

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: P197620

Luminaire Tested: **TT-C4-LED-E1-5MQ-PM-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115333)
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-E1-5MQ-PM-MS/DIM-7060
Description: TOPTIER LED AREA/SITE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7124.6 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

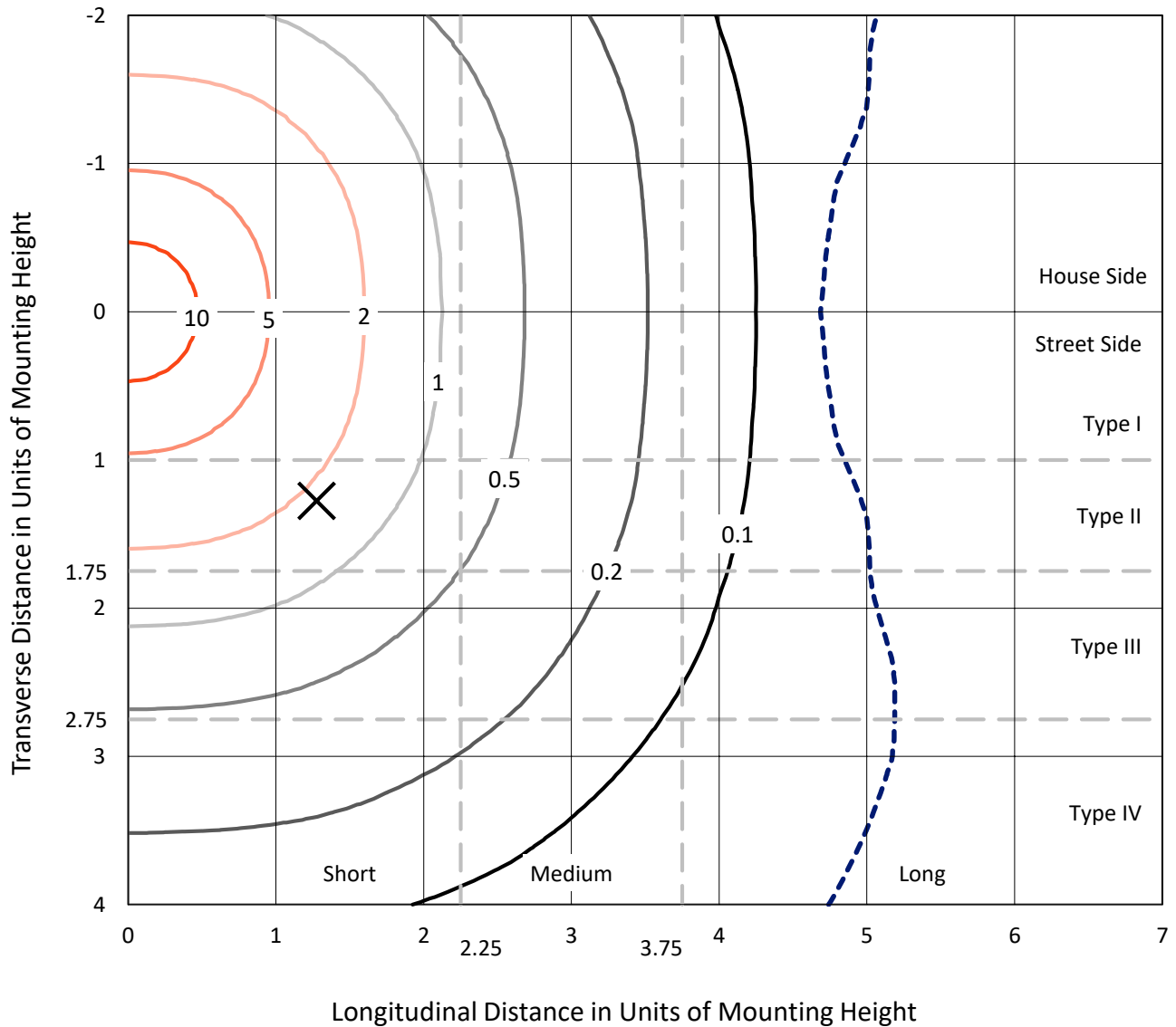
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

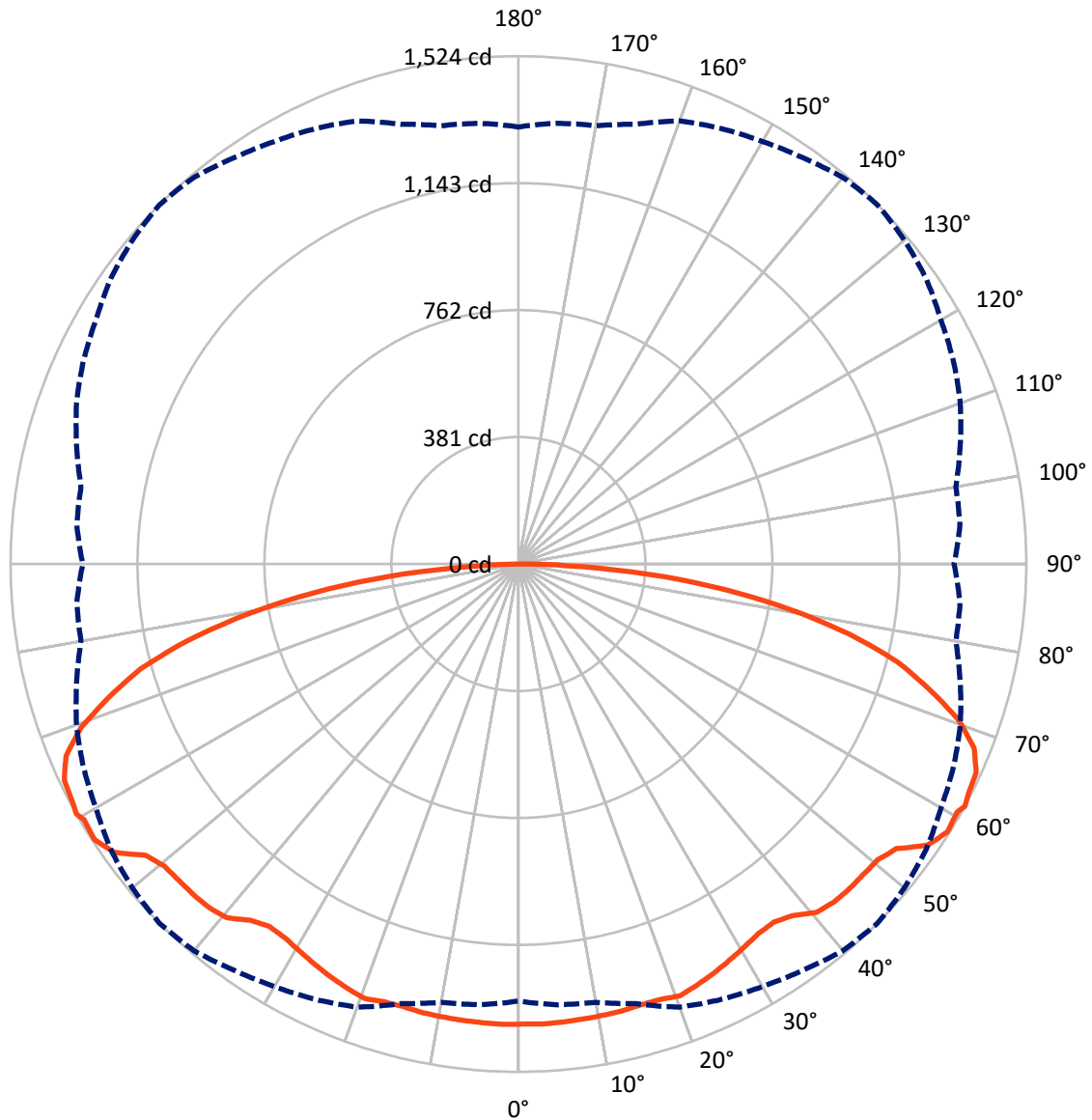
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3562.3 | 0.0 | 3562.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3562.3 | 0.0 | 3562.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7124.6 | 0.0 | 7124.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.7 | 1.8 |
| 10°-20° | 389.3 | 5.5 |
| 20°-30° | 626.4 | 8.8 |
| 30°-40° | 829.8 | 11.6 |
| 40°-50° | 1047.9 | 14.7 |
| 50°-60° | 1255.6 | 17.6 |
| 60°-70° | 1372.9 | 19.3 |
| 70°-80° | 1099.0 | 15.4 |
| 80°-90° | 371.8 | 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° | 7124.6 | 100.0 |
| 0°-180° | 7124.6 | 100.0 |



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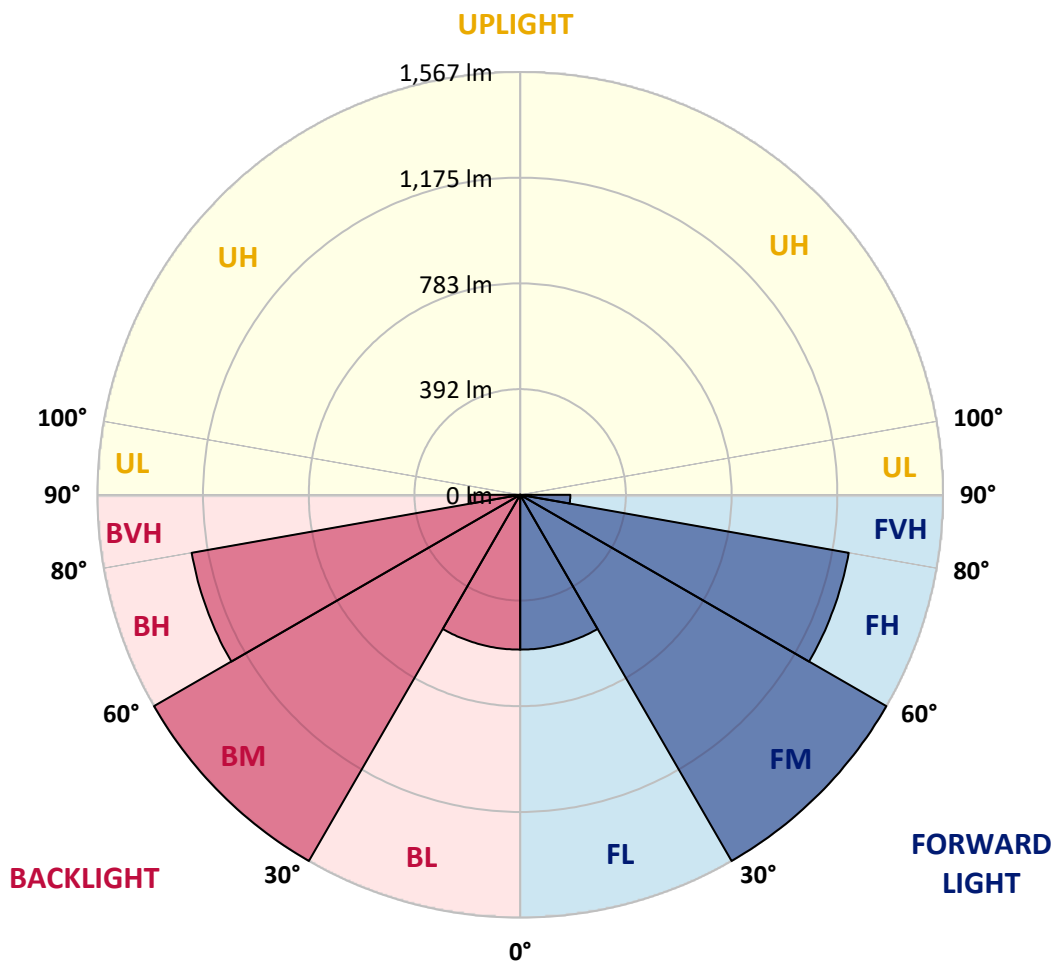
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 573.7 | 8.1 | | | |
| FM | (30°-60°) | 1566.7 | 22.0 | | | |
| FH | (60°-80°) | 1236.0 | 17.3 | | | G1/1800 |
| FVH | (80°-90°) | 185.9 | 2.6 | | | G2/225 |
| BL | (0°-30°) | 573.7 | 8.1 | B2/1000 | | |
| BM | (30°-60°) | 1566.7 | 22.0 | B2/2500 | | |
| BH | (60°-80°) | 1236.0 | 17.3 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 185.9 | 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° | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 |
| 2.5° | 1381.7 | 1380.4 | 1381.7 | 1381.7 | 1381.7 | 1381.7 | 1381.7 | 1381.7 | 1381.7 | 1381.7 | 1381.7 |
| 5° | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 |
| 7.5° | 1379.0 | 1379.0 | 1379.0 | 1379.0 | 1379.0 | 1379.0 | 1379.0 | 1379.0 | 1380.4 | 1379.0 | 1380.4 |
| 10° | 1376.4 | 1376.4 | 1376.4 | 1376.4 | 1377.6 | 1377.6 | 1377.6 | 1377.6 | 1377.6 | 1377.6 | 1377.6 |
| 12.5° | 1373.7 | 1373.7 | 1373.7 | 1373.7 | 1375.1 | 1375.1 | 1375.1 | 1375.1 | 1376.4 | 1376.4 | 1375.1 |
| 15° | 1371.0 | 1369.8 | 1369.8 | 1371.0 | 1371.0 | 1372.3 | 1372.3 | 1372.3 | 1373.7 | 1372.3 | 1372.3 |
| 17.5° | 1368.4 | 1367.1 | 1368.4 | 1369.8 | 1369.8 | 1371.0 | 1372.3 | 1372.3 | 1373.7 | 1373.7 | 1373.7 |
| 20° | 1372.3 | 1371.0 | 1372.3 | 1373.7 | 1375.1 | 1377.6 | 1379.0 | 1380.4 | 1381.7 | 1382.9 | 1382.9 |
| 22.5° | 1364.5 | 1363.1 | 1364.5 | 1364.5 | 1365.7 | 1367.1 | 1369.8 | 1371.0 | 1372.3 | 1372.3 | 1372.3 |
| 25° | 1352.5 | 1352.5 | 1353.7 | 1353.7 | 1355.1 | 1356.5 | 1357.8 | 1359.0 | 1359.0 | 1360.4 | 1359.0 |
| 27.5° | 1339.2 | 1339.2 | 1340.6 | 1340.6 | 1343.2 | 1343.2 | 1344.5 | 1345.9 | 1347.1 | 1347.1 | 1347.1 |
| 30° | 1323.2 | 1323.2 | 1324.6 | 1325.9 | 1328.6 | 1329.9 | 1331.2 | 1332.6 | 1333.9 | 1333.9 | 1333.9 |
| 32.5° | 1308.7 | 1307.3 | 1308.7 | 1311.3 | 1315.3 | 1317.9 | 1320.6 | 1322.0 | 1322.0 | 1322.0 | 1323.2 |
| 35° | 1296.7 | 1298.1 | 1300.7 | 1303.4 | 1308.7 | 1311.3 | 1314.0 | 1317.9 | 1319.3 | 1319.3 | 1319.3 |
| 37.5° | 1299.3 | 1300.7 | 1304.7 | 1310.0 | 1316.7 | 1324.6 | 1329.9 | 1335.1 | 1339.2 | 1337.9 | 1336.5 |
| 40° | 1316.7 | 1319.3 | 1325.9 | 1333.9 | 1344.5 | 1355.1 | 1363.1 | 1369.8 | 1373.7 | 1375.1 | 1373.7 |
| 42.5° | 1319.3 | 1322.0 | 1327.3 | 1339.2 | 1351.2 | 1363.1 | 1373.7 | 1380.4 | 1385.7 | 1387.0 | 1385.7 |
| 45° | 1317.9 | 1317.9 | 1325.9 | 1339.2 | 1351.2 | 1363.1 | 1376.4 | 1385.7 | 1390.9 | 1390.9 | 1390.9 |
| 47.5° | 1308.7 | 1312.6 | 1317.9 | 1331.2 | 1347.1 | 1359.0 | 1372.3 | 1381.7 | 1388.2 | 1392.3 | 1388.2 |
| 50° | 1308.7 | 1308.7 | 1317.9 | 1327.3 | 1341.8 | 1363.1 | 1381.7 | 1390.9 | 1397.6 | 1396.2 | 1397.6 |
| 52.5° | 1306.0 | 1314.0 | 1319.3 | 1332.6 | 1359.0 | 1380.4 | 1394.9 | 1408.2 | 1417.6 | 1418.8 | 1416.2 |
| 55° | 1329.9 | 1331.2 | 1343.2 | 1368.4 | 1393.7 | 1417.6 | 1444.0 | 1464.0 | 1479.9 | 1489.2 | 1475.9 |
| 57.5° | 1348.5 | 1341.8 | 1365.7 | 1387.0 | 1416.2 | 1452.0 | 1491.8 | 1507.7 | 1519.6 | 1517.1 | 1521.0 |
| 60° | 1323.2 | 1332.6 | 1349.8 | 1372.3 | 1418.8 | 1454.6 | 1475.9 | 1493.2 | 1507.7 | 1511.8 | 1506.5 |
| 61° | 1311.3 | 1327.3 | 1335.1 | 1365.7 | 1414.8 | 1441.4 | 1464.0 | 1487.9 | 1514.3 | 1523.7 | 1511.8 |
| 62.5° | 1291.4 | 1316.7 | 1314.0 | 1363.1 | 1393.7 | 1424.1 | 1466.6 | 1494.5 | 1513.1 | 1515.7 | 1513.1 |
| 65° | 1292.8 | 1288.7 | 1319.3 | 1355.1 | 1385.7 | 1440.1 | 1475.9 | 1493.2 | 1503.8 | 1509.1 | 1506.5 |
| 67.5° | 1250.3 | 1237.0 | 1274.2 | 1299.3 | 1351.2 | 1393.7 | 1428.1 | 1453.4 | 1469.3 | 1474.6 | 1467.9 |
| 70° | 1152.0 | 1161.4 | 1187.9 | 1226.4 | 1268.9 | 1320.6 | 1352.5 | 1385.7 | 1399.0 | 1400.2 | 1400.2 |
| 72.5° | 1057.8 | 1063.1 | 1089.7 | 1125.5 | 1174.6 | 1219.8 | 1251.5 | 1278.1 | 1290.1 | 1291.4 | 1294.0 |
| 75° | 933.0 | 938.3 | 968.9 | 1002.0 | 1051.2 | 1089.7 | 1112.2 | 1144.1 | 1161.4 | 1175.9 | 1164.0 |
| 77.5° | 788.3 | 797.7 | 821.6 | 857.4 | 902.5 | 923.8 | 963.6 | 1000.8 | 1012.7 | 1016.7 | 1012.7 |
| 80° | 625.2 | 637.1 | 658.3 | 706.1 | 726.0 | 760.5 | 799.1 | 814.9 | 825.5 | 828.2 | 829.5 |
| 82.5° | 449.9 | 459.3 | 481.8 | 514.9 | 537.6 | 565.4 | 591.9 | 611.8 | 623.8 | 621.2 | 619.9 |
| 85° | 265.4 | 268.1 | 292.0 | 314.5 | 331.8 | 349.0 | 370.3 | 384.9 | 387.6 | 392.9 | 391.5 |
| 87.5° | 79.7 | 80.9 | 91.6 | 103.6 | 111.5 | 119.5 | 132.8 | 150.0 | 153.9 | 143.4 | 144.7 |
| 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° | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 |
| 2.5° | 1381.7 | 1381.7 | 1381.7 | 1381.7 | 1381.7 | 1381.7 | 1380.4 | 1381.7 |
| 5° | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 | 1380.4 |
| 7.5° | 1380.4 | 1379.0 | 1379.0 | 1379.0 | 1379.0 | 1379.0 | 1379.0 | 1379.0 |
| 10° | 1377.6 | 1377.6 | 1377.6 | 1377.6 | 1376.4 | 1376.4 | 1376.4 | 1376.4 |
| 12.5° | 1375.1 | 1375.1 | 1375.1 | 1375.1 | 1373.7 | 1373.7 | 1373.7 | 1373.7 |
| 15° | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1371.0 | 1371.0 | 1371.0 | 1371.0 |
| 17.5° | 1373.7 | 1372.3 | 1371.0 | 1371.0 | 1369.8 | 1368.4 | 1368.4 | 1368.4 |
| 20° | 1381.7 | 1380.4 | 1377.6 | 1375.1 | 1373.7 | 1372.3 | 1372.3 | 1372.3 |
| 22.5° | 1371.0 | 1369.8 | 1367.1 | 1365.7 | 1365.7 | 1364.5 | 1363.1 | 1363.1 |
| 25° | 1359.0 | 1356.5 | 1356.5 | 1355.1 | 1355.1 | 1352.5 | 1352.5 | 1351.2 |
| 27.5° | 1345.9 | 1344.5 | 1343.2 | 1341.8 | 1341.8 | 1340.6 | 1339.2 | 1337.9 |
| 30° | 1333.9 | 1331.2 | 1328.6 | 1327.3 | 1325.9 | 1324.6 | 1324.6 | 1324.6 |
| 32.5° | 1322.0 | 1319.3 | 1317.9 | 1314.0 | 1311.3 | 1310.0 | 1308.7 | 1308.7 |
| 35° | 1317.9 | 1314.0 | 1311.3 | 1307.3 | 1303.4 | 1300.7 | 1299.3 | 1296.7 |
| 37.5° | 1333.9 | 1328.6 | 1324.6 | 1317.9 | 1308.7 | 1304.7 | 1300.7 | 1299.3 |
| 40° | 1368.4 | 1363.1 | 1355.1 | 1344.5 | 1333.9 | 1325.9 | 1319.3 | 1316.7 |
| 42.5° | 1380.4 | 1373.7 | 1363.1 | 1352.5 | 1339.2 | 1327.3 | 1322.0 | 1319.3 |
| 45° | 1384.3 | 1377.6 | 1363.1 | 1349.8 | 1337.9 | 1327.3 | 1319.3 | 1316.7 |
| 47.5° | 1380.4 | 1371.0 | 1357.8 | 1347.1 | 1329.9 | 1316.7 | 1311.3 | 1307.3 |
| 50° | 1389.6 | 1381.7 | 1364.5 | 1340.6 | 1325.9 | 1317.9 | 1308.7 | 1307.3 |
| 52.5° | 1408.2 | 1393.7 | 1377.6 | 1360.4 | 1332.6 | 1316.7 | 1311.3 | 1304.7 |
| 55° | 1464.0 | 1444.0 | 1416.2 | 1388.2 | 1371.0 | 1345.9 | 1329.9 | 1329.9 |
| 57.5° | 1506.5 | 1490.5 | 1454.6 | 1417.6 | 1385.7 | 1367.1 | 1343.2 | 1344.5 |
| 60° | 1494.5 | 1473.2 | 1456.0 | 1418.8 | 1373.7 | 1348.5 | 1339.2 | 1322.0 |
| 61° | 1493.2 | 1464.0 | 1440.1 | 1410.9 | 1372.3 | 1332.6 | 1329.9 | 1307.3 |
| 62.5° | 1495.7 | 1469.3 | 1424.1 | 1393.7 | 1364.5 | 1312.6 | 1311.3 | 1290.1 |
| 65° | 1493.2 | 1467.9 | 1445.4 | 1388.2 | 1348.5 | 1327.3 | 1282.1 | 1299.3 |
| 67.5° | 1452.0 | 1429.5 | 1388.2 | 1356.5 | 1295.4 | 1268.9 | 1243.7 | 1243.7 |
| 70° | 1387.0 | 1353.7 | 1314.0 | 1274.2 | 1233.1 | 1187.9 | 1165.3 | 1152.0 |
| 72.5° | 1278.1 | 1250.3 | 1218.4 | 1175.9 | 1125.5 | 1084.4 | 1063.1 | 1053.9 |
| 75° | 1141.4 | 1110.9 | 1083.1 | 1051.2 | 998.1 | 963.6 | 941.1 | 934.4 |
| 77.5° | 998.1 | 971.6 | 922.5 | 891.9 | 856.1 | 816.3 | 796.3 | 788.3 |
| 80° | 814.9 | 800.3 | 765.8 | 716.6 | 699.4 | 650.4 | 637.1 | 625.2 |
| 82.5° | 611.8 | 596.0 | 564.1 | 529.6 | 508.4 | 480.4 | 456.5 | 454.0 |
| 85° | 384.9 | 374.3 | 354.3 | 329.2 | 302.6 | 286.7 | 265.4 | 270.7 |
| 87.5° | 143.4 | 136.7 | 124.8 | 108.9 | 96.9 | 86.2 | 75.6 | 79.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)