

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: P197544

Luminaire Tested: **TT-C3-LED-E1-CQ-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
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-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5749.6 lumens
Efficiency: N/A
Efficacy: 127.8 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

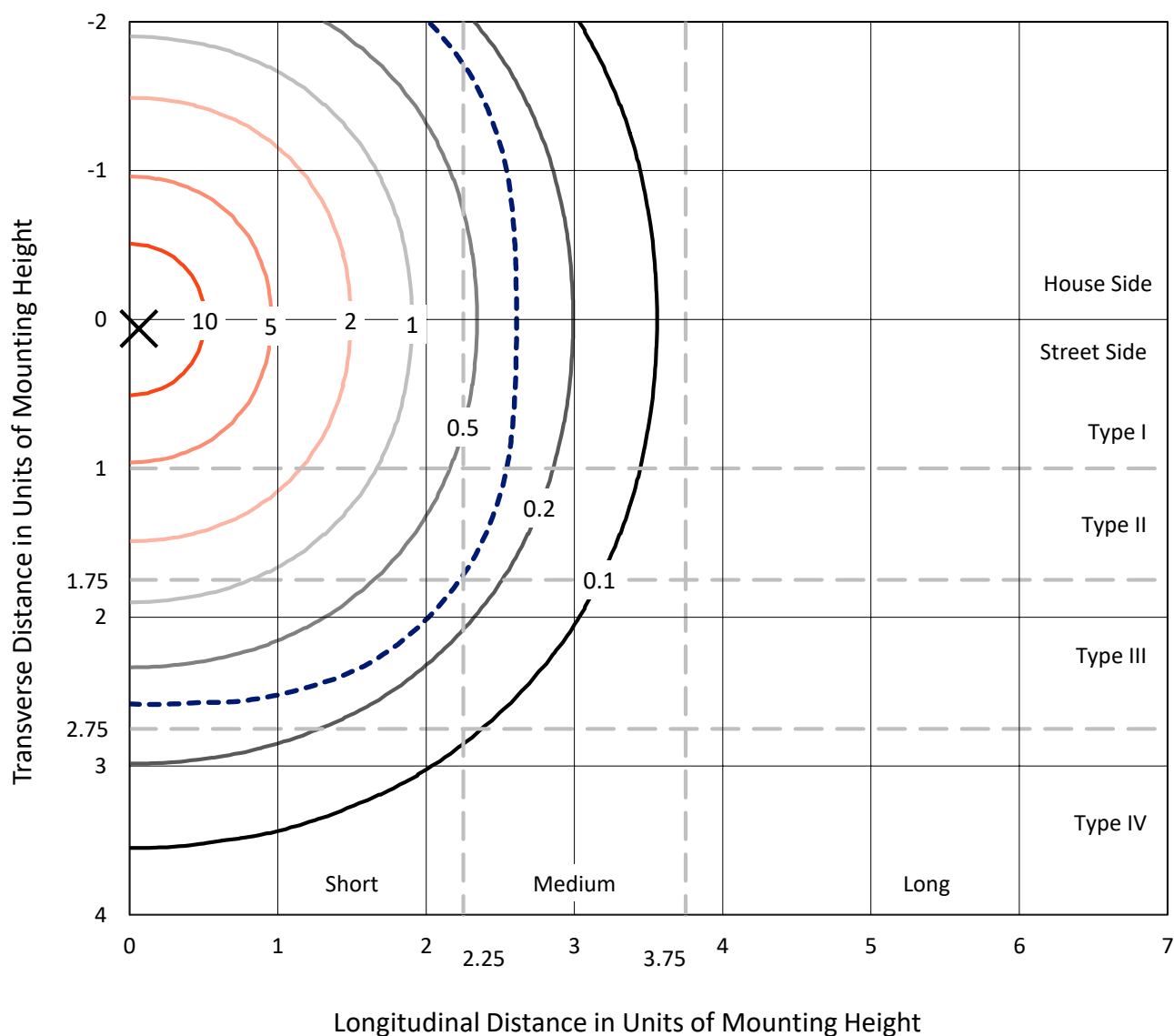


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

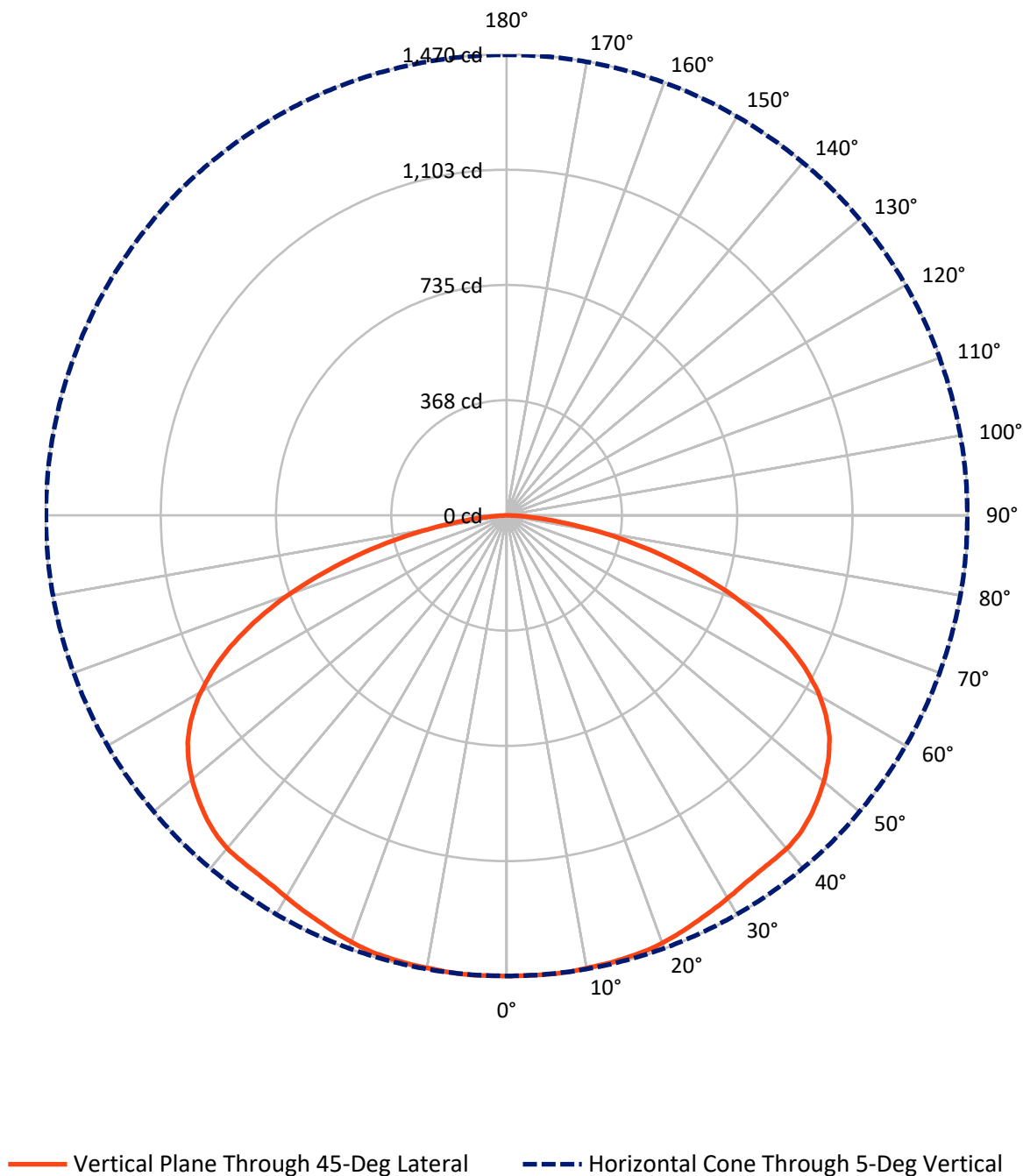


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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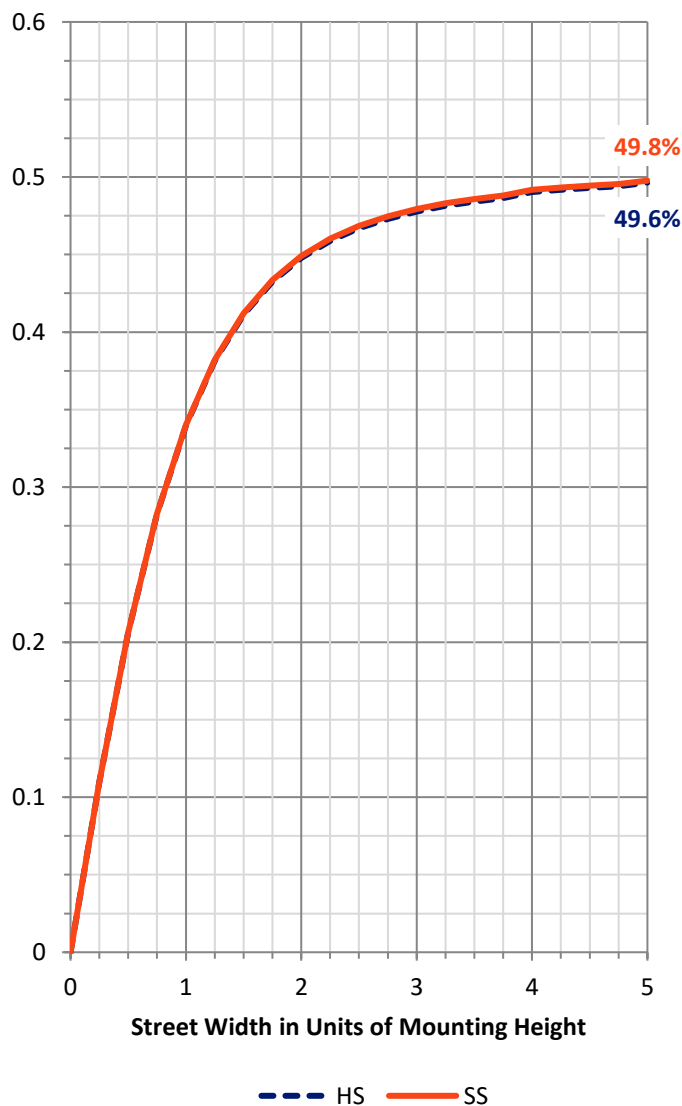
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2874.8	0.0	2874.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2874.8	0.0	2874.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5749.6	0.0	5749.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	2.4
10°-20°	413.3	7.2
20°-30°	659.5	11.5
30°-40°	868.7	15.1
40°-50°	1033.3	18.0
50°-60°	1081.4	18.8
60°-70°	919.6	16.0
70°-80°	522.6	9.1
80°-90°	111.1	1.9
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°	5749.6	100.0
0°-180°	5749.6	100.0

Coefficient of Utilization



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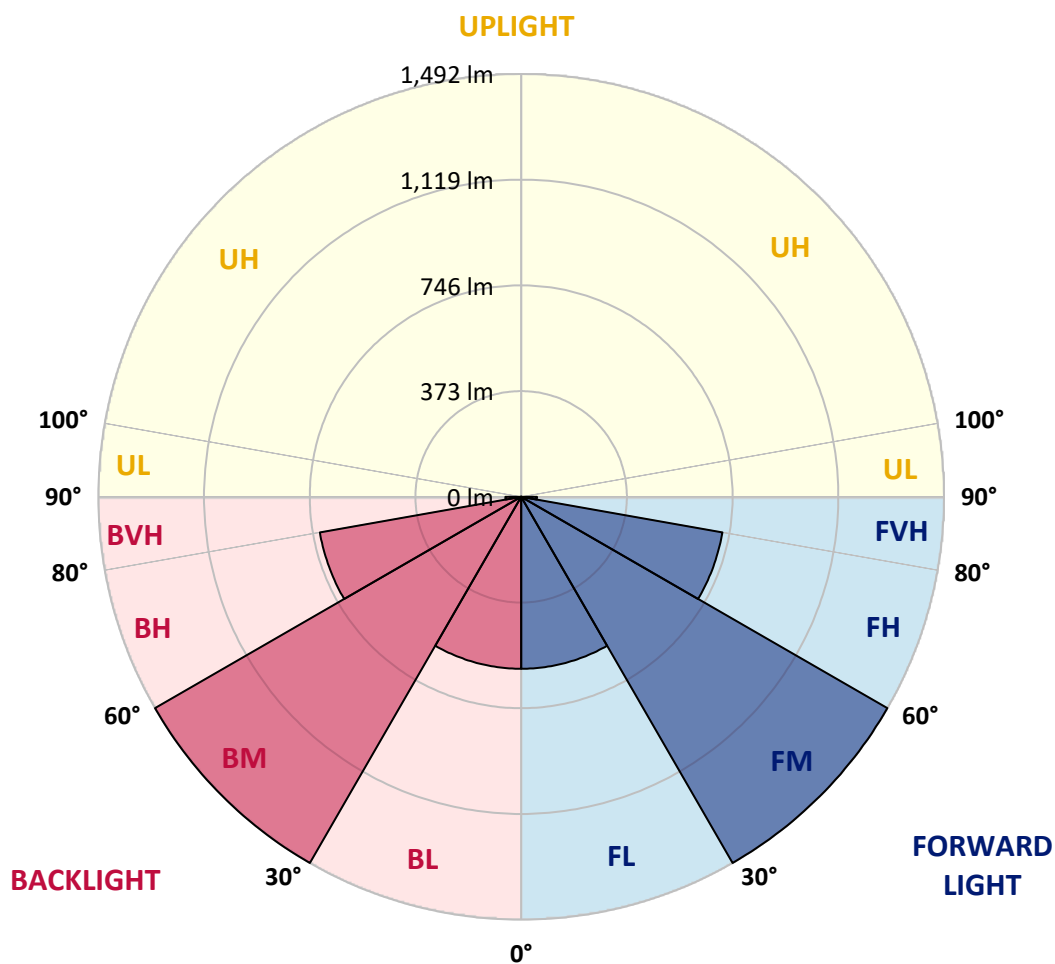
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.4	10.5			
FM	(30°-60°)	1491.7	25.9			
FH	(60°-80°)	721.1	12.5			G1/1800
FVH	(80°-90°)	55.6	1.0			G1/100
BL	(0°-30°)	606.4	10.5	B2/1000		
BM	(30°-60°)	1491.7	25.9	B2/2500		
BH	(60°-80°)	721.1	12.5	B2/1000		G1/1800
BVH	(80°-90°)	55.6	1.0			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°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
2.5°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
5°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1470.1	1469.0
7.5°	1467.8	1467.8	1467.8	1467.8	1469.0	1467.8	1467.8	1469.0	1469.0	1469.0	1469.0
10°	1465.6	1464.4	1464.4	1465.6	1465.6	1465.6	1465.6	1465.6	1466.7	1465.6	1465.6
12.5°	1462.2	1461.0	1462.2	1462.2	1462.2	1463.3	1463.3	1463.3	1464.4	1464.4	1463.3
15°	1458.8	1458.8	1458.8	1458.8	1458.8	1459.9	1459.9	1461.0	1461.0	1461.0	1461.0
17.5°	1454.2	1454.2	1454.2	1455.4	1455.4	1456.5	1456.5	1456.5	1457.6	1457.6	1457.6
20°	1446.3	1445.2	1446.3	1446.3	1447.4	1448.6	1448.6	1449.7	1449.7	1449.7	1449.7
22.5°	1435.0	1435.0	1436.1	1436.1	1437.2	1438.4	1438.4	1439.5	1439.5	1439.5	1439.5
25°	1423.6	1424.8	1424.8	1425.9	1425.9	1427.0	1428.2	1428.2	1428.2	1428.2	1428.2
27.5°	1412.3	1413.4	1413.4	1413.4	1414.6	1415.7	1416.8	1418.0	1419.1	1418.0	1418.0
30°	1399.8	1399.8	1401.0	1402.1	1403.2	1404.4	1406.6	1407.8	1408.9	1407.8	1407.8
32.5°	1386.2	1387.4	1388.5	1389.6	1391.9	1394.2	1396.4	1397.6	1398.7	1397.6	1397.6
35°	1376.0	1376.0	1378.3	1380.6	1382.8	1386.2	1388.5	1390.8	1393.0	1391.9	1390.8
37.5°	1365.8	1365.8	1368.1	1371.5	1376.0	1380.6	1385.1	1388.5	1389.6	1389.6	1388.5
40°	1353.4	1354.5	1356.8	1362.4	1369.2	1374.9	1380.6	1385.1	1387.4	1387.4	1385.1
42.5°	1339.8	1340.9	1344.3	1350.0	1357.9	1364.7	1371.5	1374.9	1378.3	1378.3	1376.0
45°	1320.5	1321.6	1326.2	1331.8	1339.8	1346.6	1354.5	1357.9	1362.4	1361.3	1360.2
47.5°	1295.6	1296.7	1301.2	1306.9	1314.8	1322.8	1330.7	1336.4	1339.8	1339.8	1338.6
50°	1264.9	1266.1	1270.6	1276.3	1286.5	1295.6	1303.5	1309.2	1314.8	1314.8	1313.7
52.5°	1226.4	1228.7	1232.1	1240.0	1251.3	1261.5	1271.7	1280.8	1284.2	1285.3	1284.2
55°	1178.8	1181.1	1185.6	1194.7	1207.1	1219.6	1230.9	1241.1	1245.7	1249.1	1246.8
57.5°	1123.3	1125.5	1131.2	1141.4	1155.0	1167.5	1182.2	1193.5	1196.9	1200.3	1199.2
60°	1057.5	1060.9	1066.6	1077.9	1091.5	1105.1	1118.7	1132.3	1135.7	1140.3	1138.0
62.5°	980.4	983.8	989.5	1002.0	1016.7	1029.2	1045.1	1057.5	1060.9	1065.5	1064.3
65°	892.0	895.4	901.1	914.7	928.3	941.9	956.6	970.2	973.6	978.2	977.0
67.5°	791.2	794.6	800.2	816.1	829.7	843.3	855.8	869.4	871.6	876.2	875.0
70°	684.6	689.1	693.7	708.4	720.9	732.2	745.8	757.2	761.7	764.0	761.7
72.5°	578.1	581.5	586.0	596.2	605.3	615.5	629.1	637.0	640.4	641.5	641.5
75°	468.1	471.5	471.5	482.9	489.7	495.3	506.7	512.3	514.6	516.9	516.9
77.5°	363.8	361.6	363.8	368.4	372.9	377.4	384.2	387.6	389.9	394.4	392.2
80°	255.0	256.2	257.3	260.7	263.0	264.1	268.6	269.8	270.9	275.4	273.2
82.5°	164.4	162.1	164.4	163.2	165.5	162.1	164.4	167.8	165.5	167.8	168.9
85°	86.1	82.7	82.7	83.9	85.0	82.7	83.9	82.7	82.7	85.0	83.9
87.5°	27.2	26.1	27.2	26.1	27.2	26.1	27.2	28.3	27.2	27.2	28.3
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°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
2.5°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
5°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
7.5°	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1466.7	1467.8
10°	1465.6	1465.6	1465.6	1465.6	1464.4	1464.4	1464.4	1464.4
12.5°	1463.3	1463.3	1462.2	1462.2	1462.2	1462.2	1461.0	1461.0
15°	1461.0	1459.9	1459.9	1458.8	1458.8	1458.8	1457.6	1458.8
17.5°	1457.6	1456.5	1456.5	1455.4	1455.4	1454.2	1454.2	1454.2
20°	1449.7	1448.6	1448.6	1447.4	1447.4	1446.3	1445.2	1445.2
22.5°	1438.4	1438.4	1438.4	1437.2	1436.1	1436.1	1435.0	1435.0
25°	1428.2	1427.0	1427.0	1425.9	1424.8	1424.8	1423.6	1423.6
27.5°	1418.0	1416.8	1415.7	1413.4	1413.4	1412.3	1411.2	1410.0
30°	1406.6	1404.4	1402.1	1401.0	1399.8	1397.6	1396.4	1395.3
32.5°	1395.3	1393.0	1390.8	1388.5	1385.1	1384.0	1381.7	1381.7
35°	1388.5	1385.1	1381.7	1377.2	1373.8	1370.4	1368.1	1367.0
37.5°	1385.1	1380.6	1374.9	1369.2	1363.6	1359.0	1355.6	1355.6
40°	1380.6	1374.9	1368.1	1360.2	1353.4	1347.7	1344.3	1343.2
42.5°	1371.5	1365.8	1356.8	1350.0	1340.9	1335.2	1330.7	1329.6
45°	1355.6	1350.0	1342.0	1333.0	1323.9	1317.1	1312.6	1311.4
47.5°	1335.2	1328.4	1319.4	1310.3	1301.2	1293.3	1288.7	1287.6
50°	1309.2	1302.4	1293.3	1284.2	1274.0	1266.1	1260.4	1260.4
52.5°	1279.7	1271.7	1261.5	1251.3	1240.0	1232.1	1226.4	1225.3
55°	1241.1	1232.1	1221.9	1210.5	1198.1	1189.0	1182.2	1181.1
57.5°	1193.5	1183.3	1172.0	1159.5	1147.1	1136.9	1128.9	1127.8
60°	1133.5	1122.1	1110.8	1098.3	1084.7	1073.4	1065.5	1063.2
62.5°	1059.8	1047.3	1034.9	1023.5	1008.8	997.4	989.5	987.2
65°	972.5	962.3	949.8	936.2	920.4	909.0	901.1	900.0
67.5°	870.5	860.3	847.8	835.4	819.5	809.3	801.4	799.1
70°	758.3	749.2	739.0	726.6	712.9	702.7	694.8	693.7
72.5°	639.3	631.3	622.3	613.2	599.6	591.7	584.9	583.7
75°	516.9	508.9	502.1	495.3	485.1	479.5	472.7	472.7
77.5°	392.2	389.9	385.4	377.4	371.8	367.2	363.8	361.6
80°	274.3	272.0	269.8	265.2	261.8	260.7	258.4	256.2
82.5°	167.8	166.6	167.8	165.5	164.4	164.4	163.2	161.0
85°	85.0	86.1	85.0	83.9	83.9	83.9	83.9	82.7
87.5°	27.2	28.3	27.2	26.1	26.1	26.1	26.1	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)