

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: HALO COMMERCIAL

Report Number: P242017

Luminaire Tested: **PRS440D010-S4M24-41SWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P242017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS440D010-S4M24-41SWWH
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WALL WASH DISTRIBUTION, WW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2257.2 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.96 / 1.05
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

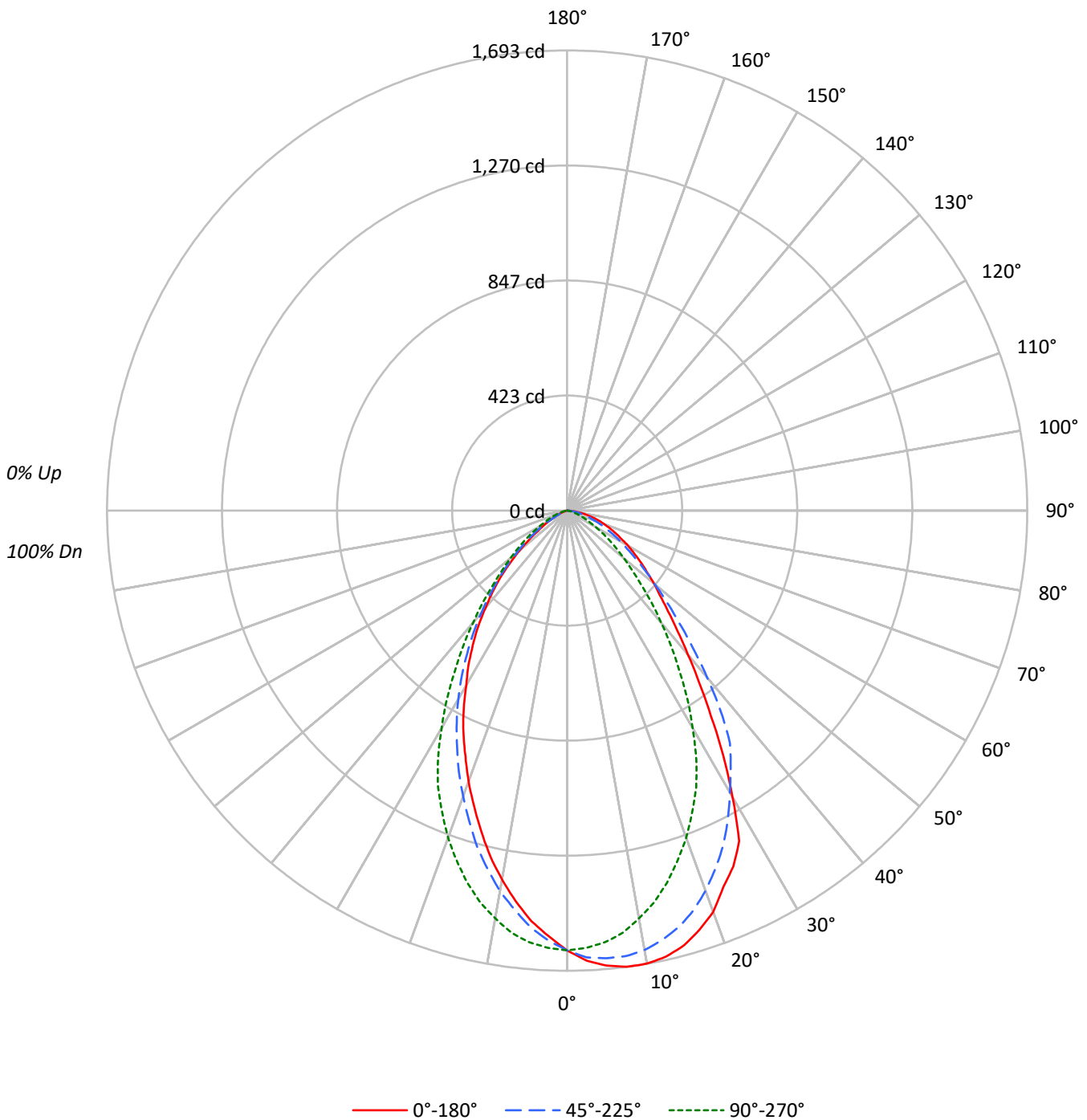
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242017

CATALOG NUMBER: PRS440D010-S4M24-41SWWH

Luminous Intensity Polar Plot





TEST NUMBER: P242017

CATALOG NUMBER: PRS440D010-S4M24-41SWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | | 90 | | | |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 | | | | | 80 | | | |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 80 | 76 | 73 | 71 | | | | | 71 | | | |
| 4 | 91 | 81 | 74 | 69 | 89 | 80 | 73 | 68 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 64 | | | | | 64 | | | |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 67 | 61 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 63 | 60 | 58 | | | | | 58 | | | |
| 6 | 79 | 68 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | 53 | | | |
| 7 | 75 | 63 | 56 | 51 | 73 | 62 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 50 | 48 | | | | | 48 | | | |
| 8 | 70 | 59 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 46 | 44 | | | | | 44 | | | |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 41 | | | | | 41 | | | |
| 10 | 62 | 51 | 44 | 40 | 61 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 38 | | | | | 38 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 123847 | 123847 | 123847 |
| 5° | 129146 | 122507 | 116475 |
| 10° | 131556 | 118428 | 107135 |
| 15° | 131330 | 112344 | 96788 |
| 20° | 127959 | 104288 | 86368 |
| 25° | 122056 | 94861 | 76289 |
| 30° | 107600 | 81570 | 65599 |
| 35° | 86238 | 67157 | 56514 |
| 40° | 69065 | 53757 | 46693 |
| 45° | 56960 | 41665 | 37411 |
| 50° | 49573 | 32271 | 27127 |
| 55° | 44025 | 25155 | 17295 |
| 60° | 39680 | 18631 | 11420 |
| 65° | 35571 | 13511 | 7118 |
| 70° | 32518 | 9668 | 4386 |
| 75° | 29042 | 5797 | 2336 |
| 80° | 24244 | 3482 | 1719 |
| 85° | 17213 | 0 | 0 |



TEST NUMBER: P242017

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.3 | 6.7 |
| 10°-20° | 400.6 | 17.7 |
| 20°-30° | 527.2 | 23.4 |
| 30°-40° | 489.4 | 21.7 |
| 40°-50° | 341.8 | 15.1 |
| 50°-60° | 200.7 | 8.9 |
| 60°-70° | 99.6 | 4.4 |
| 70°-80° | 40.2 | 1.8 |
| 80°-90° | 7.4 | 0.3 |
| 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°-30° | 1078.1 | 47.8 |
| 0°-40° | 1567.5 | 69.4 |
| 0°-60° | 2110.1 | 93.5 |
| 0°-90° | 2257.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2257.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1618 | 1618 | 1618 | 1618 | 1618 | |
| 5° | 1681 | 1653 | 1594 | 1540 | 1516 | 161 |
| 15° | 1657 | 1587 | 1418 | 1280 | 1221 | 465 |
| 25° | 1445 | 1359 | 1123 | 958 | 903 | 656 |
| 35° | 923 | 1045 | 719 | 640 | 605 | 581 |
| 45° | 526 | 581 | 385 | 357 | 346 | 412 |
| 55° | 330 | 306 | 188 | 153 | 130 | 296 |
| 65° | 196 | 157 | 75 | 31 | 39 | 196 |
| 75° | 98 | 67 | 20 | 8 | 8 | 104 |
| 85° | 20 | 12 | 0 | 0 | 0 | 23 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242017

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 |
| 2.5° | 1657.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1649.4 | 1649.4 | 1649.4 | 1645.5 | 1645.5 | 1645.5 |
| 5° | 1680.8 | 1680.8 | 1676.9 | 1676.9 | 1673.0 | 1673.0 | 1673.0 | 1669.1 | 1665.1 | 1661.2 | 1653.3 |
| 7.5° | 1692.6 | 1692.6 | 1688.7 | 1688.7 | 1684.8 | 1680.8 | 1680.8 | 1673.0 | 1669.1 | 1661.2 | 1653.3 |
| 10° | 1692.6 | 1692.6 | 1688.7 | 1688.7 | 1680.8 | 1676.9 | 1676.9 | 1673.0 | 1661.2 | 1653.3 | 1641.6 |
| 12.5° | 1680.8 | 1680.8 | 1676.9 | 1673.0 | 1669.1 | 1665.1 | 1661.2 | 1653.3 | 1641.6 | 1629.8 | 1618.0 |
| 15° | 1657.3 | 1657.3 | 1653.3 | 1649.4 | 1641.6 | 1637.6 | 1633.7 | 1625.9 | 1614.1 | 1598.4 | 1586.6 |
| 17.5° | 1618.0 | 1618.0 | 1614.1 | 1610.1 | 1606.2 | 1598.4 | 1594.4 | 1582.7 | 1570.9 | 1559.1 | 1543.4 |
| 20° | 1570.9 | 1566.9 | 1566.9 | 1563.0 | 1555.2 | 1555.2 | 1547.3 | 1535.5 | 1523.7 | 1504.1 | 1488.4 |
| 22.5° | 1500.2 | 1504.1 | 1504.1 | 1496.3 | 1488.4 | 1488.4 | 1480.5 | 1476.6 | 1460.9 | 1445.2 | 1425.6 |
| 25° | 1445.2 | 1441.3 | 1441.3 | 1433.4 | 1421.6 | 1421.6 | 1417.7 | 1405.9 | 1390.2 | 1374.5 | 1358.8 |
| 27.5° | 1370.6 | 1366.7 | 1366.7 | 1366.7 | 1354.9 | 1354.9 | 1347.0 | 1331.3 | 1315.6 | 1303.8 | 1280.3 |
| 30° | 1217.4 | 1229.2 | 1229.2 | 1241.0 | 1252.8 | 1260.6 | 1268.5 | 1260.6 | 1241.0 | 1221.4 | 1197.8 |
| 32.5° | 1068.2 | 1076.0 | 1083.9 | 1095.7 | 1111.4 | 1123.2 | 1135.0 | 1146.7 | 1162.4 | 1142.8 | 1119.2 |
| 35° | 922.9 | 930.7 | 934.7 | 950.4 | 970.0 | 973.9 | 989.6 | 1017.1 | 1032.8 | 1048.6 | 1044.6 |
| 37.5° | 797.2 | 801.1 | 809.0 | 820.8 | 836.5 | 848.3 | 860.1 | 879.7 | 907.2 | 930.7 | 926.8 |
| 40° | 691.2 | 687.3 | 699.0 | 703.0 | 718.7 | 730.5 | 746.2 | 761.9 | 789.4 | 801.1 | 801.1 |
| 42.5° | 600.9 | 600.9 | 604.8 | 612.6 | 624.4 | 632.3 | 640.1 | 655.8 | 679.4 | 683.3 | 683.3 |
| 45° | 526.2 | 526.2 | 530.2 | 538.0 | 545.9 | 545.9 | 557.7 | 573.4 | 577.3 | 581.2 | 581.2 |
| 47.5° | 463.4 | 467.3 | 467.3 | 471.3 | 475.2 | 483.0 | 487.0 | 494.8 | 494.8 | 494.8 | 494.8 |
| 50° | 416.3 | 416.3 | 416.3 | 420.2 | 424.1 | 428.1 | 428.1 | 428.1 | 428.1 | 424.1 | 420.2 |
| 52.5° | 369.2 | 369.2 | 369.2 | 373.1 | 373.1 | 377.0 | 377.0 | 373.1 | 369.2 | 365.2 | 361.3 |
| 55° | 329.9 | 326.0 | 329.9 | 329.9 | 333.8 | 333.8 | 329.9 | 326.0 | 322.0 | 314.2 | 306.3 |
| 57.5° | 290.6 | 290.6 | 290.6 | 290.6 | 294.5 | 290.6 | 290.6 | 286.7 | 278.8 | 271.0 | 263.1 |
| 60° | 259.2 | 255.3 | 255.3 | 255.3 | 259.2 | 255.3 | 255.3 | 247.4 | 243.5 | 231.7 | 223.8 |
| 62.5° | 223.8 | 223.8 | 223.8 | 227.8 | 223.8 | 223.8 | 219.9 | 212.1 | 208.1 | 200.3 | 192.4 |
| 65° | 196.4 | 196.4 | 196.4 | 196.4 | 192.4 | 188.5 | 188.5 | 180.7 | 176.7 | 168.9 | 157.1 |
| 67.5° | 168.9 | 168.9 | 168.9 | 168.9 | 164.9 | 161.0 | 161.0 | 153.2 | 149.2 | 141.4 | 133.5 |
| 70° | 145.3 | 141.4 | 145.3 | 141.4 | 137.5 | 133.5 | 133.5 | 129.6 | 121.7 | 113.9 | 106.0 |
| 72.5° | 121.7 | 121.7 | 121.7 | 117.8 | 113.9 | 110.0 | 110.0 | 102.1 | 98.2 | 94.3 | 86.4 |
| 75° | 98.2 | 98.2 | 98.2 | 94.3 | 90.3 | 90.3 | 86.4 | 82.5 | 78.5 | 74.6 | 66.8 |
| 77.5° | 74.6 | 74.6 | 74.6 | 74.6 | 70.7 | 66.8 | 66.8 | 62.8 | 58.9 | 55.0 | 51.1 |
| 80° | 55.0 | 55.0 | 55.0 | 51.1 | 51.1 | 51.1 | 47.1 | 47.1 | 43.2 | 39.3 | 35.3 |
| 82.5° | 35.3 | 35.3 | 35.3 | 35.3 | 31.4 | 31.4 | 31.4 | 27.5 | 27.5 | 23.6 | 19.6 |
| 85° | 19.6 | 19.6 | 19.6 | 19.6 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 11.8 | 11.8 |
| 87.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P242017

CATALOG NUMBER: PRS440D010-S4M24-41SWWH

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 |
| 2.5° | 1641.6 | 1637.6 | 1633.7 | 1629.8 | 1629.8 | 1625.9 | 1621.9 | 1618.0 | 1614.1 | 1610.1 | 1610.1 |
| 5° | 1649.4 | 1641.6 | 1637.6 | 1629.8 | 1625.9 | 1625.9 | 1618.0 | 1610.1 | 1602.3 | 1594.4 | 1586.6 |
| 7.5° | 1645.5 | 1637.6 | 1625.9 | 1618.0 | 1614.1 | 1606.2 | 1598.4 | 1586.6 | 1574.8 | 1566.9 | 1555.2 |
| 10° | 1629.8 | 1618.0 | 1606.2 | 1590.5 | 1586.6 | 1578.7 | 1566.9 | 1551.2 | 1539.5 | 1523.7 | 1512.0 |
| 12.5° | 1606.2 | 1590.5 | 1574.8 | 1559.1 | 1551.2 | 1543.4 | 1527.7 | 1508.0 | 1492.3 | 1476.6 | 1457.0 |
| 15° | 1566.9 | 1555.2 | 1531.6 | 1515.9 | 1504.1 | 1496.3 | 1476.6 | 1457.0 | 1437.3 | 1417.7 | 1402.0 |
| 17.5° | 1519.8 | 1504.1 | 1484.5 | 1460.9 | 1449.1 | 1441.3 | 1417.7 | 1390.2 | 1370.6 | 1350.9 | 1335.2 |
| 20° | 1472.7 | 1449.1 | 1425.6 | 1402.0 | 1386.3 | 1378.4 | 1350.9 | 1323.5 | 1303.8 | 1280.3 | 1256.7 |
| 22.5° | 1409.9 | 1382.4 | 1358.8 | 1331.3 | 1319.5 | 1303.8 | 1280.3 | 1248.8 | 1221.4 | 1201.7 | 1174.2 |
| 25° | 1335.2 | 1315.6 | 1284.2 | 1256.7 | 1241.0 | 1229.2 | 1197.8 | 1174.2 | 1146.7 | 1123.2 | 1095.7 |
| 27.5° | 1260.6 | 1233.1 | 1209.6 | 1182.1 | 1162.4 | 1146.7 | 1119.2 | 1087.8 | 1060.3 | 1028.9 | 1005.4 |
| 30° | 1178.2 | 1158.5 | 1127.1 | 1083.9 | 1064.3 | 1048.6 | 1013.2 | 977.9 | 950.4 | 922.9 | 903.3 |
| 32.5° | 1095.7 | 1056.4 | 1021.1 | 981.8 | 962.2 | 946.5 | 907.2 | 879.7 | 848.3 | 824.7 | 805.1 |
| 35° | 997.5 | 958.2 | 919.0 | 871.8 | 856.1 | 836.5 | 801.1 | 773.7 | 742.2 | 718.7 | 703.0 |
| 37.5° | 899.3 | 852.2 | 809.0 | 773.7 | 757.9 | 734.4 | 703.0 | 671.5 | 648.0 | 628.3 | 608.7 |
| 40° | 793.3 | 754.0 | 714.7 | 671.5 | 655.8 | 640.1 | 608.7 | 585.1 | 553.7 | 538.0 | 522.3 |
| 42.5° | 675.5 | 659.8 | 620.5 | 585.1 | 565.5 | 549.8 | 518.4 | 494.8 | 475.2 | 459.5 | 443.8 |
| 45° | 573.4 | 561.6 | 534.1 | 498.8 | 487.0 | 471.3 | 443.8 | 416.3 | 400.6 | 384.9 | 373.1 |
| 47.5° | 487.0 | 475.2 | 455.6 | 424.1 | 408.4 | 396.6 | 373.1 | 353.4 | 337.7 | 322.0 | 314.2 |
| 50° | 412.4 | 400.6 | 380.9 | 361.3 | 349.5 | 333.8 | 314.2 | 298.5 | 282.8 | 271.0 | 263.1 |
| 52.5° | 349.5 | 337.7 | 318.1 | 302.4 | 294.5 | 282.8 | 263.1 | 251.3 | 235.6 | 227.8 | 219.9 |
| 55° | 298.5 | 286.7 | 271.0 | 255.3 | 247.4 | 235.6 | 219.9 | 204.2 | 196.4 | 188.5 | 180.7 |
| 57.5° | 255.3 | 239.6 | 227.8 | 216.0 | 208.1 | 196.4 | 180.7 | 172.8 | 161.0 | 153.2 | 145.3 |
| 60° | 216.0 | 204.2 | 192.4 | 176.7 | 168.9 | 164.9 | 149.2 | 137.5 | 129.6 | 121.7 | 113.9 |
| 62.5° | 180.7 | 168.9 | 157.1 | 145.3 | 141.4 | 133.5 | 121.7 | 110.0 | 102.1 | 94.3 | 90.3 |
| 65° | 149.2 | 141.4 | 129.6 | 117.8 | 113.9 | 106.0 | 94.3 | 86.4 | 78.5 | 74.6 | 70.7 |
| 67.5° | 125.7 | 113.9 | 106.0 | 94.3 | 90.3 | 86.4 | 74.6 | 66.8 | 62.8 | 58.9 | 51.1 |
| 70° | 98.2 | 90.3 | 82.5 | 74.6 | 70.7 | 66.8 | 58.9 | 51.1 | 47.1 | 43.2 | 39.3 |
| 72.5° | 78.5 | 70.7 | 62.8 | 55.0 | 51.1 | 51.1 | 43.2 | 39.3 | 35.3 | 31.4 | 27.5 |
| 75° | 62.8 | 55.0 | 47.1 | 43.2 | 39.3 | 35.3 | 31.4 | 27.5 | 23.6 | 19.6 | 19.6 |
| 77.5° | 43.2 | 39.3 | 35.3 | 27.5 | 27.5 | 23.6 | 19.6 | 19.6 | 15.7 | 15.7 | 11.8 |
| 80° | 31.4 | 27.5 | 23.6 | 19.6 | 15.7 | 15.7 | 11.8 | 11.8 | 7.9 | 7.9 | 7.9 |
| 82.5° | 19.6 | 15.7 | 11.8 | 11.8 | 11.8 | 7.9 | 7.9 | 7.9 | 3.9 | 3.9 | 3.9 |
| 85° | 7.9 | 7.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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CATALOG NUMBER: PRS440D010-S4M24-41SWWH

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 |
| 2.5° | 1606.2 | 1602.3 | 1598.4 | 1594.4 | 1594.4 | 1594.4 | 1586.6 | 1586.6 | 1582.7 | 1578.7 | 1578.7 |
| 5° | 1582.7 | 1574.8 | 1566.9 | 1566.9 | 1559.1 | 1555.2 | 1551.2 | 1543.4 | 1539.5 | 1535.5 | 1531.6 |
| 7.5° | 1543.4 | 1535.5 | 1523.7 | 1519.8 | 1515.9 | 1508.0 | 1496.3 | 1492.3 | 1480.5 | 1476.6 | 1472.7 |
| 10° | 1500.2 | 1484.5 | 1476.6 | 1464.8 | 1464.8 | 1449.1 | 1441.3 | 1429.5 | 1421.6 | 1413.8 | 1405.9 |
| 12.5° | 1445.2 | 1425.6 | 1409.9 | 1405.9 | 1398.1 | 1382.4 | 1374.5 | 1358.8 | 1350.9 | 1343.1 | 1335.2 |
| 15° | 1382.4 | 1366.7 | 1347.0 | 1339.2 | 1331.3 | 1315.6 | 1303.8 | 1292.0 | 1280.3 | 1268.5 | 1260.6 |
| 17.5° | 1311.7 | 1296.0 | 1272.4 | 1264.6 | 1260.6 | 1241.0 | 1225.3 | 1209.6 | 1197.8 | 1189.9 | 1178.2 |
| 20° | 1237.1 | 1217.4 | 1197.8 | 1189.9 | 1182.1 | 1166.4 | 1150.7 | 1135.0 | 1119.2 | 1107.5 | 1099.6 |
| 22.5° | 1154.6 | 1131.0 | 1115.3 | 1107.5 | 1099.6 | 1080.0 | 1068.2 | 1052.5 | 1040.7 | 1028.9 | 1021.1 |
| 25° | 1076.0 | 1052.5 | 1032.8 | 1025.0 | 1013.2 | 997.5 | 985.7 | 973.9 | 958.2 | 946.5 | 938.6 |
| 27.5° | 985.7 | 962.2 | 946.5 | 942.5 | 930.7 | 919.0 | 903.3 | 887.5 | 879.7 | 867.9 | 860.1 |
| 30° | 887.5 | 871.8 | 860.1 | 848.3 | 844.3 | 832.6 | 824.7 | 812.9 | 801.1 | 789.4 | 777.6 |
| 32.5° | 785.4 | 773.7 | 757.9 | 757.9 | 754.0 | 746.2 | 738.3 | 730.5 | 722.6 | 714.7 | 703.0 |
| 35° | 691.2 | 675.5 | 667.6 | 667.6 | 659.8 | 655.8 | 655.8 | 648.0 | 640.1 | 636.2 | 632.3 |
| 37.5° | 596.9 | 589.1 | 577.3 | 577.3 | 573.4 | 573.4 | 569.4 | 565.5 | 565.5 | 565.5 | 561.6 |
| 40° | 510.5 | 502.7 | 494.8 | 490.9 | 490.9 | 490.9 | 487.0 | 490.9 | 490.9 | 490.9 | 490.9 |
| 42.5° | 432.0 | 428.1 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 420.2 | 424.1 | 424.1 |
| 45° | 369.2 | 361.3 | 357.4 | 353.4 | 357.4 | 353.4 | 353.4 | 357.4 | 357.4 | 361.3 | 357.4 |
| 47.5° | 306.3 | 306.3 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 298.5 | 302.4 |
| 50° | 259.2 | 251.3 | 251.3 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 243.5 | 247.4 | 247.4 |
| 52.5° | 216.0 | 208.1 | 208.1 | 204.2 | 204.2 | 200.3 | 200.3 | 196.4 | 196.4 | 196.4 | 196.4 |
| 55° | 176.7 | 168.9 | 168.9 | 164.9 | 164.9 | 161.0 | 161.0 | 157.1 | 153.2 | 153.2 | 149.2 |
| 57.5° | 141.4 | 133.5 | 133.5 | 129.6 | 129.6 | 125.7 | 121.7 | 117.8 | 113.9 | 113.9 | 110.0 |
| 60° | 110.0 | 106.0 | 102.1 | 102.1 | 98.2 | 94.3 | 90.3 | 82.5 | 78.5 | 78.5 | 74.6 |
| 62.5° | 86.4 | 82.5 | 78.5 | 74.6 | 74.6 | 66.8 | 62.8 | 55.0 | 51.1 | 47.1 | 51.1 |
| 65° | 66.8 | 62.8 | 58.9 | 55.0 | 51.1 | 47.1 | 39.3 | 35.3 | 31.4 | 35.3 | 35.3 |
| 67.5° | 47.1 | 43.2 | 39.3 | 39.3 | 35.3 | 31.4 | 23.6 | 23.6 | 23.6 | 23.6 | 27.5 |
| 70° | 35.3 | 31.4 | 27.5 | 23.6 | 19.6 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 19.6 |
| 72.5° | 23.6 | 19.6 | 15.7 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 75° | 15.7 | 11.8 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| 77.5° | 11.8 | 7.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 7.9 | 7.9 | 3.9 | 7.9 |
| 80° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 3.9 | 3.9 | 0.0 | 3.9 | 3.9 | 0.0 | 3.9 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P242017

CATALOG NUMBER: PRS440D010-S4M24-41SWWH

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 | 1618.0 |
| 2.5° | 1578.7 | 1574.8 | 1574.8 | 1570.9 | 1570.9 | 1574.8 | 1570.9 | 1566.9 |
| 5° | 1523.7 | 1523.7 | 1523.7 | 1519.8 | 1515.9 | 1515.9 | 1515.9 | 1515.9 |
| 7.5° | 1464.8 | 1460.9 | 1460.9 | 1460.9 | 1457.0 | 1449.1 | 1449.1 | 1449.1 |
| 10° | 1398.1 | 1390.2 | 1390.2 | 1386.3 | 1386.3 | 1382.4 | 1382.4 | 1378.4 |
| 12.5° | 1327.4 | 1319.5 | 1315.6 | 1311.7 | 1307.8 | 1303.8 | 1307.8 | 1303.8 |
| 15° | 1252.8 | 1244.9 | 1237.1 | 1237.1 | 1233.1 | 1225.3 | 1225.3 | 1221.4 |
| 17.5° | 1170.3 | 1158.5 | 1158.5 | 1154.6 | 1146.7 | 1146.7 | 1142.8 | 1138.9 |
| 20° | 1087.8 | 1080.0 | 1076.0 | 1072.1 | 1068.2 | 1060.3 | 1060.3 | 1060.3 |
| 22.5° | 1005.4 | 997.5 | 993.6 | 993.6 | 989.6 | 981.8 | 981.8 | 977.9 |
| 25° | 926.8 | 919.0 | 915.0 | 911.1 | 907.2 | 907.2 | 903.3 | 903.3 |
| 27.5° | 852.2 | 840.4 | 840.4 | 832.6 | 828.6 | 824.7 | 824.7 | 824.7 |
| 30° | 769.7 | 765.8 | 757.9 | 761.9 | 750.1 | 750.1 | 750.1 | 742.2 |
| 32.5° | 695.1 | 691.2 | 687.3 | 687.3 | 679.4 | 675.5 | 679.4 | 675.5 |
| 35° | 624.4 | 620.5 | 616.6 | 612.6 | 608.7 | 608.7 | 604.8 | 604.8 |
| 37.5° | 557.7 | 549.8 | 545.9 | 545.9 | 542.0 | 542.0 | 538.0 | 538.0 |
| 40° | 487.0 | 487.0 | 483.0 | 479.1 | 475.2 | 471.3 | 467.3 | 467.3 |
| 42.5° | 424.1 | 420.2 | 416.3 | 416.3 | 412.4 | 404.5 | 404.5 | 404.5 |
| 45° | 361.3 | 357.4 | 353.4 | 353.4 | 349.5 | 345.6 | 341.7 | 345.6 |
| 47.5° | 298.5 | 298.5 | 298.5 | 294.5 | 290.6 | 286.7 | 282.8 | 282.8 |
| 50° | 247.4 | 243.5 | 243.5 | 243.5 | 235.6 | 231.7 | 227.8 | 227.8 |
| 52.5° | 196.4 | 192.4 | 192.4 | 192.4 | 188.5 | 180.7 | 176.7 | 176.7 |
| 55° | 149.2 | 149.2 | 149.2 | 145.3 | 141.4 | 137.5 | 133.5 | 129.6 |
| 57.5° | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 102.1 | 102.1 |
| 60° | 74.6 | 78.5 | 78.5 | 82.5 | 82.5 | 78.5 | 74.6 | 74.6 |
| 62.5° | 55.0 | 58.9 | 58.9 | 58.9 | 58.9 | 55.0 | 55.0 | 55.0 |
| 65° | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 |
| 67.5° | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 |
| 70° | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 15.7 | 19.6 |
| 72.5° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 75° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| 77.5° | 3.9 | 7.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 80° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 82.5° | 3.9 | 3.9 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)