

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: INVUE

Report Number: P401041

Luminaire Tested: **ENT-SA1A-830-U-SLL-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1A-830-U-SLL-HSS
Description: ENTRI LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1633 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

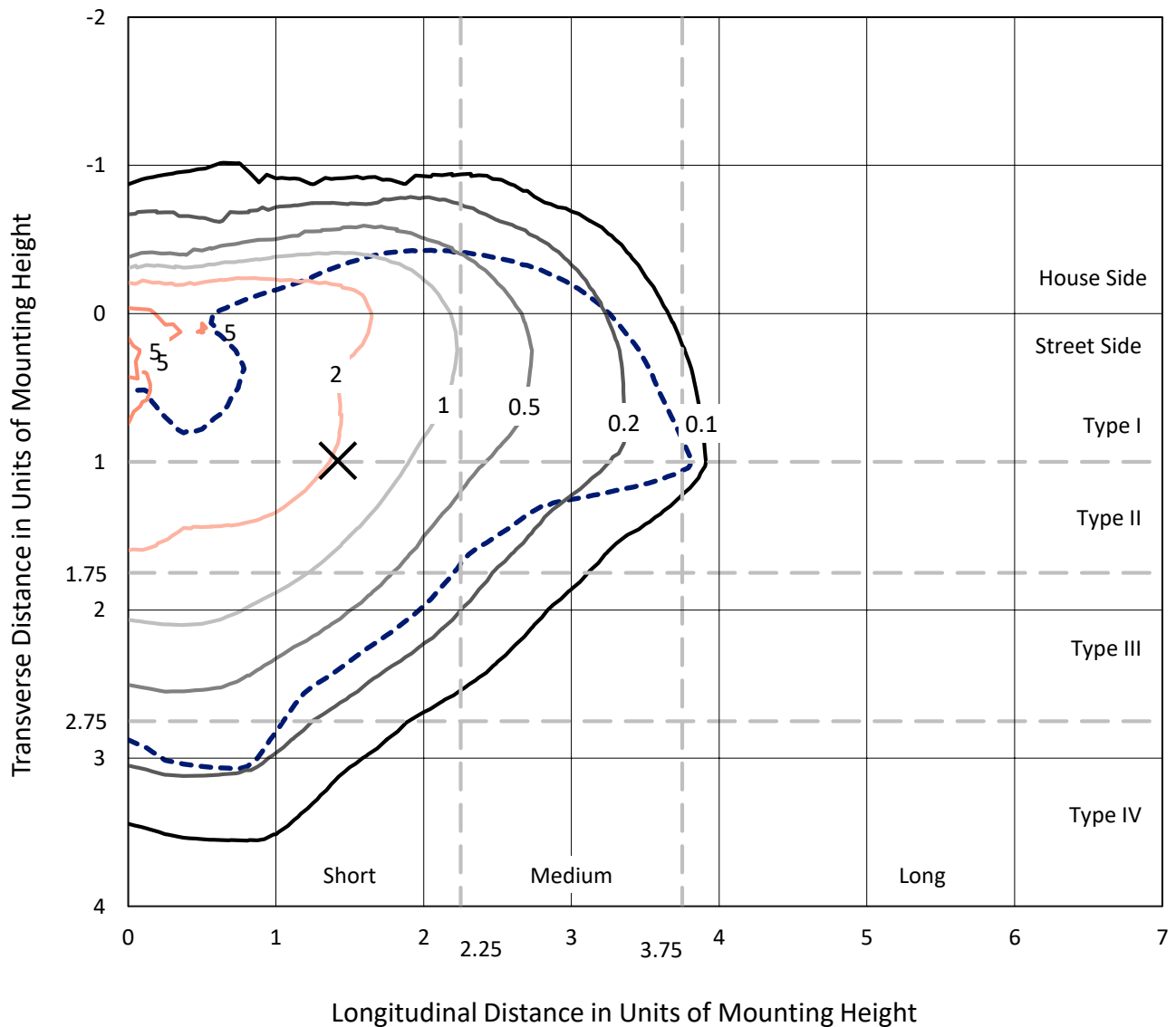
Input Watts (W): 20.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

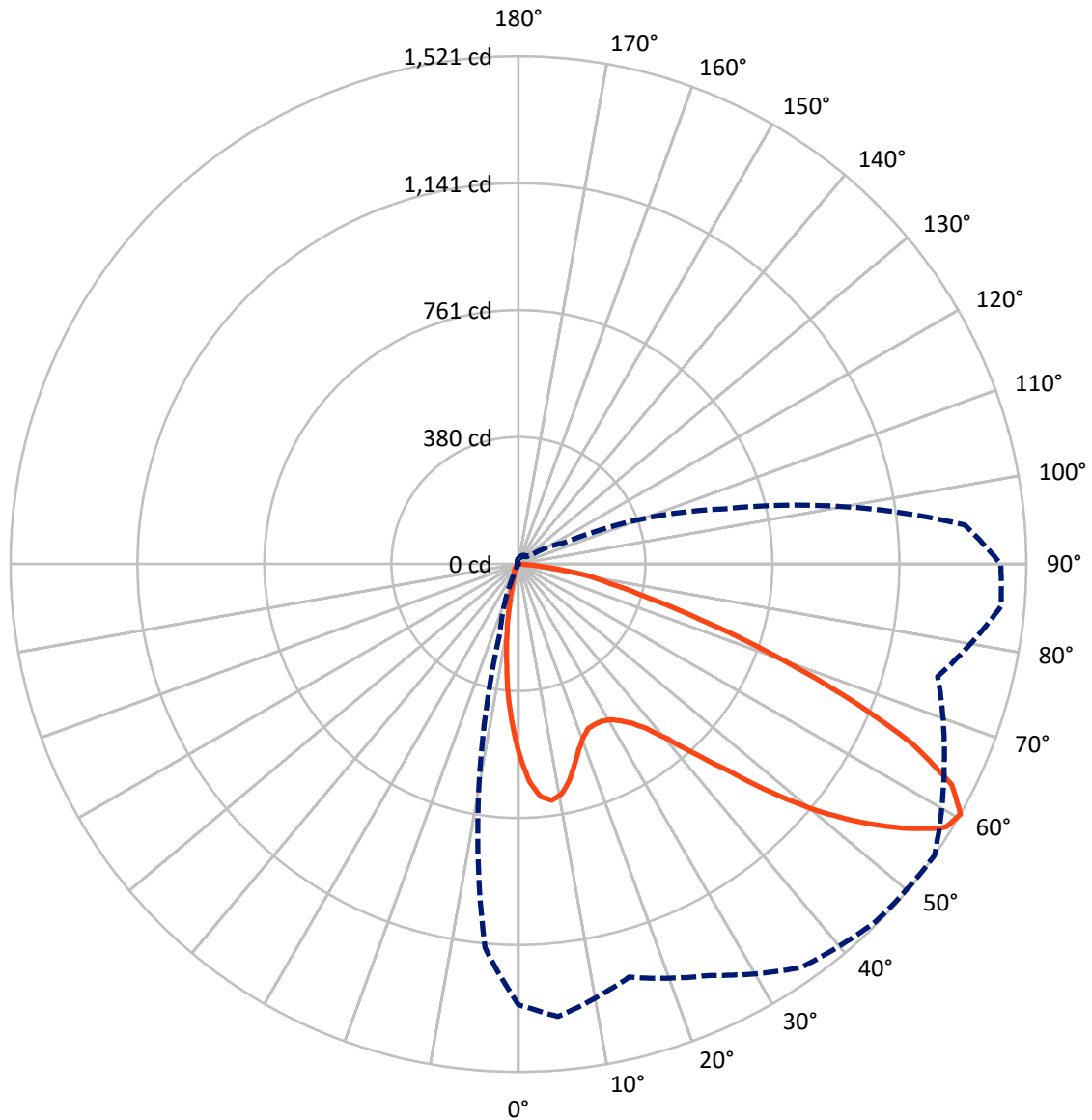
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 289.2 | 0.0 | 289.2 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 1343.8 | 0.0 | 1343.8 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 1633.0 | 0.0 | 1633.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.4 | 2.7 |
| 10°-20° | 82.5 | 5.1 |
| 20°-30° | 117.7 | 7.2 |
| 30°-40° | 172.7 | 10.6 |
| 40°-50° | 254.6 | 15.6 |
| 50°-60° | 377.2 | 23.1 |
| 60°-70° | 402.0 | 24.6 |
| 70°-80° | 166.7 | 10.2 |
| 80°-90° | 16.0 | 1.0 |
| 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° | 1633.0 | 100.0 |
| 0°-180° | 1633.0 | 100.0 |



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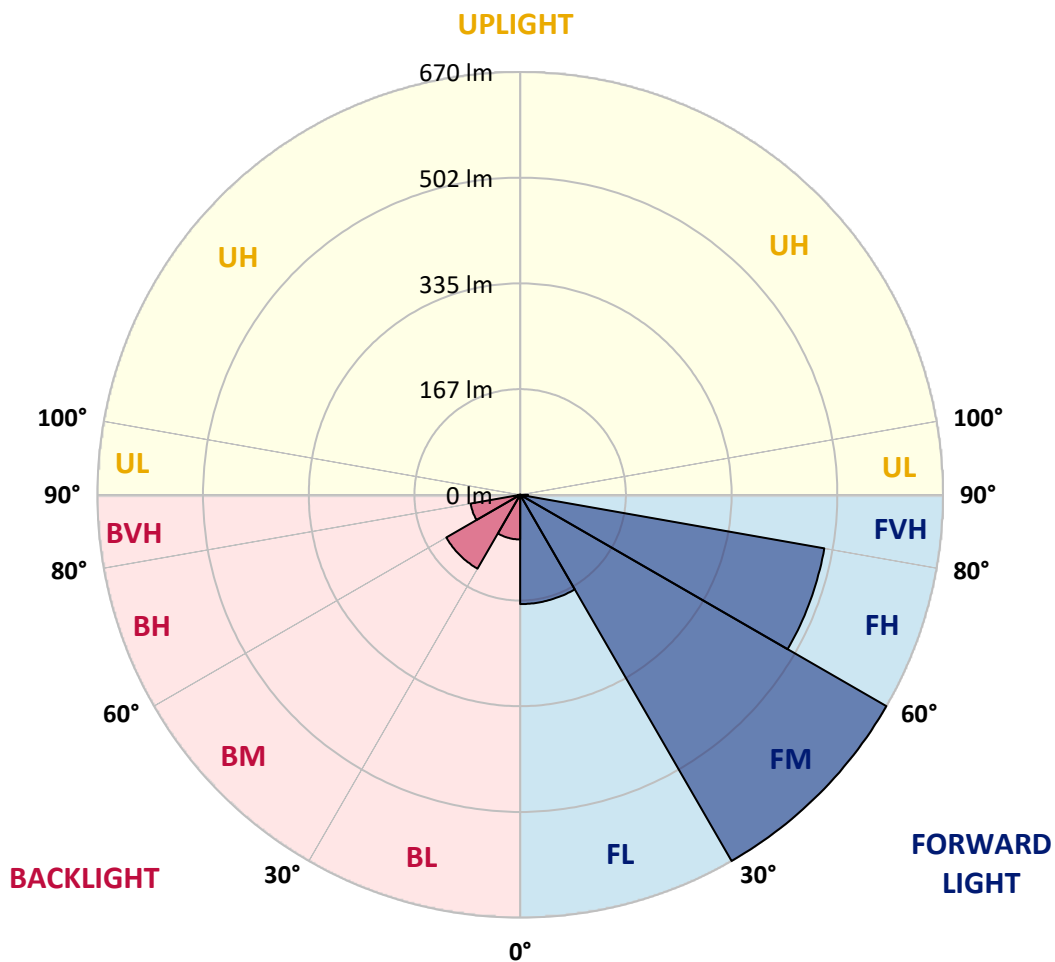
CATALOG NUMBER: ENT-SA1A-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 173.0 | 10.6 | | | |
| FM | (30°-60°) | 669.5 | 41.0 | | | |
| FH | (60°-80°) | 489.0 | 29.9 | | | G0/660 |
| FVH | (80°-90°) | 12.3 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 70.7 | 4.3 | B0/110 | | |
| BM | (30°-60°) | 135.0 | 8.3 | B0/220 | | |
| BH | (60°-80°) | 79.7 | 4.9 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 3.8 | 0.2 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 |
| 2.5° | 602.3 | 601.4 | 610.0 | 628.0 | 639.1 | 645.9 | 647.1 | 654.2 | 647.1 | 643.4 | 630.1 |
| 5° | 584.7 | 584.4 | 601.1 | 640.3 | 672.4 | 696.5 | 708.2 | 700.2 | 687.8 | 663.5 | 633.8 |
| 7.5° | 535.9 | 535.9 | 567.4 | 619.9 | 673.6 | 715.3 | 729.5 | 714.7 | 685.4 | 636.3 | 583.2 |
| 10° | 496.1 | 499.8 | 530.1 | 592.8 | 652.3 | 698.0 | 713.8 | 702.4 | 664.1 | 600.5 | 538.1 |
| 12.5° | 472.4 | 474.5 | 508.2 | 571.1 | 626.7 | 663.8 | 673.3 | 669.9 | 642.2 | 573.0 | 506.9 |
| 15° | 474.5 | 477.6 | 516.2 | 567.7 | 603.9 | 618.7 | 622.1 | 626.4 | 615.0 | 561.9 | 496.7 |
| 17.5° | 508.5 | 510.6 | 549.5 | 582.9 | 581.3 | 576.7 | 577.9 | 585.0 | 598.6 | 571.1 | 517.4 |
| 20° | 562.8 | 568.4 | 607.6 | 608.2 | 569.6 | 548.0 | 542.4 | 554.2 | 590.9 | 595.5 | 561.6 |
| 22.5° | 632.6 | 634.7 | 674.6 | 650.8 | 570.8 | 528.2 | 521.7 | 535.0 | 593.4 | 635.1 | 622.7 |
| 25° | 713.5 | 721.2 | 742.8 | 706.1 | 588.7 | 525.5 | 521.1 | 532.2 | 602.3 | 677.0 | 685.7 |
| 27.5° | 768.1 | 774.3 | 795.0 | 743.7 | 604.8 | 527.0 | 519.0 | 532.6 | 613.1 | 716.6 | 753.0 |
| 30° | 816.9 | 821.2 | 828.9 | 763.5 | 623.0 | 534.7 | 521.7 | 541.2 | 619.0 | 724.9 | 796.5 |
| 32.5° | 862.9 | 868.1 | 863.5 | 787.3 | 643.1 | 549.2 | 527.0 | 559.4 | 631.7 | 741.6 | 834.5 |
| 35° | 922.2 | 922.5 | 906.7 | 811.0 | 665.9 | 566.5 | 542.4 | 585.3 | 656.4 | 767.5 | 875.2 |
| 37.5° | 992.6 | 993.2 | 953.3 | 835.4 | 691.9 | 595.5 | 578.9 | 625.5 | 692.2 | 797.4 | 933.6 |
| 40° | 1054.0 | 1056.5 | 1003.7 | 863.5 | 723.7 | 652.0 | 650.5 | 689.1 | 738.2 | 837.3 | 996.3 |
| 42.5° | 1107.4 | 1114.5 | 1050.0 | 887.0 | 768.7 | 738.8 | 742.5 | 777.7 | 794.0 | 870.6 | 1035.2 |
| 45° | 1161.4 | 1161.1 | 1088.0 | 910.4 | 844.1 | 850.5 | 885.7 | 884.2 | 857.3 | 888.5 | 1065.7 |
| 47.5° | 1195.1 | 1193.5 | 1111.1 | 948.7 | 945.6 | 1007.7 | 1045.0 | 1024.7 | 927.4 | 907.7 | 1104.0 |
| 50° | 1208.0 | 1207.4 | 1129.3 | 997.5 | 1049.1 | 1150.0 | 1203.4 | 1162.7 | 1013.2 | 939.8 | 1149.7 |
| 52.5° | 1244.8 | 1241.7 | 1171.3 | 1053.1 | 1142.6 | 1287.1 | 1331.2 | 1285.8 | 1098.8 | 997.5 | 1202.8 |
| 55° | 1302.2 | 1303.1 | 1243.6 | 1118.2 | 1217.6 | 1383.7 | 1437.7 | 1397.3 | 1186.1 | 1076.8 | 1275.7 |
| 57.5° | 1340.8 | 1343.6 | 1323.5 | 1190.8 | 1297.9 | 1451.3 | 1503.8 | 1492.4 | 1302.5 | 1171.6 | 1361.2 |
| 58° | 1344.5 | 1346.7 | 1336.2 | 1204.7 | 1309.9 | 1459.0 | 1512.8 | 1504.7 | 1328.1 | 1201.9 | 1381.6 |
| 60° | 1320.7 | 1327.2 | 1360.9 | 1281.2 | 1359.6 | 1475.4 | 1514.3 | 1521.4 | 1407.5 | 1300.0 | 1451.3 |
| 62.5° | 1256.2 | 1258.4 | 1319.5 | 1367.0 | 1393.6 | 1435.0 | 1438.7 | 1457.2 | 1440.2 | 1415.2 | 1513.7 |
| 65° | 1177.2 | 1177.2 | 1243.2 | 1371.1 | 1305.6 | 1298.8 | 1277.2 | 1295.7 | 1344.8 | 1487.4 | 1509.4 |
| 67.5° | 1039.8 | 1040.7 | 1125.0 | 1221.3 | 1082.4 | 1058.9 | 1045.0 | 1051.8 | 1156.5 | 1427.2 | 1425.4 |
| 70° | 840.4 | 839.7 | 926.5 | 988.9 | 803.3 | 783.2 | 799.9 | 797.7 | 939.5 | 1268.2 | 1244.5 |
| 72.5° | 594.3 | 599.5 | 688.8 | 763.8 | 545.5 | 470.2 | 543.7 | 572.1 | 706.7 | 1069.1 | 962.9 |
| 75° | 334.7 | 341.8 | 414.6 | 530.7 | 344.2 | 318.0 | 355.7 | 396.1 | 510.9 | 851.2 | 646.8 |
| 77.5° | 167.9 | 170.7 | 212.4 | 255.3 | 208.7 | 242.4 | 240.2 | 278.8 | 350.4 | 574.2 | 369.9 |
| 80° | 96.9 | 102.5 | 116.7 | 131.8 | 116.7 | 153.7 | 178.4 | 209.9 | 215.8 | 297.0 | 206.2 |
| 82.5° | 38.9 | 43.5 | 54.6 | 62.1 | 48.5 | 45.7 | 31.2 | 98.2 | 130.0 | 143.6 | 79.0 |
| 85° | 0.0 | 0.0 | 0.3 | 0.6 | 0.9 | 0.9 | 1.5 | 17.3 | 31.8 | 7.1 | 13.0 |
| 87.5° | 0.0 | 0.0 | 0.3 | 0.3 | 0.6 | 0.9 | 1.2 | 2.2 | 2.8 | 3.4 | 11.7 |
| 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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CATALOG NUMBER: ENT-SA1A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 |
| 2.5° | 625.2 | 621.8 | 610.4 | 593.1 | 582.3 | 565.6 | 558.8 | 543.1 | 535.0 | 521.7 | 521.7 |
| 5° | 619.0 | 605.1 | 576.4 | 539.0 | 512.5 | 484.7 | 475.7 | 457.2 | 443.9 | 428.2 | 421.7 |
| 7.5° | 562.8 | 543.4 | 498.6 | 455.1 | 412.8 | 384.7 | 356.9 | 338.1 | 320.1 | 307.2 | 309.0 |
| 10° | 511.3 | 483.5 | 434.4 | 379.1 | 335.3 | 305.9 | 280.9 | 259.0 | 240.5 | 222.3 | 219.5 |
| 12.5° | 477.6 | 445.8 | 387.1 | 327.9 | 295.1 | 273.5 | 250.4 | 226.3 | 203.5 | 183.4 | 175.4 |
| 15° | 463.4 | 428.8 | 363.4 | 307.5 | 277.5 | 249.8 | 222.9 | 193.3 | 167.0 | 142.9 | 136.5 |
| 17.5° | 478.8 | 437.5 | 361.2 | 293.9 | 252.2 | 217.3 | 180.0 | 147.6 | 116.7 | 99.4 | 94.2 |
| 20° | 520.8 | 467.1 | 368.3 | 280.3 | 224.1 | 179.1 | 133.4 | 96.6 | 79.3 | 68.8 | 65.5 |
| 22.5° | 581.6 | 516.2 | 380.4 | 267.0 | 195.7 | 133.4 | 92.0 | 69.8 | 59.6 | 54.0 | 52.5 |
| 25° | 647.7 | 579.5 | 402.6 | 255.9 | 167.3 | 99.1 | 68.2 | 57.1 | 50.9 | 46.9 | 45.4 |
| 27.5° | 722.1 | 642.2 | 429.7 | 247.6 | 141.1 | 79.3 | 58.7 | 50.3 | 45.4 | 42.6 | 41.4 |
| 30° | 768.7 | 687.2 | 450.4 | 232.8 | 123.2 | 72.2 | 55.9 | 47.5 | 42.3 | 40.1 | 39.2 |
| 32.5° | 811.6 | 722.7 | 470.2 | 215.8 | 109.6 | 63.9 | 54.3 | 50.0 | 43.8 | 39.5 | 37.7 |
| 35° | 858.9 | 759.2 | 479.8 | 205.6 | 100.6 | 55.6 | 44.8 | 38.9 | 35.5 | 34.9 | 34.0 |
| 37.5° | 929.3 | 802.4 | 485.9 | 200.1 | 95.1 | 50.6 | 41.7 | 35.2 | 31.2 | 27.5 | 25.9 |
| 40° | 996.0 | 847.1 | 489.0 | 194.8 | 92.3 | 47.5 | 39.8 | 33.3 | 29.0 | 25.6 | 24.1 |
| 42.5° | 1048.1 | 887.9 | 490.9 | 191.1 | 87.4 | 45.7 | 38.3 | 32.1 | 27.5 | 24.1 | 22.5 |
| 45° | 1090.7 | 935.1 | 489.3 | 189.9 | 83.4 | 46.9 | 37.7 | 31.2 | 26.2 | 22.8 | 21.3 |
| 47.5° | 1132.4 | 986.4 | 495.2 | 188.3 | 79.3 | 45.1 | 38.0 | 30.9 | 25.3 | 21.9 | 20.4 |
| 50° | 1187.1 | 1048.4 | 516.5 | 184.0 | 76.6 | 42.3 | 41.1 | 31.2 | 25.0 | 21.3 | 20.1 |
| 52.5° | 1257.8 | 1134.3 | 555.1 | 179.4 | 73.2 | 39.8 | 42.9 | 31.2 | 24.4 | 20.7 | 19.1 |
| 55° | 1343.6 | 1230.6 | 597.7 | 172.6 | 67.3 | 36.7 | 41.1 | 31.2 | 23.8 | 20.4 | 18.5 |
| 57.5° | 1413.7 | 1316.4 | 631.3 | 164.6 | 56.5 | 33.0 | 37.7 | 29.9 | 22.2 | 19.1 | 17.6 |
| 58° | 1419.8 | 1326.3 | 636.0 | 162.4 | 55.3 | 32.4 | 36.7 | 29.6 | 21.6 | 18.8 | 17.3 |
| 60° | 1444.8 | 1342.3 | 637.8 | 150.7 | 46.0 | 30.9 | 31.8 | 28.7 | 20.4 | 17.6 | 16.4 |
| 62.5° | 1436.2 | 1289.2 | 598.6 | 130.0 | 41.1 | 28.1 | 26.6 | 29.3 | 18.8 | 16.1 | 14.8 |
| 65° | 1393.3 | 1184.9 | 524.5 | 116.4 | 41.4 | 25.0 | 22.8 | 25.6 | 17.3 | 14.5 | 13.3 |
| 67.5° | 1291.1 | 1026.5 | 426.0 | 109.0 | 43.2 | 22.2 | 19.8 | 19.1 | 15.4 | 13.0 | 12.0 |
| 70° | 1101.2 | 841.3 | 322.9 | 102.5 | 45.7 | 19.8 | 18.2 | 17.0 | 14.2 | 12.0 | 10.8 |
| 72.5° | 811.0 | 623.0 | 234.9 | 96.0 | 44.5 | 17.6 | 17.0 | 15.4 | 13.0 | 10.8 | 10.2 |
| 75° | 506.0 | 361.8 | 160.8 | 78.4 | 39.8 | 15.4 | 15.7 | 14.5 | 11.7 | 10.2 | 9.3 |
| 77.5° | 295.5 | 254.1 | 79.3 | 58.3 | 27.5 | 13.6 | 13.9 | 13.3 | 12.0 | 9.6 | 9.0 |
| 80° | 176.9 | 158.1 | 34.0 | 25.0 | 15.1 | 12.0 | 11.7 | 12.3 | 11.4 | 9.0 | 8.3 |
| 82.5° | 76.6 | 68.5 | 16.4 | 13.9 | 12.3 | 10.5 | 10.2 | 10.5 | 9.9 | 7.4 | 7.1 |
| 85° | 4.3 | 11.4 | 7.7 | 10.2 | 9.3 | 7.7 | 7.7 | 8.0 | 7.1 | 5.9 | 5.9 |
| 87.5° | 4.0 | 8.6 | 4.9 | 6.2 | 6.8 | 5.9 | 6.2 | 6.2 | 5.9 | 5.2 | 4.9 |
| 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: ENT-SA1A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 |
| 2.5° | 514.6 | 511.3 | 501.1 | 497.4 | 481.3 | 485.3 | 486.6 | 485.0 | 485.6 | 486.9 | 491.5 |
| 5° | 426.4 | 420.8 | 407.5 | 398.9 | 394.2 | 391.2 | 376.6 | 377.0 | 379.1 | 370.8 | 381.6 |
| 7.5° | 302.9 | 309.0 | 310.3 | 302.2 | 297.3 | 286.8 | 273.5 | 266.1 | 253.5 | 260.6 | 262.1 |
| 10° | 216.7 | 213.6 | 219.5 | 216.7 | 209.0 | 205.0 | 190.8 | 189.6 | 188.3 | 187.4 | 196.4 |
| 12.5° | 165.2 | 155.9 | 149.1 | 150.7 | 144.8 | 134.9 | 132.4 | 132.8 | 134.0 | 134.0 | 136.5 |
| 15° | 130.9 | 116.7 | 105.9 | 99.4 | 100.3 | 90.5 | 87.7 | 78.4 | 77.2 | 74.4 | 75.0 |
| 17.5° | 91.7 | 85.8 | 79.3 | 71.9 | 68.8 | 59.9 | 49.1 | 44.1 | 40.4 | 41.1 | 42.9 |
| 20° | 63.3 | 60.8 | 59.0 | 55.3 | 52.2 | 41.7 | 34.9 | 32.7 | 32.4 | 33.0 | 33.7 |
| 22.5° | 50.9 | 48.5 | 46.6 | 45.4 | 41.4 | 33.7 | 29.9 | 28.4 | 28.4 | 28.4 | 28.7 |
| 25° | 43.8 | 41.4 | 38.9 | 38.9 | 35.2 | 29.3 | 26.6 | 25.3 | 25.0 | 24.7 | 25.3 |
| 27.5° | 40.8 | 37.4 | 34.9 | 33.3 | 30.6 | 25.9 | 23.5 | 22.2 | 21.9 | 21.9 | 22.2 |
| 30° | 37.7 | 34.3 | 31.8 | 29.6 | 26.6 | 23.2 | 20.7 | 19.8 | 19.1 | 19.1 | 19.4 |
| 32.5° | 35.8 | 32.4 | 29.3 | 26.6 | 23.2 | 20.4 | 18.2 | 17.0 | 16.4 | 16.7 | 17.0 |
| 35° | 31.8 | 29.0 | 26.2 | 23.5 | 20.4 | 17.9 | 15.7 | 14.5 | 14.2 | 14.2 | 14.5 |
| 37.5° | 25.0 | 22.8 | 22.2 | 20.7 | 17.9 | 15.4 | 13.3 | 12.0 | 11.7 | 11.7 | 12.0 |
| 40° | 22.5 | 19.8 | 18.5 | 17.9 | 16.4 | 13.3 | 10.8 | 9.6 | 9.6 | 9.3 | 9.9 |
| 42.5° | 20.7 | 17.9 | 15.7 | 15.1 | 14.2 | 11.4 | 8.6 | 7.7 | 7.4 | 7.4 | 7.7 |
| 45° | 19.4 | 16.4 | 13.6 | 12.0 | 12.0 | 9.3 | 7.1 | 5.9 | 5.6 | 5.6 | 5.9 |
| 47.5° | 18.8 | 15.4 | 12.0 | 9.9 | 9.6 | 7.7 | 5.6 | 4.3 | 4.0 | 4.0 | 4.0 |
| 50° | 18.2 | 14.2 | 10.8 | 8.3 | 7.4 | 6.5 | 4.3 | 3.4 | 3.1 | 3.1 | 3.1 |
| 52.5° | 17.3 | 13.6 | 9.9 | 7.4 | 5.9 | 4.9 | 3.4 | 2.5 | 2.2 | 1.9 | 2.2 |
| 55° | 16.7 | 12.7 | 9.6 | 6.8 | 4.9 | 3.7 | 2.5 | 1.9 | 1.5 | 1.5 | 1.5 |
| 57.5° | 15.7 | 11.7 | 8.6 | 6.5 | 4.6 | 2.8 | 1.9 | 1.2 | 0.9 | 0.9 | 1.2 |
| 58° | 15.4 | 11.7 | 8.3 | 6.2 | 4.3 | 2.8 | 1.9 | 1.2 | 0.9 | 0.9 | 1.2 |
| 60° | 14.5 | 10.8 | 8.0 | 5.6 | 4.0 | 2.5 | 1.5 | 0.9 | 0.6 | 0.6 | 0.9 |
| 62.5° | 13.6 | 9.9 | 7.1 | 4.9 | 3.4 | 2.2 | 1.2 | 0.6 | 0.3 | 0.3 | 0.3 |
| 65° | 12.0 | 9.0 | 6.2 | 4.6 | 2.8 | 1.5 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 |
| 67.5° | 10.8 | 8.3 | 5.6 | 4.0 | 2.5 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 9.9 | 7.7 | 4.9 | 3.4 | 2.2 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 9.3 | 7.1 | 4.6 | 3.1 | 1.5 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 9.0 | 6.8 | 4.6 | 2.8 | 1.5 | 0.9 | 0.6 | 0.3 | 0.0 | 0.0 | 0.3 |
| 77.5° | 8.6 | 6.8 | 4.6 | 2.8 | 1.9 | 0.9 | 0.9 | 0.6 | 0.6 | 0.3 | 0.9 |
| 80° | 8.0 | 6.2 | 4.0 | 2.5 | 1.5 | 1.2 | 0.9 | 0.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 6.8 | 4.9 | 3.4 | 2.5 | 1.5 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.6 | 4.0 | 2.8 | 1.5 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.9 | 3.1 | 2.2 | 1.2 | 0.6 | 0.3 | 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 |
| 2.5° | 495.5 | 509.7 | 515.6 | 535.3 | 544.0 | 561.9 | 577.3 | 590.6 | 597.1 | 602.3 |
| 5° | 384.4 | 397.9 | 412.5 | 441.8 | 467.1 | 494.3 | 528.2 | 563.4 | 573.6 | 584.7 |
| 7.5° | 268.3 | 288.4 | 312.7 | 339.0 | 375.1 | 416.2 | 464.9 | 508.5 | 530.4 | 535.9 |
| 10° | 208.4 | 232.2 | 258.1 | 284.0 | 314.0 | 357.8 | 406.9 | 463.1 | 486.6 | 496.1 |
| 12.5° | 156.5 | 188.3 | 219.2 | 249.8 | 275.7 | 313.7 | 367.1 | 434.1 | 460.0 | 472.4 |
| 15° | 94.2 | 130.0 | 167.9 | 209.0 | 245.1 | 289.6 | 349.8 | 427.9 | 460.6 | 474.5 |
| 17.5° | 46.9 | 64.2 | 99.1 | 160.8 | 214.3 | 269.5 | 349.5 | 450.1 | 490.6 | 508.5 |
| 20° | 34.9 | 39.5 | 52.8 | 100.3 | 178.1 | 252.8 | 353.2 | 488.1 | 547.7 | 562.8 |
| 22.5° | 29.9 | 33.3 | 38.0 | 58.7 | 133.4 | 237.4 | 366.1 | 538.4 | 612.5 | 632.6 |
| 25° | 26.2 | 29.0 | 32.7 | 40.4 | 91.4 | 219.2 | 390.5 | 609.4 | 686.0 | 713.5 |
| 27.5° | 23.2 | 25.6 | 28.7 | 34.0 | 61.1 | 184.9 | 404.4 | 669.0 | 745.3 | 768.1 |
| 30° | 20.4 | 22.2 | 25.3 | 29.0 | 45.1 | 142.9 | 417.4 | 721.5 | 799.0 | 816.9 |
| 32.5° | 17.9 | 19.4 | 21.9 | 24.7 | 34.3 | 108.4 | 418.0 | 766.6 | 845.9 | 862.9 |
| 35° | 15.1 | 17.0 | 18.8 | 21.3 | 27.2 | 84.6 | 405.4 | 811.3 | 901.5 | 922.2 |
| 37.5° | 12.7 | 14.2 | 16.4 | 18.5 | 24.7 | 65.5 | 379.1 | 863.8 | 969.1 | 992.6 |
| 40° | 10.8 | 12.3 | 14.2 | 16.7 | 21.9 | 47.5 | 337.1 | 911.4 | 1032.4 | 1054.0 |
| 42.5° | 8.6 | 10.2 | 12.3 | 16.4 | 18.2 | 34.3 | 294.8 | 957.1 | 1087.3 | 1107.4 |
| 45° | 6.8 | 8.6 | 11.4 | 15.7 | 15.1 | 24.1 | 258.4 | 997.5 | 1134.6 | 1161.4 |
| 47.5° | 4.9 | 7.1 | 11.4 | 14.2 | 12.3 | 17.3 | 239.9 | 1036.4 | 1176.9 | 1195.1 |
| 50° | 3.7 | 5.9 | 12.3 | 12.0 | 10.5 | 14.8 | 242.7 | 1079.6 | 1196.3 | 1208.0 |
| 52.5° | 2.8 | 4.9 | 9.6 | 8.6 | 9.0 | 13.0 | 253.5 | 1136.7 | 1236.5 | 1244.8 |
| 55° | 2.5 | 3.7 | 5.9 | 6.5 | 8.0 | 12.3 | 250.7 | 1190.8 | 1287.7 | 1302.2 |
| 57.5° | 2.2 | 3.1 | 4.6 | 5.2 | 7.1 | 11.7 | 234.9 | 1214.5 | 1320.7 | 1340.8 |
| 58° | 1.9 | 3.1 | 4.3 | 5.2 | 7.1 | 11.4 | 230.9 | 1208.0 | 1319.2 | 1344.5 |
| 60° | 1.5 | 2.8 | 4.0 | 4.6 | 6.2 | 10.2 | 211.5 | 1153.1 | 1285.2 | 1320.7 |
| 62.5° | 1.2 | 1.9 | 3.1 | 3.4 | 4.9 | 8.3 | 174.1 | 1064.2 | 1212.4 | 1256.2 |
| 65° | 0.6 | 1.2 | 1.9 | 2.5 | 3.4 | 6.2 | 123.8 | 958.9 | 1134.3 | 1177.2 |
| 67.5° | 0.0 | 0.6 | 1.2 | 1.5 | 2.2 | 4.6 | 71.3 | 813.8 | 1005.8 | 1039.8 |
| 70° | 0.0 | 0.3 | 0.6 | 0.9 | 1.2 | 3.1 | 37.7 | 597.4 | 779.2 | 840.4 |
| 72.5° | 0.3 | 0.3 | 0.3 | 0.0 | 0.6 | 2.5 | 16.7 | 354.4 | 531.3 | 594.3 |
| 75° | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 1.2 | 7.1 | 186.8 | 304.7 | 334.7 |
| 77.5° | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.3 | 3.4 | 100.6 | 158.1 | 167.9 |
| 80° | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 33.7 | 94.8 | 96.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 40.8 | 38.9 |
| 85° | 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 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)