
57.5°	1359.3	1345.0	1312.6	1279.2	1250.4	1233.5	1212.1	1213.3
60°	1348.6	1329.5	1313.8	1280.4	1239.6	1216.8	1208.4	1192.9
61°	1347.4	1321.0	1299.5	1273.1	1238.4	1202.5	1200.1	1179.7
62.5°	1349.7	1325.8	1285.1	1257.6	1231.3	1184.6	1183.3	1164.2
65°	1347.4	1324.6	1304.2	1252.7	1216.8	1197.7	1156.9	1172.6
67.5°	1310.3	1289.9	1252.7	1224.0	1168.9	1145.0	1122.2	1122.2
70°	1251.6	1221.7	1185.6	1149.8	1112.6	1071.9	1051.5	1039.6
72.5°	1153.4	1128.2	1099.4	1061.1	1015.6	978.5	959.4	951.0
75°	1030.1	1002.4	977.3	948.6	900.7	869.5	849.1	843.2
77.5°	900.7	876.7	832.4	804.9	772.5	736.6	718.6	711.4
80°	735.4	722.2	691.1	646.7	631.2	586.8	574.9	564.1
82.5°	552.1	537.7	509.0	477.9	458.8	433.5	411.9	409.7
85°	347.3	337.7	319.8	297.0	273.1	258.7	239.5	244.4
87.5°	129.4	123.3	112.5	98.2	87.4	77.9	68.3	71.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)