

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: LUMARK

Report Number: P163850

Luminaire Tested: **LDRC-SL4-F01-E-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163850  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRC-SL4-F01-E-8030-HSS  
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (7) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1375.2 lumens  
Efficiency: N/A  
Efficacy: 53.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 25.9  
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

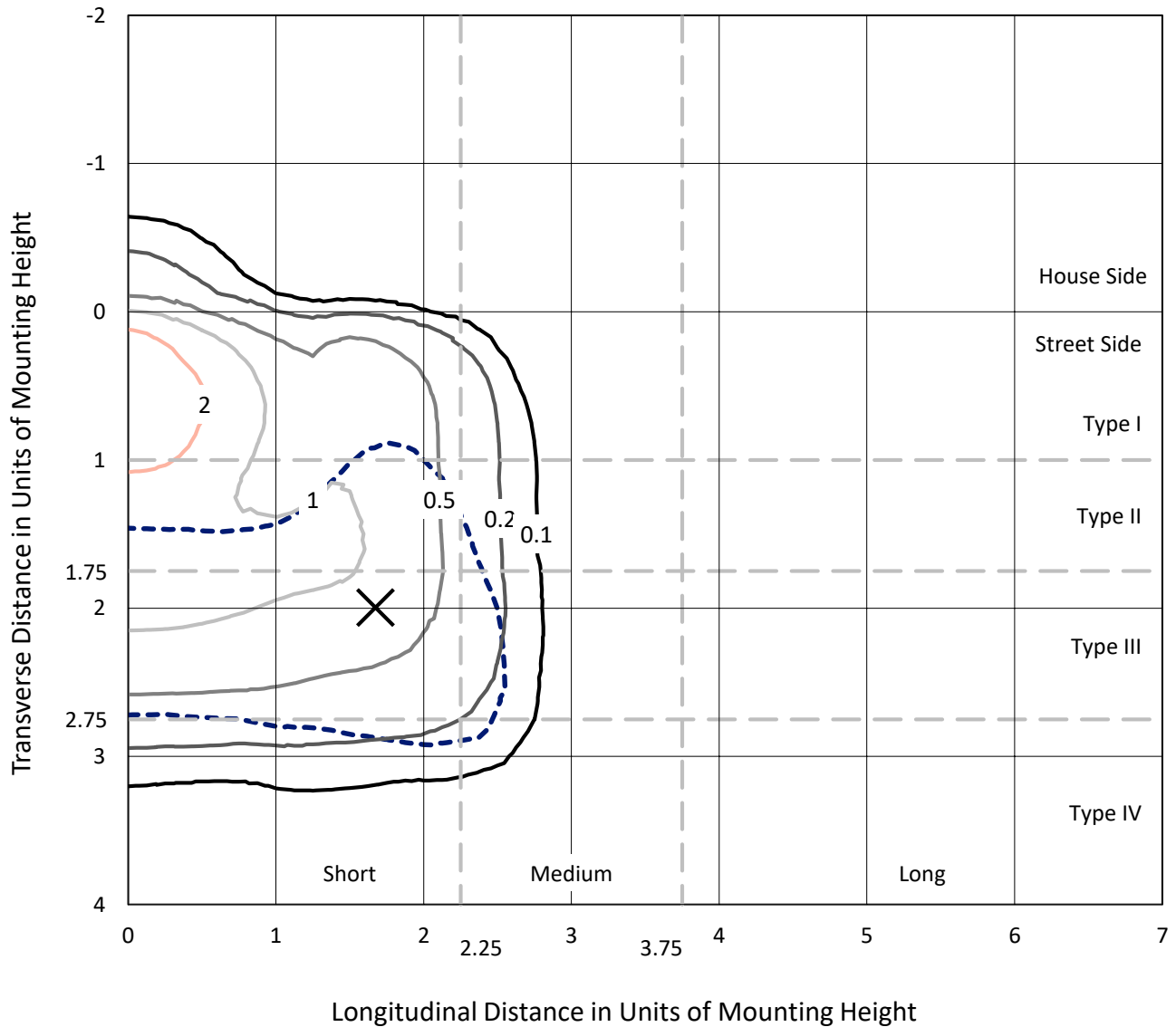


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### Iso-Footcandle Lines of Horizontal Illumination

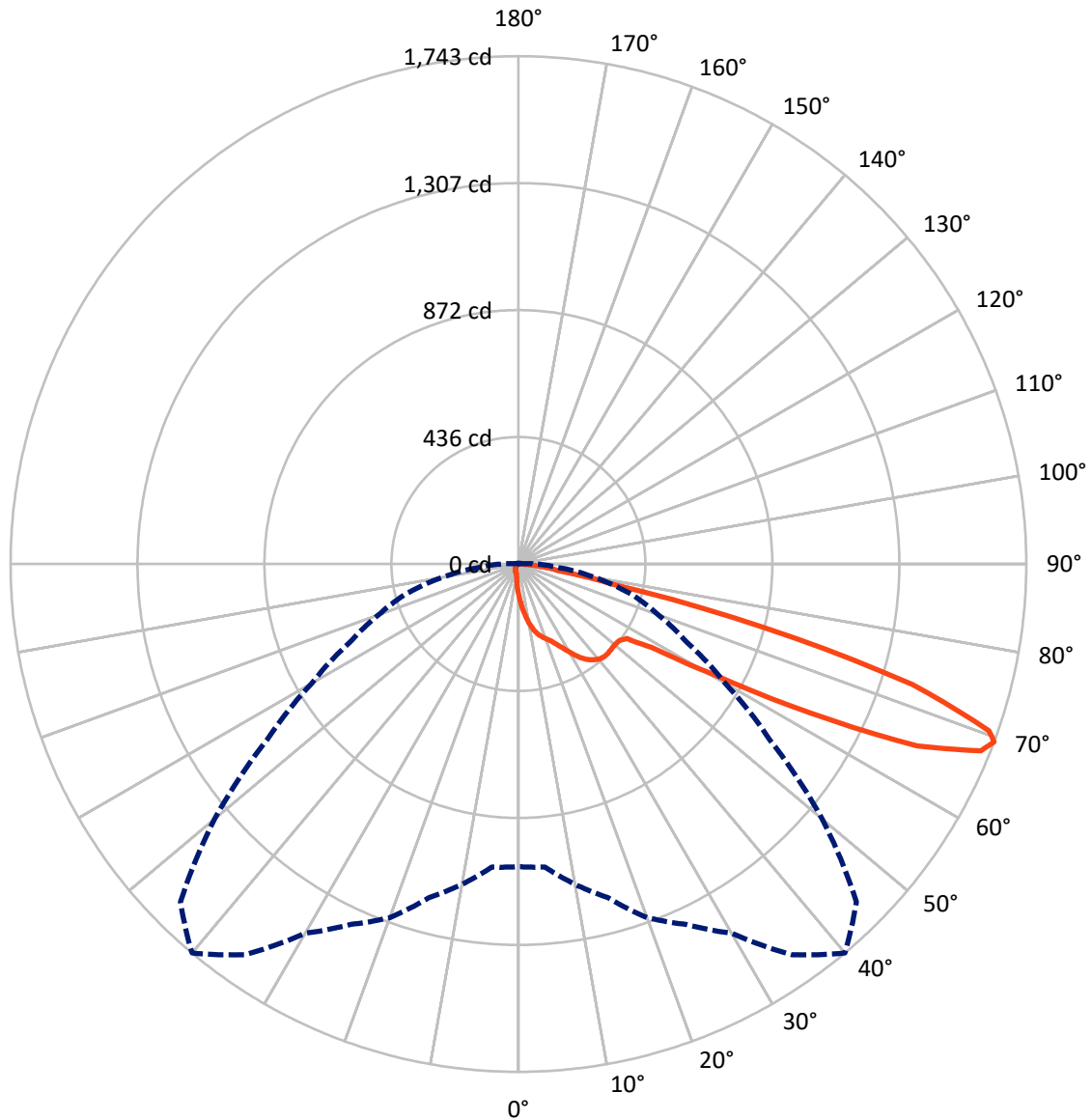
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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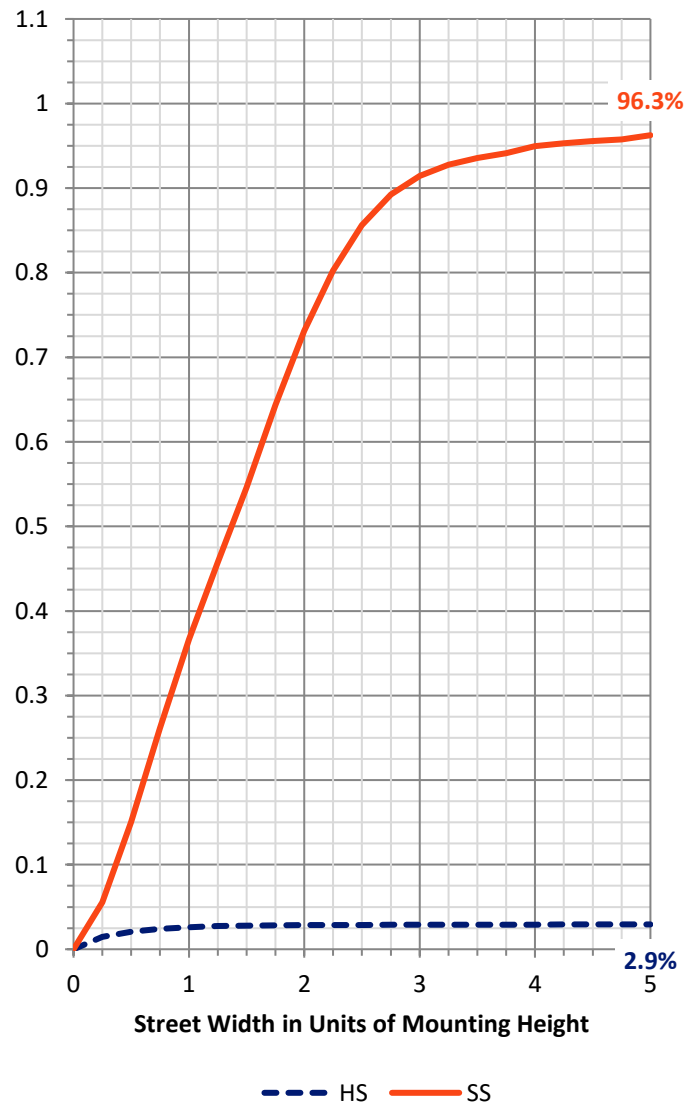
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 41.0     | 0.0    | 41.0   |
|                    | % Fixture | 3.0      | 0.0    | 3.0    |
| <b>Street Side</b> | Lumens    | 1334.2   | 0.0    | 1334.2 |
|                    | % Fixture | 97.0     | 0.0    | 97.0   |
| <b>Total</b>       | Lumens    | 1375.2   | 0.0    | 1375.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.7   | 0.8       |
| 10°-20°   | 36.8   | 2.7       |
| 20°-30°   | 70.4   | 5.1       |
| 30°-40°   | 117.1  | 8.5       |
| 40°-50°   | 158.5  | 11.5      |
| 50°-60°   | 247.9  | 18.0      |
| 60°-70°   | 509.7  | 37.1      |
| 70°-80°   | 205.1  | 14.9      |
| 80°-90°   | 19.0   | 1.4       |
| 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°    | 1375.2 | 100.0     |
| 0°-180°   | 1375.2 | 100.0     |



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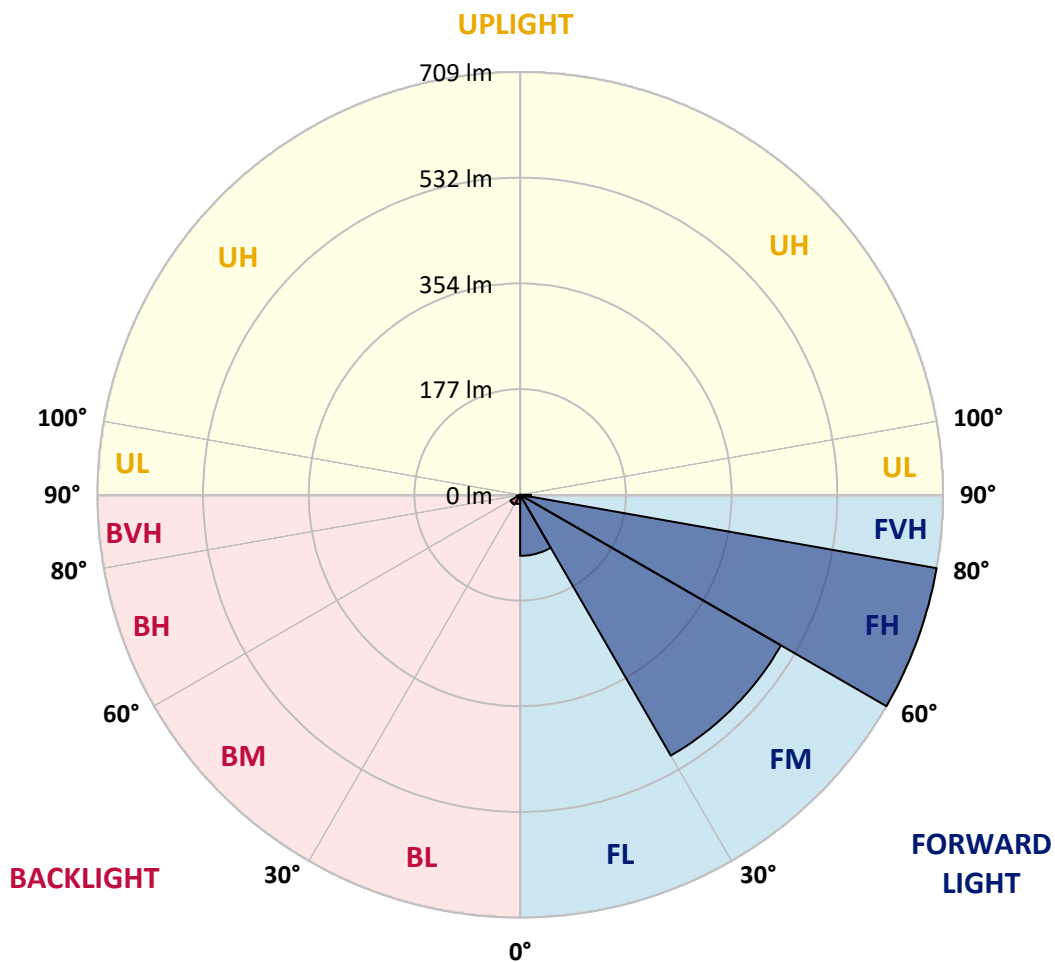
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 102.3  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 504.8  | 36.7      |                         |      |         |
| FH   | (60°-80°)   | 708.8  | 51.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 18.3   | 1.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 15.6   | 1.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 18.7   | 1.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 6.0    | 0.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.7    | 0.1       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 103.9  | 103.9  | 103.9  | 103.9  | 103.9  | 103.9  | 103.9  | 103.9  | 103.9  | 103.9  | 103.9  |
| 2.5°  | 138.5  | 137.0  | 135.2  | 135.2  | 132.9  | 132.9  | 131.6  | 128.0  | 127.5  | 125.5  | 123.4  |
| 5°    | 176.8  | 175.5  | 173.2  | 171.2  | 169.4  | 166.3  | 164.0  | 159.7  | 155.0  | 150.5  | 146.4  |
| 7.5°  | 214.2  | 213.6  | 209.5  | 208.8  | 205.9  | 200.7  | 196.2  | 189.9  | 181.8  | 175.5  | 168.1  |
| 10°   | 248.9  | 247.4  | 246.4  | 242.6  | 238.3  | 232.7  | 225.7  | 218.1  | 208.6  | 198.7  | 188.1  |
| 12.5° | 276.4  | 275.5  | 271.5  | 269.9  | 265.4  | 259.7  | 251.0  | 241.0  | 231.6  | 218.7  | 206.4  |
| 15°   | 296.9  | 295.3  | 292.6  | 290.1  | 284.7  | 279.8  | 271.7  | 260.9  | 249.4  | 235.4  | 220.5  |
| 17.5° | 314.0  | 311.1  | 310.4  | 306.6  | 301.0  | 295.1  | 286.1  | 276.2  | 262.7  | 248.7  | 232.5  |
| 20°   | 337.0  | 333.0  | 331.6  | 326.0  | 319.4  | 311.3  | 301.0  | 288.6  | 274.4  | 259.1  | 242.4  |
| 22.5° | 364.0  | 361.1  | 358.2  | 353.2  | 344.9  | 333.4  | 318.3  | 304.8  | 286.8  | 269.9  | 251.9  |
| 25°   | 402.3  | 399.9  | 395.1  | 388.4  | 378.0  | 364.3  | 346.0  | 326.2  | 305.0  | 283.4  | 262.2  |
| 27.5° | 439.5  | 437.3  | 433.9  | 428.7  | 417.0  | 401.9  | 379.4  | 354.1  | 327.3  | 301.2  | 277.8  |
| 30°   | 474.4  | 472.4  | 469.0  | 463.8  | 453.5  | 438.6  | 413.2  | 386.1  | 352.8  | 322.4  | 294.2  |
| 32.5° | 512.0  | 511.4  | 507.5  | 500.1  | 491.1  | 471.0  | 443.3  | 414.3  | 380.5  | 345.3  | 312.5  |
| 35°   | 554.6  | 549.4  | 545.8  | 538.4  | 523.1  | 501.7  | 469.3  | 437.5  | 401.9  | 365.8  | 329.1  |
| 37.5° | 590.7  | 585.7  | 581.2  | 571.8  | 553.1  | 525.8  | 489.1  | 454.2  | 417.4  | 380.7  | 343.3  |
| 40°   | 617.0  | 614.5  | 609.1  | 596.8  | 575.8  | 543.4  | 503.7  | 465.6  | 428.7  | 391.8  | 354.8  |
| 42.5° | 636.6  | 632.8  | 626.7  | 613.9  | 589.1  | 552.1  | 509.6  | 470.4  | 433.9  | 398.5  | 362.2  |
| 45°   | 643.8  | 640.7  | 635.0  | 621.1  | 594.3  | 554.6  | 509.3  | 469.0  | 434.1  | 400.5  | 367.2  |
| 47.5° | 639.6  | 636.4  | 631.5  | 618.4  | 592.0  | 551.7  | 505.3  | 465.2  | 431.9  | 401.2  | 371.7  |
| 50°   | 625.4  | 623.6  | 619.7  | 608.7  | 585.0  | 546.1  | 501.7  | 463.2  | 431.4  | 404.6  | 378.0  |
| 52.5° | 624.0  | 622.9  | 618.2  | 607.1  | 583.0  | 544.3  | 501.2  | 464.3  | 435.2  | 408.9  | 382.5  |
| 55°   | 762.6  | 746.6  | 710.7  | 680.3  | 630.3  | 570.8  | 524.0  | 482.5  | 451.5  | 425.8  | 407.3  |
| 57.5° | 1083.8 | 1059.9 | 1012.8 | 954.9  | 840.1  | 727.2  | 636.9  | 571.5  | 539.3  | 527.6  | 534.6  |
| 60°   | 1234.3 | 1230.0 | 1222.6 | 1195.1 | 1136.3 | 1039.2 | 931.1  | 814.1  | 767.3  | 763.2  | 777.4  |
| 62.5° | 1305.7 | 1303.0 | 1305.3 | 1301.9 | 1283.6 | 1255.2 | 1224.2 | 1173.7 | 1127.3 | 1097.3 | 1033.8 |
| 65°   | 1338.6 | 1340.4 | 1353.2 | 1363.4 | 1365.6 | 1373.1 | 1395.8 | 1458.7 | 1504.6 | 1427.3 | 1251.0 |
| 67.5° | 1255.0 | 1265.6 | 1295.1 | 1332.1 | 1375.3 | 1417.2 | 1484.8 | 1617.2 | 1711.6 | 1620.9 | 1370.4 |
| 69°   | 1039.0 | 1044.2 | 1116.2 | 1185.8 | 1291.5 | 1365.4 | 1463.4 | 1637.1 | 1743.2 | 1640.7 | 1360.9 |
| 70°   | 818.0  | 822.7  | 900.0  | 994.6  | 1173.2 | 1268.3 | 1396.5 | 1603.5 | 1713.7 | 1614.3 | 1312.2 |
| 72.5° | 369.0  | 362.2  | 389.5  | 440.2  | 634.4  | 785.3  | 1009.5 | 1299.2 | 1413.8 | 1293.3 | 981.8  |
| 75°   | 257.7  | 254.8  | 257.7  | 257.9  | 288.1  | 371.7  | 469.0  | 704.2  | 870.9  | 751.5  | 469.0  |
| 77.5° | 199.6  | 197.6  | 195.5  | 193.3  | 196.9  | 220.5  | 230.0  | 249.8  | 324.4  | 306.8  | 178.9  |
| 80°   | 157.9  | 156.1  | 161.1  | 159.5  | 159.5  | 162.2  | 160.4  | 153.0  | 139.0  | 128.9  | 115.3  |
| 82.5° | 73.4   | 73.9   | 73.9   | 80.2   | 96.6   | 112.9  | 118.0  | 110.6  | 98.2   | 83.6   | 67.4   |
| 85°   | 7.0    | 7.9    | 13.3   | 20.5   | 40.8   | 46.0   | 46.2   | 38.3   | 38.3   | 30.2   | 24.3   |
| 87.5° | 0.0    | 0.2    | 0.2    | 0.2    | 2.0    | 5.6    | 4.7    | 1.4    | 0.7    | 0.7    | 1.1    |
| 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):**

|       | 55°    | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 103.9  | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 |
| 2.5°  | 119.9  | 119.2 | 116.5 | 113.8 | 111.3 | 108.6 | 106.1 | 103.6 | 100.9 | 98.9  | 96.4  |
| 5°    | 140.1  | 135.2 | 129.5 | 124.1 | 118.7 | 113.1 | 107.2 | 102.0 | 96.6  | 91.7  | 87.0  |
| 7.5°  | 160.6  | 150.9 | 143.3 | 133.6 | 124.8 | 116.0 | 107.9 | 99.6  | 91.9  | 84.7  | 78.0  |
| 10°   | 178.0  | 166.3 | 154.3 | 141.9 | 129.3 | 117.6 | 106.3 | 96.4  | 86.3  | 77.5  | 69.2  |
| 12.5° | 192.2  | 177.3 | 162.6 | 147.1 | 132.9 | 118.0 | 104.1 | 92.1  | 80.2  | 70.3  | 61.7  |
| 15°   | 205.0  | 187.9 | 170.3 | 152.3 | 134.3 | 117.4 | 101.8 | 87.0  | 74.8  | 63.5  | 53.8  |
| 17.5° | 215.4  | 195.8 | 175.9 | 155.7 | 136.3 | 116.5 | 98.9  | 83.4  | 69.2  | 57.4  | 48.0  |
| 20°   | 224.4  | 203.9 | 182.5 | 159.7 | 137.6 | 116.2 | 96.4  | 78.8  | 64.2  | 51.8  | 42.6  |
| 22.5° | 232.7  | 212.2 | 189.2 | 164.9 | 139.7 | 116.0 | 94.2  | 75.5  | 59.9  | 47.5  | 38.3  |
| 25°   | 242.2  | 220.5 | 196.4 | 170.3 | 143.3 | 116.9 | 92.8  | 72.8  | 56.1  | 43.5  | 34.9  |
| 27.5° | 252.8  | 230.0 | 205.0 | 177.1 | 148.0 | 118.7 | 92.4  | 69.8  | 52.7  | 39.6  | 32.2  |
| 30°   | 267.6  | 241.3 | 213.6 | 183.8 | 152.3 | 120.7 | 91.9  | 68.0  | 49.3  | 36.7  | 29.5  |
| 32.5° | 280.7  | 252.3 | 223.0 | 190.8 | 157.0 | 122.8 | 91.7  | 65.5  | 46.2  | 33.8  | 27.5  |
| 35°   | 294.4  | 262.4 | 231.1 | 197.6 | 161.1 | 125.0 | 91.5  | 63.8  | 43.3  | 30.9  | 25.5  |
| 37.5° | 306.4  | 271.0 | 237.4 | 203.4 | 165.6 | 127.1 | 91.7  | 62.2  | 40.6  | 28.4  | 23.6  |
| 40°   | 316.5  | 279.8 | 244.4 | 208.8 | 170.3 | 130.2 | 91.9  | 60.6  | 37.8  | 26.1  | 22.1  |
| 42.5° | 325.5  | 288.1 | 251.9 | 214.9 | 175.7 | 133.8 | 93.3  | 59.3  | 35.6  | 24.1  | 20.5  |
| 45°   | 332.5  | 295.8 | 260.0 | 223.5 | 184.5 | 139.7 | 95.7  | 58.3  | 33.3  | 22.3  | 19.1  |
| 47.5° | 339.7  | 307.1 | 273.7 | 237.0 | 197.3 | 148.9 | 100.0 | 58.1  | 31.5  | 20.9  | 18.0  |
| 50°   | 349.6  | 318.3 | 285.9 | 250.7 | 209.1 | 158.4 | 105.2 | 58.3  | 29.3  | 19.6  | 16.9  |
| 52.5° | 356.8  | 329.8 | 301.6 | 274.6 | 237.0 | 187.2 | 125.3 | 62.4  | 28.2  | 18.5  | 15.5  |
| 55°   | 399.4  | 394.7 | 395.4 | 399.9 | 370.8 | 318.5 | 209.5 | 90.1  | 33.1  | 20.9  | 15.3  |
| 57.5° | 563.2  | 579.9 | 589.5 | 589.3 | 541.3 | 449.0 | 281.4 | 115.8 | 36.9  | 24.3  | 18.2  |
| 60°   | 778.5  | 765.9 | 748.1 | 704.2 | 640.5 | 512.5 | 314.7 | 124.6 | 32.0  | 19.4  | 16.7  |
| 62.5° | 968.9  | 895.0 | 829.5 | 758.3 | 674.7 | 534.6 | 321.5 | 123.9 | 27.9  | 14.6  | 11.7  |
| 65°   | 1087.6 | 954.7 | 848.8 | 759.6 | 661.2 | 516.1 | 304.1 | 113.8 | 23.6  | 11.9  | 9.7   |
| 67.5° | 1116.0 | 922.5 | 772.7 | 658.9 | 552.4 | 401.7 | 223.2 | 85.6  | 18.5  | 9.9   | 8.6   |
| 69°   | 1054.1 | 820.0 | 640.2 | 511.2 | 401.9 | 266.5 | 138.1 | 54.1  | 14.2  | 9.0   | 7.9   |
| 70°   | 969.6  | 713.2 | 521.5 | 410.2 | 297.6 | 187.2 | 96.6  | 38.1  | 11.5  | 8.3   | 7.2   |
| 72.5° | 623.8  | 374.6 | 256.4 | 178.4 | 122.8 | 74.6  | 37.8  | 17.1  | 8.8   | 7.0   | 5.9   |
| 75°   | 241.9  | 138.5 | 100.5 | 76.4  | 59.7  | 41.5  | 23.0  | 11.0  | 7.4   | 5.9   | 4.5   |
| 77.5° | 119.2  | 91.2  | 74.6  | 51.1  | 29.7  | 18.5  | 12.4  | 8.6   | 6.1   | 4.3   | 2.9   |
| 80°   | 94.2   | 62.6  | 37.4  | 23.2  | 17.6  | 13.3  | 9.5   | 7.0   | 4.5   | 2.7   | 2.0   |
| 82.5° | 48.2   | 26.4  | 19.4  | 15.8  | 13.1  | 10.4  | 7.7   | 5.0   | 2.9   | 1.8   | 1.6   |
| 85°   | 15.1   | 11.0  | 9.9   | 9.7   | 9.0   | 7.4   | 5.4   | 3.1   | 1.8   | 1.1   | 1.1   |
| 87.5° | 1.1    | 1.6   | 2.0   | 1.6   | 1.8   | 1.6   | 2.0   | 1.4   | 0.9   | 0.9   | 0.7   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 | 103.9 |
| 2.5°  | 94.6  | 91.9  | 89.4  | 87.9  | 84.9  | 83.8  | 82.7  | 82.2  | 80.2  | 80.7  | 78.8  |
| 5°    | 82.7  | 78.0  | 74.3  | 70.7  | 67.4  | 64.9  | 62.8  | 60.4  | 58.3  | 57.4  | 55.6  |
| 7.5°  | 71.9  | 65.8  | 61.0  | 57.2  | 53.2  | 50.0  | 47.3  | 45.5  | 43.7  | 41.9  | 41.0  |
| 10°   | 62.4  | 55.9  | 50.5  | 46.6  | 42.8  | 40.1  | 38.1  | 36.7  | 35.6  | 34.9  | 34.7  |
| 12.5° | 53.6  | 47.3  | 42.3  | 39.0  | 36.0  | 34.7  | 33.8  | 33.1  | 32.9  | 32.7  | 32.7  |
| 15°   | 46.9  | 40.6  | 36.7  | 34.2  | 32.9  | 32.2  | 32.0  | 31.5  | 31.1  | 30.9  | 30.9  |
| 17.5° | 40.6  | 35.8  | 33.1  | 31.8  | 31.1  | 30.6  | 30.2  | 29.7  | 29.3  | 29.1  | 29.1  |
| 20°   | 36.3  | 32.4  | 31.1  | 30.2  | 29.5  | 29.1  | 28.4  | 27.9  | 27.7  | 27.5  | 27.3  |
| 22.5° | 32.9  | 30.4  | 29.5  | 28.8  | 27.9  | 27.3  | 26.8  | 26.4  | 25.9  | 25.7  | 25.5  |
| 25°   | 30.4  | 28.8  | 28.2  | 27.3  | 26.4  | 25.7  | 25.0  | 24.3  | 23.9  | 23.6  | 23.2  |
| 27.5° | 28.6  | 27.5  | 26.6  | 25.5  | 24.6  | 23.9  | 23.2  | 22.5  | 22.1  | 21.6  | 21.4  |
| 30°   | 27.0  | 25.9  | 24.8  | 23.9  | 22.8  | 22.1  | 21.2  | 20.5  | 20.3  | 19.8  | 19.4  |
| 32.5° | 25.5  | 24.3  | 23.2  | 22.1  | 20.9  | 20.1  | 19.6  | 18.7  | 18.2  | 18.0  | 17.6  |
| 35°   | 23.6  | 22.5  | 21.2  | 20.3  | 19.1  | 18.2  | 17.6  | 16.9  | 16.4  | 16.0  | 15.8  |
| 37.5° | 22.1  | 20.7  | 19.4  | 18.2  | 17.3  | 16.4  | 15.8  | 15.1  | 14.6  | 14.2  | 14.0  |
| 40°   | 20.3  | 18.9  | 17.6  | 16.4  | 15.5  | 14.9  | 14.2  | 13.5  | 13.1  | 12.8  | 12.8  |
| 42.5° | 18.7  | 17.1  | 15.8  | 14.9  | 14.2  | 13.3  | 12.6  | 11.9  | 11.7  | 11.5  | 11.7  |
| 45°   | 17.1  | 15.5  | 14.4  | 13.5  | 12.8  | 11.9  | 11.3  | 10.8  | 10.6  | 10.8  | 11.0  |
| 47.5° | 15.8  | 14.2  | 13.1  | 12.4  | 11.7  | 11.0  | 10.4  | 9.9   | 9.9   | 10.4  | 10.8  |
| 50°   | 14.4  | 12.8  | 11.9  | 11.5  | 10.8  | 10.1  | 9.2   | 9.0   | 9.2   | 9.7   | 10.1  |
| 52.5° | 13.1  | 11.3  | 10.6  | 10.4  | 9.7   | 9.0   | 8.3   | 8.1   | 8.3   | 8.8   | 8.6   |
| 55°   | 11.7  | 9.9   | 9.7   | 9.5   | 8.8   | 7.9   | 7.2   | 7.2   | 7.2   | 7.0   | 6.5   |
| 57.5° | 11.3  | 8.8   | 8.6   | 8.3   | 7.7   | 6.8   | 6.3   | 5.9   | 5.6   | 5.0   | 4.7   |
| 60°   | 11.7  | 7.9   | 7.9   | 7.4   | 6.8   | 5.9   | 5.2   | 4.5   | 4.1   | 3.6   | 3.6   |
| 62.5° | 9.5   | 7.2   | 7.0   | 6.5   | 5.6   | 4.7   | 4.1   | 3.4   | 3.1   | 2.9   | 2.9   |
| 65°   | 7.7   | 6.5   | 6.1   | 5.4   | 4.7   | 3.8   | 3.1   | 2.7   | 2.5   | 2.5   | 2.7   |
| 67.5° | 7.0   | 5.9   | 5.2   | 4.5   | 3.8   | 2.9   | 2.5   | 2.3   | 2.3   | 2.5   | 2.5   |
| 69°   | 6.5   | 5.4   | 4.7   | 4.1   | 3.4   | 2.7   | 2.3   | 2.3   | 2.3   | 2.3   | 2.5   |
| 70°   | 6.1   | 5.2   | 4.5   | 3.8   | 2.9   | 2.3   | 2.0   | 2.0   | 2.3   | 2.3   | 2.5   |
| 72.5° | 4.7   | 4.1   | 3.8   | 3.1   | 2.3   | 2.0   | 1.8   | 2.0   | 2.0   | 2.3   | 2.3   |
| 75°   | 3.6   | 2.9   | 2.9   | 2.5   | 1.8   | 1.6   | 1.6   | 1.8   | 1.8   | 2.0   | 2.0   |
| 77.5° | 2.5   | 2.0   | 2.0   | 1.8   | 1.6   | 1.4   | 1.4   | 1.6   | 1.8   | 1.8   | 2.0   |
| 80°   | 1.8   | 1.6   | 1.4   | 1.6   | 1.4   | 1.1   | 1.4   | 1.6   | 1.6   | 1.8   | 1.8   |
| 82.5° | 1.4   | 1.4   | 1.4   | 1.4   | 1.1   | 1.1   | 1.4   | 1.4   | 1.6   | 1.8   | 1.8   |
| 85°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.4   | 1.4   | 1.6   | 1.6   |
| 87.5° | 0.7   | 0.7   | 0.7   | 0.9   | 0.9   | 1.1   | 1.1   | 1.1   | 1.1   | 1.4   | 1.4   |
| 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: P163850

CATALOG NUMBER: LDRC-SL4-F01-E-8030-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 103.9 | 103.9 | 103.9 | 103.9 |
| 2.5°  | 78.4  | 78.2  | 77.3  | 77.5  |
| 5°    | 55.0  | 53.6  | 54.5  | 54.3  |
| 7.5°  | 40.3  | 40.1  | 39.9  | 40.3  |
| 10°   | 34.5  | 34.5  | 34.2  | 34.5  |
| 12.5° | 32.4  | 32.4  | 32.4  | 32.4  |
| 15°   | 30.9  | 30.9  | 30.6  | 30.6  |
| 17.5° | 29.1  | 29.1  | 29.1  | 28.8  |
| 20°   | 27.3  | 27.0  | 27.0  | 27.0  |
| 22.5° | 25.2  | 25.0  | 25.0  | 25.0  |
| 25°   | 23.2  | 23.0  | 23.0  | 23.0  |
| 27.5° | 21.2  | 20.9  | 20.7  | 20.7  |
| 30°   | 19.1  | 18.9  | 18.7  | 18.7  |
| 32.5° | 17.1  | 16.9  | 16.7  | 16.7  |
| 35°   | 15.3  | 15.3  | 15.1  | 14.9  |
| 37.5° | 13.7  | 13.7  | 13.7  | 13.7  |
| 40°   | 12.6  | 12.8  | 12.8  | 12.8  |
| 42.5° | 11.9  | 12.2  | 12.4  | 12.6  |
| 45°   | 11.5  | 11.9  | 12.2  | 12.2  |
| 47.5° | 11.3  | 11.5  | 11.7  | 11.7  |
| 50°   | 10.4  | 10.1  | 10.1  | 10.1  |
| 52.5° | 8.3   | 7.9   | 7.7   | 7.4   |
| 55°   | 6.1   | 5.9   | 5.4   | 5.4   |
| 57.5° | 4.3   | 4.3   | 4.1   | 4.1   |
| 60°   | 3.4   | 3.4   | 3.1   | 3.4   |
| 62.5° | 2.9   | 2.9   | 2.9   | 2.9   |
| 65°   | 2.7   | 2.7   | 2.7   | 2.7   |
| 67.5° | 2.7   | 2.7   | 2.7   | 2.7   |
| 69°   | 2.5   | 2.5   | 2.5   | 2.5   |
| 70°   | 2.5   | 2.5   | 2.5   | 2.5   |
| 72.5° | 2.3   | 2.3   | 2.3   | 2.3   |
| 75°   | 2.0   | 2.3   | 2.3   | 2.3   |
| 77.5° | 2.0   | 2.0   | 2.0   | 2.0   |
| 80°   | 1.8   | 1.8   | 2.0   | 2.0   |
| 82.5° | 1.8   | 1.8   | 1.8   | 1.8   |
| 85°   | 1.6   | 1.6   | 1.8   | 1.8   |
| 87.5° | 1.4   | 1.4   | 1.6   | 1.6   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)