

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: P401529

Luminaire Tested: **ENC-SA1D-750-U-SLR-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1D-750-U-SLR-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4245 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.1
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

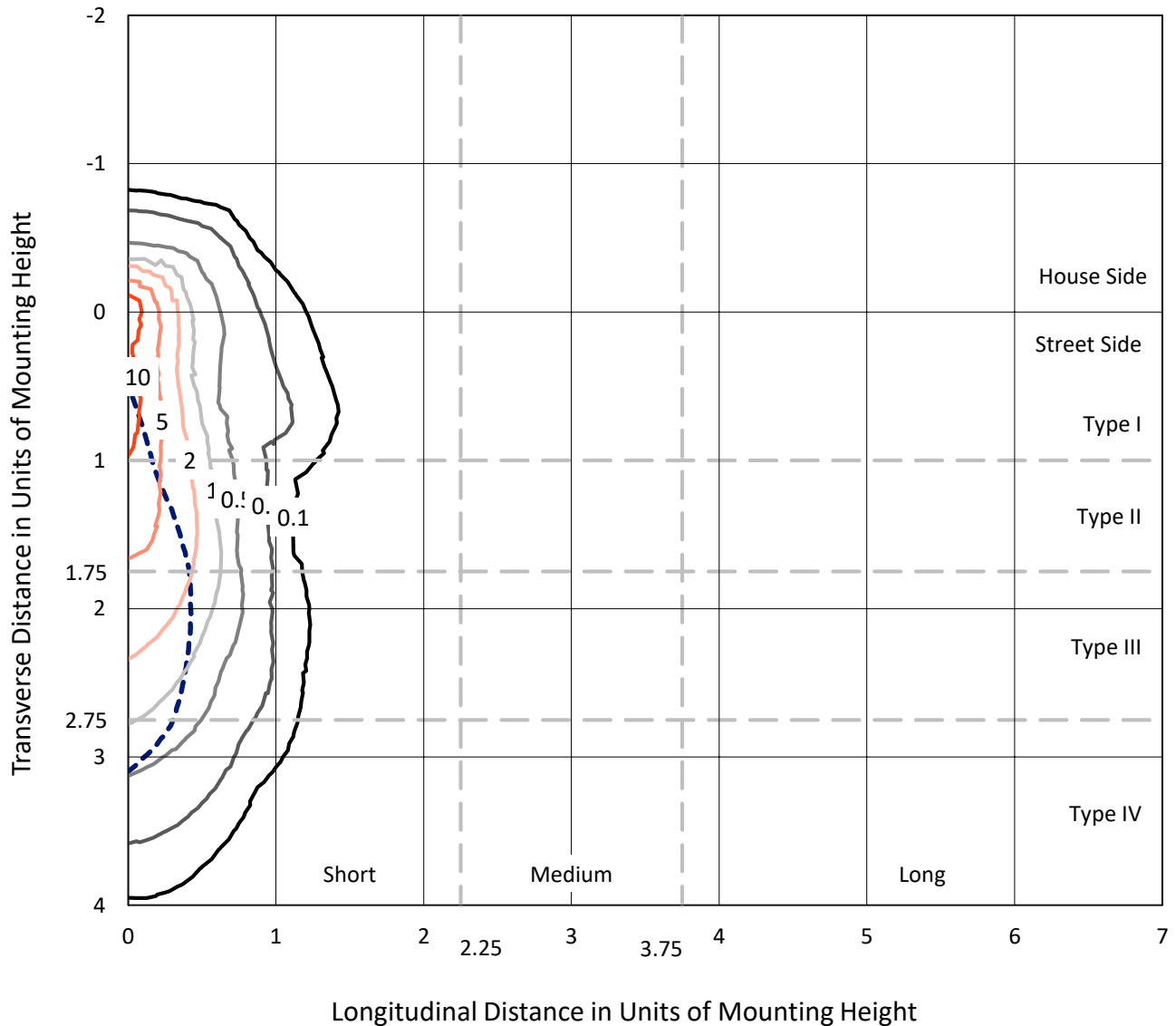


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Iso-Footcandle Lines of Horizontal Illumination

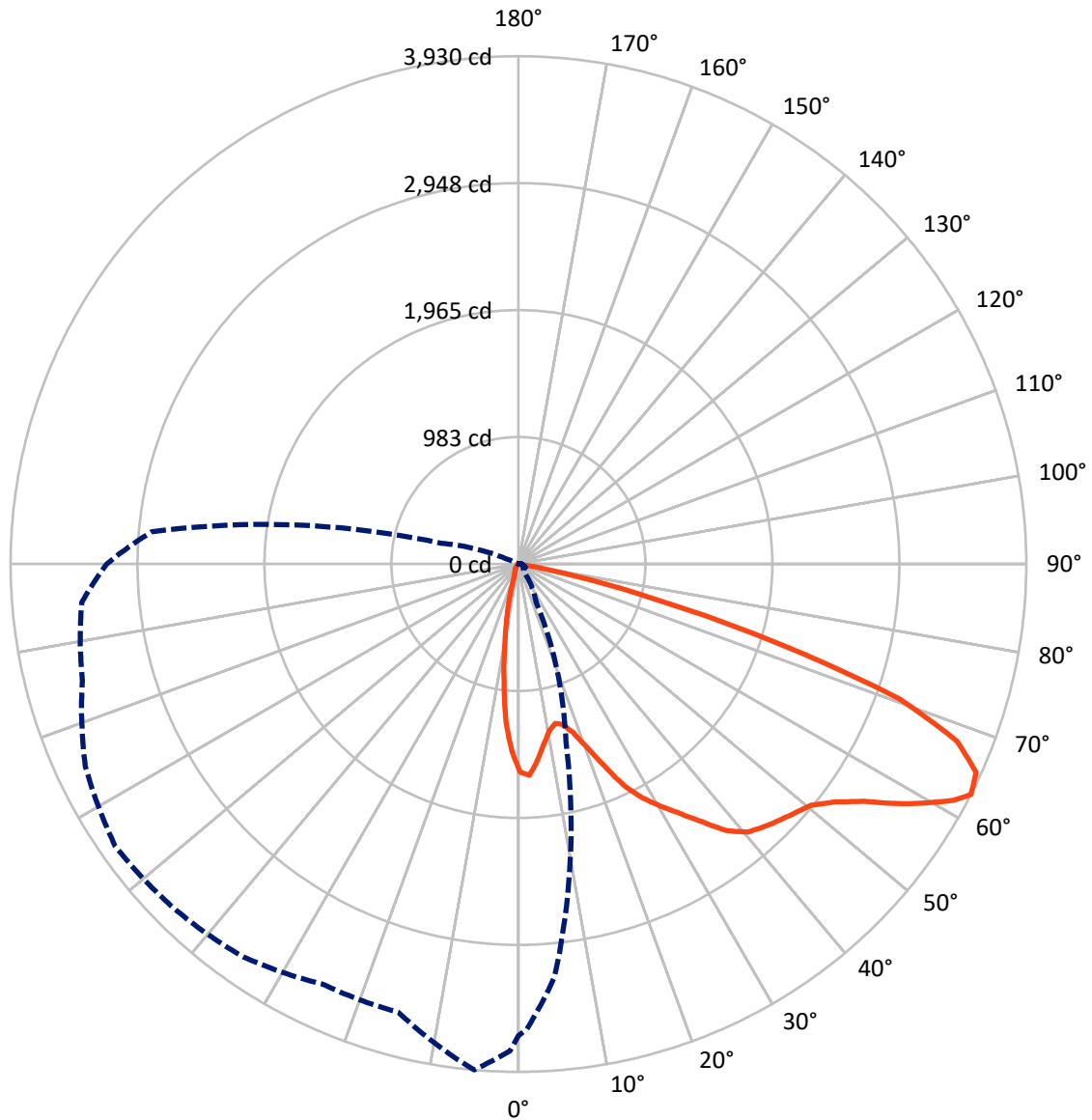
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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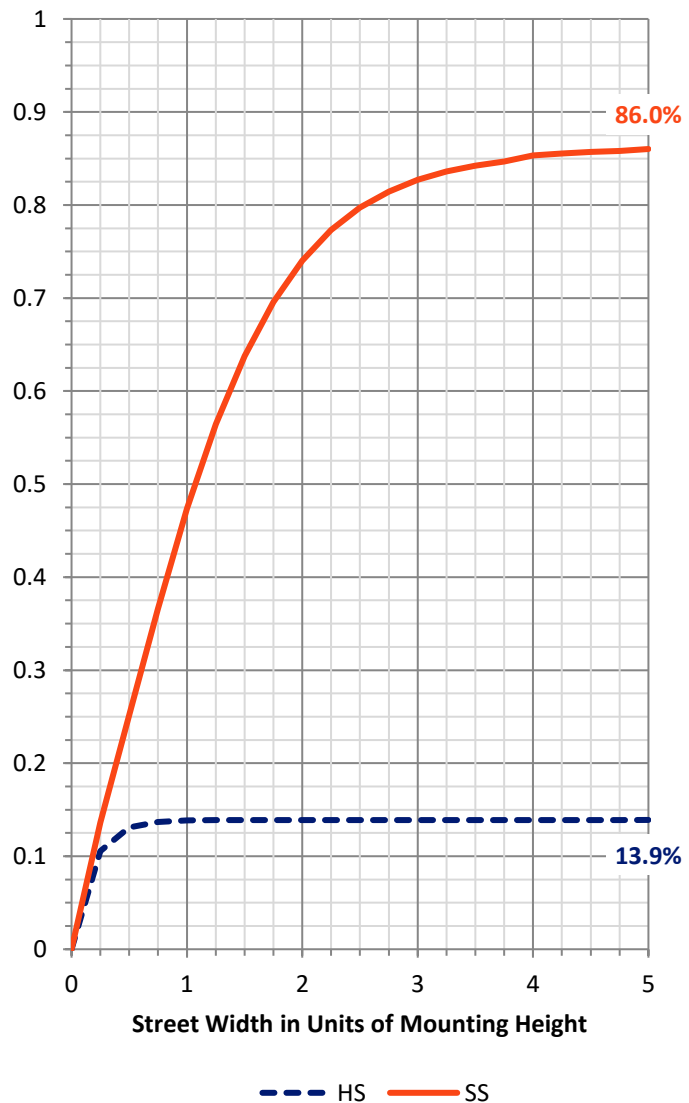
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 597.1 | 0.0 | 597.1 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 3647.9 | 0.0 | 3647.9 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 4245.0 | 0.0 | 4245.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 120.8 | 2.8 |
| 10°-20° | 229.5 | 5.4 |
| 20°-30° | 319.4 | 7.5 |
| 30°-40° | 461.9 | 10.9 |
| 40°-50° | 662.3 | 15.6 |
| 50°-60° | 960.8 | 22.6 |
| 60°-70° | 1039.5 | 24.5 |
| 70°-80° | 419.8 | 9.9 |
| 80°-90° | 31.1 | 0.7 |
| 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° | 4245.0 | 100.0 |
| 0°-180° | 4245.0 | 100.0 |



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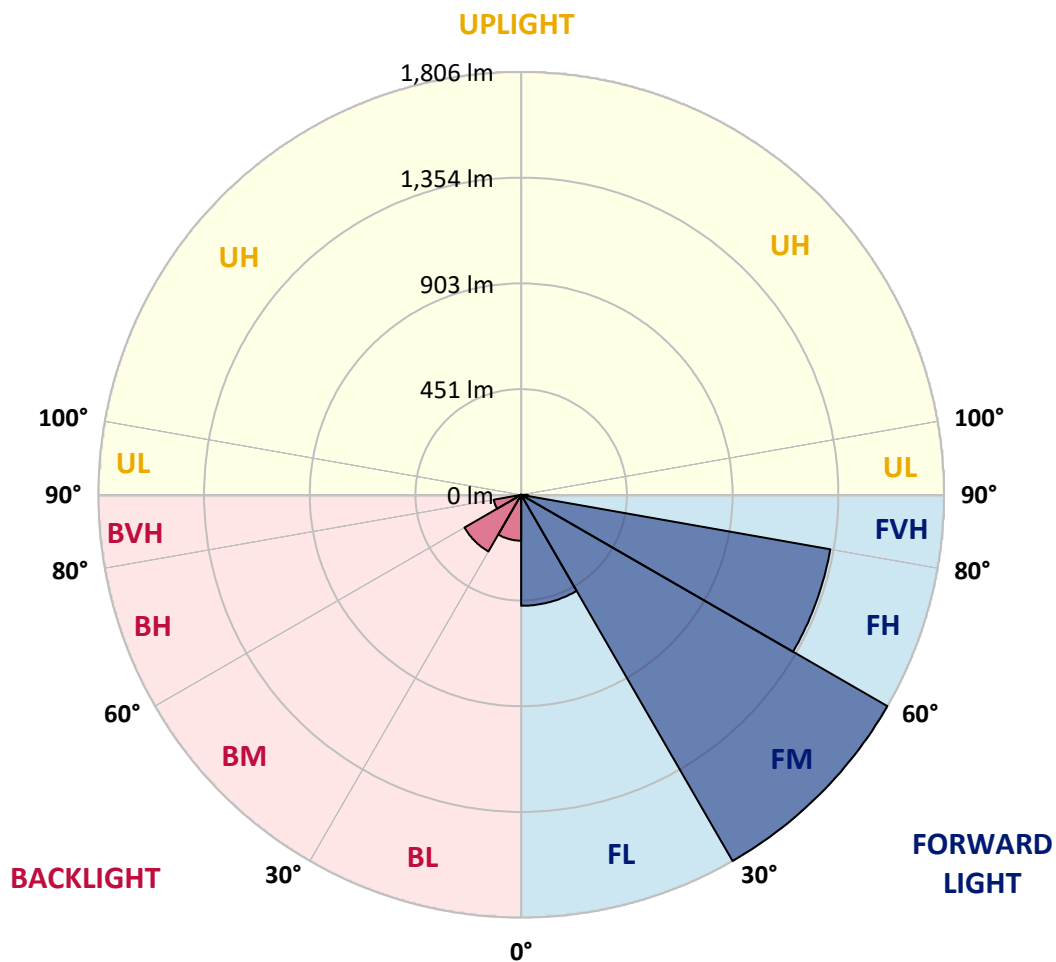
CATALOG NUMBER: ENC-SA1D-750-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 473.9 | 11.2 | | | |
| FM | (30°-60°) | 1805.5 | 42.5 | | | |
| FH | (60°-80°) | 1340.6 | 31.6 | | | G1/1800 |
| FVH | (80°-90°) | 27.9 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 195.8 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 279.4 | 6.6 | B1/1000 | | |
| BH | (60°-80°) | 118.8 | 2.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 3.2 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 |
| 2.5° | 1616.9 | 1610.2 | 1595.1 | 1562.3 | 1515.3 | 1485.1 | 1465.7 | 1440.5 | 1414.5 | 1406.1 | 1389.3 |
| 5° | 1475.8 | 1464.9 | 1443.9 | 1361.6 | 1287.7 | 1213.8 | 1160.8 | 1110.4 | 1093.6 | 1060.0 | 1080.2 |
| 7.5° | 1339.7 | 1334.7 | 1286.0 | 1179.3 | 1061.7 | 966.8 | 906.3 | 832.4 | 810.6 | 776.1 | 748.4 |
| 10° | 1233.1 | 1228.9 | 1170.1 | 1030.6 | 903.8 | 824.8 | 777.0 | 729.1 | 681.2 | 632.5 | 593.9 |
| 12.5° | 1179.3 | 1170.1 | 1102.0 | 951.7 | 834.1 | 768.6 | 718.2 | 654.3 | 603.1 | 537.6 | 490.5 |
| 15° | 1187.7 | 1179.3 | 1101.2 | 939.1 | 800.5 | 709.8 | 635.0 | 559.4 | 487.2 | 422.5 | 376.3 |
| 17.5° | 1254.9 | 1251.6 | 1156.6 | 950.0 | 760.2 | 640.1 | 540.1 | 438.5 | 352.8 | 283.1 | 243.6 |
| 20° | 1385.9 | 1375.9 | 1238.1 | 973.5 | 718.2 | 559.4 | 422.5 | 297.3 | 226.0 | 178.1 | 161.3 |
| 22.5° | 1548.1 | 1525.4 | 1366.6 | 1008.0 | 677.9 | 472.9 | 305.7 | 199.9 | 161.3 | 142.8 | 131.0 |
| 25° | 1738.7 | 1739.6 | 1526.2 | 1054.2 | 637.5 | 392.3 | 214.2 | 158.8 | 136.1 | 122.6 | 112.6 |
| 27.5° | 1893.3 | 1881.5 | 1669.9 | 1100.4 | 593.9 | 321.7 | 179.8 | 138.6 | 119.3 | 105.0 | 99.1 |
| 30° | 2007.5 | 1989.9 | 1764.8 | 1132.3 | 537.6 | 272.1 | 161.3 | 131.9 | 112.6 | 96.6 | 89.0 |
| 32.5° | 2125.1 | 2103.3 | 1850.4 | 1149.9 | 504.0 | 248.6 | 142.8 | 115.1 | 100.8 | 94.1 | 84.0 |
| 35° | 2262.9 | 2243.6 | 1945.4 | 1148.2 | 486.3 | 235.2 | 129.4 | 104.2 | 85.7 | 74.8 | 68.0 |
| 37.5° | 2416.6 | 2377.1 | 2043.6 | 1140.7 | 473.7 | 228.5 | 117.6 | 96.6 | 79.8 | 68.0 | 59.6 |
| 40° | 2548.5 | 2509.0 | 2134.4 | 1130.6 | 465.3 | 221.8 | 110.9 | 91.6 | 75.6 | 63.0 | 54.6 |
| 42.5° | 2651.8 | 2614.0 | 2219.2 | 1118.0 | 461.1 | 207.5 | 114.2 | 88.2 | 72.2 | 59.6 | 50.4 |
| 45° | 2740.8 | 2702.2 | 2320.0 | 1116.3 | 459.5 | 197.4 | 112.6 | 87.4 | 70.6 | 55.4 | 47.0 |
| 47.5° | 2844.1 | 2824.0 | 2452.7 | 1144.0 | 452.7 | 189.8 | 103.3 | 94.1 | 69.7 | 53.8 | 44.5 |
| 50° | 2997.0 | 2979.4 | 2626.6 | 1226.4 | 442.7 | 182.3 | 94.1 | 103.3 | 69.7 | 52.1 | 42.0 |
| 52.5° | 3211.2 | 3191.0 | 2900.4 | 1333.9 | 433.4 | 173.9 | 84.8 | 100.0 | 70.6 | 49.6 | 40.3 |
| 55° | 3432.9 | 3429.6 | 3159.1 | 1448.1 | 425.0 | 155.4 | 74.8 | 89.9 | 68.9 | 46.2 | 37.8 |
| 57.5° | 3606.8 | 3604.3 | 3353.1 | 1525.4 | 409.1 | 125.2 | 68.0 | 74.8 | 63.8 | 42.0 | 34.4 |
| 60° | 3678.2 | 3657.2 | 3374.1 | 1525.4 | 372.1 | 103.3 | 62.2 | 58.8 | 64.7 | 37.8 | 30.2 |
| 61° | 3678.2 | 3651.3 | 3336.3 | 1502.7 | 353.6 | 98.3 | 58.8 | 54.6 | 66.4 | 36.1 | 28.6 |
| 62.5° | 3649.7 | 3605.1 | 3207.0 | 1421.2 | 324.2 | 98.3 | 53.8 | 48.7 | 60.5 | 34.4 | 26.0 |
| 65° | 3522.8 | 3449.7 | 2903.8 | 1235.6 | 294.0 | 100.8 | 46.2 | 41.2 | 43.7 | 29.4 | 22.7 |
| 67.5° | 3209.5 | 3127.2 | 2510.7 | 977.7 | 269.6 | 106.7 | 38.6 | 36.1 | 33.6 | 26.0 | 20.2 |
| 70° | 2644.2 | 2574.5 | 2048.7 | 732.5 | 250.3 | 108.4 | 33.6 | 30.2 | 28.6 | 22.7 | 17.6 |
| 72.5° | 1690.0 | 1574.9 | 1279.3 | 496.4 | 200.8 | 94.1 | 27.7 | 28.6 | 26.0 | 18.5 | 14.3 |
| 75° | 816.4 | 848.4 | 744.2 | 250.3 | 135.2 | 61.3 | 21.8 | 23.5 | 21.0 | 16.8 | 12.6 |
| 77.5° | 365.4 | 358.7 | 355.3 | 63.8 | 34.4 | 21.0 | 13.4 | 16.0 | 16.8 | 15.1 | 10.9 |
| 80° | 37.8 | 51.2 | 30.2 | 19.3 | 12.6 | 9.2 | 7.6 | 8.4 | 10.1 | 10.9 | 5.9 |
| 82.5° | 1.7 | 0.8 | 0.8 | 2.5 | 2.5 | 1.7 | 0.0 | 0.0 | 1.7 | 1.7 | 0.8 |
| 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 |
| 2.5° | 1374.2 | 1396.9 | 1386.8 | 1384.3 | 1397.7 | 1391.0 | 1411.1 | 1412.0 | 1427.1 | 1447.3 | 1459.9 |
| 5° | 1080.2 | 1062.6 | 1097.8 | 1121.4 | 1150.8 | 1141.5 | 1176.8 | 1172.6 | 1191.9 | 1223.8 | 1211.2 |
| 7.5° | 750.1 | 752.6 | 771.1 | 792.1 | 871.0 | 887.0 | 898.8 | 908.0 | 907.2 | 914.7 | 928.2 |
| 10° | 573.7 | 559.4 | 546.8 | 576.2 | 607.3 | 641.7 | 646.8 | 659.4 | 624.9 | 639.2 | 645.9 |
| 12.5° | 469.5 | 452.7 | 425.0 | 409.9 | 417.5 | 437.6 | 446.0 | 453.6 | 433.4 | 434.3 | 449.4 |
| 15° | 356.1 | 333.5 | 322.5 | 302.4 | 294.8 | 293.1 | 297.3 | 286.4 | 283.9 | 274.7 | 280.5 |
| 17.5° | 231.8 | 225.1 | 219.2 | 215.0 | 209.2 | 207.5 | 192.4 | 166.3 | 151.2 | 147.8 | 147.8 |
| 20° | 154.6 | 149.5 | 149.5 | 157.9 | 155.4 | 148.7 | 128.5 | 106.7 | 95.8 | 92.4 | 94.1 |
| 22.5° | 126.8 | 123.5 | 118.4 | 118.4 | 121.8 | 116.8 | 98.3 | 82.3 | 74.8 | 74.8 | 74.8 |
| 25° | 110.0 | 108.4 | 103.3 | 98.3 | 100.0 | 95.8 | 79.8 | 69.7 | 64.7 | 63.8 | 64.7 |
| 27.5° | 96.6 | 95.8 | 89.9 | 84.8 | 84.8 | 81.5 | 68.9 | 59.6 | 56.3 | 54.6 | 55.4 |
| 30° | 87.4 | 85.7 | 79.0 | 74.8 | 73.9 | 70.6 | 58.8 | 52.1 | 48.7 | 47.9 | 47.9 |
| 32.5° | 80.6 | 77.3 | 71.4 | 67.2 | 64.7 | 59.6 | 51.2 | 44.5 | 41.2 | 40.3 | 40.3 |
| 35° | 64.7 | 64.7 | 62.2 | 59.6 | 56.3 | 48.7 | 42.8 | 37.0 | 33.6 | 32.8 | 32.8 |
| 37.5° | 56.3 | 52.9 | 48.7 | 49.6 | 47.9 | 41.2 | 35.3 | 29.4 | 26.9 | 26.0 | 26.0 |
| 40° | 51.2 | 47.0 | 41.2 | 38.6 | 39.5 | 36.1 | 29.4 | 22.7 | 19.3 | 20.2 | 19.3 |
| 42.5° | 46.2 | 42.8 | 36.1 | 30.2 | 29.4 | 30.2 | 22.7 | 16.0 | 13.4 | 13.4 | 13.4 |
| 45° | 42.8 | 39.5 | 31.9 | 25.2 | 21.0 | 23.5 | 17.6 | 10.9 | 8.4 | 8.4 | 8.4 |
| 47.5° | 40.3 | 37.0 | 28.6 | 21.0 | 15.1 | 16.0 | 12.6 | 6.7 | 5.0 | 3.4 | 4.2 |
| 50° | 38.6 | 34.4 | 26.0 | 16.8 | 10.9 | 9.2 | 8.4 | 3.4 | 0.8 | 0.8 | 0.0 |
| 52.5° | 36.1 | 32.8 | 23.5 | 14.3 | 8.4 | 5.9 | 4.2 | 0.8 | 0.0 | 0.0 | 0.0 |
| 55° | 34.4 | 30.2 | 21.0 | 12.6 | 6.7 | 3.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 31.1 | 27.7 | 18.5 | 10.1 | 5.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 27.7 | 25.2 | 16.0 | 7.6 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 61° | 26.0 | 23.5 | 15.1 | 6.7 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 24.4 | 21.8 | 13.4 | 5.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 21.0 | 18.5 | 11.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 18.5 | 16.8 | 10.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 16.0 | 14.3 | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 13.4 | 12.6 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 11.8 | 10.1 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 9.2 | 8.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 5.0 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: ENC-SA1D-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 |
| 2.5° | 1471.6 | 1501.0 | 1528.7 | 1564.0 | 1583.3 | 1636.3 | 1674.1 | 1706.0 | 1731.2 | 1736.2 | 1756.4 |
| 5° | 1244.8 | 1286.0 | 1312.9 | 1386.8 | 1427.9 | 1516.1 | 1584.2 | 1664.8 | 1737.1 | 1776.5 | 1812.6 |
| 7.5° | 937.4 | 957.6 | 1003.8 | 1077.7 | 1175.1 | 1251.6 | 1366.6 | 1468.3 | 1598.5 | 1669.9 | 1737.1 |
| 10° | 661.9 | 680.4 | 748.4 | 825.7 | 914.7 | 1043.2 | 1182.7 | 1316.2 | 1448.1 | 1539.7 | 1618.6 |
| 12.5° | 465.3 | 525.8 | 593.0 | 691.3 | 778.6 | 872.7 | 1021.4 | 1177.6 | 1342.3 | 1429.6 | 1515.3 |
| 15° | 305.7 | 359.5 | 452.7 | 576.2 | 685.4 | 777.0 | 915.6 | 1098.7 | 1307.8 | 1405.3 | 1486.7 |
| 17.5° | 151.2 | 190.7 | 273.0 | 405.7 | 551.0 | 695.5 | 862.6 | 1084.4 | 1352.3 | 1462.4 | 1538.8 |
| 20° | 94.9 | 106.7 | 136.9 | 229.3 | 396.5 | 609.8 | 823.2 | 1113.0 | 1473.3 | 1595.1 | 1644.7 |
| 22.5° | 76.4 | 79.8 | 91.6 | 121.8 | 241.9 | 504.0 | 788.7 | 1151.6 | 1606.0 | 1754.7 | 1805.9 |
| 25° | 65.5 | 68.0 | 74.8 | 89.9 | 140.3 | 378.0 | 746.7 | 1219.6 | 1760.6 | 1940.3 | 1952.9 |
| 27.5° | 56.3 | 58.8 | 64.7 | 76.4 | 100.0 | 254.5 | 686.3 | 1299.4 | 1945.4 | 2103.3 | 2094.9 |
| 30° | 47.9 | 51.2 | 57.1 | 65.5 | 79.0 | 172.2 | 573.7 | 1380.1 | 2081.4 | 2208.3 | 2194.8 |
| 32.5° | 41.2 | 43.7 | 48.7 | 56.3 | 65.5 | 118.4 | 430.9 | 1433.0 | 2194.8 | 2307.4 | 2278.0 |
| 35° | 33.6 | 36.1 | 40.3 | 47.0 | 52.9 | 84.0 | 325.9 | 1434.7 | 2311.6 | 2430.0 | 2356.1 |
| 37.5° | 26.9 | 28.6 | 32.8 | 38.6 | 43.7 | 65.5 | 239.4 | 1406.9 | 2456.1 | 2589.6 | 2445.1 |
| 40° | 20.2 | 22.7 | 26.9 | 31.9 | 37.0 | 55.4 | 178.9 | 1339.7 | 2597.2 | 2749.2 | 2552.7 |
| 42.5° | 13.4 | 16.8 | 21.0 | 26.0 | 35.3 | 44.5 | 126.0 | 1228.0 | 2711.4 | 2891.2 | 2657.7 |
| 45° | 8.4 | 10.9 | 16.0 | 21.8 | 36.1 | 35.3 | 84.0 | 1094.5 | 2792.9 | 2999.5 | 2729.1 |
| 47.5° | 4.2 | 6.7 | 11.8 | 21.0 | 31.9 | 26.0 | 52.1 | 966.8 | 2866.8 | 3062.5 | 2761.8 |
| 50° | 0.8 | 2.5 | 8.4 | 26.0 | 26.9 | 19.3 | 34.4 | 887.0 | 2905.4 | 3046.6 | 2758.5 |
| 52.5° | 0.0 | 0.0 | 5.9 | 25.2 | 19.3 | 15.1 | 26.9 | 875.2 | 2965.9 | 3067.6 | 2816.4 |
| 55° | 0.0 | 0.0 | 2.5 | 10.9 | 10.9 | 12.6 | 23.5 | 859.3 | 3073.4 | 3192.7 | 2991.1 |
| 57.5° | 0.0 | 0.0 | 0.0 | 5.0 | 6.7 | 10.1 | 21.8 | 817.3 | 3186.8 | 3325.4 | 3203.6 |
| 60° | 0.0 | 0.0 | 0.0 | 2.5 | 4.2 | 8.4 | 19.3 | 721.5 | 3082.7 | 3326.3 | 3380.0 |
| 61° | 0.0 | 0.0 | 0.0 | 2.5 | 3.4 | 7.6 | 17.6 | 687.9 | 2989.4 | 3272.5 | 3401.9 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.8 | 2.5 | 5.9 | 15.1 | 621.6 | 2850.0 | 3186.0 | 3391.8 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 3.4 | 11.8 | 502.3 | 2617.3 | 2968.4 | 3275.9 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 7.6 | 353.6 | 2283.0 | 2722.3 | 3028.1 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 205.0 | 1839.5 | 2304.9 | 2593.8 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 93.2 | 1193.6 | 1779.9 | 2046.2 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 39.5 | 735.0 | 1286.0 | 1528.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.6 | 498.1 | 855.9 | 1029.0 |
| 80° | 0.0 | 1.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 306.6 | 534.2 | 580.4 |
| 82.5° | 0.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 158.8 | 377.1 | 384.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 66.4 | 79.8 |
| 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 |



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| 2.5° | 1774.9 | 1779.9 | 1783.3 | 1777.4 | 1741.3 | 1721.1 | 1680.8 | 1636.3 | 1621.1 | 1616.9 |
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| 30° | 1927.7 | 1575.8 | 1395.2 | 1406.9 | 1511.1 | 1727.0 | 1992.4 | 2176.4 | 2080.6 | 2007.5 |
| 32.5° | 1995.8 | 1631.2 | 1419.5 | 1431.3 | 1556.5 | 1758.1 | 2047.8 | 2302.4 | 2197.4 | 2125.1 |
| 35° | 2062.1 | 1685.8 | 1464.9 | 1485.9 | 1629.5 | 1814.3 | 2104.1 | 2450.2 | 2362.8 | 2262.9 |
| 37.5° | 2119.2 | 1746.3 | 1543.0 | 1587.5 | 1728.7 | 1900.8 | 2180.6 | 2618.2 | 2528.3 | 2416.6 |
| 40° | 2167.1 | 1817.7 | 1704.3 | 1753.9 | 1879.8 | 1992.4 | 2265.4 | 2728.2 | 2668.6 | 2548.5 |
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| 45° | 2270.4 | 2169.6 | 2238.5 | 2352.7 | 2346.9 | 2223.4 | 2283.0 | 2829.8 | 2831.5 | 2740.8 |
| 47.5° | 2376.3 | 2452.7 | 2651.8 | 2729.1 | 2689.6 | 2395.6 | 2289.8 | 2877.7 | 2915.5 | 2844.1 |
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| 60° | 3240.6 | 3590.9 | 3875.6 | 3915.1 | 3860.5 | 3483.3 | 3228.8 | 3738.7 | 3736.2 | 3678.2 |
| 61° | 3360.7 | 3647.1 | 3870.6 | 3882.3 | 3829.4 | 3559.8 | 3376.7 | 3830.3 | 3754.7 | 3678.2 |
| 62.5° | 3493.4 | 3698.4 | 3808.4 | 3768.9 | 3711.8 | 3586.7 | 3590.9 | 3930.2 | 3767.3 | 3649.7 |
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| 75° | 1706.0 | 1090.3 | 940.8 | 934.0 | 901.3 | 1135.6 | 1901.7 | 1107.1 | 913.9 | 816.4 |
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| 80° | 648.5 | 481.3 | 564.5 | 447.7 | 448.5 | 361.2 | 345.2 | 64.7 | 52.1 | 37.8 |
| 82.5° | 372.1 | 231.0 | 174.7 | 68.9 | 144.5 | 144.5 | 27.7 | 0.8 | 0.8 | 1.7 |
| 85° | 36.1 | 10.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 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 |

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