

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: P436857

Luminaire Tested: **TT-D4-830-U-5WQ-PM-HSS**

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P436857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-2)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-D4-830-U-5WQ-PM-HSS
Description: TOPTIER LED SITE LUMINAIRE
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5428.1 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U2 - G3

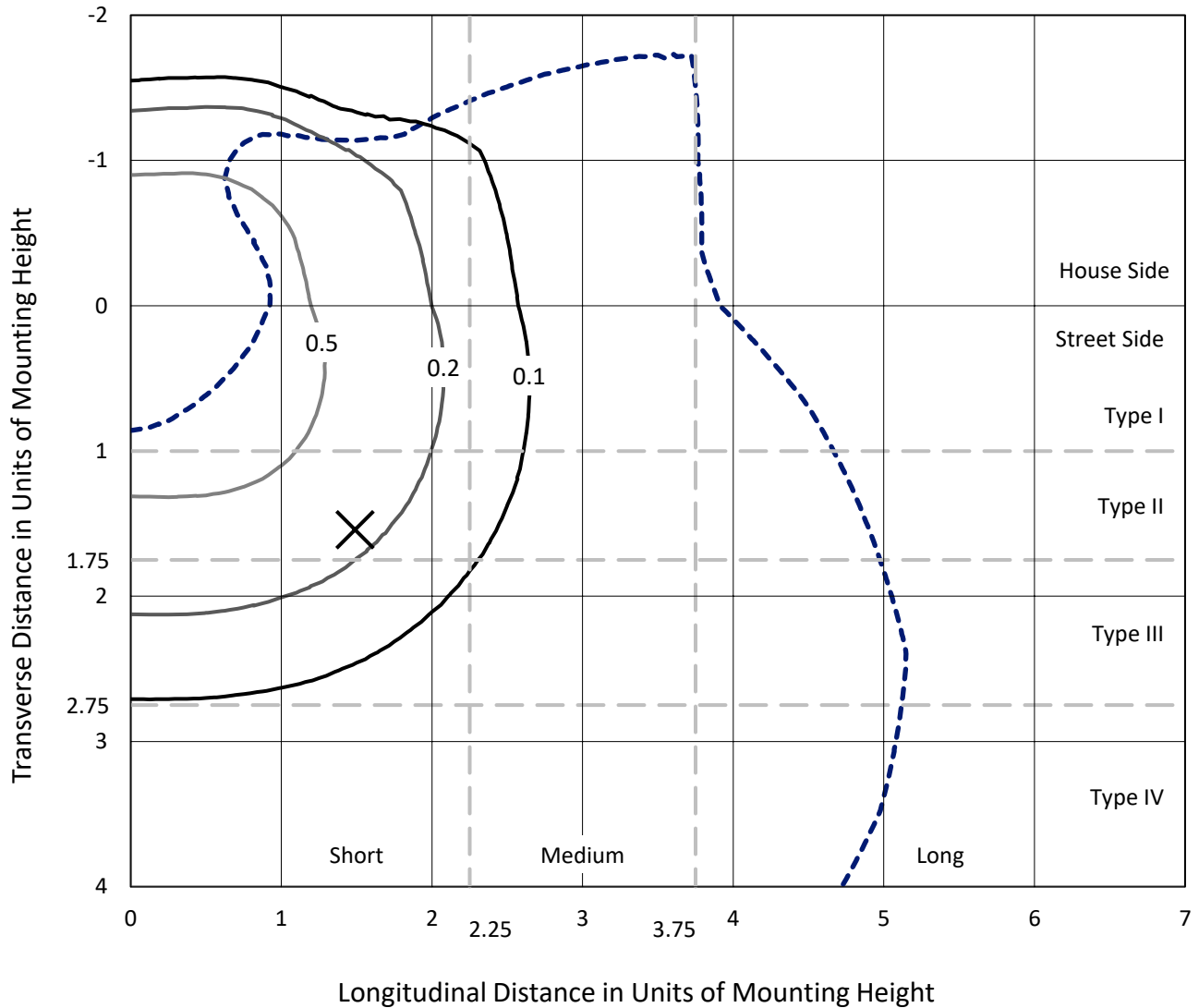
Input Watts (W): 57.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P436857
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Iso-Footcandle Lines of Horizontal Illumination

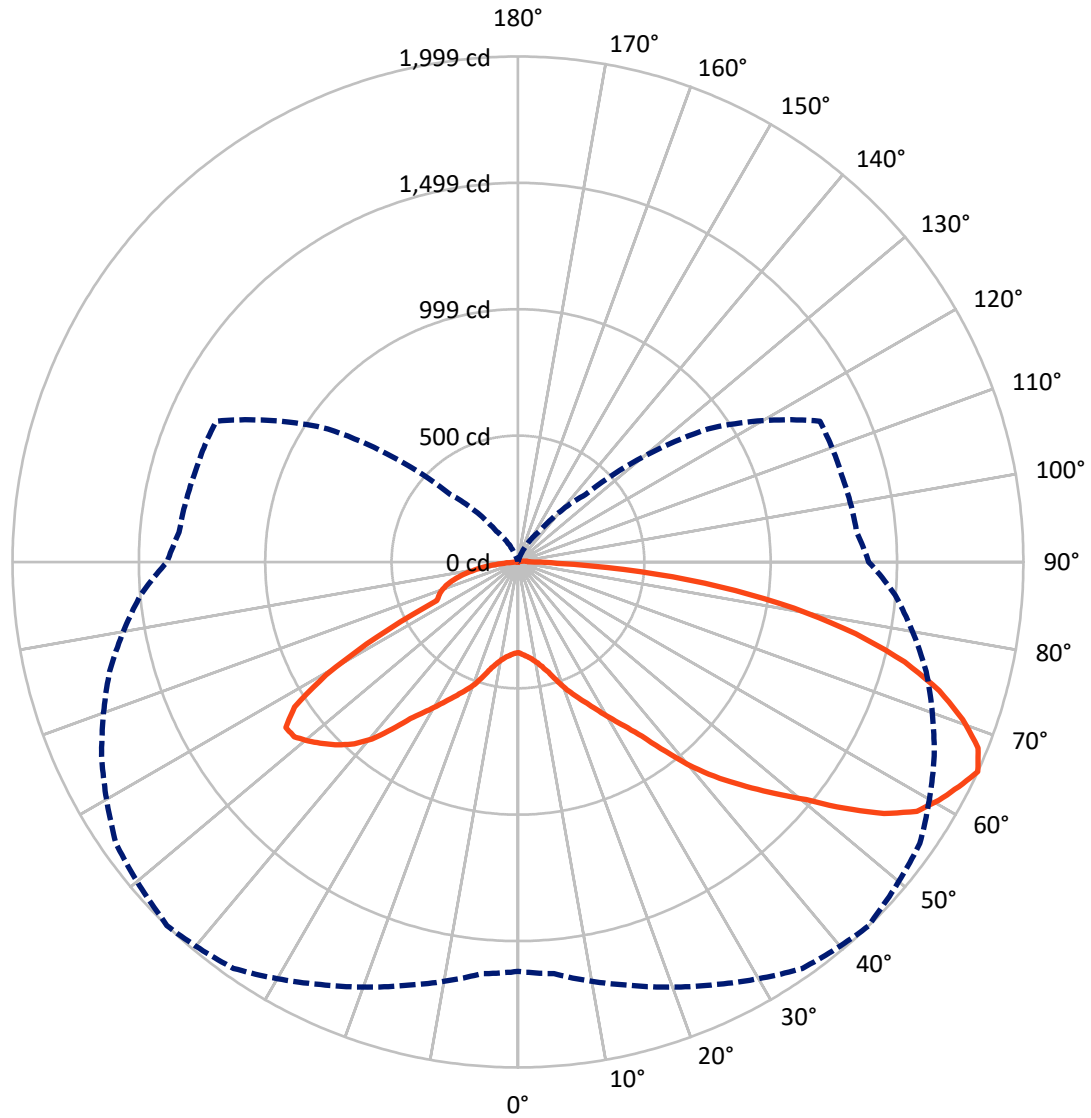
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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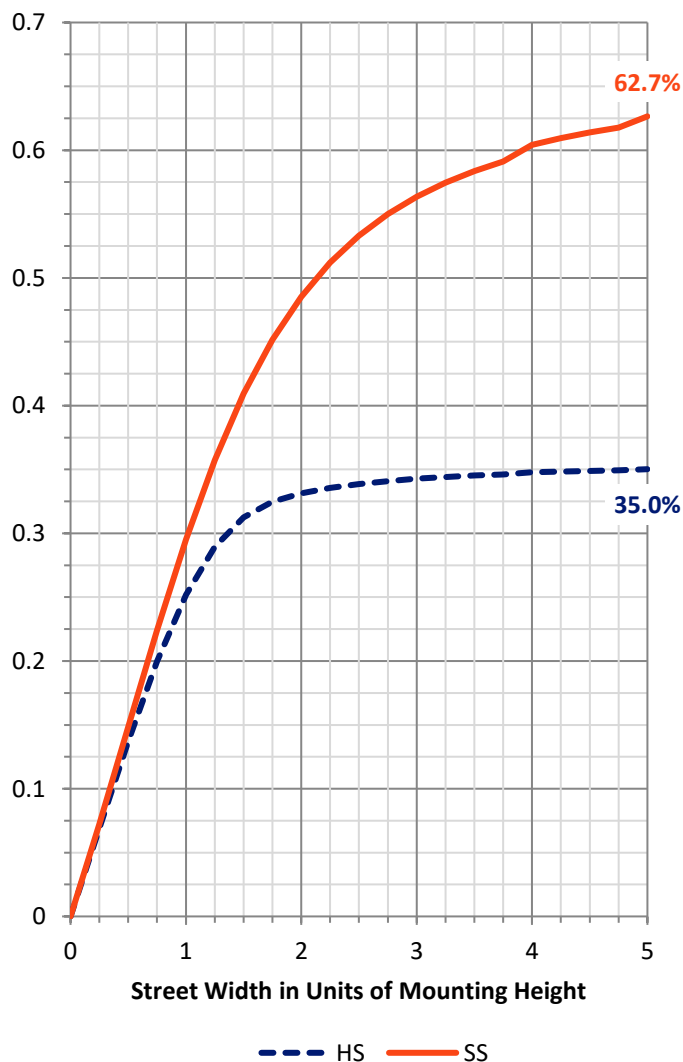
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1911.9 | 1.3 | 1913.2 |
| | % Fixture | 35.2 | 0.0 | 35.2 |
| Street Side | Lumens | 3492.9 | 22.0 | 3514.9 |
| | % Fixture | 64.3 | 0.4 | 64.8 |
| Total | Lumens | 5404.8 | 23.3 | 5428.1 |
| | % Fixture | 99.6 | 0.4 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.3 | 0.7 |
| 10°-20° | 128.9 | 2.4 |
| 20°-30° | 276.3 | 5.1 |
| 30°-40° | 500.4 | 9.2 |
| 40°-50° | 834.9 | 15.4 |
| 50°-60° | 1156.5 | 21.3 |
| 60°-70° | 1198.5 | 22.1 |
| 70°-80° | 964.5 | 17.8 |
| 80°-90° | 308.5 | 5.7 |
| 90°-100° | 15.6 | 0.3 |
| 100°-110° | 5.0 | 0.1 |
| 110°-120° | 1.0 | 0.0 |
| 120°-130° | 0.6 | 0.0 |
| 130°-140° | 0.4 | 0.0 |
| 140°-150° | 0.3 | 0.0 |
| 150°-160° | 0.2 | 0.0 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 5404.8 | 99.6 |
| 0°-180° | 5428.1 | 100.0 |

Coefficient of Utilization

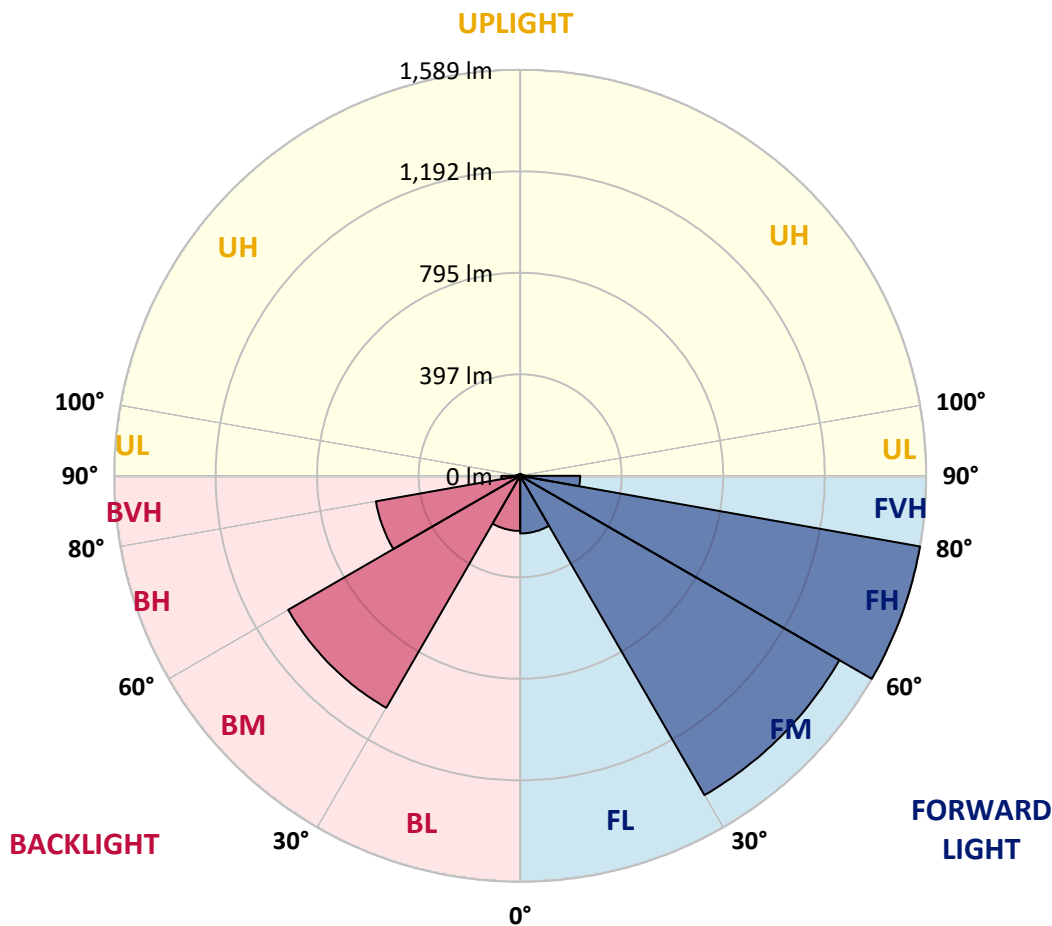


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 CATALOG NUMBER: TT-D4-830-U-5WQ-PM-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 225.7 | 4.2 | | | |
| FM (30°-60°) | 1443.1 | 26.6 | | | |
| FH (60°-80°) | 1589.4 | 29.3 | | | G1/1800 |
| FVH (80°-90°) | 234.7 | 4.3 | | | G3/500 |
| BL (0°-30°) | 215.8 | 4.0 | B1/500 | | |
| BM (30°-60°) | 1048.7 | 19.3 | B2/2500 | | |
| BH (60°-80°) | 573.6 | 10.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 73.8 | 1.4 | | | G1/100 |
| UL (90°-100°) | 15.6 | 0.3 | | U2/50 | |
| UH (100°-180°) | 7.7 | 0.1 | | U1/10 | |

BUG Rating: B2-U2-G3
 Type IV Short





REPORT NUMBER: P436857

CATALOG NUMBER: TT-D4-830-U-5WQ-PM-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 |
| 2.5° | 368.8 | 367.7 | 367.7 | 366.7 | 366.7 | 366.7 | 366.7 | 366.7 | 365.6 | 364.5 | 363.5 |
| 5° | 378.3 | 378.3 | 377.2 | 377.2 | 376.2 | 375.1 | 376.2 | 375.1 | 374.1 | 373.0 | 372.0 |
| 7.5° | 391.0 | 390.0 | 390.0 | 387.8 | 387.8 | 386.8 | 386.8 | 386.8 | 385.7 | 383.6 | 382.5 |
| 10° | 409.0 | 406.9 | 406.9 | 404.8 | 403.7 | 402.7 | 402.7 | 400.6 | 400.6 | 399.5 | 398.4 |
| 12.5° | 429.2 | 427.1 | 429.2 | 428.1 | 426.0 | 423.9 | 423.9 | 421.8 | 420.7 | 419.6 | 415.4 |
| 15° | 455.7 | 452.5 | 454.6 | 454.6 | 453.5 | 452.5 | 452.5 | 448.2 | 446.1 | 444.0 | 439.8 |
| 17.5° | 487.5 | 485.3 | 486.4 | 487.5 | 490.6 | 490.6 | 491.7 | 486.4 | 482.2 | 474.7 | 471.6 |
| 20° | 527.7 | 526.7 | 529.8 | 529.8 | 533.0 | 533.0 | 534.1 | 528.8 | 521.4 | 516.1 | 509.7 |
| 22.5° | 566.9 | 566.9 | 571.2 | 571.2 | 574.4 | 572.2 | 572.2 | 570.1 | 561.6 | 555.3 | 548.9 |
| 25° | 607.2 | 606.1 | 610.4 | 613.6 | 617.8 | 612.5 | 614.6 | 611.4 | 603.0 | 594.5 | 586.0 |
| 27.5° | 651.7 | 649.6 | 651.7 | 655.9 | 663.4 | 659.1 | 661.2 | 655.9 | 647.5 | 635.8 | 628.4 |
| 30° | 700.5 | 697.3 | 700.5 | 706.8 | 712.1 | 714.2 | 713.2 | 705.8 | 698.3 | 681.4 | 676.1 |
| 32.5° | 748.1 | 748.1 | 755.6 | 767.2 | 773.6 | 772.5 | 773.6 | 767.2 | 756.6 | 735.4 | 722.7 |
| 35° | 806.4 | 810.7 | 820.2 | 837.2 | 850.9 | 845.6 | 845.6 | 843.5 | 825.5 | 800.1 | 783.1 |
| 37.5° | 883.8 | 888.0 | 907.1 | 927.2 | 952.7 | 950.5 | 951.6 | 945.2 | 910.3 | 883.8 | 859.4 |
| 40° | 973.9 | 978.1 | 1006.7 | 1035.3 | 1059.7 | 1067.1 | 1068.2 | 1054.4 | 1016.2 | 978.1 | 939.9 |
| 42.5° | 1056.5 | 1061.8 | 1091.5 | 1131.7 | 1158.2 | 1169.9 | 1172.0 | 1149.8 | 1109.5 | 1066.0 | 1018.4 |
| 45° | 1139.2 | 1145.5 | 1179.4 | 1221.8 | 1260.0 | 1265.3 | 1266.3 | 1247.3 | 1202.7 | 1152.9 | 1091.5 |
| 47.5° | 1223.9 | 1229.2 | 1264.2 | 1315.1 | 1356.4 | 1367.0 | 1368.1 | 1350.0 | 1296.0 | 1235.6 | 1163.5 |
| 50° | 1301.3 | 1311.9 | 1359.6 | 1413.6 | 1468.7 | 1477.2 | 1478.3 | 1458.1 | 1394.5 | 1326.7 | 1231.4 |
| 52.5° | 1392.4 | 1397.7 | 1448.6 | 1538.7 | 1585.3 | 1618.1 | 1619.2 | 1580.0 | 1512.2 | 1421.0 | 1298.1 |
| 55° | 1498.4 | 1507.9 | 1559.9 | 1649.9 | 1733.6 | 1755.9 | 1762.3 | 1715.6 | 1625.6 | 1527.0 | 1382.9 |
| 57.5° | 1559.9 | 1577.9 | 1654.2 | 1740.0 | 1844.9 | 1859.8 | 1862.9 | 1814.2 | 1714.6 | 1606.5 | 1446.5 |
| 60° | 1592.7 | 1603.3 | 1683.8 | 1817.4 | 1899.0 | 1912.7 | 1911.7 | 1874.6 | 1775.0 | 1643.6 | 1476.1 |
| 62.5° | 1629.8 | 1647.8 | 1715.6 | 1851.3 | 1922.3 | 1956.2 | 1950.9 | 1912.7 | 1811.0 | 1666.9 | 1504.8 |
| 65° | 1619.2 | 1634.0 | 1733.6 | 1843.9 | 1961.5 | 1998.6 | 1991.2 | 1940.3 | 1816.3 | 1671.1 | 1497.3 |
| 67.5° | 1576.8 | 1588.5 | 1687.0 | 1823.7 | 1936.1 | 1962.5 | 1975.3 | 1925.5 | 1786.6 | 1625.6 | 1450.7 |
| 70° | 1489.9 | 1507.9 | 1603.3 | 1743.2 | 1846.0 | 1865.1 | 1867.2 | 1836.4 | 1711.4 | 1541.8 | 1373.4 |
| 72.5° | 1370.2 | 1385.0 | 1488.9 | 1630.9 | 1719.9 | 1742.1 | 1744.2 | 1697.6 | 1603.3 | 1427.4 | 1262.1 |
| 75° | 1227.1 | 1240.9 | 1321.4 | 1469.8 | 1557.7 | 1580.0 | 1577.9 | 1534.4 | 1434.8 | 1268.4 | 1114.8 |
| 77.5° | 1050.2 | 1075.6 | 1146.6 | 1268.4 | 1354.3 | 1365.9 | 1368.1 | 1320.4 | 1239.8 | 1095.7 | 946.3 |
| 80° | 828.7 | 853.0 | 933.6 | 1024.7 | 1096.8 | 1106.3 | 1109.5 | 1069.2 | 996.1 | 868.9 | 741.8 |
| 82.5° | 589.2 | 610.4 | 674.0 | 748.1 | 808.5 | 808.5 | 810.7 | 777.8 | 721.6 | 612.5 | 512.9 |
| 85° | 335.9 | 351.8 | 394.2 | 447.2 | 490.6 | 485.3 | 486.4 | 456.7 | 419.6 | 334.9 | 271.3 |
| 87.5° | 110.2 | 117.6 | 127.2 | 147.3 | 167.4 | 154.7 | 161.1 | 133.5 | 120.8 | 90.1 | 69.9 |
| 90° | 58.3 | 58.3 | 56.2 | 54.0 | 49.8 | 43.4 | 43.4 | 35.0 | 26.5 | 17.0 | 6.4 |
| 92.5° | 53.0 | 53.0 | 50.9 | 48.7 | 44.5 | 39.2 | 39.2 | 31.8 | 23.3 | 14.8 | 5.3 |
| 95° | 43.4 | 43.4 | 42.4 | 40.3 | 37.1 | 32.9 | 31.8 | 26.5 | 20.1 | 11.7 | 4.2 |
| 97.5° | 33.9 | 33.9 | 32.9 | 31.8 | 28.6 | 25.4 | 25.4 | 20.1 | 14.8 | 9.5 | 3.2 |
| 100° | 25.4 | 25.4 | 25.4 | 23.3 | 22.3 | 19.1 | 19.1 | 15.9 | 11.7 | 7.4 | 2.1 |
| 102.5° | 18.0 | 19.1 | 18.0 | 17.0 | 15.9 | 13.8 | 13.8 | 11.7 | 8.5 | 5.3 | 2.1 |
| 105° | 12.7 | 12.7 | 11.7 | 11.7 | 10.6 | 9.5 | 9.5 | 7.4 | 5.3 | 3.2 | 1.1 |
| 107.5° | 7.4 | 7.4 | 7.4 | 7.4 | 6.4 | 6.4 | 6.4 | 5.3 | 3.2 | 2.1 | 1.1 |
| 110° | 4.2 | 4.2 | 4.2 | 4.2 | 3.2 | 3.2 | 3.2 | 2.1 | 2.1 | 1.1 | 1.1 |



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 CATALOG NUMBER: TT-D4-830-U-5WQ-PM-HSS

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 115° | 1.1 | 1.1 | 1.1 | 2.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 117.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 120° | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 122.5° | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 125° | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 127.5° | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 130° | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 132.5° | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 140° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 142.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 145° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 147.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 150° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 160° | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 162.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 165° | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 167.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 170° | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 172.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 175° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 177.5° | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P436857

CATALOG NUMBER: TT-D4-830-U-5WQ-PM-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 | 358.2 |
| 2.5° | 363.5 | 363.5 | 362.4 | 361.4 | 361.4 | 361.4 | 360.3 | 360.3 | 360.3 | 359.2 | 359.2 |
| 5° | 372.0 | 370.9 | 370.9 | 369.8 | 369.8 | 368.8 | 368.8 | 367.7 | 366.7 | 366.7 | 365.6 |
| 7.5° | 383.6 | 382.5 | 380.4 | 381.5 | 379.4 | 378.3 | 377.2 | 377.2 | 377.2 | 376.2 | 376.2 |
| 10° | 397.4 | 397.4 | 395.3 | 395.3 | 393.1 | 392.1 | 391.0 | 391.0 | 392.1 | 392.1 | 391.0 |
| 12.5° | 415.4 | 414.3 | 414.3 | 413.3 | 412.2 | 411.2 | 412.2 | 412.2 | 411.2 | 410.1 | 409.0 |
| 15° | 437.7 | 437.7 | 437.7 | 438.7 | 437.7 | 437.7 | 437.7 | 436.6 | 434.5 | 432.4 | 432.4 |
| 17.5° | 471.6 | 470.5 | 468.4 | 469.4 | 471.6 | 474.7 | 471.6 | 468.4 | 465.2 | 465.2 | 464.1 |
| 20° | 506.5 | 507.6 | 507.6 | 508.7 | 511.8 | 515.0 | 510.8 | 508.7 | 506.5 | 504.4 | 502.3 |
| 22.5° | 544.7 | 545.7 | 545.7 | 544.7 | 546.8 | 545.7 | 543.6 | 541.5 | 539.4 | 536.2 | 534.1 |
| 25° | 581.8 | 582.8 | 581.8 | 580.7 | 581.8 | 578.6 | 575.4 | 572.2 | 566.9 | 561.6 | 561.6 |
| 27.5° | 623.1 | 622.0 | 617.8 | 618.9 | 616.7 | 614.6 | 608.3 | 600.8 | 593.4 | 588.1 | 588.1 |
| 30° | 666.5 | 666.5 | 658.1 | 662.3 | 658.1 | 657.0 | 643.2 | 633.7 | 623.1 | 615.7 | 614.6 |
| 32.5° | 714.2 | 712.1 | 705.8 | 710.0 | 705.8 | 701.5 | 684.6 | 671.8 | 653.8 | 643.2 | 642.2 |
| 35° | 771.5 | 766.2 | 760.9 | 765.1 | 765.1 | 753.4 | 736.5 | 713.2 | 687.7 | 675.0 | 674.0 |
| 37.5° | 841.4 | 838.2 | 831.9 | 837.2 | 841.4 | 829.7 | 804.3 | 770.4 | 734.4 | 715.3 | 714.2 |
| 40° | 918.7 | 914.5 | 911.3 | 918.7 | 921.9 | 910.3 | 876.4 | 828.7 | 779.9 | 752.4 | 748.1 |
| 42.5° | 991.9 | 982.3 | 977.0 | 987.6 | 984.5 | 971.7 | 925.1 | 870.0 | 803.2 | 771.5 | 766.2 |
| 45° | 1057.6 | 1047.0 | 1039.6 | 1049.1 | 1044.9 | 1019.4 | 967.5 | 893.3 | 812.8 | 773.6 | 767.2 |
| 47.5° | 1122.2 | 1106.3 | 1094.7 | 1107.4 | 1098.9 | 1059.7 | 996.1 | 905.0 | 802.2 | 755.6 | 745.0 |
| 50° | 1177.3 | 1158.2 | 1150.8 | 1165.7 | 1152.9 | 1097.8 | 1016.2 | 899.7 | 775.7 | 707.9 | 690.9 |
| 52.5° | 1243.0 | 1214.4 | 1207.0 | 1235.6 | 1207.0 | 1133.9 | 1020.5 | 887.0 | 715.3 | 633.7 | 617.8 |
| 55° | 1309.8 | 1278.0 | 1266.3 | 1292.8 | 1249.4 | 1141.3 | 999.3 | 813.8 | 624.2 | 537.3 | 513.9 |
| 57.5° | 1344.7 | 1315.1 | 1304.5 | 1323.6 | 1243.0 | 1069.2 | 905.0 | 678.2 | 487.5 | 390.0 | 364.5 |
| 60° | 1376.5 | 1324.6 | 1310.8 | 1336.3 | 1177.3 | 901.8 | 700.5 | 486.4 | 294.6 | 221.5 | 202.4 |
| 62.5° | 1398.8 | 1349.0 | 1320.4 | 1332.0 | 1056.5 | 655.9 | 402.7 | 234.2 | 111.3 | 77.4 | 76.3 |
| 65° | 1387.1 | 1344.7 | 1325.7 | 1317.2 | 917.7 | 377.2 | 148.4 | 59.3 | 3.2 | 3.2 | 2.1 |
| 67.5° | 1351.1 | 1304.5 | 1299.2 | 1306.6 | 908.2 | 362.4 | 137.8 | 54.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1271.6 | 1238.8 | 1238.8 | 1264.2 | 866.8 | 343.3 | 128.2 | 49.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1164.6 | 1139.2 | 1154.0 | 1192.1 | 805.4 | 316.8 | 115.5 | 44.5 | 0.0 | 0.0 | 0.0 |
| 75° | 1036.4 | 1009.9 | 1029.0 | 1071.3 | 729.1 | 282.9 | 100.7 | 38.1 | 0.0 | 0.0 | 0.0 |
| 77.5° | 873.2 | 855.2 | 884.8 | 924.0 | 627.3 | 238.4 | 82.7 | 30.7 | 0.0 | 0.0 | 0.0 |
| 80° | 680.3 | 670.8 | 710.0 | 745.0 | 506.5 | 187.6 | 62.5 | 22.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 469.4 | 465.2 | 503.4 | 539.4 | 362.4 | 131.4 | 42.4 | 14.8 | 0.0 | 0.0 | 0.0 |
| 85° | 245.8 | 245.8 | 275.5 | 308.4 | 202.4 | 71.0 | 21.2 | 6.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 54.0 | 51.9 | 56.2 | 72.1 | 40.3 | 13.8 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 90° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: TT-D4-830-U-5WQ-PM-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)