

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: P401095

Luminaire Tested: **ENV-SA1B-730-U-SLL-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401095
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: ENV-SA1B-730-U-SLL-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA 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: 2347 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

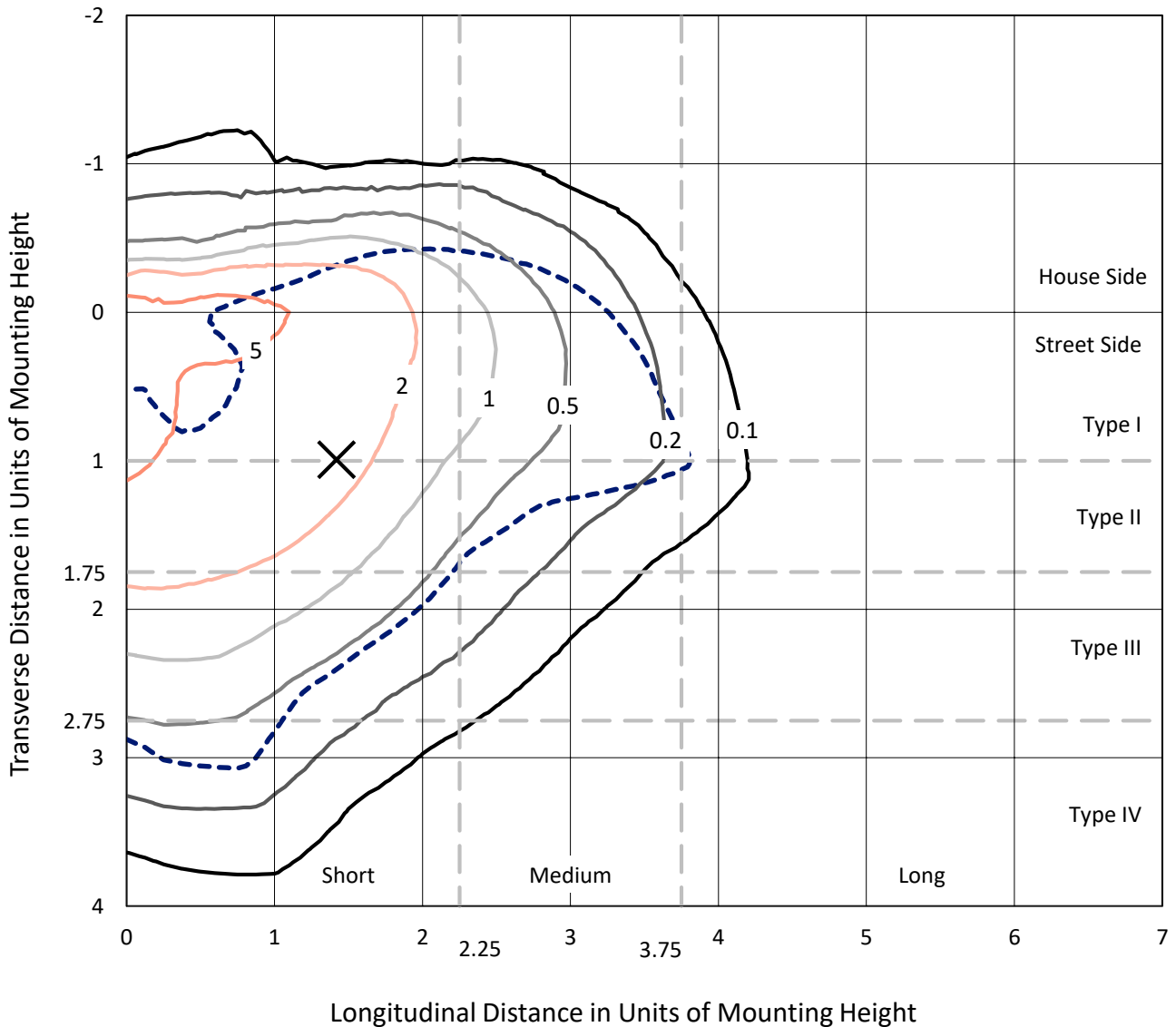
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

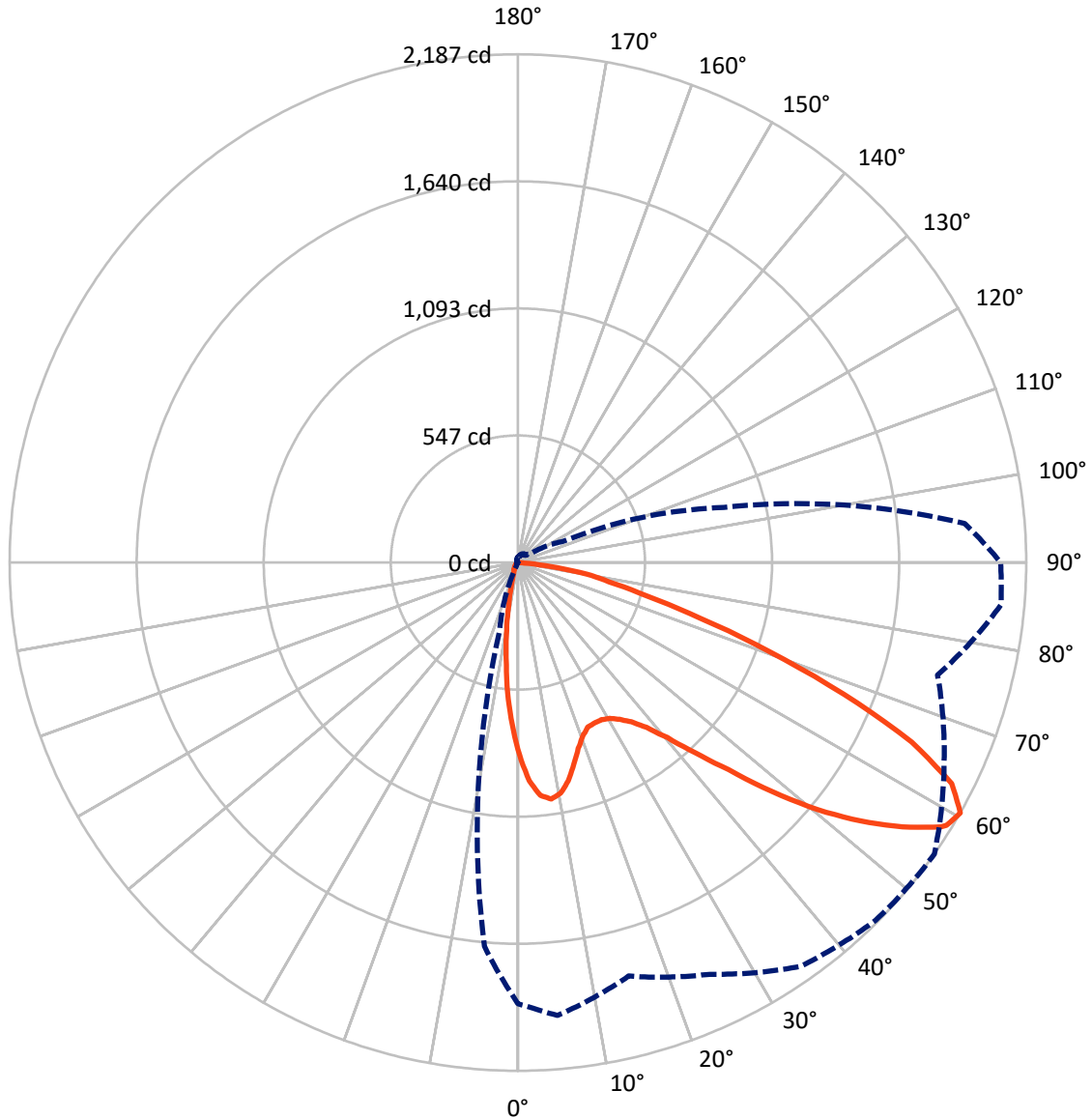
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type 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 | 415.6 | 0.0 | 415.6 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 1931.4 | 0.0 | 1931.4 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 2347.0 | 0.0 | 2347.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.4 | 2.7 |
| 10°-20° | 118.6 | 5.1 |
| 20°-30° | 169.2 | 7.2 |
| 30°-40° | 248.2 | 10.6 |
| 40°-50° | 366.0 | 15.6 |
| 50°-60° | 542.2 | 23.1 |
| 60°-70° | 577.8 | 24.6 |
| 70°-80° | 239.6 | 10.2 |
| 80°-90° | 23.0 | 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° | 2347.0 | 100.0 |
| 0°-180° | 2347.0 | 100.0 |



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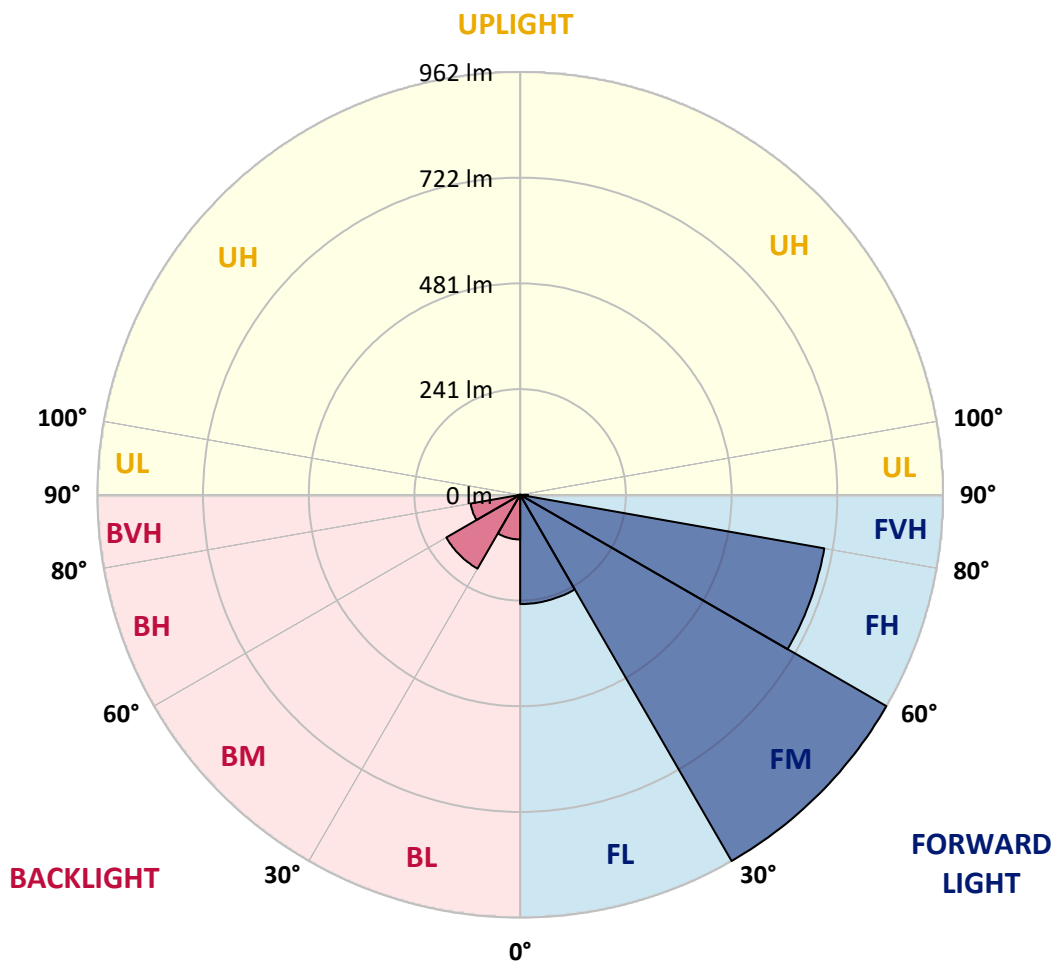
CATALOG NUMBER: ENV-SA1B-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 248.6 | 10.6 | | | |
| FM | (30°-60°) | 962.3 | 41.0 | | | |
| FH | (60°-80°) | 702.8 | 29.9 | | | G1/1800 |
| FVH | (80°-90°) | 17.6 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 101.6 | 4.3 | B0/110 | | |
| BM | (30°-60°) | 194.0 | 8.3 | B0/220 | | |
| BH | (60°-80°) | 114.6 | 4.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.4 | 0.2 | | | 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 III Short





REPORT NUMBER: P401095

CATALOG NUMBER: ENV-SA1B-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 |
| 2.5° | 865.7 | 864.4 | 876.8 | 902.5 | 918.5 | 928.2 | 930.0 | 940.2 | 930.0 | 924.7 | 905.6 |
| 5° | 840.4 | 839.9 | 863.9 | 920.3 | 966.4 | 1001.0 | 1017.9 | 1006.3 | 988.6 | 953.5 | 910.9 |
| 7.5° | 770.3 | 770.3 | 815.5 | 891.0 | 968.2 | 1028.1 | 1048.5 | 1027.2 | 985.0 | 914.5 | 838.2 |
| 10° | 713.0 | 718.4 | 761.9 | 851.9 | 937.6 | 1003.2 | 1025.9 | 1009.4 | 954.4 | 863.0 | 773.4 |
| 12.5° | 678.9 | 682.0 | 730.3 | 820.9 | 900.7 | 954.0 | 967.7 | 962.9 | 922.9 | 823.5 | 728.6 |
| 15° | 682.0 | 686.4 | 741.9 | 816.0 | 867.9 | 889.2 | 894.1 | 900.3 | 883.9 | 807.6 | 713.9 |
| 17.5° | 730.8 | 733.9 | 789.8 | 837.7 | 835.5 | 828.9 | 830.6 | 840.8 | 860.4 | 820.9 | 743.7 |
| 20° | 808.9 | 816.9 | 873.2 | 874.1 | 818.6 | 787.6 | 779.6 | 796.5 | 849.3 | 855.9 | 807.1 |
| 22.5° | 909.2 | 912.3 | 969.5 | 935.3 | 820.4 | 759.2 | 749.9 | 769.0 | 852.8 | 912.7 | 895.0 |
| 25° | 1025.4 | 1036.5 | 1067.6 | 1014.8 | 846.2 | 755.2 | 749.0 | 765.0 | 865.7 | 973.1 | 985.5 |
| 27.5° | 1104.0 | 1112.8 | 1142.6 | 1068.9 | 869.2 | 757.4 | 745.9 | 765.4 | 881.2 | 1029.9 | 1082.2 |
| 30° | 1174.1 | 1180.3 | 1191.4 | 1097.3 | 895.4 | 768.5 | 749.9 | 777.8 | 889.6 | 1041.8 | 1144.8 |
| 32.5° | 1240.2 | 1247.7 | 1241.1 | 1131.5 | 924.3 | 789.4 | 757.4 | 804.0 | 907.8 | 1065.8 | 1199.4 |
| 35° | 1325.4 | 1325.8 | 1303.2 | 1165.6 | 957.1 | 814.2 | 779.6 | 841.3 | 943.3 | 1103.1 | 1257.9 |
| 37.5° | 1426.5 | 1427.4 | 1370.2 | 1200.7 | 994.4 | 855.9 | 832.0 | 899.0 | 994.8 | 1146.1 | 1341.8 |
| 40° | 1514.8 | 1518.4 | 1442.5 | 1241.1 | 1040.1 | 937.1 | 934.9 | 990.4 | 1060.9 | 1203.3 | 1431.9 |
| 42.5° | 1591.6 | 1601.8 | 1509.1 | 1274.8 | 1104.8 | 1061.8 | 1067.1 | 1117.7 | 1141.2 | 1251.3 | 1487.8 |
| 45° | 1669.2 | 1668.8 | 1563.6 | 1308.5 | 1213.1 | 1222.4 | 1273.0 | 1270.8 | 1232.2 | 1277.0 | 1531.7 |
| 47.5° | 1717.6 | 1715.4 | 1596.9 | 1363.5 | 1359.1 | 1448.3 | 1502.0 | 1472.7 | 1332.9 | 1304.5 | 1586.7 |
| 50° | 1736.2 | 1735.4 | 1623.1 | 1433.6 | 1507.7 | 1652.8 | 1729.6 | 1671.0 | 1456.3 | 1350.7 | 1652.4 |
| 52.5° | 1789.0 | 1784.6 | 1683.4 | 1513.5 | 1642.2 | 1849.8 | 1913.3 | 1848.1 | 1579.2 | 1433.6 | 1728.7 |
| 55° | 1871.6 | 1872.9 | 1787.3 | 1607.1 | 1750.0 | 1988.7 | 2066.4 | 2008.2 | 1704.7 | 1547.7 | 1833.4 |
| 57.5° | 1927.0 | 1931.0 | 1902.2 | 1711.4 | 1865.4 | 2085.9 | 2161.3 | 2144.9 | 1872.0 | 1683.9 | 1956.3 |
| 58° | 1932.4 | 1935.5 | 1920.4 | 1731.4 | 1882.7 | 2097.0 | 2174.2 | 2162.7 | 1908.8 | 1727.4 | 1985.6 |
| 60° | 1898.2 | 1907.5 | 1955.9 | 1841.4 | 1954.1 | 2120.5 | 2176.4 | 2186.6 | 2022.9 | 1868.5 | 2085.9 |
| 62.5° | 1805.5 | 1808.6 | 1896.4 | 1964.8 | 2002.9 | 2062.4 | 2067.7 | 2094.3 | 2069.9 | 2034.0 | 2175.5 |
| 65° | 1691.9 | 1691.9 | 1786.8 | 1970.5 | 1876.5 | 1866.7 | 1835.6 | 1862.3 | 1932.8 | 2137.8 | 2169.3 |
| 67.5° | 1494.4 | 1495.8 | 1616.9 | 1755.3 | 1555.7 | 1521.9 | 1502.0 | 1511.7 | 1662.1 | 2051.3 | 2048.6 |
| 70° | 1207.8 | 1206.9 | 1331.6 | 1421.2 | 1154.5 | 1125.7 | 1149.7 | 1146.6 | 1350.2 | 1822.8 | 1788.6 |
| 72.5° | 854.1 | 861.7 | 989.9 | 1097.7 | 784.0 | 675.8 | 781.4 | 822.2 | 1015.7 | 1536.6 | 1383.9 |
| 75° | 481.0 | 491.2 | 595.9 | 762.7 | 494.7 | 457.0 | 511.2 | 569.3 | 734.3 | 1223.3 | 929.6 |
| 77.5° | 241.4 | 245.4 | 305.3 | 366.9 | 299.9 | 348.3 | 345.2 | 400.7 | 503.6 | 825.3 | 531.6 |
| 80° | 139.3 | 147.3 | 167.7 | 189.5 | 167.7 | 221.0 | 256.5 | 301.7 | 310.2 | 426.9 | 296.4 |
| 82.5° | 55.9 | 62.6 | 78.5 | 89.2 | 69.7 | 65.7 | 44.8 | 141.1 | 186.8 | 206.3 | 113.6 |
| 85° | 0.0 | 0.0 | 0.4 | 0.9 | 1.3 | 1.3 | 2.2 | 24.8 | 45.7 | 10.2 | 18.6 |
| 87.5° | 0.0 | 0.0 | 0.4 | 0.4 | 0.9 | 1.3 | 1.8 | 3.1 | 4.0 | 4.9 | 16.9 |
| 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: P401095

CATALOG NUMBER: ENV-SA1B-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 |
| 2.5° | 898.5 | 893.6 | 877.2 | 852.4 | 836.8 | 812.9 | 803.1 | 780.5 | 769.0 | 749.9 | 749.9 |
| 5° | 889.6 | 869.7 | 828.4 | 774.7 | 736.6 | 696.6 | 683.8 | 657.1 | 638.1 | 615.4 | 606.1 |
| 7.5° | 808.9 | 780.9 | 716.6 | 654.0 | 593.2 | 552.9 | 512.9 | 485.9 | 460.1 | 441.5 | 444.2 |
| 10° | 734.8 | 694.9 | 624.3 | 544.9 | 481.9 | 439.7 | 403.8 | 372.3 | 345.7 | 319.5 | 315.5 |
| 12.5° | 686.4 | 640.7 | 556.4 | 471.2 | 424.2 | 393.1 | 359.9 | 325.2 | 292.4 | 263.6 | 252.0 |
| 15° | 666.0 | 616.3 | 522.2 | 441.9 | 398.9 | 359.0 | 320.4 | 277.8 | 240.0 | 205.4 | 196.1 |
| 17.5° | 688.2 | 628.7 | 519.1 | 422.4 | 362.5 | 312.4 | 258.7 | 212.1 | 167.7 | 142.9 | 135.3 |
| 20° | 748.5 | 671.3 | 529.3 | 402.9 | 322.1 | 257.4 | 191.7 | 138.9 | 114.0 | 98.9 | 94.1 |
| 22.5° | 836.0 | 741.9 | 546.7 | 383.8 | 281.3 | 191.7 | 132.2 | 100.3 | 85.6 | 77.6 | 75.4 |
| 25° | 930.9 | 832.8 | 578.6 | 367.8 | 240.5 | 142.4 | 98.1 | 82.1 | 73.2 | 67.4 | 65.2 |
| 27.5° | 1037.8 | 922.9 | 617.6 | 355.9 | 202.8 | 114.0 | 84.3 | 72.3 | 65.2 | 61.2 | 59.5 |
| 30° | 1104.8 | 987.7 | 647.4 | 334.6 | 177.0 | 103.8 | 80.3 | 68.3 | 60.8 | 57.7 | 56.4 |
| 32.5° | 1166.5 | 1038.7 | 675.8 | 310.2 | 157.5 | 91.8 | 78.1 | 71.9 | 63.0 | 56.8 | 54.1 |
| 35° | 1234.4 | 1091.1 | 689.5 | 295.5 | 144.7 | 79.9 | 64.3 | 55.9 | 51.0 | 50.1 | 48.8 |
| 37.5° | 1335.6 | 1153.2 | 698.4 | 287.5 | 136.7 | 72.8 | 59.9 | 50.6 | 44.8 | 39.5 | 37.3 |
| 40° | 1431.4 | 1217.5 | 702.8 | 280.0 | 132.7 | 68.3 | 57.2 | 47.9 | 41.7 | 36.8 | 34.6 |
| 42.5° | 1506.4 | 1276.1 | 705.5 | 274.7 | 125.6 | 65.7 | 55.0 | 46.1 | 39.5 | 34.6 | 32.4 |
| 45° | 1567.6 | 1344.0 | 703.3 | 272.9 | 119.8 | 67.4 | 54.1 | 44.8 | 37.7 | 32.8 | 30.6 |
| 47.5° | 1627.5 | 1417.7 | 711.7 | 270.7 | 114.0 | 64.8 | 54.6 | 44.4 | 36.4 | 31.5 | 29.3 |
| 50° | 1706.1 | 1506.8 | 742.3 | 264.5 | 110.0 | 60.8 | 59.0 | 44.8 | 35.9 | 30.6 | 28.8 |
| 52.5° | 1807.7 | 1630.2 | 797.8 | 257.8 | 105.2 | 57.2 | 61.7 | 44.8 | 35.1 | 29.7 | 27.5 |
| 55° | 1931.0 | 1768.6 | 859.0 | 248.0 | 96.7 | 52.8 | 59.0 | 44.8 | 34.2 | 29.3 | 26.6 |
| 57.5° | 2031.8 | 1892.0 | 907.4 | 236.5 | 81.2 | 47.5 | 54.1 | 43.0 | 31.9 | 27.5 | 25.3 |
| 58° | 2040.6 | 1906.2 | 914.0 | 233.4 | 79.4 | 46.6 | 52.8 | 42.6 | 31.1 | 27.1 | 24.8 |
| 60° | 2076.6 | 1929.3 | 916.7 | 216.5 | 66.1 | 44.4 | 45.7 | 41.3 | 29.3 | 25.3 | 23.5 |
| 62.5° | 2064.1 | 1852.9 | 860.4 | 186.8 | 59.0 | 40.4 | 38.2 | 42.2 | 27.1 | 23.1 | 21.3 |
| 65° | 2002.5 | 1703.0 | 753.9 | 167.3 | 59.5 | 35.9 | 32.8 | 36.8 | 24.8 | 20.9 | 19.1 |
| 67.5° | 1855.6 | 1475.3 | 612.3 | 156.6 | 62.1 | 31.9 | 28.4 | 27.5 | 22.2 | 18.6 | 17.3 |
| 70° | 1582.7 | 1209.1 | 464.1 | 147.3 | 65.7 | 28.4 | 26.2 | 24.4 | 20.4 | 17.3 | 15.5 |
| 72.5° | 1165.6 | 895.4 | 337.7 | 138.0 | 63.9 | 25.3 | 24.4 | 22.2 | 18.6 | 15.5 | 14.6 |
| 75° | 727.2 | 520.0 | 231.2 | 112.7 | 57.2 | 22.2 | 22.6 | 20.9 | 16.9 | 14.6 | 13.3 |
| 77.5° | 424.6 | 365.2 | 114.0 | 83.9 | 39.5 | 19.5 | 20.0 | 19.1 | 17.3 | 13.8 | 12.9 |
| 80° | 254.2 | 227.2 | 48.8 | 35.9 | 21.7 | 17.3 | 16.9 | 17.7 | 16.4 | 12.9 | 12.0 |
| 82.5° | 110.0 | 98.5 | 23.5 | 20.0 | 17.7 | 15.1 | 14.6 | 15.1 | 14.2 | 10.6 | 10.2 |
| 85° | 6.2 | 16.4 | 11.1 | 14.6 | 13.3 | 11.1 | 11.1 | 11.5 | 10.2 | 8.4 | 8.4 |
| 87.5° | 5.8 | 12.4 | 7.1 | 8.9 | 9.8 | 8.4 | 8.9 | 8.9 | 8.4 | 7.5 | 7.1 |
| 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: P401095

CATALOG NUMBER: ENV-SA1B-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 |
| 2.5° | 739.7 | 734.8 | 720.1 | 714.8 | 691.7 | 697.5 | 699.3 | 697.1 | 698.0 | 699.7 | 706.4 |
| 5° | 612.8 | 604.8 | 585.7 | 573.3 | 566.6 | 562.2 | 541.3 | 541.8 | 544.9 | 532.9 | 548.4 |
| 7.5° | 435.3 | 444.2 | 445.9 | 434.4 | 427.3 | 412.2 | 393.1 | 382.5 | 364.3 | 374.5 | 376.7 |
| 10° | 311.5 | 307.0 | 315.5 | 311.5 | 300.4 | 294.6 | 274.2 | 272.4 | 270.7 | 269.3 | 282.2 |
| 12.5° | 237.4 | 224.1 | 214.3 | 216.5 | 208.1 | 193.9 | 190.4 | 190.8 | 192.6 | 192.6 | 196.1 |
| 15° | 188.1 | 167.7 | 152.2 | 142.9 | 144.2 | 130.0 | 126.0 | 112.7 | 110.9 | 106.9 | 107.8 |
| 17.5° | 131.8 | 123.4 | 114.0 | 103.4 | 98.9 | 86.1 | 70.6 | 63.5 | 58.1 | 59.0 | 61.7 |
| 20° | 91.0 | 87.4 | 84.7 | 79.4 | 75.0 | 59.9 | 50.1 | 47.0 | 46.6 | 47.5 | 48.4 |
| 22.5° | 73.2 | 69.7 | 67.0 | 65.2 | 59.5 | 48.4 | 43.0 | 40.8 | 40.8 | 40.8 | 41.3 |
| 25° | 63.0 | 59.5 | 55.9 | 55.9 | 50.6 | 42.2 | 38.2 | 36.4 | 35.9 | 35.5 | 36.4 |
| 27.5° | 58.6 | 53.7 | 50.1 | 47.9 | 43.9 | 37.3 | 33.7 | 31.9 | 31.5 | 31.5 | 31.9 |
| 30° | 54.1 | 49.3 | 45.7 | 42.6 | 38.2 | 33.3 | 29.7 | 28.4 | 27.5 | 27.5 | 28.0 |
| 32.5° | 51.5 | 46.6 | 42.2 | 38.2 | 33.3 | 29.3 | 26.2 | 24.4 | 23.5 | 24.0 | 24.4 |
| 35° | 45.7 | 41.7 | 37.7 | 33.7 | 29.3 | 25.7 | 22.6 | 20.9 | 20.4 | 20.4 | 20.9 |
| 37.5° | 35.9 | 32.8 | 31.9 | 29.7 | 25.7 | 22.2 | 19.1 | 17.3 | 16.9 | 16.9 | 17.3 |
| 40° | 32.4 | 28.4 | 26.6 | 25.7 | 23.5 | 19.1 | 15.5 | 13.8 | 13.8 | 13.3 | 14.2 |
| 42.5° | 29.7 | 25.7 | 22.6 | 21.7 | 20.4 | 16.4 | 12.4 | 11.1 | 10.6 | 10.6 | 11.1 |
| 45° | 28.0 | 23.5 | 19.5 | 17.3 | 17.3 | 13.3 | 10.2 | 8.4 | 8.0 | 8.0 | 8.4 |
| 47.5° | 27.1 | 22.2 | 17.3 | 14.2 | 13.8 | 11.1 | 8.0 | 6.2 | 5.8 | 5.8 | 5.8 |
| 50° | 26.2 | 20.4 | 15.5 | 12.0 | 10.6 | 9.3 | 6.2 | 4.9 | 4.4 | 4.4 | 4.4 |
| 52.5° | 24.8 | 19.5 | 14.2 | 10.6 | 8.4 | 7.1 | 4.9 | 3.5 | 3.1 | 2.7 | 3.1 |
| 55° | 24.0 | 18.2 | 13.8 | 9.8 | 7.1 | 5.3 | 3.5 | 2.7 | 2.2 | 2.2 | 2.2 |
| 57.5° | 22.6 | 16.9 | 12.4 | 9.3 | 6.7 | 4.0 | 2.7 | 1.8 | 1.3 | 1.3 | 1.8 |
| 58° | 22.2 | 16.9 | 12.0 | 8.9 | 6.2 | 4.0 | 2.7 | 1.8 | 1.3 | 1.3 | 1.8 |
| 60° | 20.9 | 15.5 | 11.5 | 8.0 | 5.8 | 3.5 | 2.2 | 1.3 | 0.9 | 0.9 | 1.3 |
| 62.5° | 19.5 | 14.2 | 10.2 | 7.1 | 4.9 | 3.1 | 1.8 | 0.9 | 0.4 | 0.4 | 0.4 |
| 65° | 17.3 | 12.9 | 8.9 | 6.7 | 4.0 | 2.2 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 |
| 67.5° | 15.5 | 12.0 | 8.0 | 5.8 | 3.5 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 14.2 | 11.1 | 7.1 | 4.9 | 3.1 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 13.3 | 10.2 | 6.7 | 4.4 | 2.2 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 12.9 | 9.8 | 6.7 | 4.0 | 2.2 | 1.3 | 0.9 | 0.4 | 0.0 | 0.0 | 0.4 |
| 77.5° | 12.4 | 9.8 | 6.7 | 4.0 | 2.7 | 1.3 | 1.3 | 0.9 | 0.9 | 0.4 | 1.3 |
| 80° | 11.5 | 8.9 | 5.8 | 3.5 | 2.2 | 1.8 | 1.3 | 0.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 9.8 | 7.1 | 4.9 | 3.5 | 2.2 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.0 | 5.8 | 4.0 | 2.2 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.1 | 4.4 | 3.1 | 1.8 | 0.9 | 0.4 | 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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|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 | 828.9 |
| 2.5° | 712.2 | 732.6 | 741.0 | 769.4 | 781.8 | 807.6 | 829.7 | 848.8 | 858.1 | 865.7 |
| 5° | 552.4 | 571.9 | 592.8 | 635.0 | 671.3 | 710.4 | 759.2 | 809.8 | 824.4 | 840.4 |
| 7.5° | 385.6 | 414.4 | 449.5 | 487.2 | 539.1 | 598.1 | 668.2 | 730.8 | 762.3 | 770.3 |
| 10° | 299.5 | 333.7 | 370.9 | 408.2 | 451.3 | 514.3 | 584.8 | 665.6 | 699.3 | 713.0 |
| 12.5° | 225.0 | 270.7 | 315.0 | 359.0 | 396.2 | 450.8 | 527.6 | 623.9 | 661.1 | 678.9 |
| 15° | 135.3 | 186.8 | 241.4 | 300.4 | 352.3 | 416.2 | 502.7 | 615.0 | 662.0 | 682.0 |
| 17.5° | 67.4 | 92.3 | 142.4 | 231.2 | 307.9 | 387.4 | 502.3 | 646.9 | 705.1 | 730.8 |
| 20° | 50.1 | 56.8 | 75.9 | 144.2 | 256.0 | 363.4 | 507.6 | 701.5 | 787.1 | 808.9 |
| 22.5° | 43.0 | 47.9 | 54.6 | 84.3 | 191.7 | 341.2 | 526.2 | 773.8 | 880.3 | 909.2 |
| 25° | 37.7 | 41.7 | 47.0 | 58.1 | 131.3 | 315.0 | 561.3 | 875.9 | 985.9 | 1025.4 |
| 27.5° | 33.3 | 36.8 | 41.3 | 48.8 | 87.9 | 265.8 | 581.3 | 961.5 | 1071.1 | 1104.0 |
| 30° | 29.3 | 31.9 | 36.4 | 41.7 | 64.8 | 205.4 | 599.9 | 1037.0 | 1148.3 | 1174.1 |
| 32.5° | 25.7 | 28.0 | 31.5 | 35.5 | 49.3 | 155.7 | 600.8 | 1101.7 | 1215.8 | 1240.2 |
| 35° | 21.7 | 24.4 | 27.1 | 30.6 | 39.0 | 121.6 | 582.6 | 1166.1 | 1295.6 | 1325.4 |
| 37.5° | 18.2 | 20.4 | 23.5 | 26.6 | 35.5 | 94.1 | 544.9 | 1241.5 | 1392.8 | 1426.5 |
| 40° | 15.5 | 17.7 | 20.4 | 24.0 | 31.5 | 68.3 | 484.5 | 1309.8 | 1483.8 | 1514.8 |
| 42.5° | 12.4 | 14.6 | 17.7 | 23.5 | 26.2 | 49.3 | 423.7 | 1375.5 | 1562.8 | 1591.6 |
| 45° | 9.8 | 12.4 | 16.4 | 22.6 | 21.7 | 34.6 | 371.4 | 1433.6 | 1630.6 | 1669.2 |
| 47.5° | 7.1 | 10.2 | 16.4 | 20.4 | 17.7 | 24.8 | 344.8 | 1489.5 | 1691.4 | 1717.6 |
| 50° | 5.3 | 8.4 | 17.7 | 17.3 | 15.1 | 21.3 | 348.8 | 1551.7 | 1719.4 | 1736.2 |
| 52.5° | 4.0 | 7.1 | 13.8 | 12.4 | 12.9 | 18.6 | 364.3 | 1633.7 | 1777.1 | 1789.0 |
| 55° | 3.5 | 5.3 | 8.4 | 9.3 | 11.5 | 17.7 | 360.3 | 1711.4 | 1850.7 | 1871.6 |
| 57.5° | 3.1 | 4.4 | 6.7 | 7.5 | 10.2 | 16.9 | 337.7 | 1745.6 | 1898.2 | 1927.0 |
| 58° | 2.7 | 4.4 | 6.2 | 7.5 | 10.2 | 16.4 | 331.9 | 1736.2 | 1896.0 | 1932.4 |
| 60° | 2.2 | 4.0 | 5.8 | 6.7 | 8.9 | 14.6 | 303.9 | 1657.3 | 1847.2 | 1898.2 |
| 62.5° | 1.8 | 2.7 | 4.4 | 4.9 | 7.1 | 12.0 | 250.3 | 1529.5 | 1742.5 | 1805.5 |
| 65° | 0.9 | 1.8 | 2.7 | 3.5 | 4.9 | 8.9 | 177.9 | 1378.2 | 1630.2 | 1691.9 |
| 67.5° | 0.0 | 0.9 | 1.8 | 2.2 | 3.1 | 6.7 | 102.5 | 1169.6 | 1445.6 | 1494.4 |
| 70° | 0.0 | 0.4 | 0.9 | 1.3 | 1.8 | 4.4 | 54.1 | 858.6 | 1119.9 | 1207.8 |
| 72.5° | 0.4 | 0.4 | 0.4 | 0.0 | 0.9 | 3.5 | 24.0 | 509.4 | 763.6 | 854.1 |
| 75° | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 1.8 | 10.2 | 268.4 | 437.9 | 481.0 |
| 77.5° | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.4 | 4.9 | 144.7 | 227.2 | 241.4 |
| 80° | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 48.4 | 136.2 | 139.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 58.6 | 55.9 |
| 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)