

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: P197519

Luminaire Tested: **TT-C3-LED-E1-CQ-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197519
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5511.9 lumens
Efficiency: N/A
Efficacy: 122.5 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

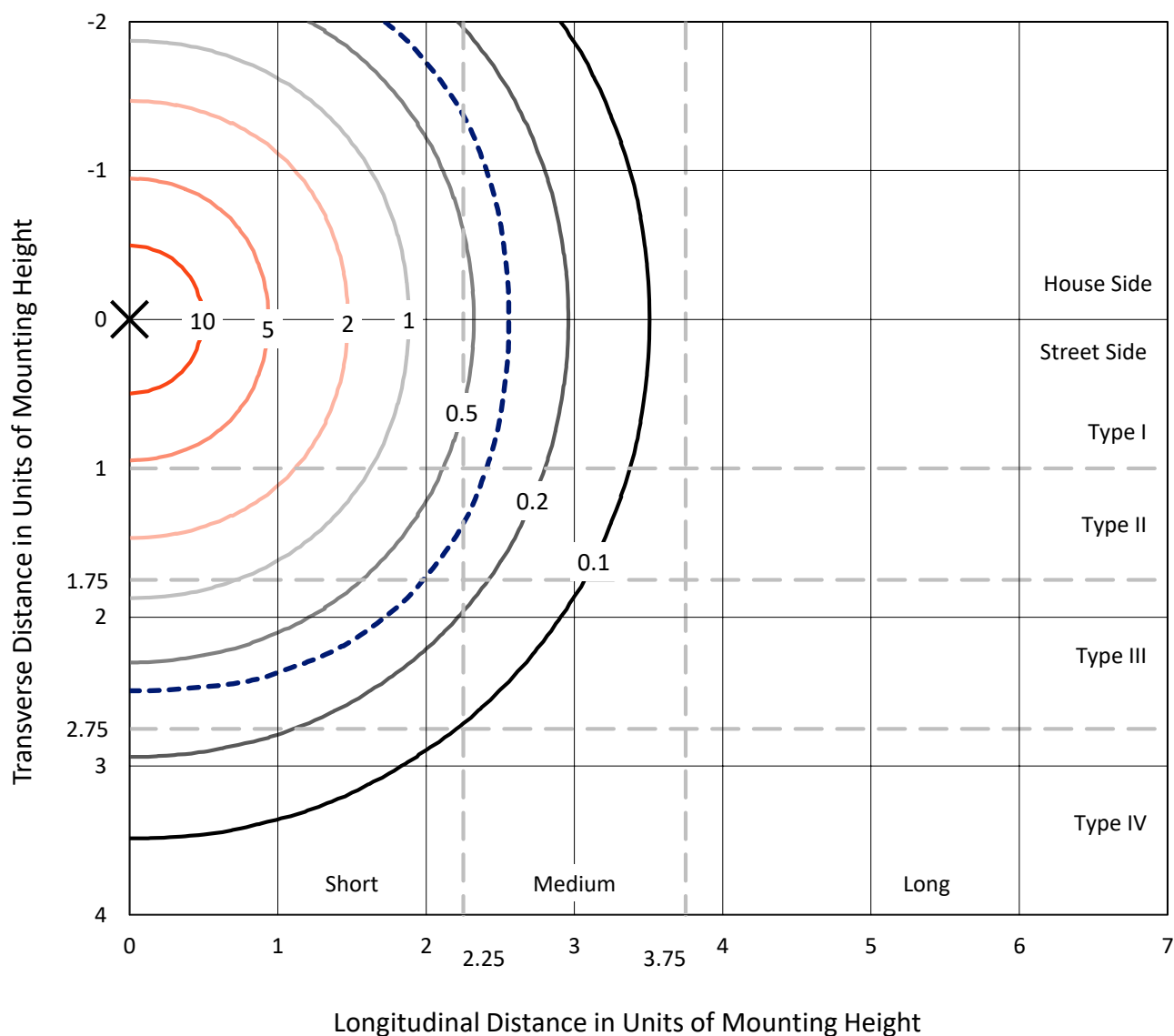


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

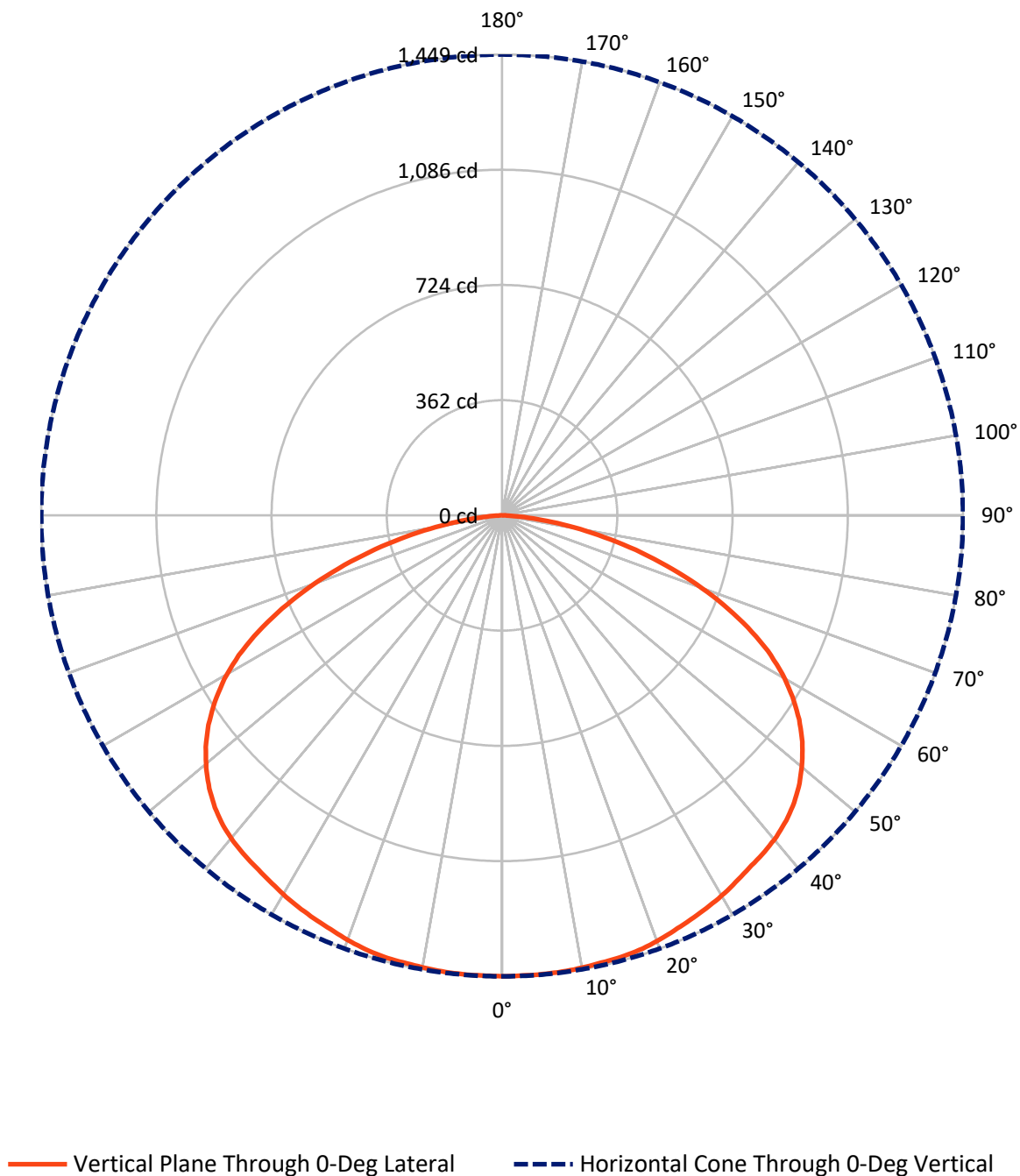


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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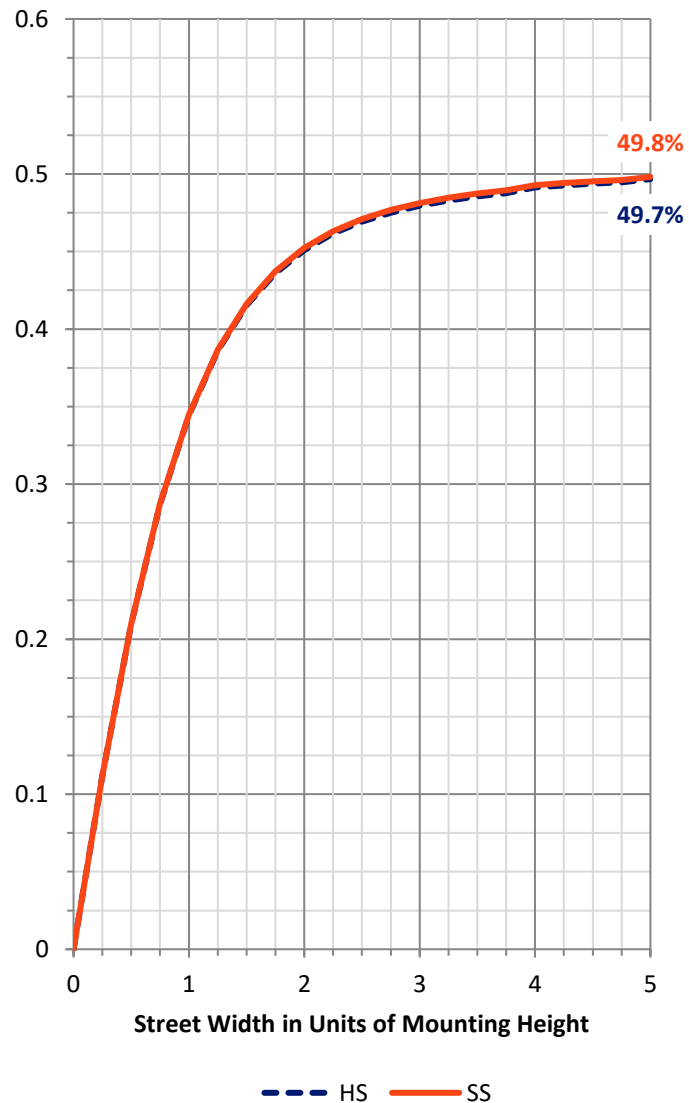
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2756.0	0.0	2756.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2756.0	0.0	2756.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5511.9	0.0	5511.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	2.5
10°-20°	406.5	7.4
20°-30°	647.4	11.7
30°-40°	848.8	15.4
40°-50°	1001.0	18.2
50°-60°	1036.8	18.8
60°-70°	867.0	15.7
70°-80°	472.6	8.6
80°-90°	93.8	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°	5511.9	100.0
0°-180°	5511.9	100.0

Coefficient of Utilization



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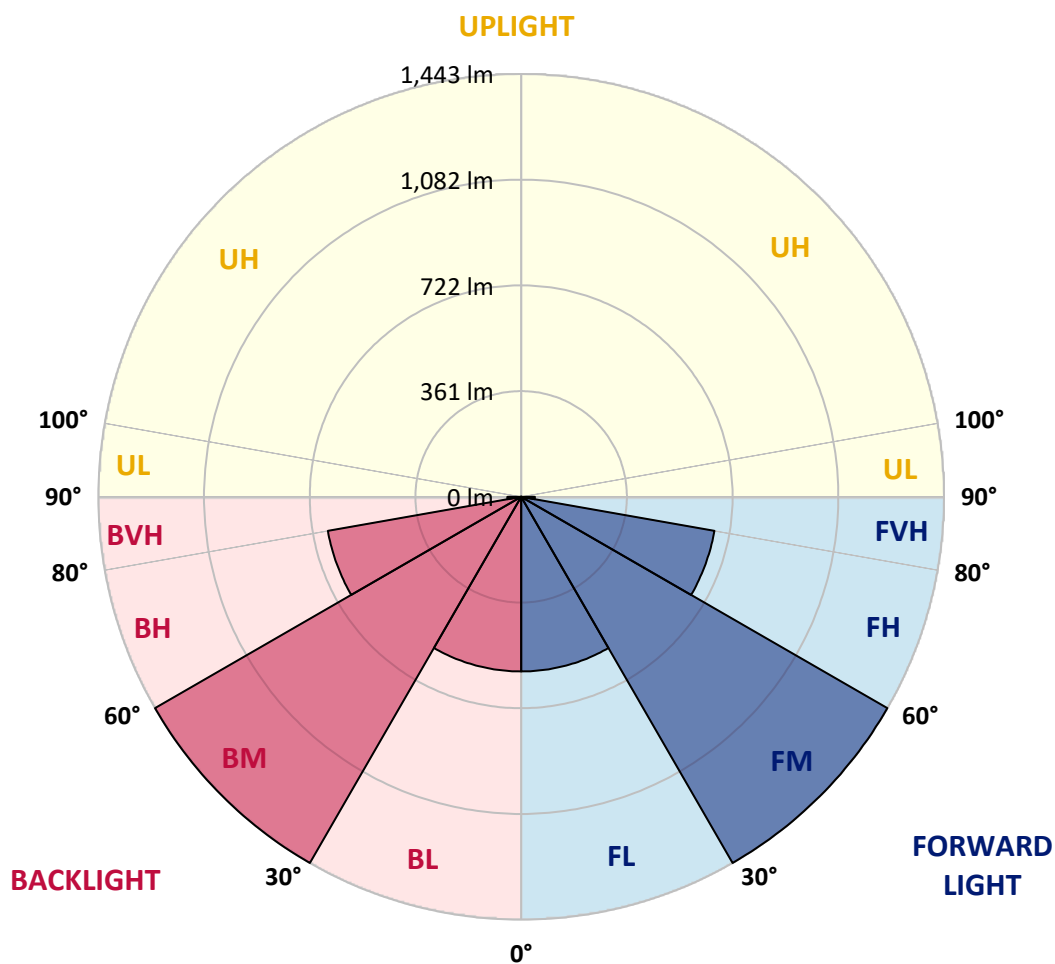
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.9	10.8			
FM	(30°-60°)	1443.3	26.2			
FH	(60°-80°)	669.8	12.2			G1/1800
FVH	(80°-90°)	46.9	0.9			G1/100
BL	(0°-30°)	595.9	10.8	B2/1000		
BM	(30°-60°)	1443.3	26.2	B2/2500		
BH	(60°-80°)	669.8	12.2	B2/1000		G1/1800
BVH	(80°-90°)	46.9	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°	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6
2.5°	1447.4	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1447.4	1448.6	1448.6
5°	1447.4	1447.4	1447.4	1447.4	1448.6	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4
7.5°	1446.2	1445.1	1445.1	1445.1	1445.1	1445.1	1446.2	1446.2	1446.2	1446.2	1446.2
10°	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8
12.5°	1439.3	1439.3	1439.3	1439.3	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1439.3
15°	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0	1437.0
17.5°	1431.2	1431.2	1431.2	1431.2	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3
20°	1421.9	1421.9	1421.9	1421.9	1421.9	1423.0	1424.2	1424.2	1424.2	1424.2	1424.2
22.5°	1410.3	1410.3	1411.4	1411.4	1412.6	1412.6	1413.8	1413.8	1413.8	1413.8	1413.8
25°	1399.8	1399.8	1399.8	1401.0	1401.0	1401.0	1402.2	1403.3	1403.3	1403.3	1402.2
27.5°	1389.4	1389.4	1389.4	1390.6	1390.6	1390.6	1391.7	1391.7	1392.9	1391.7	1391.7
30°	1377.8	1376.6	1376.6	1377.8	1379.0	1379.0	1380.1	1380.1	1380.1	1380.1	1379.0
32.5°	1363.9	1363.9	1365.0	1366.2	1366.2	1367.4	1368.5	1368.5	1368.5	1369.7	1367.4
35°	1351.1	1352.3	1352.3	1353.5	1355.8	1356.9	1358.1	1359.2	1359.2	1359.2	1356.9
37.5°	1340.7	1341.9	1343.0	1345.3	1347.7	1350.0	1352.3	1354.6	1353.5	1353.5	1350.0
40°	1327.9	1329.1	1331.4	1333.7	1338.4	1340.7	1344.2	1346.5	1347.7	1346.5	1343.0
42.5°	1310.5	1311.7	1314.0	1317.5	1323.3	1327.9	1331.4	1334.9	1336.1	1334.9	1331.4
45°	1287.3	1288.5	1290.8	1295.5	1302.4	1307.1	1312.9	1316.3	1318.7	1318.7	1315.2
47.5°	1258.3	1259.5	1263.0	1267.6	1274.6	1280.4	1287.3	1292.0	1294.3	1296.6	1293.1
50°	1222.4	1223.6	1228.2	1234.0	1239.8	1247.9	1256.0	1263.0	1266.5	1267.6	1266.5
52.5°	1181.8	1183.0	1187.6	1193.4	1201.5	1210.8	1220.1	1228.2	1232.8	1235.2	1232.8
55°	1133.1	1135.4	1138.9	1147.0	1156.3	1164.4	1176.0	1185.3	1191.1	1192.2	1191.1
57.5°	1076.3	1079.7	1083.2	1092.5	1101.8	1113.4	1122.7	1131.9	1138.9	1140.1	1140.1
60°	1012.5	1014.8	1018.3	1027.6	1038.0	1046.1	1058.9	1068.1	1073.9	1073.9	1075.1
62.5°	937.1	939.4	945.2	952.2	963.8	971.9	982.3	991.6	997.4	999.7	998.6
65°	849.0	851.3	854.7	864.0	873.3	882.6	893.0	901.1	906.9	908.1	906.9
67.5°	751.5	753.8	756.2	767.8	777.0	780.5	793.3	800.2	803.7	804.9	804.9
70°	648.3	649.5	652.9	658.7	669.2	672.7	680.8	686.6	688.9	693.5	690.1
72.5°	540.5	542.8	550.9	552.1	560.2	564.8	567.1	567.1	572.9	572.9	574.1
75°	433.8	434.9	438.4	439.6	445.4	445.4	444.2	446.5	451.2	451.2	452.3
77.5°	328.2	328.2	334.0	329.4	331.7	327.1	329.4	327.1	330.5	329.4	330.5
80°	229.6	229.6	233.1	228.5	229.6	225.0	226.2	225.0	225.0	226.2	226.2
82.5°	141.5	142.7	145.0	141.5	141.5	138.0	139.2	140.3	140.3	139.2	138.0
85°	69.6	69.6	71.9	70.7	69.6	67.3	68.4	69.6	69.6	68.4	68.4
87.5°	18.6	18.6	19.7	19.7	18.6	17.4	18.6	19.7	19.7	19.7	18.6
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°	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6
2.5°	1447.4	1447.4	1448.6	1447.4	1448.6	1447.4	1448.6	1448.6
5°	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4
7.5°	1445.1	1446.2	1445.1	1445.1	1445.1	1446.2	1445.1	1446.2
10°	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8	1442.8
12.5°	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1439.3	1438.1
15°	1437.0	1435.8	1435.8	1435.8	1434.6	1434.6	1434.6	1434.6
17.5°	1432.3	1431.2	1430.0	1430.0	1430.0	1430.0	1428.8	1428.8
20°	1424.2	1423.0	1421.9	1421.9	1420.7	1420.7	1419.6	1419.6
22.5°	1412.6	1412.6	1411.4	1410.3	1410.3	1409.1	1409.1	1408.0
25°	1402.2	1401.0	1399.8	1398.7	1397.5	1397.5	1396.4	1395.2
27.5°	1390.6	1388.2	1387.1	1385.9	1384.8	1383.6	1382.4	1381.3
30°	1377.8	1375.5	1373.2	1372.0	1369.7	1367.4	1366.2	1365.0
32.5°	1365.0	1362.7	1359.2	1355.8	1353.5	1351.1	1348.8	1347.7
35°	1354.6	1350.0	1346.5	1341.9	1338.4	1334.9	1333.7	1332.6
37.5°	1346.5	1341.9	1336.1	1331.4	1327.9	1323.3	1321.0	1318.7
40°	1338.4	1332.6	1325.6	1319.8	1315.2	1309.4	1307.1	1304.7
42.5°	1326.8	1319.8	1312.9	1305.9	1298.9	1293.1	1289.7	1287.3
45°	1310.5	1303.6	1295.5	1286.2	1279.2	1272.3	1268.8	1266.5
47.5°	1288.5	1281.5	1272.3	1264.1	1256.0	1249.1	1244.4	1242.1
50°	1261.8	1254.9	1245.6	1236.3	1228.2	1220.1	1216.6	1213.1
52.5°	1228.2	1222.4	1212.0	1205.0	1195.7	1187.6	1184.1	1181.8
55°	1186.4	1180.6	1170.2	1163.2	1154.0	1147.0	1142.4	1138.9
57.5°	1135.4	1130.8	1119.2	1112.2	1102.9	1096.0	1092.5	1090.2
60°	1072.8	1068.1	1056.5	1049.6	1041.5	1033.4	1031.0	1028.7
62.5°	995.1	992.8	983.5	975.4	967.2	959.1	956.8	955.6
65°	904.6	902.3	894.2	887.2	880.3	873.3	871.0	868.7
67.5°	801.4	800.2	793.3	787.5	782.8	775.9	774.7	772.4
70°	691.2	688.9	683.1	678.5	675.0	669.2	668.0	665.7
72.5°	576.4	575.2	571.8	566.0	566.0	557.8	556.7	555.5
75°	450.0	455.8	451.2	448.8	448.8	444.2	444.2	443.0
77.5°	329.4	335.2	338.7	334.0	338.7	334.0	334.0	332.9
80°	225.0	229.6	233.1	229.6	235.4	232.0	232.0	236.6
82.5°	136.9	141.5	143.8	142.7	146.1	145.0	143.8	147.3
85°	67.3	69.6	70.7	70.7	71.9	69.6	71.9	73.1
87.5°	17.4	18.6	19.7	18.6	19.7	19.7	19.7	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)