

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: P401187

Luminaire Tested: **ENV-SA1B-760-U-SLR-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401187
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: ENV-SA1B-760-U-SLR-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5700K, 450mA 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: 2577 lumens
Efficiency: N/A
Efficacy: 101.5 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): 25.4
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

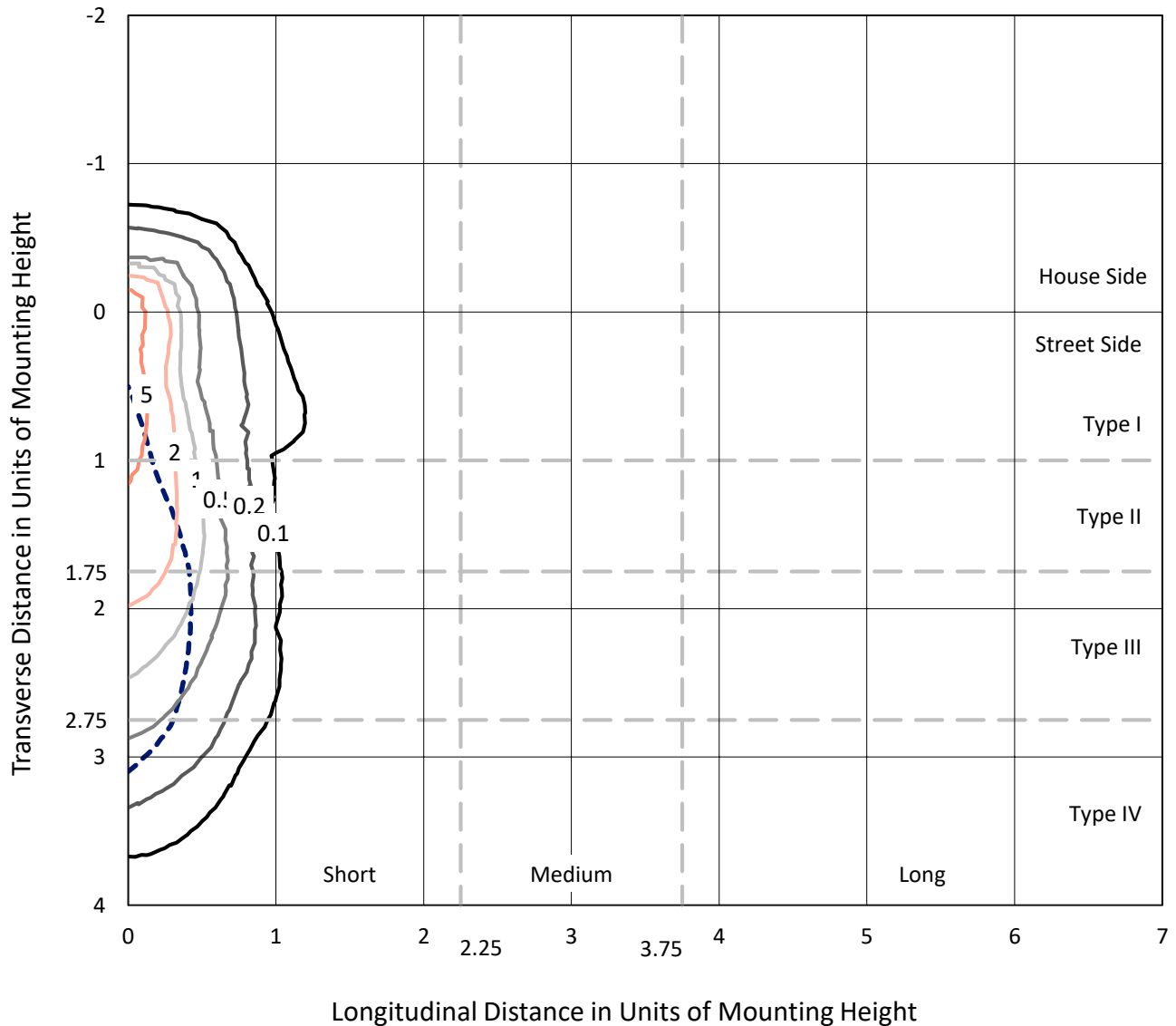


REPORT NUMBER: P401187

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

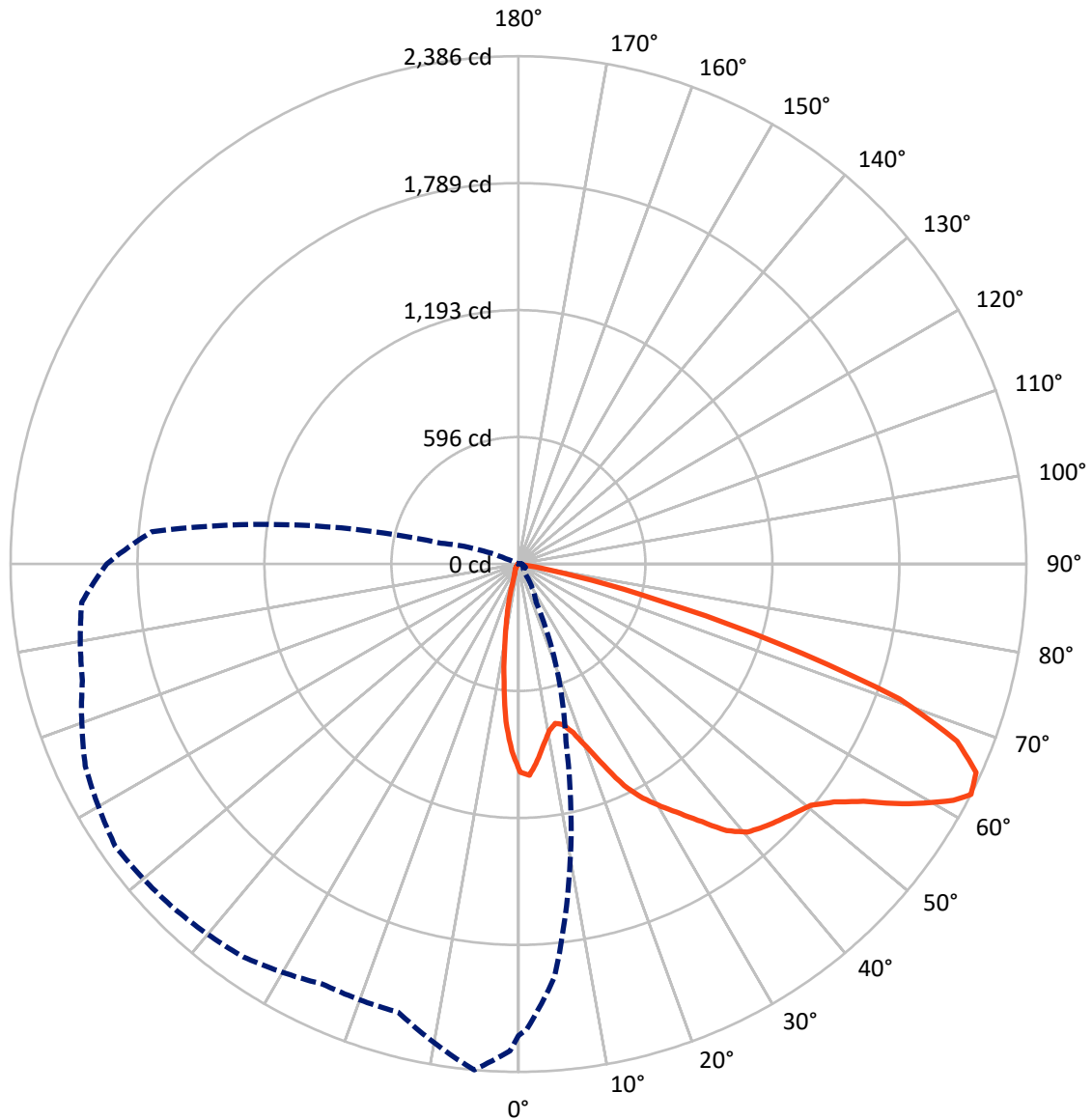


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P401187

CATALOG NUMBER: ENV-SA1B-760-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P401187

CATALOG NUMBER: ENV-SA1B-760-U-SLR-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 362.5 | 0.0 | 362.5 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 2214.5 | 0.0 | 2214.5 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 2577.0 | 0.0 | 2577.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.3 | 2.8 |
| 10°-20° | 139.3 | 5.4 |
| 20°-30° | 193.9 | 7.5 |
| 30°-40° | 280.4 | 10.9 |
| 40°-50° | 402.0 | 15.6 |
| 50°-60° | 583.3 | 22.6 |
| 60°-70° | 631.0 | 24.5 |
| 70°-80° | 254.9 | 9.9 |
| 80°-90° | 18.9 | 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° | 2577.0 | 100.0 |
| 0°-180° | 2577.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P401187

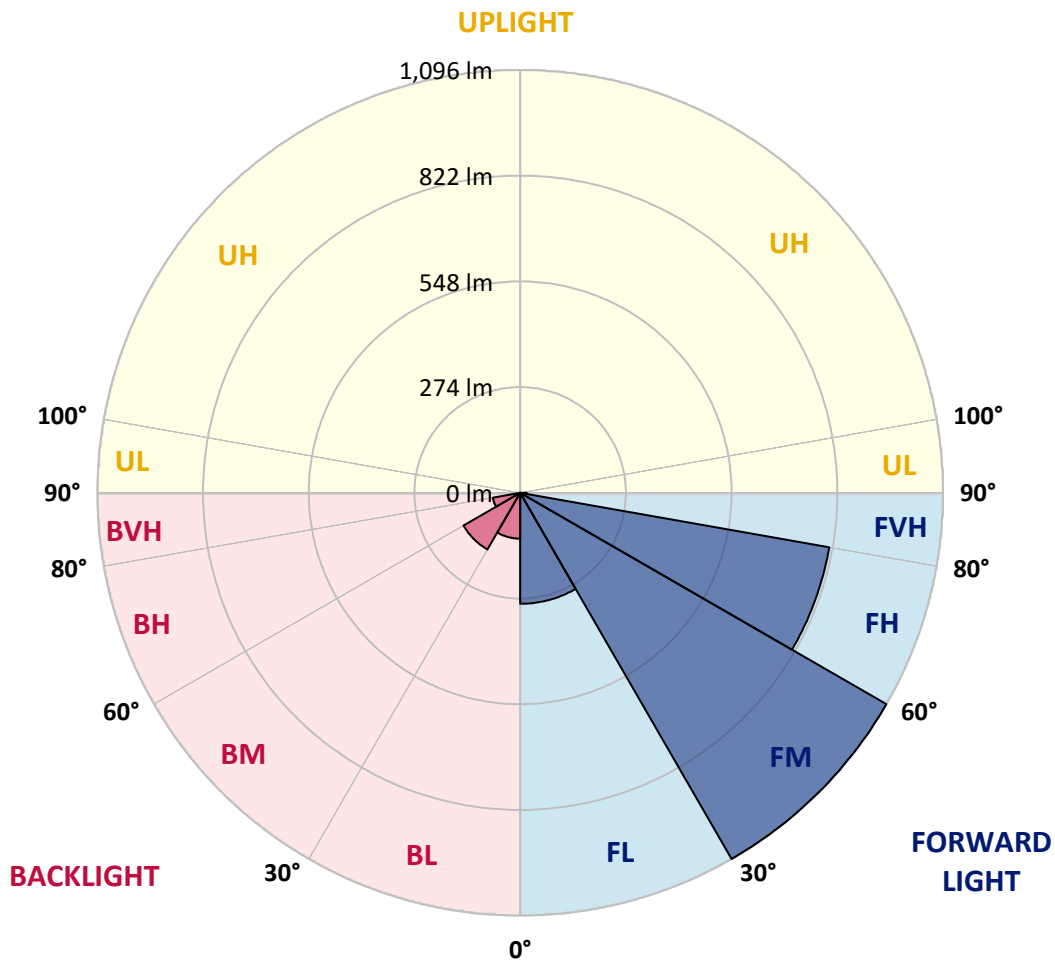
CATALOG NUMBER: ENV-SA1B-760-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 287.7 | 11.2 | | | |
| FM | (30°-60°) | 1096.1 | 42.5 | | | |
| FH | (60°-80°) | 813.8 | 31.6 | | | G1/1800 |
| FVH | (80°-90°) | 17.0 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 118.9 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 169.6 | 6.6 | B0/220 | | |
| BH | (60°-80°) | 72.1 | 2.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.9 | 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





REPORT NUMBER: P401187

CATALOG NUMBER: ENV-SA1B-760-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 |
| 2.5° | 981.6 | 977.5 | 968.3 | 948.4 | 919.9 | 901.5 | 889.8 | 874.5 | 858.7 | 853.6 | 843.4 |
| 5° | 895.9 | 889.3 | 876.5 | 826.6 | 781.7 | 736.8 | 704.7 | 674.1 | 663.9 | 643.5 | 655.8 |
| 7.5° | 813.3 | 810.3 | 780.7 | 715.9 | 644.5 | 586.9 | 550.2 | 505.3 | 492.1 | 471.2 | 454.3 |
| 10° | 748.6 | 746.0 | 710.3 | 625.7 | 548.7 | 500.7 | 471.7 | 442.6 | 413.5 | 384.0 | 360.5 |
| 12.5° | 715.9 | 710.3 | 669.0 | 577.7 | 506.3 | 466.6 | 436.0 | 397.2 | 366.1 | 326.3 | 297.8 |
| 15° | 721.0 | 715.9 | 668.5 | 570.1 | 486.0 | 430.9 | 385.5 | 339.6 | 295.8 | 256.5 | 228.4 |
| 17.5° | 761.8 | 759.8 | 702.2 | 576.7 | 461.5 | 388.6 | 327.9 | 266.2 | 214.2 | 171.8 | 147.9 |
| 20° | 841.4 | 835.2 | 751.6 | 591.0 | 436.0 | 339.6 | 256.5 | 180.5 | 137.2 | 108.1 | 97.9 |
| 22.5° | 939.8 | 926.0 | 829.6 | 611.9 | 411.5 | 287.1 | 185.6 | 121.4 | 97.9 | 86.7 | 79.5 |
| 25° | 1055.5 | 1056.0 | 926.5 | 639.9 | 387.0 | 238.1 | 130.0 | 96.4 | 82.6 | 74.4 | 68.3 |
| 27.5° | 1149.4 | 1142.2 | 1013.7 | 668.0 | 360.5 | 195.3 | 109.1 | 84.1 | 72.4 | 63.7 | 60.2 |
| 30° | 1218.7 | 1208.0 | 1071.3 | 687.4 | 326.3 | 165.2 | 97.9 | 80.1 | 68.3 | 58.6 | 54.1 |
| 32.5° | 1290.1 | 1276.8 | 1123.3 | 698.1 | 305.9 | 150.9 | 86.7 | 69.9 | 61.2 | 57.1 | 51.0 |
| 35° | 1373.7 | 1362.0 | 1181.0 | 697.1 | 295.2 | 142.8 | 78.5 | 63.2 | 52.0 | 45.4 | 41.3 |
| 37.5° | 1467.0 | 1443.1 | 1240.6 | 692.5 | 287.6 | 138.7 | 71.4 | 58.6 | 48.4 | 41.3 | 36.2 |
| 40° | 1547.1 | 1523.1 | 1295.7 | 686.3 | 282.5 | 134.6 | 67.3 | 55.6 | 45.9 | 38.2 | 33.1 |
| 42.5° | 1609.8 | 1586.9 | 1347.2 | 678.7 | 279.9 | 125.9 | 69.3 | 53.5 | 43.9 | 36.2 | 30.6 |
| 45° | 1663.9 | 1640.4 | 1408.4 | 677.7 | 278.9 | 119.8 | 68.3 | 53.0 | 42.8 | 33.7 | 28.6 |
| 47.5° | 1726.6 | 1714.3 | 1489.0 | 694.5 | 274.8 | 115.2 | 62.7 | 57.1 | 42.3 | 32.6 | 27.0 |
| 50° | 1819.4 | 1808.7 | 1594.5 | 744.5 | 268.7 | 110.7 | 57.1 | 62.7 | 42.3 | 31.6 | 25.5 |
| 52.5° | 1949.4 | 1937.2 | 1760.7 | 809.7 | 263.1 | 105.6 | 51.5 | 60.7 | 42.8 | 30.1 | 24.5 |
| 55° | 2084.0 | 2082.0 | 1917.8 | 879.1 | 258.0 | 94.3 | 45.4 | 54.6 | 41.8 | 28.0 | 22.9 |
| 57.5° | 2189.6 | 2188.1 | 2035.6 | 926.0 | 248.3 | 76.0 | 41.3 | 45.4 | 38.8 | 25.5 | 20.9 |
| 60° | 2232.9 | 2220.2 | 2048.3 | 926.0 | 225.9 | 62.7 | 37.7 | 35.7 | 39.3 | 22.9 | 18.4 |
| 61° | 2232.9 | 2216.6 | 2025.4 | 912.2 | 214.7 | 59.7 | 35.7 | 33.1 | 40.3 | 21.9 | 17.3 |
| 62.5° | 2215.6 | 2188.6 | 1946.9 | 862.8 | 196.8 | 59.7 | 32.6 | 29.6 | 36.7 | 20.9 | 15.8 |
| 65° | 2138.6 | 2094.2 | 1762.8 | 750.1 | 178.5 | 61.2 | 28.0 | 25.0 | 26.5 | 17.8 | 13.8 |
| 67.5° | 1948.4 | 1898.4 | 1524.1 | 593.5 | 163.7 | 64.8 | 23.5 | 21.9 | 20.4 | 15.8 | 12.2 |
| 70° | 1605.2 | 1562.9 | 1243.7 | 444.6 | 152.0 | 65.8 | 20.4 | 18.4 | 17.3 | 13.8 | 10.7 |
| 72.5° | 1026.0 | 956.1 | 776.6 | 301.4 | 121.9 | 57.1 | 16.8 | 17.3 | 15.8 | 11.2 | 8.7 |
| 75° | 495.6 | 515.0 | 451.8 | 152.0 | 82.1 | 37.2 | 13.3 | 14.3 | 12.7 | 10.2 | 7.6 |
| 77.5° | 221.8 | 217.7 | 215.7 | 38.8 | 20.9 | 12.7 | 8.2 | 9.7 | 10.2 | 9.2 | 6.6 |
| 80° | 22.9 | 31.1 | 18.4 | 11.7 | 7.6 | 5.6 | 4.6 | 5.1 | 6.1 | 6.6 | 3.6 |
| 82.5° | 1.0 | 0.5 | 0.5 | 1.5 | 1.5 | 1.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.5 |
| 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 |



REPORT NUMBER: P401187

CATALOG NUMBER: ENV-SA1B-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 |
| 2.5° | 834.2 | 848.0 | 841.9 | 840.3 | 848.5 | 844.4 | 856.7 | 857.2 | 866.3 | 878.6 | 886.2 |
| 5° | 655.8 | 645.0 | 666.5 | 680.7 | 698.6 | 693.0 | 714.4 | 711.8 | 723.6 | 742.9 | 735.3 |
| 7.5° | 455.4 | 456.9 | 468.1 | 480.9 | 528.8 | 538.5 | 545.6 | 551.2 | 550.7 | 555.3 | 563.5 |
| 10° | 348.3 | 339.6 | 332.0 | 349.8 | 368.7 | 389.6 | 392.6 | 400.3 | 379.4 | 388.0 | 392.1 |
| 12.5° | 285.0 | 274.8 | 258.0 | 248.8 | 253.4 | 265.7 | 270.8 | 275.4 | 263.1 | 263.6 | 272.8 |
| 15° | 216.2 | 202.4 | 195.8 | 183.6 | 179.0 | 178.0 | 180.5 | 173.9 | 172.4 | 166.7 | 170.3 |
| 17.5° | 140.7 | 136.7 | 133.1 | 130.5 | 127.0 | 125.9 | 116.8 | 101.0 | 91.8 | 89.7 | 89.7 |
| 20° | 93.8 | 90.8 | 90.8 | 95.9 | 94.3 | 90.3 | 78.0 | 64.8 | 58.1 | 56.1 | 57.1 |
| 22.5° | 77.0 | 75.0 | 71.9 | 71.9 | 73.9 | 70.9 | 59.7 | 50.0 | 45.4 | 45.4 | 45.4 |
| 25° | 66.8 | 65.8 | 62.7 | 59.7 | 60.7 | 58.1 | 48.4 | 42.3 | 39.3 | 38.8 | 39.3 |
| 27.5° | 58.6 | 58.1 | 54.6 | 51.5 | 51.5 | 49.5 | 41.8 | 36.2 | 34.2 | 33.1 | 33.7 |
| 30° | 53.0 | 52.0 | 47.9 | 45.4 | 44.9 | 42.8 | 35.7 | 31.6 | 29.6 | 29.1 | 29.1 |
| 32.5° | 49.0 | 46.9 | 43.3 | 40.8 | 39.3 | 36.2 | 31.1 | 27.0 | 25.0 | 24.5 | 24.5 |
| 35° | 39.3 | 39.3 | 37.7 | 36.2 | 34.2 | 29.6 | 26.0 | 22.4 | 20.4 | 19.9 | 19.9 |
| 37.5° | 34.2 | 32.1 | 29.6 | 30.1 | 29.1 | 25.0 | 21.4 | 17.8 | 16.3 | 15.8 | 15.8 |
| 40° | 31.1 | 28.6 | 25.0 | 23.5 | 24.0 | 21.9 | 17.8 | 13.8 | 11.7 | 12.2 | 11.7 |
| 42.5° | 28.0 | 26.0 | 21.9 | 18.4 | 17.8 | 18.4 | 13.8 | 9.7 | 8.2 | 8.2 | 8.2 |
| 45° | 26.0 | 24.0 | 19.4 | 15.3 | 12.7 | 14.3 | 10.7 | 6.6 | 5.1 | 5.1 | 5.1 |
| 47.5° | 24.5 | 22.4 | 17.3 | 12.7 | 9.2 | 9.7 | 7.6 | 4.1 | 3.1 | 2.0 | 2.5 |
| 50° | 23.5 | 20.9 | 15.8 | 10.2 | 6.6 | 5.6 | 5.1 | 2.0 | 0.5 | 0.5 | 0.0 |
| 52.5° | 21.9 | 19.9 | 14.3 | 8.7 | 5.1 | 3.6 | 2.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 55° | 20.9 | 18.4 | 12.7 | 7.6 | 4.1 | 2.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 18.9 | 16.8 | 11.2 | 6.1 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 16.8 | 15.3 | 9.7 | 4.6 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 61° | 15.8 | 14.3 | 9.2 | 4.1 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 14.8 | 13.3 | 8.2 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 12.7 | 11.2 | 7.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 11.2 | 10.2 | 6.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 9.7 | 8.7 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 8.2 | 7.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 7.1 | 6.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 5.6 | 5.1 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3.1 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.5 | 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 |



REPORT NUMBER: P401187

CATALOG NUMBER: ENV-SA1B-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 | 977.5 |
| 2.5° | 893.4 | 911.2 | 928.0 | 949.5 | 961.2 | 993.3 | 1016.3 | 1035.6 | 1050.9 | 1054.0 | 1066.2 |
| 5° | 755.7 | 780.7 | 797.0 | 841.9 | 866.9 | 920.4 | 961.7 | 1010.7 | 1054.5 | 1078.5 | 1100.4 |
| 7.5° | 569.1 | 581.3 | 609.4 | 654.2 | 713.4 | 759.8 | 829.6 | 891.3 | 970.4 | 1013.7 | 1054.5 |
| 10° | 401.8 | 413.0 | 454.3 | 501.2 | 555.3 | 633.3 | 718.0 | 799.0 | 879.1 | 934.7 | 982.6 |
| 12.5° | 282.5 | 319.2 | 360.0 | 419.7 | 472.7 | 529.8 | 620.1 | 714.9 | 814.8 | 867.9 | 919.9 |
| 15° | 185.6 | 218.2 | 274.8 | 349.8 | 416.1 | 471.7 | 555.8 | 667.0 | 793.9 | 853.1 | 902.6 |
| 17.5° | 91.8 | 115.8 | 165.7 | 246.3 | 334.5 | 422.2 | 523.7 | 658.3 | 821.0 | 887.8 | 934.2 |
| 20° | 57.6 | 64.8 | 83.1 | 139.2 | 240.7 | 370.2 | 499.7 | 675.6 | 894.4 | 968.3 | 998.4 |
| 22.5° | 46.4 | 48.4 | 55.6 | 73.9 | 146.9 | 305.9 | 478.8 | 699.1 | 975.0 | 1065.2 | 1096.3 |
| 25° | 39.8 | 41.3 | 45.4 | 54.6 | 85.2 | 229.5 | 453.3 | 740.4 | 1068.8 | 1177.9 | 1185.6 |
| 27.5° | 34.2 | 35.7 | 39.3 | 46.4 | 60.7 | 154.5 | 416.6 | 788.8 | 1181.0 | 1276.8 | 1271.7 |
| 30° | 29.1 | 31.1 | 34.7 | 39.8 | 47.9 | 104.5 | 348.3 | 837.8 | 1263.6 | 1340.6 | 1332.4 |
| 32.5° | 25.0 | 26.5 | 29.6 | 34.2 | 39.8 | 71.9 | 261.6 | 869.9 | 1332.4 | 1400.7 | 1382.9 |
| 35° | 20.4 | 21.9 | 24.5 | 28.6 | 32.1 | 51.0 | 197.8 | 870.9 | 1403.3 | 1475.2 | 1430.3 |
| 37.5° | 16.3 | 17.3 | 19.9 | 23.5 | 26.5 | 39.8 | 145.3 | 854.1 | 1491.0 | 1572.1 | 1484.4 |
| 40° | 12.2 | 13.8 | 16.3 | 19.4 | 22.4 | 33.7 | 108.6 | 813.3 | 1576.7 | 1669.0 | 1549.6 |
| 42.5° | 8.2 | 10.2 | 12.7 | 15.8 | 21.4 | 27.0 | 76.5 | 745.5 | 1646.0 | 1755.1 | 1613.4 |
| 45° | 5.1 | 6.6 | 9.7 | 13.3 | 21.9 | 21.4 | 51.0 | 664.4 | 1695.5 | 1820.9 | 1656.7 |
| 47.5° | 2.5 | 4.1 | 7.1 | 12.7 | 19.4 | 15.8 | 31.6 | 586.9 | 1740.3 | 1859.2 | 1676.6 |
| 50° | 0.5 | 1.5 | 5.1 | 15.8 | 16.3 | 11.7 | 20.9 | 538.5 | 1763.8 | 1849.5 | 1674.6 |
| 52.5° | 0.0 | 0.0 | 3.6 | 15.3 | 11.7 | 9.2 | 16.3 | 531.3 | 1800.5 | 1862.2 | 1709.7 |
| 55° | 0.0 | 0.0 | 1.5 | 6.6 | 6.6 | 7.6 | 14.3 | 521.6 | 1865.8 | 1938.2 | 1815.8 |
| 57.5° | 0.0 | 0.0 | 0.0 | 3.1 | 4.1 | 6.1 | 13.3 | 496.1 | 1934.6 | 2018.8 | 1944.8 |
| 60° | 0.0 | 0.0 | 0.0 | 1.5 | 2.5 | 5.1 | 11.7 | 438.0 | 1871.4 | 2019.3 | 2051.9 |
| 61° | 0.0 | 0.0 | 0.0 | 1.5 | 2.0 | 4.6 | 10.7 | 417.6 | 1814.8 | 1986.6 | 2065.2 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.5 | 1.5 | 3.6 | 9.2 | 377.3 | 1730.1 | 1934.1 | 2059.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 2.0 | 7.1 | 304.9 | 1588.9 | 1802.0 | 1988.7 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 4.6 | 214.7 | 1386.0 | 1652.6 | 1838.2 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 124.4 | 1116.7 | 1399.2 | 1574.6 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 56.6 | 724.6 | 1080.5 | 1242.2 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.0 | 446.2 | 780.7 | 928.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 | 302.4 | 519.6 | 624.6 |
| 80° | 0.0 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 186.1 | 324.3 | 352.4 |
| 82.5° | 0.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 96.4 | 229.0 | 233.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40.3 | 48.4 |
| 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° | 1077.5 | 1080.5 | 1082.6 | 1079.0 | 1057.1 | 1044.8 | 1020.3 | 993.3 | 984.1 | 981.6 |
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| 10° | 1065.7 | 1122.8 | 1150.4 | 1142.7 | 1082.0 | 987.2 | 883.7 | 796.0 | 759.8 | 748.6 |
| 12.5° | 1005.6 | 1060.6 | 1078.0 | 1084.1 | 1050.9 | 968.8 | 862.3 | 767.9 | 730.2 | 715.9 |
| 15° | 965.3 | 999.4 | 998.4 | 1009.6 | 1007.1 | 961.7 | 876.0 | 782.2 | 739.9 | 721.0 |
| 17.5° | 952.0 | 941.8 | 928.6 | 937.7 | 955.6 | 963.7 | 920.9 | 833.2 | 783.7 | 761.8 |
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| 22.5° | 1002.0 | 894.4 | 849.5 | 850.5 | 896.9 | 1005.6 | 1062.7 | 1027.5 | 976.5 | 939.8 |
| 25° | 1063.7 | 897.5 | 837.3 | 843.4 | 894.9 | 1027.5 | 1144.8 | 1152.9 | 1087.7 | 1055.5 |
| 27.5° | 1126.4 | 924.0 | 837.8 | 844.4 | 903.6 | 1039.2 | 1191.7 | 1245.2 | 1189.1 | 1149.4 |
| 30° | 1170.3 | 956.6 | 847.0 | 854.1 | 917.3 | 1048.4 | 1209.5 | 1321.2 | 1263.1 | 1218.7 |
| 32.5° | 1211.6 | 990.3 | 861.8 | 868.9 | 944.9 | 1067.3 | 1243.2 | 1397.7 | 1333.9 | 1290.1 |
| 35° | 1251.8 | 1023.4 | 889.3 | 902.0 | 989.2 | 1101.4 | 1277.3 | 1487.4 | 1434.4 | 1373.7 |
| 37.5° | 1286.5 | 1060.1 | 936.7 | 963.7 | 1049.4 | 1153.9 | 1323.7 | 1589.4 | 1534.8 | 1467.0 |
| 40° | 1315.6 | 1103.5 | 1034.6 | 1064.7 | 1141.2 | 1209.5 | 1375.2 | 1656.2 | 1620.0 | 1547.1 |
| 42.5° | 1339.0 | 1179.9 | 1174.8 | 1217.2 | 1270.7 | 1273.3 | 1390.0 | 1688.3 | 1674.6 | 1609.8 |
| 45° | 1378.3 | 1317.1 | 1358.9 | 1428.3 | 1424.7 | 1349.7 | 1386.0 | 1717.9 | 1718.9 | 1663.9 |
| 47.5° | 1442.6 | 1489.0 | 1609.8 | 1656.7 | 1632.8 | 1454.3 | 1390.0 | 1747.0 | 1769.9 | 1726.6 |
| 50° | 1534.3 | 1683.7 | 1841.8 | 1904.0 | 1834.2 | 1559.3 | 1426.2 | 1781.6 | 1851.0 | 1819.4 |
| 52.5° | 1612.9 | 1831.1 | 2056.0 | 2111.6 | 2016.2 | 1671.5 | 1510.9 | 1856.6 | 1959.6 | 1949.4 |
| 55° | 1725.0 | 1958.1 | 2208.4 | 2251.3 | 2174.8 | 1798.5 | 1624.6 | 1966.7 | 2078.9 | 2084.0 |
| 57.5° | 1839.8 | 2072.8 | 2307.9 | 2351.2 | 2293.1 | 1956.5 | 1786.2 | 2124.8 | 2191.1 | 2189.6 |
| 60° | 1967.3 | 2179.9 | 2352.8 | 2376.7 | 2343.6 | 2114.6 | 1960.1 | 2269.6 | 2268.1 | 2232.9 |
| 61° | 2040.2 | 2214.1 | 2349.7 | 2356.8 | 2324.7 | 2161.0 | 2049.9 | 2325.2 | 2279.3 | 2232.9 |
| 62.5° | 2120.7 | 2245.2 | 2312.0 | 2288.0 | 2253.3 | 2177.3 | 2179.9 | 2385.9 | 2287.0 | 2215.6 |
| 65° | 2202.3 | 2167.1 | 2138.1 | 2023.3 | 1990.7 | 2027.4 | 2289.5 | 2363.0 | 2240.6 | 2138.6 |
| 67.5° | 2062.6 | 1857.1 | 1794.4 | 1679.2 | 1550.1 | 1700.1 | 2185.5 | 2222.7 | 2084.0 | 1948.4 |
| 70° | 1685.8 | 1364.5 | 1290.1 | 1286.0 | 1193.2 | 1357.9 | 1927.5 | 1900.5 | 1729.6 | 1605.2 |
| 72.5° | 1321.2 | 931.1 | 829.6 | 853.1 | 834.7 | 1012.2 | 1576.7 | 1275.3 | 1109.1 | 1026.0 |
| 75° | 1035.6 | 661.9 | 571.1 | 567.0 | 547.1 | 689.4 | 1154.5 | 672.1 | 554.8 | 495.6 |
| 77.5° | 683.3 | 476.8 | 475.2 | 439.0 | 423.7 | 373.8 | 518.1 | 269.2 | 219.8 | 221.8 |
| 80° | 393.7 | 292.2 | 342.7 | 271.8 | 272.3 | 219.3 | 209.6 | 39.3 | 31.6 | 22.9 |
| 82.5° | 225.9 | 140.2 | 106.1 | 41.8 | 87.7 | 87.7 | 16.8 | 0.5 | 0.5 | 1.0 |
| 85° | 21.9 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 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)