

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: P436751

Luminaire Tested: **TT-D1-830-U-RW-PM-HSS**

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P436751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-D1-830-U-RW-PM-HSS
Description: TOPTIER LED SITE LUMINAIRE
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2176.9 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U1 - G2

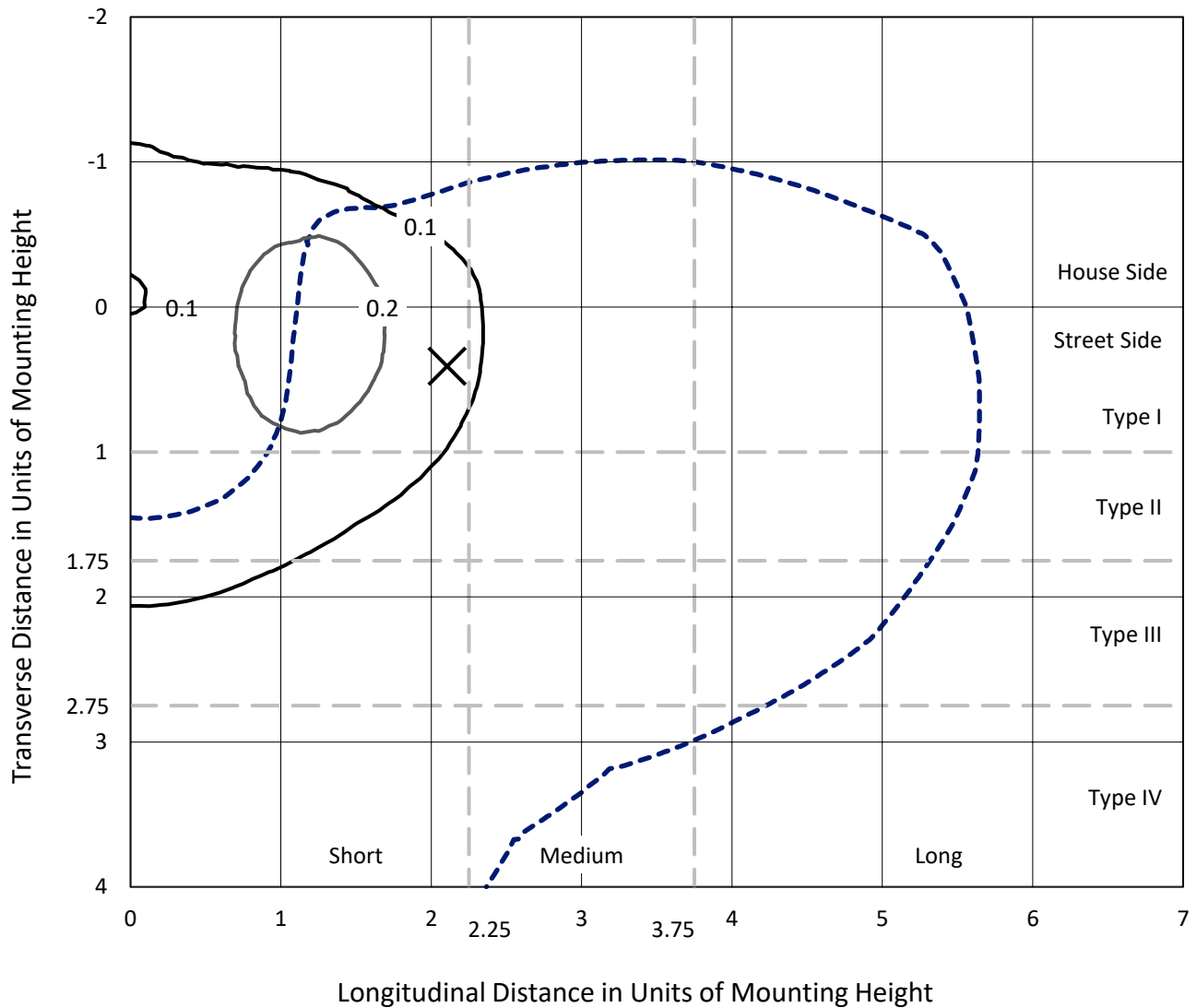
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P436751
 CATALOG NUMBER: TT-D1-830-U-RW-PM-HSS

Iso-Footcandle Lines of Horizontal Illumination

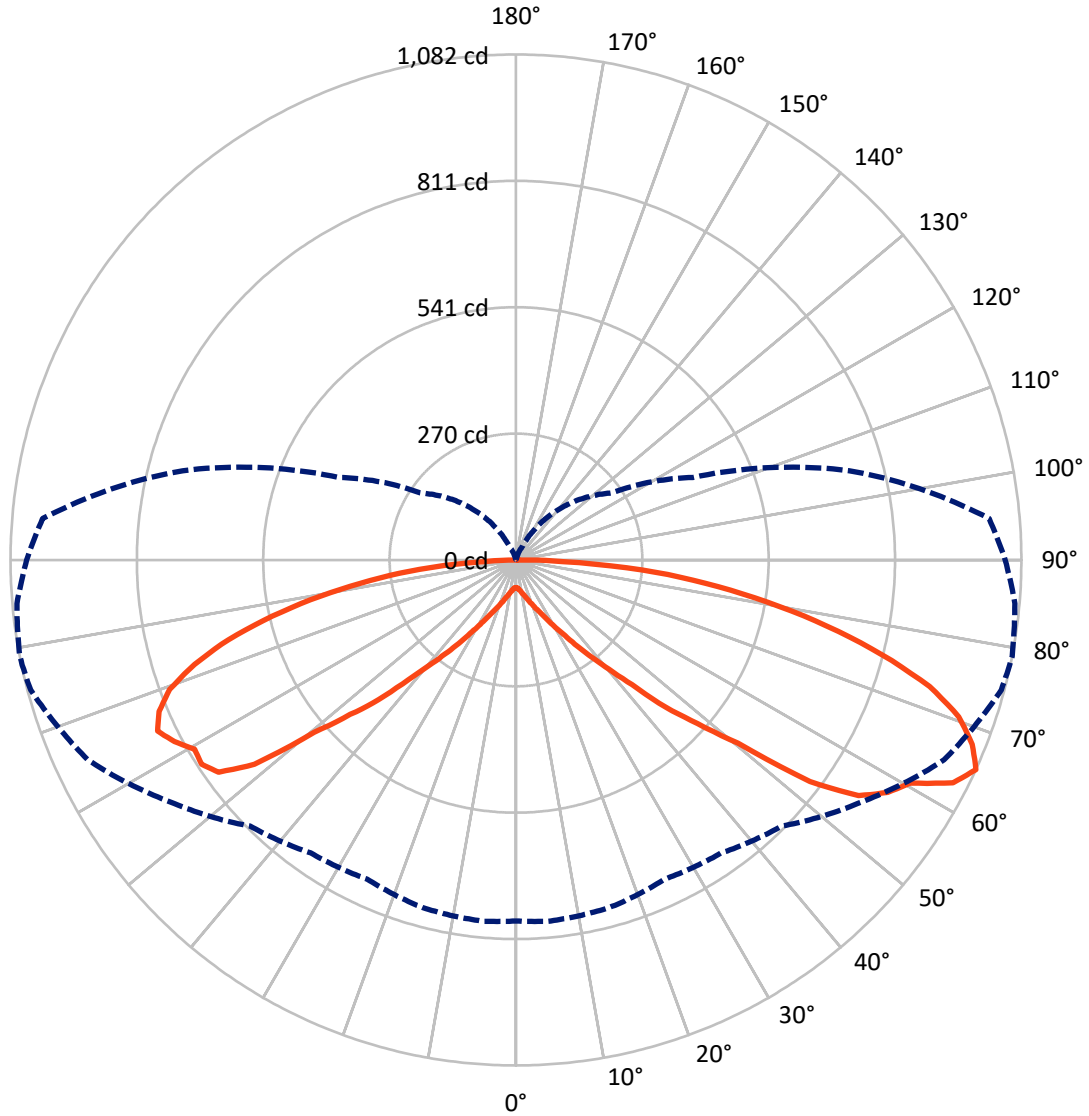
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P436751
CATALOG NUMBER: TT-D1-830-U-RW-PM-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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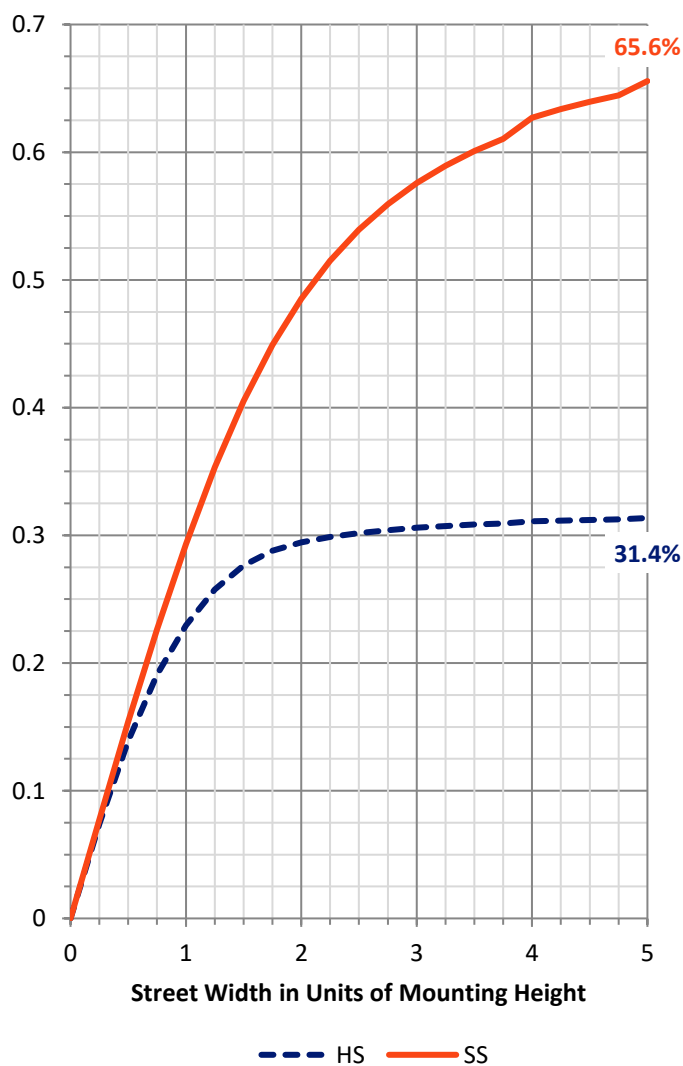
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 687.5 | 0.8 | 688.3 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 1479.1 | 9.6 | 1488.6 |
| | % Fixture | 67.9 | 0.4 | 68.4 |
| Total | Lumens | 2166.5 | 10.4 | 2176.9 |
| | % Fixture | 99.5 | 0.5 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.2 | 0.3 |
| 10°-20° | 23.4 | 1.1 |
| 20°-30° | 54.1 | 2.5 |
| 30°-40° | 115.9 | 5.3 |
| 40°-50° | 248.2 | 11.4 |
| 50°-60° | 468.8 | 21.5 |
| 60°-70° | 582.6 | 26.8 |
| 70°-80° | 498.7 | 22.9 |
| 80°-90° | 168.7 | 7.7 |
| 90°-100° | 7.3 | 0.3 |
| 100°-110° | 2.1 | 0.1 |
| 110°-120° | 0.4 | 0.0 |
| 120°-130° | 0.2 | 0.0 |
| 130°-140° | 0.1 | 0.0 |
| 140°-150° | 0.1 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 2166.5 | 99.5 |
| 0°-180° | 2176.9 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P436751

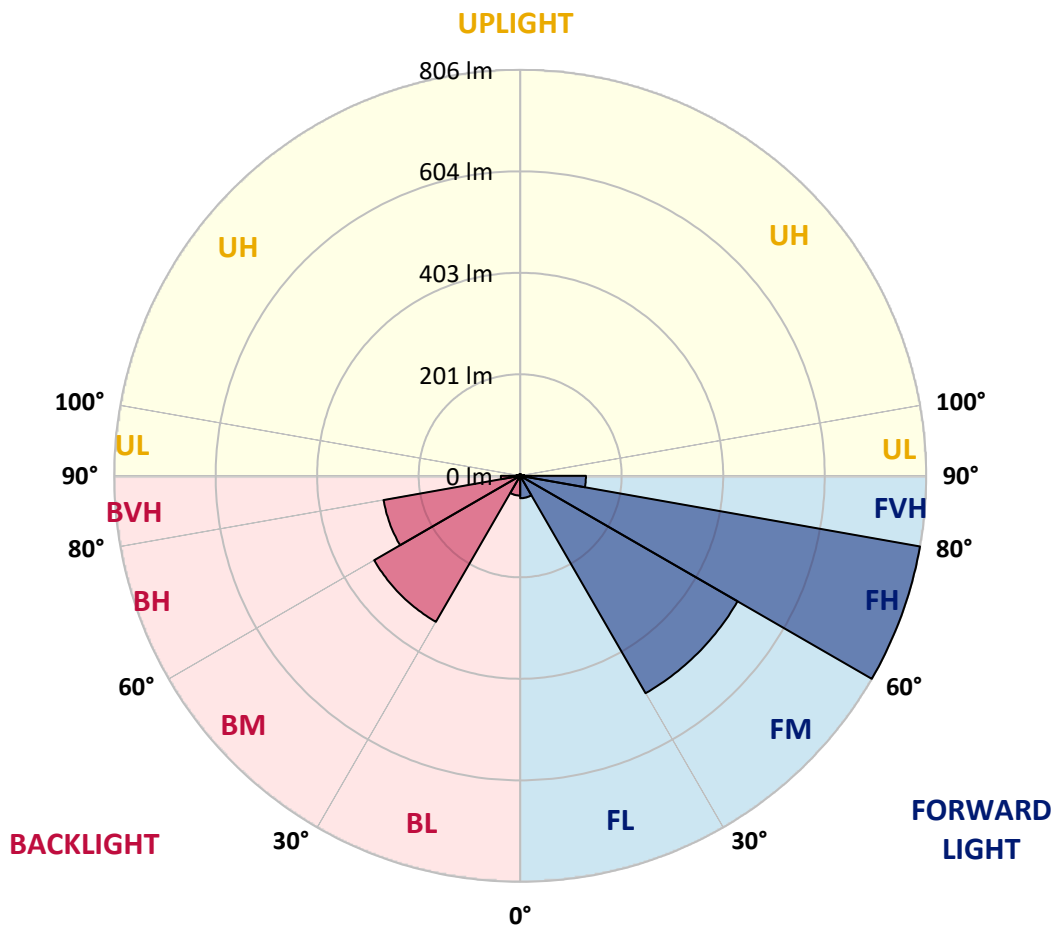
CATALOG NUMBER: TT-D1-830-U-RW-PM-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 44.5 | 2.0 | | | |
| FM (30°-60°) | 498.2 | 22.9 | | | |
| FH (60°-80°) | 805.8 | 37.0 | | | G1/1800 |
| FVH (80°-90°) | 130.5 | 6.0 | | | G2/225 |
| BL (0°-30°) | 39.2 | 1.8 | B0/110 | | |
| BM (30°-60°) | 334.6 | 15.4 | B1/1000 | | |
| BH (60°-80°) | 275.4 | 12.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 38.2 | 1.8 | | | G1/100 |
| UL (90°-100°) | 7.3 | 0.3 | | U1/10 | |
| UH (100°-180°) | 3.1 | 0.1 | | U1/10 | |

BUG Rating: B1-U1-G2

Type IV Short





REPORT NUMBER: P436751
 CATALOG NUMBER: TT-D1-830-U-RW-PM-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 |
| 2.5° | 62.4 | 62.4 | 62.4 | 61.8 | 61.8 | 61.8 | 61.3 | 60.8 | 60.2 | 60.2 | 60.2 |
| 5° | 65.6 | 65.6 | 65.6 | 65.6 | 65.1 | 64.6 | 64.0 | 63.5 | 62.9 | 62.9 | 62.4 |
| 7.5° | 70.0 | 69.4 | 70.0 | 69.4 | 69.4 | 68.9 | 68.4 | 67.8 | 66.7 | 66.7 | 66.2 |
| 10° | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 73.8 | 73.2 | 72.7 | 72.1 | 71.6 | 71.1 |
| 12.5° | 79.7 | 79.7 | 79.7 | 79.2 | 79.7 | 79.2 | 78.7 | 78.7 | 78.1 | 77.0 | 77.0 |
| 15° | 85.2 | 85.2 | 85.2 | 85.2 | 85.7 | 85.7 | 85.7 | 85.2 | 85.2 | 84.6 | 84.1 |
| 17.5° | 91.7 | 91.1 | 91.7 | 91.7 | 92.2 | 92.8 | 93.3 | 93.8 | 93.8 | 93.3 | 93.3 |
| 20° | 98.7 | 98.2 | 98.7 | 98.7 | 99.8 | 100.9 | 102.5 | 103.6 | 104.2 | 103.1 | 103.1 |
| 22.5° | 106.3 | 105.8 | 106.9 | 106.9 | 108.5 | 110.1 | 112.8 | 113.9 | 115.5 | 115.0 | 115.0 |
| 25° | 115.5 | 115.0 | 115.5 | 116.1 | 118.3 | 121.0 | 124.2 | 126.9 | 128.6 | 128.6 | 129.1 |
| 27.5° | 125.9 | 125.9 | 126.4 | 126.9 | 129.1 | 133.4 | 138.3 | 143.2 | 147.0 | 146.5 | 147.0 |
| 30° | 140.0 | 140.0 | 141.0 | 141.6 | 144.3 | 149.2 | 155.7 | 162.2 | 167.6 | 167.6 | 168.7 |
| 32.5° | 155.7 | 155.1 | 156.8 | 157.3 | 160.0 | 166.5 | 175.8 | 186.1 | 193.1 | 193.1 | 194.2 |
| 35° | 174.7 | 174.1 | 175.8 | 175.8 | 179.0 | 188.2 | 200.2 | 214.3 | 226.2 | 226.8 | 228.4 |
| 37.5° | 198.5 | 197.5 | 197.5 | 199.1 | 202.9 | 214.8 | 231.1 | 250.6 | 263.1 | 264.2 | 266.9 |
| 40° | 226.8 | 226.2 | 227.3 | 226.8 | 231.6 | 246.3 | 266.9 | 289.7 | 304.3 | 307.0 | 310.3 |
| 42.5° | 261.5 | 262.6 | 260.9 | 260.9 | 266.9 | 283.7 | 308.1 | 334.7 | 361.3 | 364.5 | 366.2 |
| 45° | 303.8 | 306.0 | 303.8 | 303.2 | 308.7 | 328.2 | 361.8 | 408.5 | 439.4 | 450.2 | 453.5 |
| 47.5° | 354.8 | 355.9 | 353.1 | 352.1 | 358.0 | 383.0 | 426.4 | 478.5 | 514.8 | 522.9 | 531.6 |
| 50° | 411.7 | 410.1 | 407.9 | 406.3 | 417.7 | 448.6 | 499.1 | 552.8 | 615.2 | 616.2 | 619.5 |
| 52.5° | 470.3 | 465.4 | 466.0 | 465.4 | 481.2 | 514.8 | 582.1 | 673.2 | 768.1 | 787.7 | 789.8 |
| 55° | 528.9 | 522.9 | 522.4 | 527.8 | 550.1 | 598.3 | 683.0 | 801.2 | 878.3 | 890.2 | 888.6 |
| 57.5° | 587.5 | 584.8 | 583.7 | 588.6 | 621.1 | 678.6 | 774.1 | 873.9 | 939.6 | 938.5 | 927.1 |
| 60° | 648.2 | 650.4 | 646.6 | 655.8 | 689.5 | 747.0 | 816.4 | 913.5 | 974.3 | 969.4 | 958.0 |
| 62.5° | 710.6 | 716.1 | 712.3 | 713.3 | 735.0 | 777.4 | 845.7 | 958.5 | 1042.6 | 1049.7 | 1036.7 |
| 65° | 772.5 | 776.3 | 770.3 | 753.5 | 765.4 | 805.0 | 902.7 | 1011.2 | 1075.2 | 1081.7 | 1071.9 |
| 67.5° | 824.6 | 828.3 | 807.7 | 781.2 | 782.8 | 811.5 | 897.2 | 1000.9 | 1057.8 | 1053.5 | 1037.7 |
| 70° | 869.0 | 862.0 | 828.3 | 782.8 | 763.8 | 777.4 | 858.2 | 949.9 | 1007.9 | 1005.7 | 987.3 |
| 72.5° | 883.7 | 874.5 | 817.5 | 747.0 | 709.5 | 714.4 | 793.1 | 875.0 | 922.2 | 926.0 | 903.8 |
| 75° | 860.4 | 844.6 | 766.5 | 678.1 | 629.8 | 633.1 | 700.3 | 775.7 | 813.7 | 809.4 | 792.0 |
| 77.5° | 776.3 | 760.5 | 675.9 | 581.5 | 534.3 | 539.2 | 592.4 | 651.5 | 683.0 | 681.3 | 669.4 |
| 80° | 644.5 | 630.3 | 556.0 | 468.1 | 425.3 | 428.0 | 468.7 | 515.3 | 539.8 | 545.2 | 538.7 |
| 82.5° | 476.3 | 466.5 | 413.9 | 342.8 | 308.1 | 307.6 | 338.5 | 374.3 | 398.2 | 409.6 | 405.2 |
| 85° | 294.6 | 289.7 | 260.4 | 214.3 | 189.9 | 189.3 | 207.8 | 234.3 | 256.0 | 271.2 | 261.5 |
| 87.5° | 117.2 | 115.5 | 106.9 | 86.3 | 75.4 | 71.6 | 67.3 | 84.1 | 85.7 | 101.4 | 100.9 |
| 90° | 28.8 | 28.2 | 27.7 | 26.0 | 23.3 | 20.1 | 16.3 | 11.9 | 7.6 | 6.0 | 3.3 |
| 92.5° | 25.5 | 25.5 | 25.0 | 23.3 | 21.2 | 17.9 | 14.6 | 10.8 | 7.1 | 5.4 | 2.7 |
| 95° | 20.6 | 20.6 | 20.1 | 19.0 | 16.8 | 14.6 | 11.4 | 8.7 | 5.4 | 4.3 | 2.2 |
| 97.5° | 15.7 | 15.2 | 15.2 | 14.1 | 13.0 | 10.8 | 8.7 | 6.5 | 4.3 | 3.3 | 1.6 |
| 100° | 11.4 | 11.4 | 10.8 | 10.3 | 9.2 | 8.1 | 6.5 | 4.9 | 2.7 | 2.2 | 1.1 |
| 102.5° | 8.1 | 7.6 | 7.6 | 7.6 | 6.5 | 5.4 | 4.3 | 3.3 | 2.2 | 1.6 | 0.5 |
| 105° | 5.4 | 4.9 | 4.9 | 4.9 | 4.3 | 3.8 | 2.7 | 2.2 | 1.1 | 1.1 | 0.5 |
| 107.5° | 3.3 | 3.3 | 3.3 | 3.3 | 2.7 | 2.2 | 1.6 | 1.1 | 0.5 | 0.5 | 0.5 |
| 110° | 1.6 | 1.6 | 1.6 | 2.2 | 1.6 | 1.6 | 1.1 | 0.5 | 0.5 | 0.5 | 0.5 |



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 CATALOG NUMBER: TT-D1-830-U-RW-PM-HSS

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 115° | 0.5 | 0.5 | 0.5 | 1.1 | 1.1 | 0.5 | 0.5 | 0.0 | 0.0 | 0.5 | 0.5 |
| 117.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 120° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 122.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 125° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 130° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 135° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | 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 |



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 CATALOG NUMBER: TT-D1-830-U-RW-PM-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 |
| 2.5° | 59.7 | 59.7 | 59.7 | 59.1 | 59.1 | 59.1 | 58.6 | 58.6 | 58.0 | 58.0 | 58.0 |
| 5° | 61.8 | 61.8 | 61.3 | 61.3 | 60.8 | 60.2 | 60.2 | 59.7 | 59.7 | 59.1 | 59.1 |
| 7.5° | 65.6 | 65.6 | 65.1 | 64.6 | 63.5 | 62.9 | 62.4 | 61.8 | 61.8 | 61.3 | 61.3 |
| 10° | 70.5 | 70.5 | 69.4 | 68.4 | 67.3 | 66.2 | 65.6 | 64.6 | 64.0 | 64.0 | 64.0 |
| 12.5° | 76.5 | 75.9 | 74.9 | 73.2 | 72.1 | 70.5 | 69.4 | 68.4 | 67.3 | 67.3 | 67.3 |
| 15° | 83.5 | 83.5 | 81.4 | 79.7 | 77.6 | 75.4 | 73.8 | 72.1 | 71.1 | 70.5 | 70.5 |
| 17.5° | 92.2 | 92.2 | 89.5 | 86.8 | 84.1 | 81.4 | 79.2 | 77.0 | 75.9 | 75.4 | 75.4 |
| 20° | 102.0 | 102.0 | 99.3 | 96.0 | 92.2 | 88.4 | 85.2 | 82.5 | 80.8 | 80.3 | 80.3 |
| 22.5° | 113.9 | 113.9 | 110.1 | 105.8 | 100.9 | 95.5 | 91.1 | 87.9 | 86.3 | 85.2 | 85.2 |
| 25° | 127.5 | 126.4 | 122.6 | 117.2 | 110.1 | 103.6 | 97.6 | 94.4 | 92.2 | 90.6 | 91.1 |
| 27.5° | 145.9 | 144.3 | 139.4 | 130.2 | 121.5 | 112.8 | 105.8 | 101.4 | 98.7 | 97.6 | 98.2 |
| 30° | 167.1 | 165.5 | 158.4 | 148.1 | 135.1 | 123.7 | 115.0 | 110.1 | 107.4 | 105.8 | 106.3 |
| 32.5° | 192.6 | 190.4 | 181.7 | 167.6 | 152.4 | 136.2 | 125.3 | 119.3 | 116.6 | 115.0 | 114.5 |
| 35° | 226.2 | 223.5 | 212.6 | 193.1 | 172.0 | 152.4 | 137.2 | 129.6 | 126.9 | 125.3 | 125.9 |
| 37.5° | 264.2 | 260.4 | 245.7 | 221.9 | 195.3 | 170.3 | 153.0 | 143.2 | 140.0 | 137.2 | 137.2 |
| 40° | 307.6 | 303.2 | 284.3 | 252.8 | 220.8 | 189.9 | 167.6 | 156.8 | 153.0 | 153.0 | 153.0 |
| 42.5° | 361.8 | 357.5 | 335.8 | 289.7 | 247.4 | 211.0 | 184.4 | 172.0 | 168.2 | 169.3 | 169.3 |
| 45° | 445.9 | 439.9 | 405.2 | 344.5 | 282.1 | 232.7 | 201.8 | 187.7 | 185.0 | 187.7 | 187.7 |
| 47.5° | 522.9 | 515.3 | 464.4 | 395.5 | 316.3 | 254.4 | 219.2 | 202.9 | 201.8 | 207.8 | 207.8 |
| 50° | 609.2 | 599.4 | 545.7 | 436.7 | 343.9 | 278.3 | 234.9 | 215.4 | 215.9 | 224.6 | 227.3 |
| 52.5° | 776.3 | 766.0 | 673.2 | 511.5 | 373.8 | 287.0 | 241.4 | 218.1 | 218.1 | 227.8 | 231.6 |
| 55° | 875.5 | 854.4 | 733.4 | 560.4 | 386.2 | 297.3 | 238.7 | 207.2 | 206.1 | 217.0 | 220.2 |
| 57.5° | 908.1 | 886.4 | 745.9 | 546.3 | 378.1 | 284.3 | 223.0 | 177.9 | 175.8 | 189.9 | 188.8 |
| 60° | 934.7 | 905.9 | 725.8 | 499.1 | 332.0 | 256.6 | 192.6 | 132.4 | 123.1 | 135.6 | 135.1 |
| 62.5° | 1009.5 | 978.6 | 726.9 | 443.7 | 277.7 | 214.3 | 144.8 | 74.3 | 55.3 | 65.1 | 60.8 |
| 65° | 1047.0 | 1016.6 | 738.3 | 417.7 | 250.1 | 177.4 | 103.6 | 30.4 | 2.2 | 2.2 | 1.1 |
| 67.5° | 1015.0 | 987.8 | 723.7 | 411.2 | 246.3 | 176.3 | 105.2 | 29.8 | 0.0 | 0.0 | 0.0 |
| 70° | 968.3 | 942.3 | 690.0 | 388.4 | 233.8 | 169.8 | 103.1 | 29.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 886.4 | 859.8 | 632.0 | 355.9 | 214.8 | 155.7 | 95.5 | 28.2 | 0.0 | 0.0 | 0.0 |
| 75° | 778.4 | 758.4 | 558.2 | 313.5 | 189.3 | 137.2 | 84.6 | 25.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 659.1 | 635.2 | 468.1 | 260.9 | 158.4 | 113.9 | 71.6 | 20.6 | 0.0 | 0.0 | 0.0 |
| 80° | 528.9 | 511.5 | 368.9 | 204.5 | 122.6 | 89.0 | 55.9 | 15.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 393.3 | 378.6 | 272.9 | 146.5 | 87.3 | 61.8 | 38.5 | 10.3 | 0.0 | 0.0 | 0.0 |
| 85° | 258.2 | 254.4 | 175.2 | 89.0 | 52.1 | 34.2 | 20.6 | 4.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 93.3 | 96.6 | 64.0 | 25.5 | 14.1 | 6.0 | 2.7 | 0.5 | 0.0 | 0.0 | 0.0 |
| 90° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P436751
 CATALOG NUMBER: TT-D1-830-U-RW-PM-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 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)