

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: P553744

Luminaire Tested: **LXS-VA2-830-U-ASC-C**

Issue Date: 7/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-687-8-R2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: LXS-VA2-830-U-ASC-C  
Description: LUXESCAPE OUTDOOR ARCHITECTURAL LUMINAIRE  
80 CRI, 3000K LEDS AND TYPE II OPTIC, CANTILEVER MOUNT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3216 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Luminous Opening: Circular (Dia: 1.62' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 48  
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

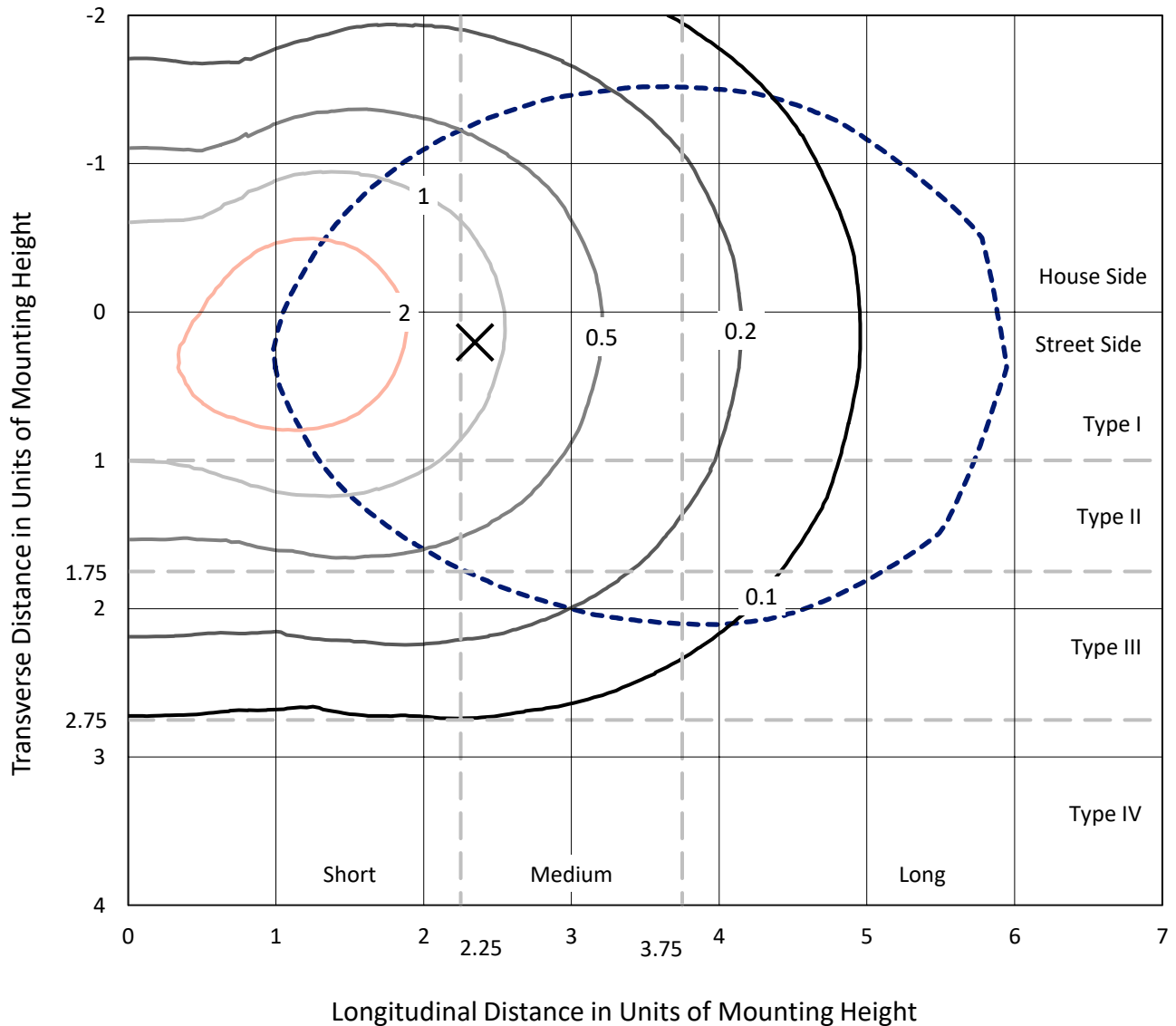


REPORT NUMBER: P553744

CATALOG NUMBER: LXS-VA2-830-U-ASC-C

### Iso-Footcandle Lines of Horizontal Illumination

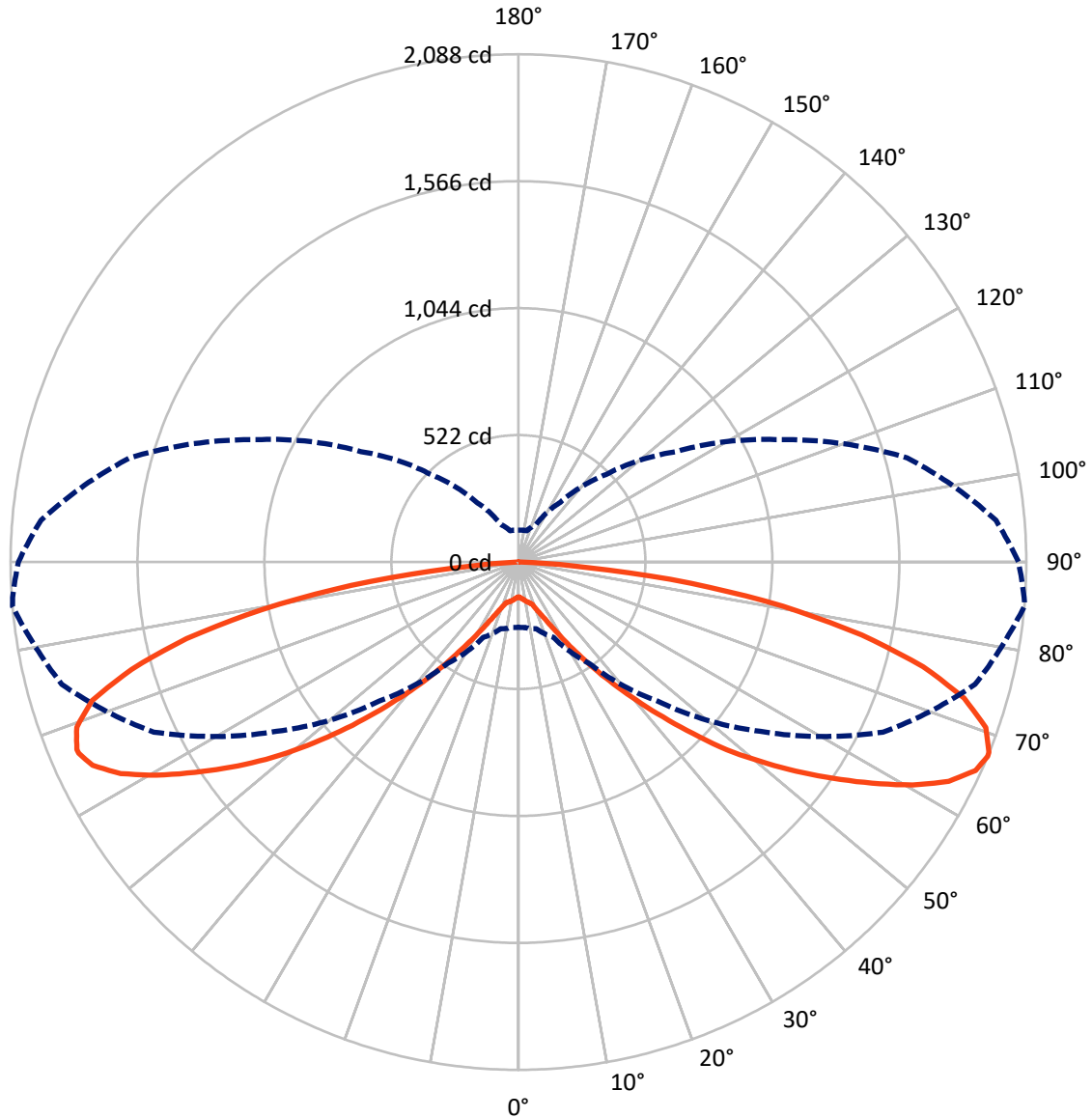
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P553744  
CATALOG NUMBER: LXS-VA2-830-U-ASC-C

### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P553744

CATALOG NUMBER: LXS-VA2-830-U-ASC-C

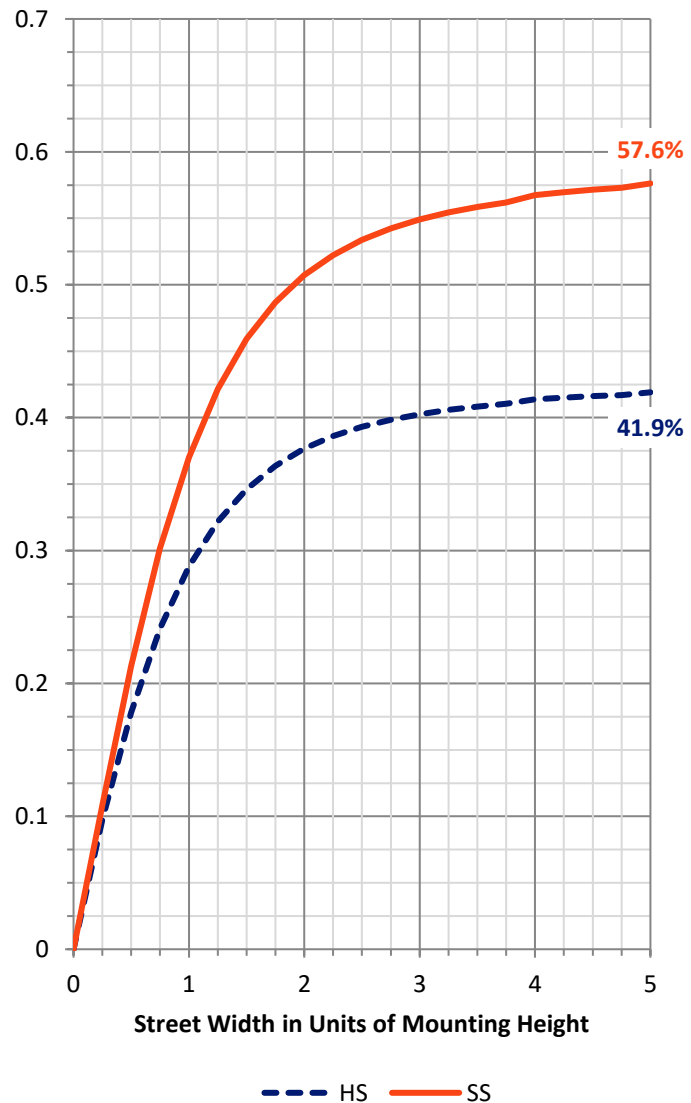
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1354.0   | 0.0    | 1354.0 |
|                    | % Fixture | 42.1     | 0.0    | 42.1   |
| <b>Street Side</b> | Lumens    | 1862.0   | 0.0    | 1862.0 |
|                    | % Fixture | 57.9     | 0.0    | 57.9   |
| <b>Total</b>       | Lumens    | 3216.0   | 0.0    | 3216.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.5   | 0.5       |
| 10°-20°   | 48.1   | 1.5       |
| 20°-30°   | 104.3  | 3.2       |
| 30°-40°   | 216.2  | 6.7       |
| 40°-50°   | 403.2  | 12.5      |
| 50°-60°   | 654.6  | 20.4      |
| 60°-70°   | 865.0  | 26.9      |
| 70°-80°   | 734.0  | 22.8      |
| 80°-90°   | 176.1  | 5.5       |
| 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°    | 3216.0 | 100.0     |
| 0°-180°   | 3216.0 | 100.0     |



REPORT NUMBER: P553744

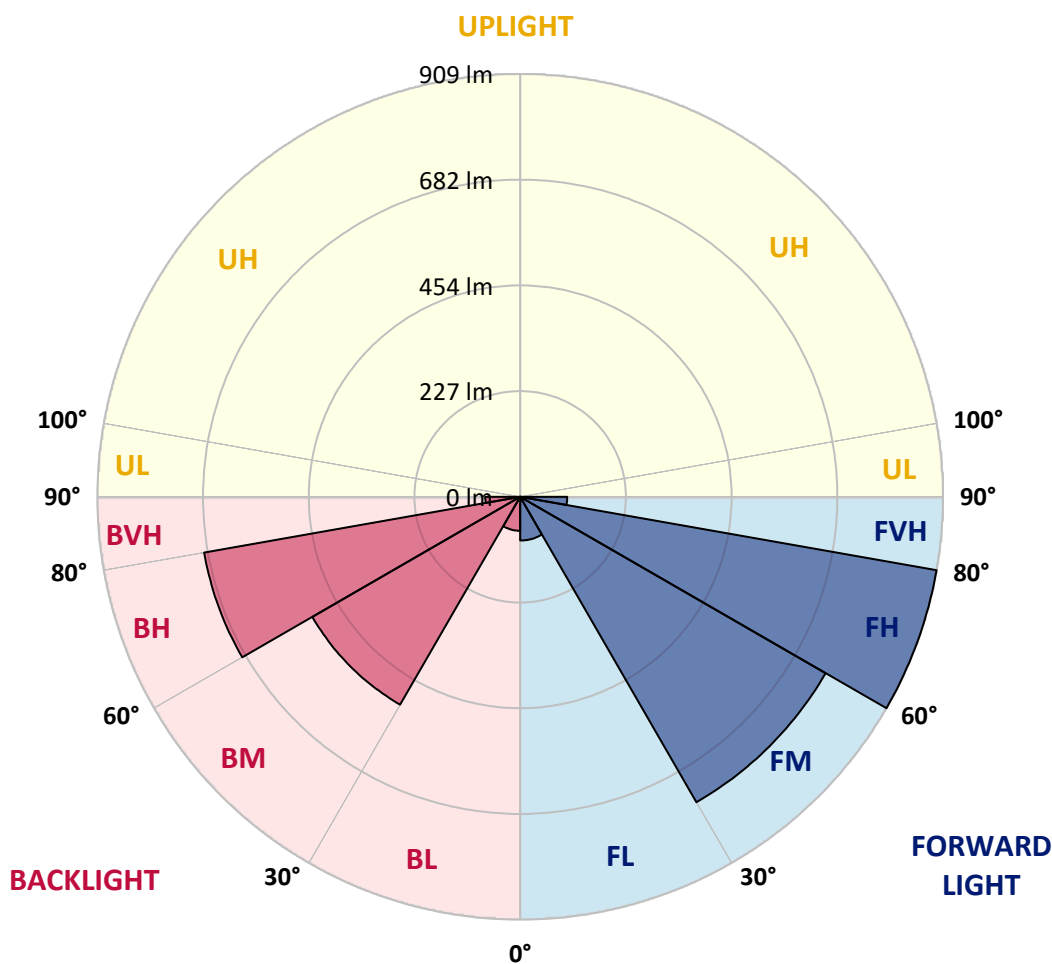
CATALOG NUMBER: LXS-VA2-830-U-ASC-C

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 93.9   | 2.9       |                         |      |         |
| FM (30°-60°)   | 758.1  | 23.6      |                         |      |         |
| FH (60°-80°)   | 909.0  | 28.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 101.0  | 3.1       |                         |      | G2/225  |
| BL (0°-30°)    | 73.0   | 2.3       | B0/110                  |      |         |
| BM (30°-60°)   | 515.9  | 16.0      | B1/1000                 |      |         |
| BH (60°-80°)   | 690.0  | 21.5      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 75.1   | 2.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Medium





REPORT NUMBER: P553744  
 CATALOG NUMBER: LXS-VA2-830-U-ASC-C

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°    | 65°    | 75°    | 85°    | 86°    |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0°    | 143.0 | 143.0 | 143.0 | 143.0 | 143.0 | 143.0 | 143.0  | 143.0  | 143.0  | 143.0  | 143.0  |
| 2.5°  | 146.2 | 147.8 | 147.8 | 147.8 | 147.8 | 147.8 | 146.2  | 146.2  | 146.2  | 146.2  | 146.2  |
| 5°    | 152.6 | 152.6 | 152.6 | 152.6 | 152.6 | 152.6 | 152.6  | 151.0  | 151.0  | 151.0  | 151.0  |
| 7.5°  | 155.8 | 155.8 | 155.8 | 157.4 | 159.0 | 159.0 | 159.0  | 157.4  | 155.8  | 155.8  | 155.8  |
| 10°   | 157.4 | 157.4 | 159.0 | 160.6 | 163.8 | 165.4 | 165.4  | 165.4  | 162.2  | 162.2  | 162.2  |
| 12.5° | 163.8 | 163.8 | 163.8 | 167.1 | 170.3 | 173.5 | 175.1  | 175.1  | 170.3  | 168.7  | 168.7  |
| 15°   | 170.3 | 170.3 | 171.9 | 175.1 | 179.9 | 183.1 | 183.1  | 184.7  | 179.9  | 175.1  | 173.5  |
| 17.5° | 179.9 | 179.9 | 181.5 | 186.3 | 192.8 | 194.4 | 194.4  | 194.4  | 189.5  | 181.5  | 181.5  |
| 20°   | 194.4 | 194.4 | 197.6 | 202.4 | 208.8 | 213.6 | 218.5  | 216.8  | 213.6  | 204.0  | 202.4  |
| 22.5° | 202.4 | 204.0 | 208.8 | 216.8 | 228.1 | 236.1 | 247.4  | 247.4  | 245.8  | 231.3  | 231.3  |
| 25°   | 210.4 | 210.4 | 215.2 | 228.1 | 247.4 | 263.4 | 284.3  | 289.1  | 284.3  | 266.6  | 265.0  |
| 27.5° | 221.7 | 221.7 | 228.1 | 240.9 | 265.0 | 295.6 | 324.5  | 343.7  | 338.9  | 311.6  | 308.4  |
| 30°   | 234.5 | 234.5 | 242.5 | 260.2 | 285.9 | 329.3 | 374.3  | 411.2  | 409.6  | 375.9  | 374.3  |
| 32.5° | 249.0 | 249.0 | 257.0 | 276.3 | 313.2 | 361.4 | 428.9  | 478.7  | 486.7  | 451.4  | 451.4  |
| 35°   | 268.2 | 269.9 | 277.9 | 295.6 | 340.5 | 403.2 | 486.7  | 551.0  | 570.2  | 538.1  | 534.9  |
| 37.5° | 274.7 | 276.3 | 289.1 | 318.0 | 366.2 | 454.6 | 546.1  | 632.9  | 668.2  | 636.1  | 629.7  |
| 40°   | 279.5 | 281.1 | 293.9 | 329.3 | 393.5 | 496.3 | 608.8  | 724.4  | 777.4  | 746.9  | 738.9  |
| 42.5° | 284.3 | 285.9 | 298.8 | 335.7 | 417.6 | 533.3 | 673.0  | 822.4  | 897.9  | 870.6  | 862.6  |
| 45°   | 284.3 | 285.9 | 302.0 | 342.1 | 436.9 | 568.6 | 742.1  | 918.8  | 1021.6 | 1005.5 | 999.1  |
| 47.5° | 284.3 | 285.9 | 303.6 | 351.8 | 449.8 | 610.4 | 811.2  | 1015.2 | 1140.5 | 1153.3 | 1138.9 |
| 50°   | 292.3 | 295.6 | 311.6 | 358.2 | 473.9 | 655.4 | 878.6  | 1113.2 | 1260.9 | 1288.2 | 1278.6 |
| 52.5° | 293.9 | 295.6 | 314.8 | 366.2 | 496.3 | 697.1 | 947.7  | 1212.7 | 1387.8 | 1428.0 | 1415.1 |
| 55°   | 305.2 | 305.2 | 321.3 | 377.5 | 514.0 | 738.9 | 1021.6 | 1313.9 | 1527.6 | 1569.3 | 1561.3 |
| 57.5° | 306.8 | 310.0 | 324.5 | 382.3 | 531.7 | 783.9 | 1101.9 | 1418.3 | 1657.7 | 1715.5 | 1704.3 |
| 60°   | 302.0 | 303.6 | 321.3 | 379.1 | 541.3 | 816.0 | 1167.8 | 1521.1 | 1771.7 | 1861.7 | 1850.4 |
| 62.5° | 292.3 | 293.9 | 311.6 | 372.7 | 539.7 | 828.8 | 1211.1 | 1601.5 | 1861.7 | 1985.4 | 1974.1 |
| 65°   | 281.1 | 282.7 | 298.8 | 358.2 | 526.9 | 824.0 | 1224.0 | 1648.0 | 1925.9 | 2065.7 | 2060.9 |
| 67°   | 268.2 | 269.9 | 284.3 | 342.1 | 509.2 | 808.0 | 1214.3 | 1654.5 | 1943.6 | 2088.2 | 2085.0 |
| 67.5° | 263.4 | 266.6 | 281.1 | 337.3 | 504.4 | 801.5 | 1207.9 | 1651.3 | 1943.6 | 2086.6 | 2085.0 |
| 70°   | 242.5 | 244.2 | 258.6 | 310.0 | 472.2 | 761.4 | 1161.3 | 1599.9 | 1906.7 | 2038.4 | 2041.6 |
| 72.5° | 216.8 | 218.5 | 229.7 | 277.9 | 430.5 | 700.3 | 1082.6 | 1498.7 | 1795.8 | 1916.3 | 1924.3 |
| 75°   | 187.9 | 189.5 | 199.2 | 242.5 | 371.1 | 616.8 | 967.0  | 1339.6 | 1619.1 | 1718.7 | 1717.1 |
| 77.5° | 155.8 | 155.8 | 163.8 | 197.6 | 306.8 | 512.4 | 814.4  | 1129.2 | 1363.7 | 1442.4 | 1442.4 |
| 80°   | 118.9 | 120.5 | 126.9 | 147.8 | 231.3 | 385.5 | 628.1  | 878.6  | 1047.3 | 1101.9 | 1114.8 |
| 82.5° | 78.7  | 80.3  | 85.1  | 94.8  | 149.4 | 250.6 | 411.2  | 581.5  | 687.5  | 714.8  | 724.4  |
| 85°   | 38.6  | 35.3  | 38.6  | 43.4  | 64.3  | 101.2 | 170.3  | 229.7  | 285.9  | 282.7  | 298.8  |
| 87.5° | 6.4   | 6.4   | 6.4   | 6.4   | 6.4   | 4.8   | 4.8    | 4.8    | 4.8    | 3.2    | 3.2    |
| 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: P553744  
 CATALOG NUMBER: LXS-VA2-830-U-ASC-C

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 143.0  | 143.0  | 143.0  | 143.0  | 143.0 | 143.0 | 143.0 | 143.0 | 143.0 | 143.0 | 143.0 |
| 2.5°  | 146.2  | 146.2  | 146.2  | 146.2  | 146.2 | 146.2 | 146.2 | 144.6 | 144.6 | 144.6 | 144.6 |
| 5°    | 151.0  | 149.4  | 149.4  | 149.4  | 147.8 | 146.2 | 146.2 | 144.6 | 144.6 | 144.6 | 143.0 |
| 7.5°  | 155.8  | 155.8  | 154.2  | 151.0  | 149.4 | 147.8 | 147.8 | 146.2 | 146.2 | 146.2 | 146.2 |
| 10°   | 160.6  | 160.6  | 157.4  | 155.8  | 152.6 | 151.0 | 151.0 | 149.4 | 147.8 | 146.2 | 146.2 |
| 12.5° | 167.1  | 165.4  | 160.6  | 157.4  | 155.8 | 155.8 | 152.6 | 149.4 | 147.8 | 146.2 | 146.2 |
| 15°   | 171.9  | 170.3  | 162.2  | 157.4  | 155.8 | 154.2 | 152.6 | 149.4 | 147.8 | 147.8 | 147.8 |
| 17.5° | 178.3  | 175.1  | 163.8  | 159.0  | 155.8 | 154.2 | 154.2 | 152.6 | 151.0 | 149.4 | 149.4 |
| 20°   | 197.6  | 192.8  | 178.3  | 168.7  | 162.2 | 160.6 | 160.6 | 155.8 | 151.0 | 151.0 | 151.0 |
| 22.5° | 223.3  | 215.2  | 194.4  | 179.9  | 170.3 | 168.7 | 163.8 | 157.4 | 154.2 | 152.6 | 152.6 |
| 25°   | 258.6  | 245.8  | 220.1  | 196.0  | 181.5 | 175.1 | 168.7 | 162.2 | 157.4 | 155.8 | 155.8 |
| 27.5° | 297.2  | 284.3  | 252.2  | 220.1  | 197.6 | 183.1 | 175.1 | 167.1 | 159.0 | 155.8 | 155.8 |
| 30°   | 355.0  | 335.7  | 290.7  | 249.0  | 213.6 | 192.8 | 181.5 | 170.3 | 162.2 | 159.0 | 159.0 |
| 32.5° | 425.7  | 398.4  | 334.1  | 282.7  | 236.1 | 204.0 | 186.3 | 175.1 | 165.4 | 162.2 | 160.6 |
| 35°   | 507.6  | 473.9  | 391.9  | 316.4  | 257.0 | 216.8 | 191.1 | 178.3 | 165.4 | 160.6 | 160.6 |
| 37.5° | 605.6  | 567.0  | 464.2  | 363.0  | 285.9 | 229.7 | 197.6 | 179.9 | 167.1 | 163.8 | 163.8 |
| 40°   | 710.0  | 668.2  | 546.1  | 425.7  | 319.7 | 245.8 | 204.0 | 183.1 | 170.3 | 165.4 | 165.4 |
| 42.5° | 830.4  | 779.0  | 642.5  | 494.7  | 361.4 | 271.5 | 213.6 | 186.3 | 170.3 | 165.4 | 163.8 |
| 45°   | 962.2  | 904.3  | 738.9  | 567.0  | 414.4 | 298.8 | 226.5 | 186.3 | 171.9 | 167.1 | 165.4 |
| 47.5° | 1101.9 | 1037.7 | 844.9  | 647.3  | 464.2 | 322.9 | 237.7 | 186.3 | 173.5 | 167.1 | 165.4 |
| 50°   | 1246.5 | 1177.4 | 957.3  | 729.3  | 520.4 | 351.8 | 247.4 | 187.9 | 171.9 | 165.4 | 163.8 |
| 52.5° | 1392.6 | 1317.2 | 1082.6 | 817.6  | 575.0 | 387.1 | 258.6 | 189.5 | 170.3 | 165.4 | 163.8 |
| 55°   | 1538.8 | 1452.1 | 1209.5 | 904.3  | 632.9 | 425.7 | 273.1 | 189.5 | 170.3 | 163.8 | 162.2 |
| 57.5° | 1675.4 | 1587.0 | 1339.6 | 987.9  | 685.9 | 456.2 | 282.7 | 191.1 | 165.4 | 159.0 | 157.4 |
| 60°   | 1821.5 | 1726.8 | 1455.3 | 1068.2 | 730.9 | 481.9 | 290.7 | 189.5 | 157.4 | 155.8 | 154.2 |
| 62.5° | 1938.8 | 1852.0 | 1550.1 | 1130.8 | 763.0 | 499.6 | 298.8 | 184.7 | 151.0 | 149.4 | 149.4 |
| 65°   | 2025.5 | 1940.4 | 1624.0 | 1175.8 | 787.1 | 510.8 | 302.0 | 176.7 | 141.4 | 139.7 | 139.7 |
| 67°   | 2056.0 | 1970.9 | 1654.5 | 1190.3 | 791.9 | 509.2 | 300.4 | 170.3 | 133.3 | 131.7 | 131.7 |
| 67.5° | 2057.6 | 1972.5 | 1657.7 | 1190.3 | 791.9 | 507.6 | 298.8 | 170.3 | 131.7 | 130.1 | 130.1 |
| 70°   | 2022.3 | 1938.8 | 1638.4 | 1169.4 | 772.6 | 488.3 | 284.3 | 159.0 | 118.9 | 117.3 | 118.9 |
| 72.5° | 1909.9 | 1844.0 | 1550.1 | 1113.2 | 722.8 | 451.4 | 263.4 | 144.6 | 106.0 | 104.4 | 104.4 |
| 75°   | 1710.7 | 1651.3 | 1394.3 | 997.5  | 645.7 | 395.1 | 232.9 | 130.1 | 93.2  | 88.3  | 90.0  |
| 77.5° | 1436.0 | 1400.7 | 1169.4 | 846.5  | 536.5 | 327.7 | 194.4 | 109.2 | 75.5  | 70.7  | 72.3  |
| 80°   | 1093.9 | 1071.4 | 881.8  | 650.5  | 400.0 | 244.2 | 147.8 | 86.7  | 56.2  | 51.4  | 54.6  |
| 82.5° | 703.6  | 695.5  | 576.7  | 414.4  | 242.5 | 147.8 | 93.2  | 56.2  | 36.9  | 32.1  | 35.3  |
| 85°   | 276.3  | 281.1  | 212.0  | 144.6  | 85.1  | 43.4  | 32.1  | 24.1  | 17.7  | 12.9  | 12.9  |
| 87.5° | 1.6    | 1.6    | 3.2    | 3.2    | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   |
| 90°   | 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)