

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: P197517

Luminaire Tested: **TT-C3-LED-E1-CQ-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
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-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4979.7 lumens
Efficiency: N/A
Efficacy: 110.7 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

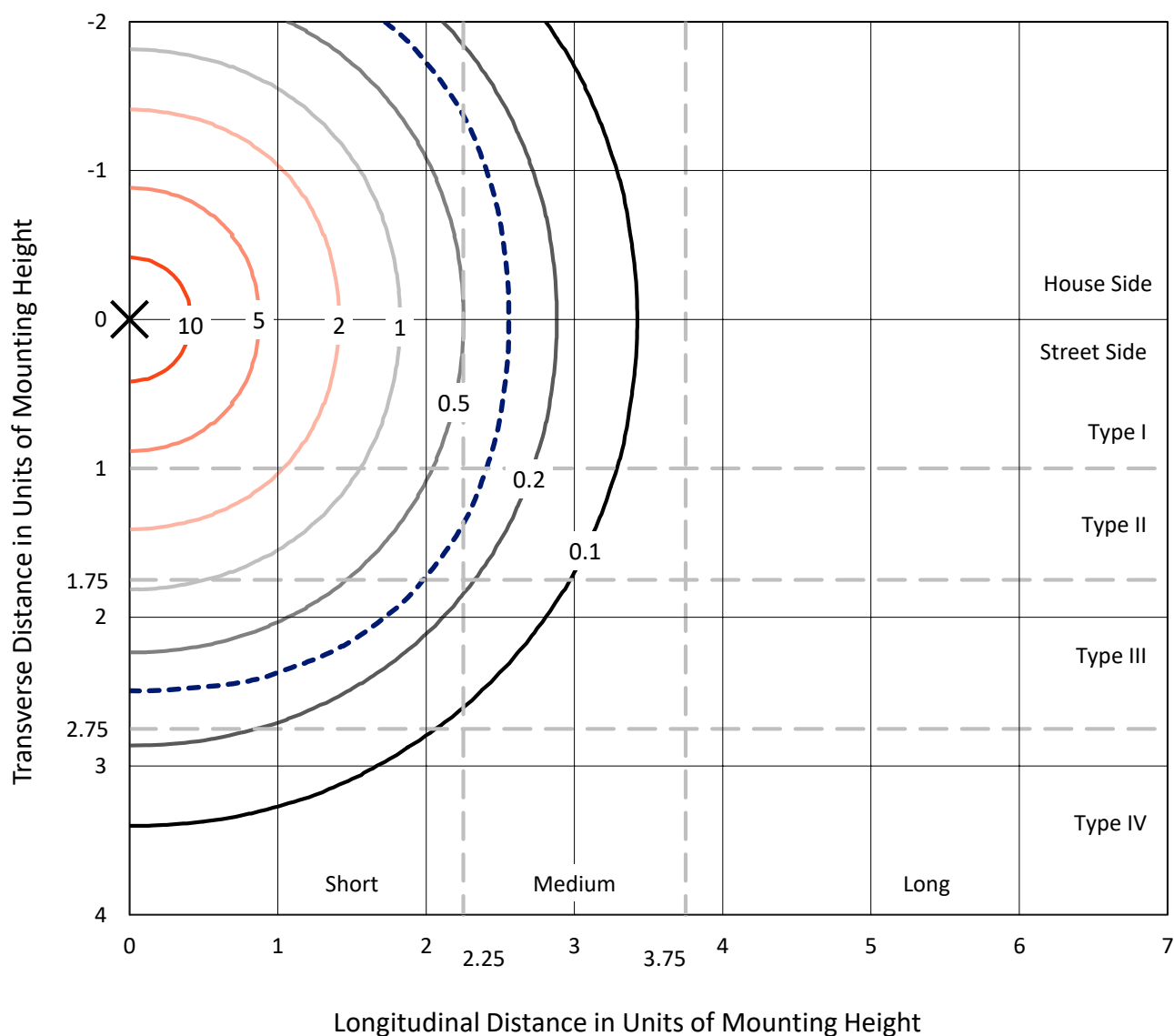


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

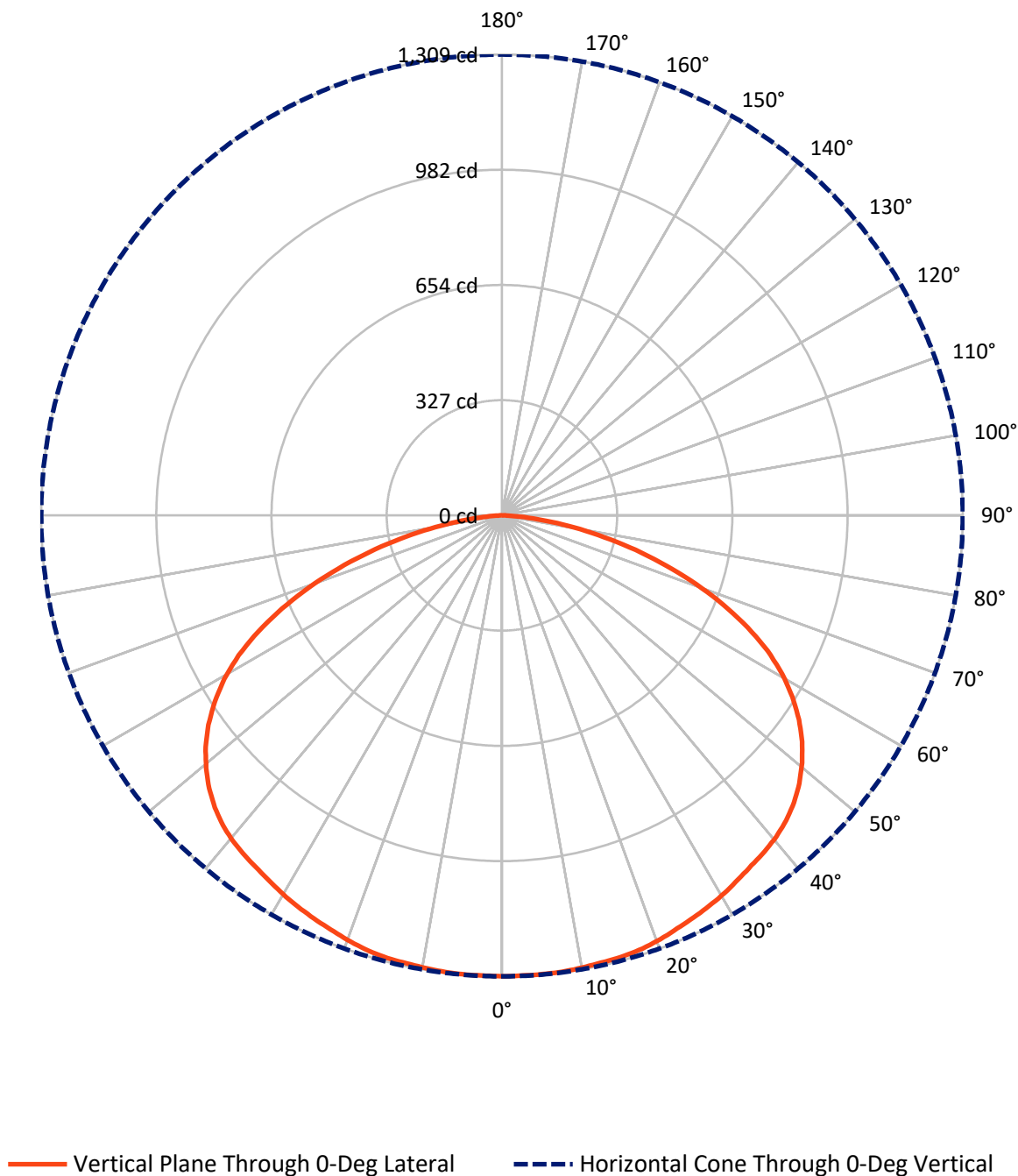


Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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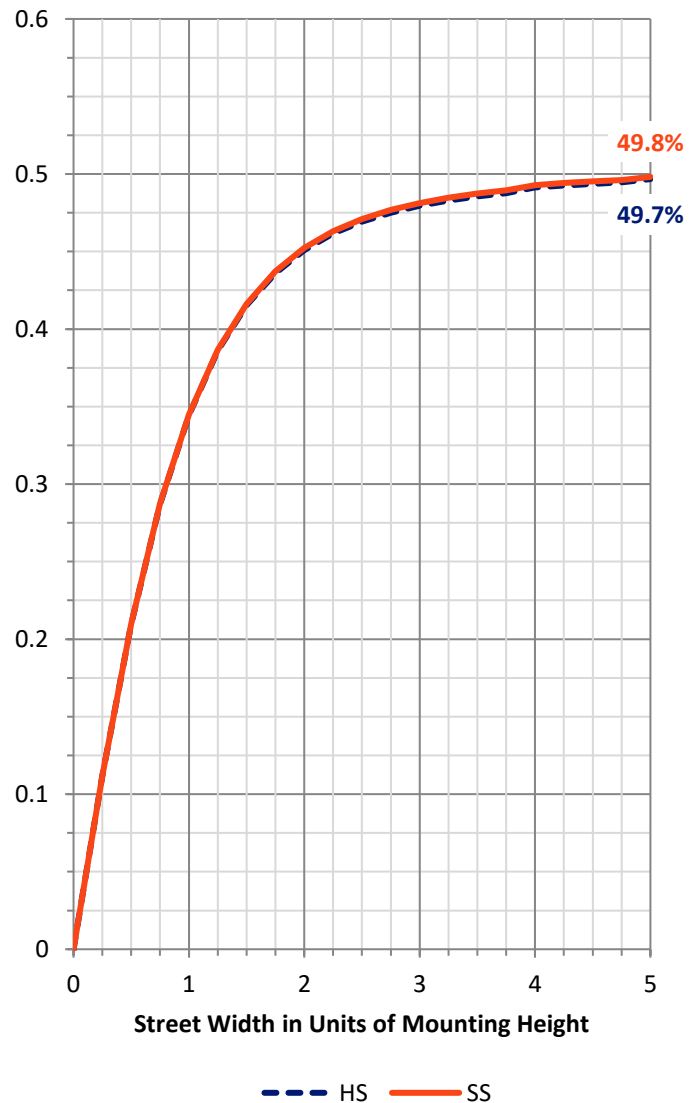
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2489.9	0.0	2489.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2489.9	0.0	2489.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4979.7	0.0	4979.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	2.5
10°-20°	367.2	7.4
20°-30°	584.9	11.7
30°-40°	766.8	15.4
40°-50°	904.4	18.2
50°-60°	936.7	18.8
60°-70°	783.3	15.7
70°-80°	427.0	8.6
80°-90°	84.8	1.7
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°	4979.7	100.0
0°-180°	4979.7	100.0

Coefficient of Utilization



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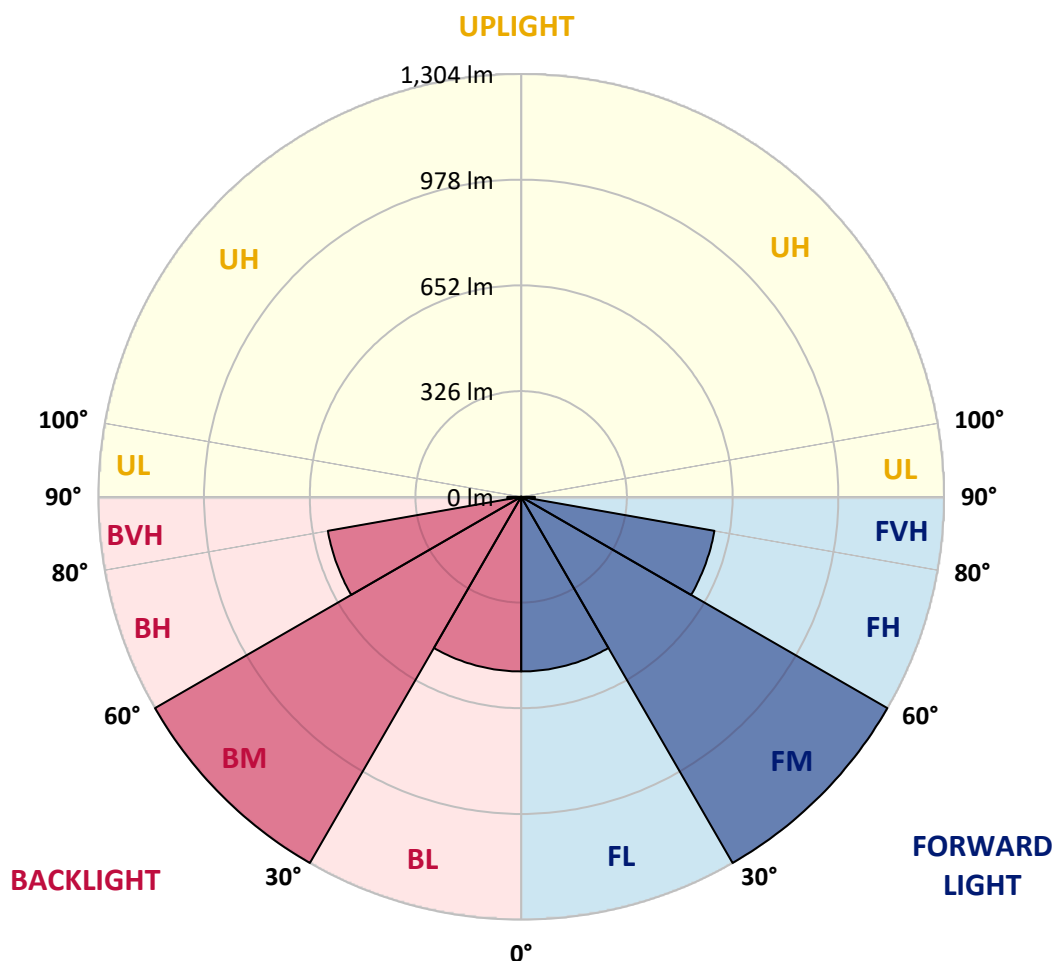
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	538.4	10.8			
FM	(30°-60°)	1303.9	26.2			
FH	(60°-80°)	605.2	12.2			G0/660
FVH	(80°-90°)	42.4	0.9			G1/100
BL	(0°-30°)	538.4	10.8	B2/1000		
BM	(30°-60°)	1303.9	26.2	B2/2500		
BH	(60°-80°)	605.2	12.2	B2/1000		G0/660
BVH	(80°-90°)	42.4	0.9			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°	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7
2.5°	1307.6	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1307.6	1308.7	1308.7
5°	1307.6	1307.6	1307.6	1307.6	1308.7	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6
7.5°	1306.6	1305.5	1305.5	1305.5	1305.5	1305.5	1306.6	1306.6	1306.6	1306.6	1306.6
10°	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4
12.5°	1300.3	1300.3	1300.3	1300.3	1301.3	1301.3	1301.3	1301.3	1301.3	1301.3	1300.3
15°	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2
17.5°	1293.0	1293.0	1293.0	1293.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0
20°	1284.6	1284.6	1284.6	1284.6	1284.6	1285.6	1286.7	1286.7	1286.7	1286.7	1286.7
22.5°	1274.1	1274.1	1275.2	1275.2	1276.2	1276.2	1277.2	1277.2	1277.2	1277.2	1277.2
25°	1264.7	1264.7	1264.7	1265.7	1265.7	1265.7	1266.8	1267.8	1267.8	1267.8	1266.8
27.5°	1255.2	1255.2	1255.2	1256.3	1256.3	1256.3	1257.3	1257.3	1258.4	1257.3	1257.3
30°	1244.8	1243.7	1243.7	1244.8	1245.8	1245.8	1246.9	1246.9	1246.9	1246.9	1245.8
32.5°	1232.2	1232.2	1233.2	1234.3	1234.3	1235.3	1236.4	1236.4	1236.4	1237.4	1235.3
35°	1220.7	1221.7	1221.7	1222.8	1224.9	1225.9	1227.0	1228.0	1228.0	1228.0	1225.9
37.5°	1211.2	1212.3	1213.3	1215.4	1217.5	1219.6	1221.7	1223.8	1222.8	1222.8	1219.6
40°	1199.7	1200.8	1202.9	1205.0	1209.1	1211.2	1214.4	1216.5	1217.5	1216.5	1213.3
42.5°	1184.0	1185.0	1187.1	1190.3	1195.5	1199.7	1202.9	1206.0	1207.0	1206.0	1202.9
45°	1163.0	1164.1	1166.2	1170.4	1176.7	1180.9	1186.1	1189.2	1191.3	1191.3	1188.2
47.5°	1136.8	1137.9	1141.0	1145.2	1151.5	1156.8	1163.0	1167.2	1169.3	1171.4	1168.3
50°	1104.4	1105.4	1109.6	1114.8	1120.1	1127.4	1134.7	1141.0	1144.2	1145.2	1144.2
52.5°	1067.7	1068.7	1072.9	1078.2	1085.5	1093.9	1102.3	1109.6	1113.8	1115.9	1113.8
55°	1023.7	1025.8	1028.9	1036.3	1044.6	1052.0	1062.5	1070.8	1076.1	1077.1	1076.1
57.5°	972.3	975.5	978.6	987.0	995.4	1005.9	1014.3	1022.6	1028.9	1030.0	1030.0
60°	914.7	916.8	920.0	928.3	937.8	945.1	956.6	965.0	970.2	970.2	971.3
62.5°	846.6	848.7	853.9	860.2	870.7	878.0	887.5	895.9	901.1	903.2	902.1
65°	767.0	769.1	772.2	780.6	789.0	797.4	806.8	814.1	819.4	820.4	819.4
67.5°	679.0	681.1	683.2	693.6	702.0	705.2	716.7	723.0	726.1	727.2	727.2
70°	585.7	586.8	589.9	595.1	604.6	607.7	615.0	620.3	622.4	626.6	623.4
72.5°	488.3	490.4	497.7	498.7	506.1	510.3	512.4	512.4	517.6	517.6	518.7
75°	391.9	392.9	396.1	397.1	402.3	402.3	401.3	403.4	407.6	407.6	408.6
77.5°	296.5	296.5	301.8	297.6	299.7	295.5	297.6	295.5	298.6	297.6	298.6
80°	207.5	207.5	210.6	206.4	207.5	203.3	204.3	203.3	203.3	204.3	204.3
82.5°	127.8	128.9	131.0	127.8	127.8	124.7	125.7	126.8	126.8	125.7	124.7
85°	62.9	62.9	65.0	63.9	62.9	60.8	61.8	62.9	62.9	61.8	61.8
87.5°	16.8	16.8	17.8	17.8	16.8	15.7	16.8	17.8	17.8	17.8	16.8
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°	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7
2.5°	1307.6	1307.6	1308.7	1307.6	1308.7	1307.6	1308.7	1308.7
5°	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6	1307.6
7.5°	1305.5	1306.6	1305.5	1305.5	1305.5	1306.6	1305.5	1306.6
10°	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4
12.5°	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1299.3
15°	1298.2	1297.2	1297.2	1297.2	1296.1	1296.1	1296.1	1296.1
17.5°	1294.0	1293.0	1291.9	1291.9	1291.9	1291.9	1290.9	1290.9
20°	1286.7	1285.6	1284.6	1284.6	1283.5	1283.5	1282.5	1282.5
22.5°	1276.2	1276.2	1275.2	1274.1	1274.1	1273.1	1273.1	1272.0
25°	1266.8	1265.7	1264.7	1263.6	1262.6	1262.6	1261.5	1260.5
27.5°	1256.3	1254.2	1253.1	1252.1	1251.1	1250.0	1249.0	1247.9
30°	1244.8	1242.7	1240.6	1239.5	1237.4	1235.3	1234.3	1233.2
32.5°	1233.2	1231.1	1228.0	1224.9	1222.8	1220.7	1218.6	1217.5
35°	1223.8	1219.6	1216.5	1212.3	1209.1	1206.0	1205.0	1203.9
37.5°	1216.5	1212.3	1207.0	1202.9	1199.7	1195.5	1193.4	1191.3
40°	1209.1	1203.9	1197.6	1192.4	1188.2	1182.9	1180.9	1178.8
42.5°	1198.7	1192.4	1186.1	1179.8	1173.5	1168.3	1165.1	1163.0
45°	1184.0	1177.7	1170.4	1162.0	1155.7	1149.4	1146.3	1144.2
47.5°	1164.1	1157.8	1149.4	1142.1	1134.7	1128.5	1124.3	1122.2
50°	1140.0	1133.7	1125.3	1116.9	1109.6	1102.3	1099.1	1096.0
52.5°	1109.6	1104.4	1094.9	1088.6	1080.3	1072.9	1069.8	1067.7
55°	1071.9	1066.6	1057.2	1050.9	1042.5	1036.3	1032.1	1028.9
57.5°	1025.8	1021.6	1011.1	1004.8	996.4	990.2	987.0	984.9
60°	969.2	965.0	954.5	948.2	940.9	933.6	931.5	929.4
62.5°	899.0	896.9	888.5	881.2	873.9	866.5	864.4	863.4
65°	817.3	815.2	807.8	801.6	795.3	789.0	786.9	784.8
67.5°	724.0	723.0	716.7	711.4	707.3	701.0	699.9	697.8
70°	624.5	622.4	617.1	613.0	609.8	604.6	603.5	601.4
72.5°	520.7	519.7	516.6	511.3	511.3	504.0	502.9	501.9
75°	406.5	411.8	407.6	405.5	405.5	401.3	401.3	400.3
77.5°	297.6	302.8	306.0	301.8	306.0	301.8	301.8	300.7
80°	203.3	207.5	210.6	207.5	212.7	209.6	209.6	213.7
82.5°	123.6	127.8	129.9	128.9	132.0	131.0	129.9	133.1
85°	60.8	62.9	63.9	63.9	65.0	62.9	65.0	66.0
87.5°	15.7	16.8	17.8	16.8	17.8	17.8	17.8	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)