

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: McGRAW-EDISON

Report Number: P526808

Luminaire Tested: **GALN-SA1D-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5430 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

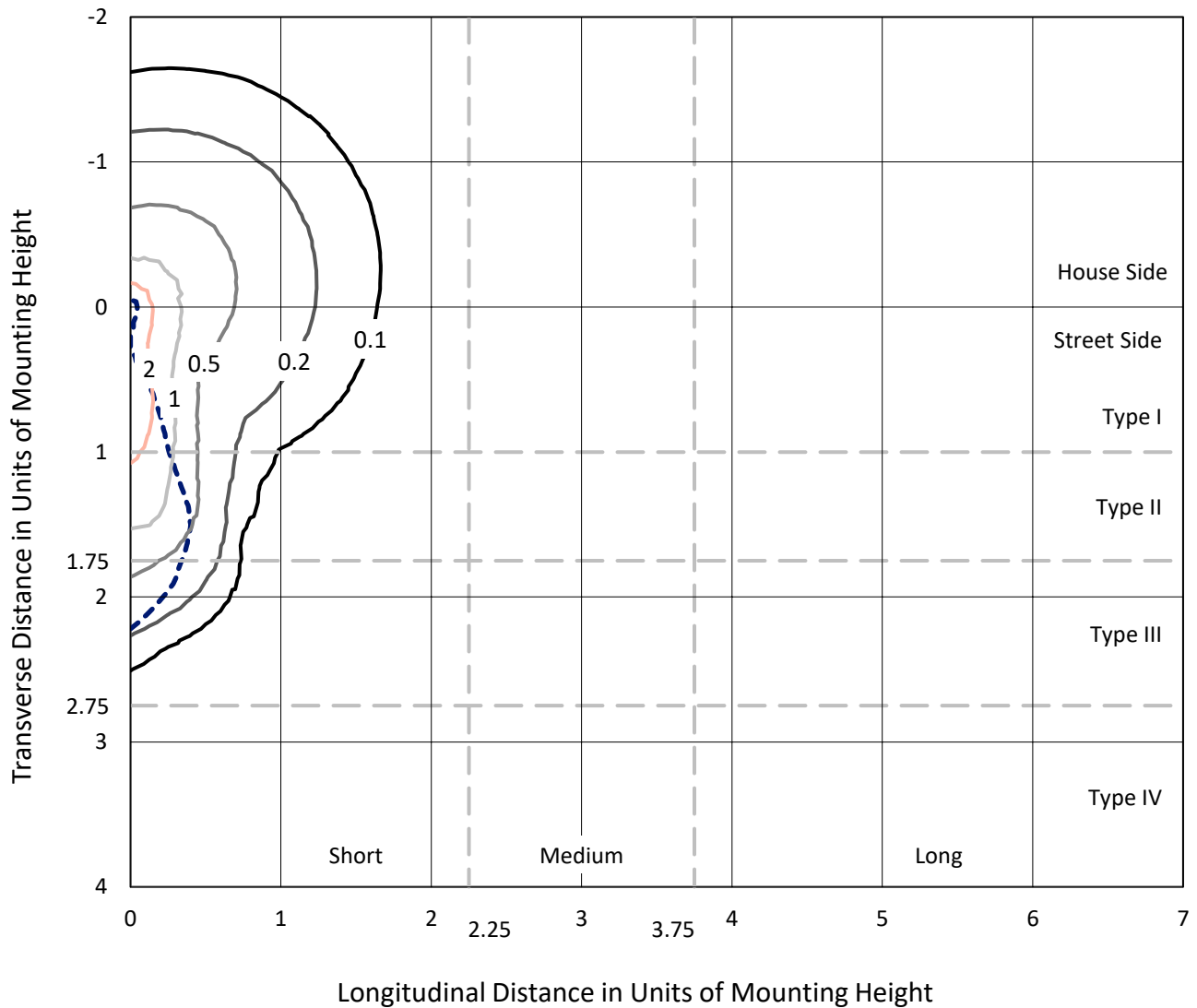
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526808
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Iso-Footcandle Lines of Horizontal Illumination

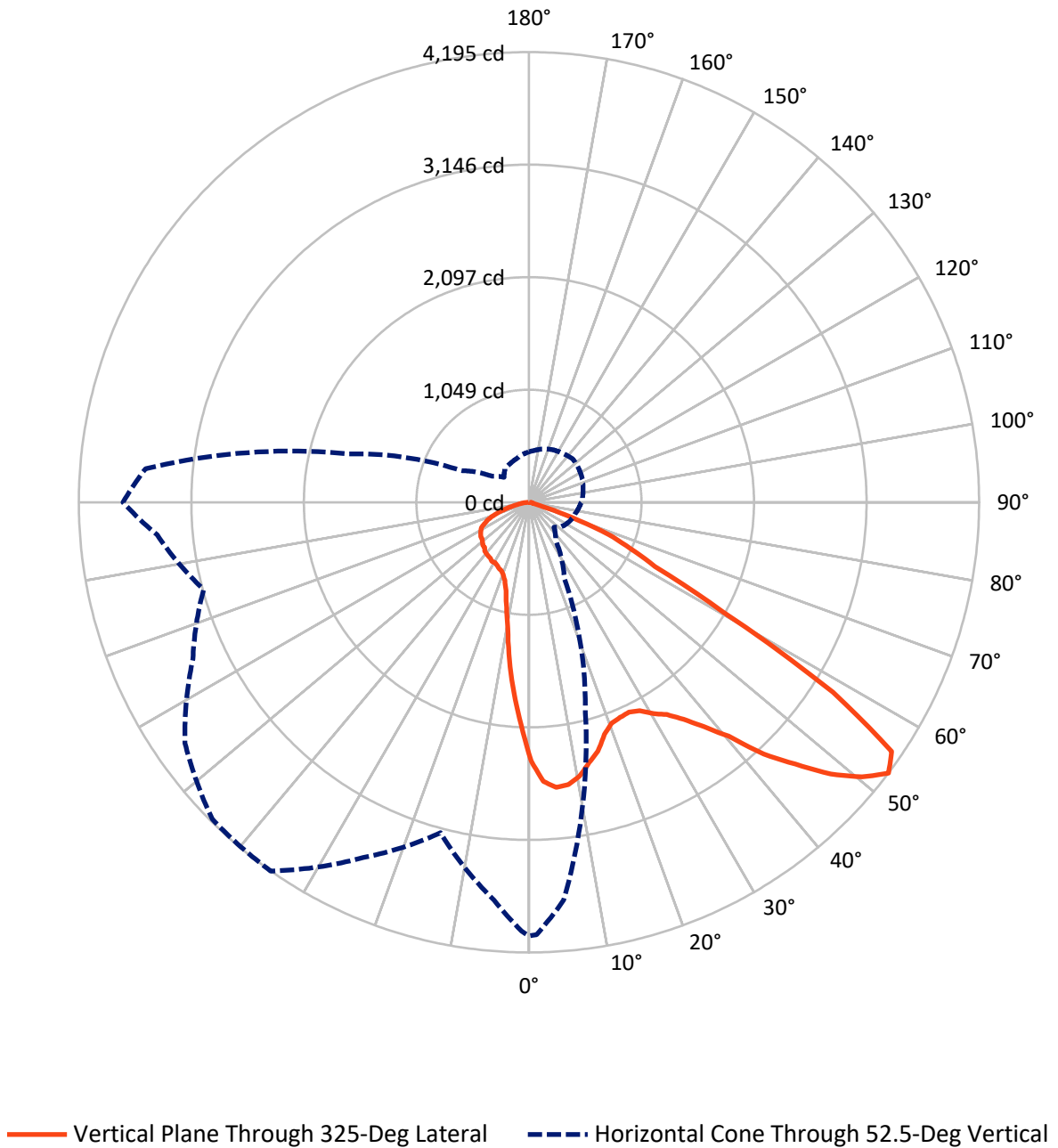
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1636.9 | 0.0 | 1636.9 |
| | % Fixture | 30.1 | 0.0 | 30.1 |
| Street Side | Lumens | 3793.1 | 0.0 | 3793.1 |
| | % Fixture | 69.9 | 0.0 | 69.9 |
| Total | Lumens | 5430.0 | 0.0 | 5430.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 183.9 | 3.4 |
| 10°-20° | 398.6 | 7.3 |
| 20°-30° | 602.2 | 11.1 |
| 30°-40° | 870.2 | 16.0 |
| 40°-50° | 1158.1 | 21.3 |
| 50°-60° | 1295.3 | 23.9 |
| 60°-70° | 730.1 | 13.4 |
| 70°-80° | 162.7 | 3.0 |
| 80°-90° | 29.0 | 0.5 |
| 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° | 5430.0 | 100.0 |
| 0°-180° | 5430.0 | 100.0 |

Coefficient of Utilization

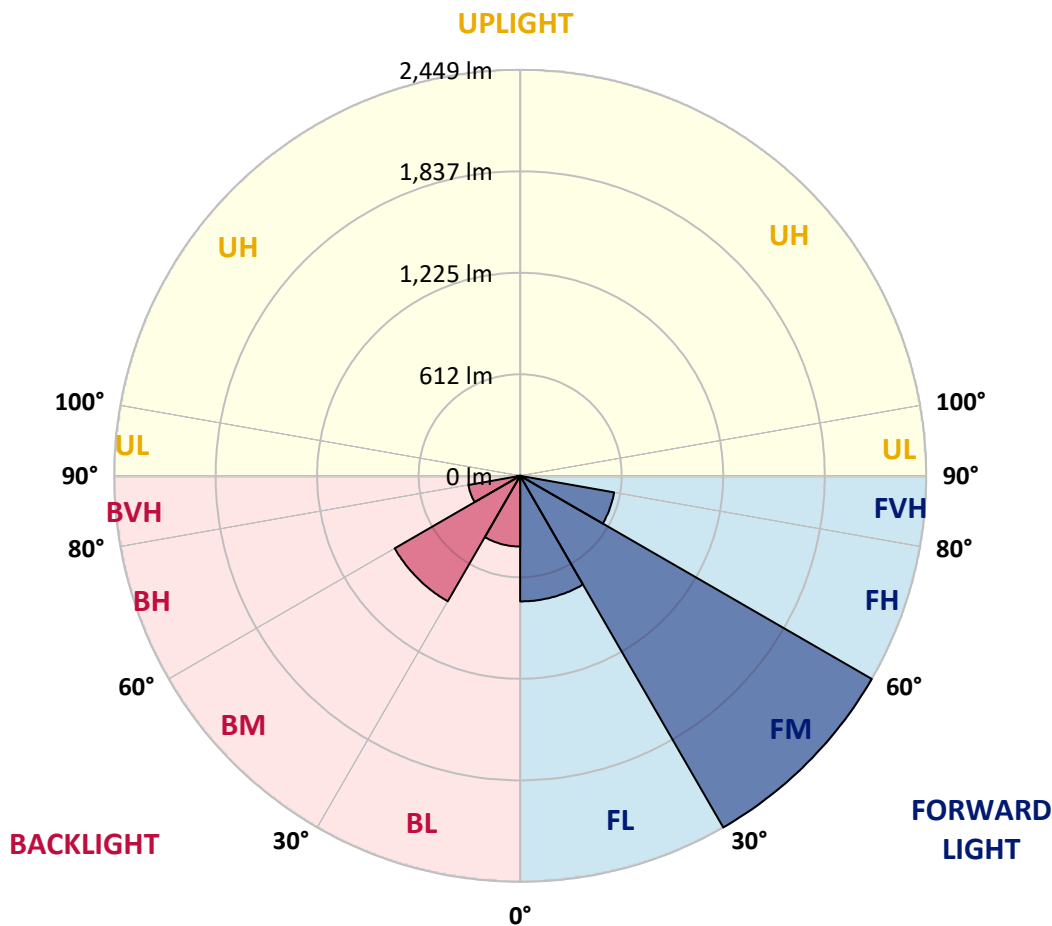


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 757.7 | 14.0 | | | |
| FM (30°-60°) | 2449.3 | 45.1 | | | |
| FH (60°-80°) | 575.5 | 10.6 | | | G0/660 |
| FVH (80°-90°) | 10.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 426.9 | 7.9 | B1/500 | | |
| BM (30°-60°) | 874.3 | 16.1 | B1/1000 | | |
| BH (60°-80°) | 317.3 | 5.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.5 | 0.3 | | | G1/100 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 |
| 2.5° | 2450.0 | 2489.4 | 2446.9 | 2371.3 | 2317.8 | 2269.0 | 2217.8 | 2207.6 | 2140.7 | 2128.9 | 2080.1 |
| 5° | 2310.7 | 2302.0 | 2250.1 | 2150.9 | 2041.5 | 1942.4 | 1869.2 | 1798.3 | 1750.3 | 1694.5 | 1690.5 |
| 7.5° | 2141.5 | 2091.1 | 2061.2 | 1910.9 | 1775.5 | 1619.7 | 1552.8 | 1445.0 | 1411.1 | 1360.8 | 1334.8 |
| 10° | 1990.4 | 1953.4 | 1883.3 | 1733.0 | 1544.1 | 1441.0 | 1369.4 | 1311.2 | 1271.8 | 1219.9 | 1154.6 |
| 12.5° | 1915.6 | 1900.7 | 1822.0 | 1589.0 | 1448.9 | 1338.7 | 1288.4 | 1231.7 | 1164.8 | 1081.4 | 1049.1 |
| 15° | 1929.0 | 1878.6 | 1818.8 | 1561.5 | 1367.8 | 1261.6 | 1181.3 | 1110.5 | 1024.7 | 945.2 | 898.8 |
| 17.5° | 2028.9 | 1990.4 | 1870.8 | 1578.8 | 1337.2 | 1183.7 | 1038.1 | 933.4 | 856.3 | 784.7 | 752.4 |
| 20° | 2225.7 | 2169.8 | 2035.2 | 1600.8 | 1271.0 | 1075.1 | 908.2 | 779.2 | 696.5 | 658.7 | 647.7 |
| 22.5° | 2443.7 | 2410.7 | 2195.8 | 1650.4 | 1218.3 | 974.3 | 770.5 | 641.4 | 610.7 | 600.5 | 621.0 |
| 25° | 2708.9 | 2623.2 | 2445.3 | 1731.5 | 1177.4 | 888.6 | 654.0 | 582.4 | 566.7 | 576.9 | 600.5 |
| 27.5° | 2910.4 | 2887.6 | 2620.0 | 1807.8 | 1121.5 | 785.4 | 588.7 | 541.5 | 546.2 | 556.4 | 578.5 |
| 30° | 3149.7 | 3034.0 | 2789.2 | 1860.5 | 1071.1 | 714.6 | 543.0 | 530.5 | 535.2 | 552.5 | 563.5 |
| 32.5° | 3293.7 | 3250.4 | 2895.5 | 1940.0 | 1012.9 | 653.2 | 507.6 | 495.8 | 502.9 | 528.9 | 554.9 |
| 35° | 3477.1 | 3391.3 | 3026.9 | 1960.5 | 972.0 | 628.8 | 482.4 | 473.8 | 490.3 | 508.4 | 537.5 |
| 37.5° | 3691.1 | 3632.1 | 3208.7 | 1946.3 | 949.9 | 603.6 | 461.2 | 457.3 | 469.1 | 494.3 | 528.1 |
| 40° | 3817.9 | 3799.8 | 3303.9 | 1955.0 | 915.3 | 581.6 | 436.8 | 441.5 | 465.9 | 485.6 | 518.6 |
| 42.5° | 3939.8 | 3821.8 | 3444.8 | 1951.8 | 893.3 | 551.7 | 439.2 | 433.7 | 452.5 | 475.4 | 506.8 |
| 45° | 3966.6 | 3849.3 | 3477.9 | 1929.8 | 866.5 | 522.6 | 421.1 | 423.4 | 446.2 | 474.6 | 495.0 |
| 47.5° | 3949.3 | 3862.7 | 3539.2 | 1923.5 | 841.3 | 502.1 | 394.3 | 422.6 | 436.0 | 458.8 | 488.0 |
| 50° | 3937.5 | 3932.8 | 3591.2 | 1953.4 | 807.5 | 469.9 | 362.0 | 412.4 | 425.8 | 448.6 | 480.1 |
| 52.5° | 4041.4 | 4031.1 | 3721.0 | 2032.1 | 780.7 | 435.2 | 329.0 | 386.4 | 418.7 | 440.7 | 471.4 |
| 55° | 4104.3 | 4059.5 | 3943.8 | 2128.9 | 735.9 | 389.6 | 306.2 | 354.2 | 401.4 | 421.1 | 452.5 |
| 57.5° | 3691.9 | 3661.2 | 3567.6 | 1987.2 | 660.3 | 329.8 | 277.8 | 321.1 | 377.8 | 408.5 | 440.7 |
| 60° | 3071.8 | 3023.7 | 2783.7 | 1689.0 | 487.2 | 256.6 | 260.5 | 295.1 | 371.5 | 383.3 | 421.1 |
| 62.5° | 2896.2 | 2777.4 | 2450.8 | 1359.2 | 373.8 | 220.4 | 233.7 | 271.5 | 338.4 | 358.1 | 395.9 |
| 65° | 2298.1 | 2210.0 | 1753.5 | 981.4 | 250.3 | 191.2 | 213.3 | 244.8 | 292.0 | 330.6 | 365.2 |
| 67.5° | 1438.7 | 1354.5 | 935.8 | 464.3 | 174.7 | 163.7 | 190.5 | 223.5 | 262.1 | 296.7 | 335.3 |
| 70° | 751.6 | 659.5 | 432.1 | 167.6 | 120.4 | 133.8 | 159.0 | 190.5 | 228.2 | 256.6 | 286.5 |
| 72.5° | 280.2 | 227.4 | 140.9 | 72.4 | 83.4 | 102.3 | 129.1 | 151.9 | 178.7 | 213.3 | 229.8 |
| 75° | 43.3 | 37.0 | 36.2 | 44.1 | 56.7 | 74.0 | 92.1 | 114.9 | 138.5 | 160.6 | 171.6 |
| 77.5° | 20.5 | 19.7 | 22.0 | 29.1 | 37.8 | 52.7 | 66.9 | 88.9 | 107.8 | 122.0 | 128.3 |
| 80° | 13.4 | 12.6 | 14.2 | 19.7 | 28.3 | 39.4 | 53.5 | 68.5 | 85.8 | 97.6 | 96.0 |
| 82.5° | 7.9 | 8.7 | 8.7 | 13.4 | 19.7 | 28.3 | 38.6 | 51.9 | 63.7 | 74.0 | 67.7 |
| 85° | 4.7 | 3.9 | 3.9 | 7.9 | 13.4 | 22.8 | 32.3 | 22.0 | 22.8 | 22.8 | 26.0 |
| 87.5° | 1.6 | 1.6 | 1.6 | 0.8 | 1.6 | 1.6 | 2.4 | 3.9 | 4.7 | 5.5 | 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 |



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CATALOG NUMBER: GALN-SA1D-735-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 |
| 2.5° | 2078.5 | 2102.9 | 2094.3 | 2063.6 | 2087.2 | 2091.1 | 2075.4 | 2129.7 | 2139.9 | 2123.4 | 2128.1 |
| 5° | 1685.0 | 1691.3 | 1705.5 | 1735.4 | 1756.6 | 1781.8 | 1781.8 | 1783.4 | 1762.1 | 1815.7 | 1799.9 |
| 7.5° | 1312.8 | 1316.7 | 1333.2 | 1397.0 | 1415.1 | 1463.1 | 1483.5 | 1469.4 | 1426.9 | 1408.8 | 1423.7 |
| 10° | 1133.3 | 1110.5 | 1105.0 | 1112.9 | 1153.8 | 1174.2 | 1191.6 | 1186.8 | 1179.7 | 1165.6 | 1149.8 |
| 12.5° | 1013.7 | 997.2 | 983.8 | 964.9 | 967.3 | 986.9 | 1000.3 | 989.3 | 992.4 | 995.6 | 1000.3 |
| 15° | 883.8 | 872.0 | 864.9 | 836.6 | 833.5 | 846.8 | 851.6 | 857.9 | 869.7 | 870.4 | 864.9 |
| 17.5° | 746.1 | 735.9 | 751.6 | 767.3 | 756.3 | 757.1 | 765.8 | 771.3 | 768.1 | 754.0 | 746.9 |
| 20° | 651.7 | 662.7 | 678.4 | 693.4 | 705.2 | 712.3 | 715.4 | 706.7 | 696.5 | 667.4 | 666.6 |
| 22.5° | 624.1 | 638.3 | 651.7 | 674.5 | 685.5 | 703.6 | 687.1 | 667.4 | 653.2 | 639.1 | 622.5 |
| 25° | 603.6 | 615.5 | 642.2 | 650.9 | 672.1 | 687.1 | 675.3 | 655.6 | 631.2 | 610.7 | 598.1 |
| 27.5° | 588.7 | 602.1 | 619.4 | 643.0 | 659.5 | 668.2 | 656.4 | 648.5 | 623.3 | 598.9 | 580.8 |
| 30° | 579.2 | 593.4 | 624.9 | 644.6 | 658.7 | 665.8 | 645.4 | 635.9 | 617.8 | 597.4 | 581.6 |
| 32.5° | 573.0 | 585.5 | 612.3 | 637.5 | 646.9 | 646.9 | 650.1 | 639.1 | 613.9 | 579.2 | 565.9 |
| 35° | 552.5 | 569.8 | 591.8 | 621.0 | 638.3 | 648.5 | 632.8 | 620.2 | 603.6 | 568.2 | 543.8 |
| 37.5° | 540.7 | 552.5 | 580.8 | 608.4 | 623.3 | 634.3 | 628.0 | 606.0 | 584.0 | 554.9 | 535.2 |
| 40° | 528.1 | 547.0 | 572.2 | 598.1 | 614.7 | 625.7 | 621.0 | 595.0 | 568.2 | 540.7 | 527.3 |
| 42.5° | 519.4 | 532.0 | 558.0 | 587.1 | 606.8 | 628.0 | 613.9 | 581.6 | 562.7 | 524.9 | 510.0 |
| 45° | 512.4 | 532.8 | 560.4 | 572.2 | 592.6 | 614.7 | 589.5 | 569.8 | 547.8 | 520.2 | 507.6 |
| 47.5° | 503.7 | 522.6 | 540.7 | 572.2 | 581.6 | 591.8 | 587.1 | 555.6 | 536.8 | 506.8 | 498.2 |
| 50° | 500.5 | 507.6 | 540.7 | 558.0 | 571.4 | 581.6 | 569.0 | 545.4 | 527.3 | 496.6 | 477.7 |
| 52.5° | 488.0 | 501.3 | 522.6 | 545.4 | 561.9 | 574.5 | 554.1 | 539.1 | 514.7 | 482.4 | 470.6 |
| 55° | 472.2 | 480.1 | 517.9 | 541.5 | 550.1 | 558.8 | 550.9 | 526.5 | 501.3 | 468.3 | 456.5 |
| 57.5° | 451.8 | 469.9 | 500.5 | 533.6 | 544.6 | 549.3 | 536.8 | 517.1 | 485.6 | 456.5 | 437.6 |
| 60° | 430.5 | 449.4 | 483.2 | 510.0 | 521.0 | 538.3 | 519.4 | 507.6 | 471.4 | 439.2 | 418.7 |
| 62.5° | 409.3 | 430.5 | 455.7 | 489.5 | 499.0 | 506.1 | 501.3 | 484.8 | 455.7 | 419.5 | 394.3 |
| 65° | 384.1 | 399.8 | 431.3 | 448.6 | 454.9 | 471.4 | 454.9 | 448.6 | 422.6 | 388.0 | 366.8 |
| 67.5° | 346.3 | 359.7 | 387.2 | 403.7 | 408.5 | 415.5 | 414.8 | 407.7 | 378.6 | 354.9 | 336.1 |
| 70° | 303.0 | 314.8 | 332.1 | 351.8 | 354.2 | 362.8 | 354.9 | 353.4 | 334.5 | 302.2 | 292.0 |
| 72.5° | 243.2 | 254.2 | 277.0 | 285.7 | 286.5 | 289.6 | 285.7 | 280.2 | 275.5 | 241.6 | 231.4 |
| 75° | 186.5 | 192.8 | 203.8 | 211.7 | 211.7 | 215.6 | 213.3 | 207.8 | 195.2 | 173.9 | 163.7 |
| 77.5° | 129.9 | 136.2 | 150.3 | 155.0 | 154.3 | 155.8 | 148.7 | 143.2 | 124.3 | 113.3 | 104.7 |
| 80° | 94.4 | 98.4 | 105.5 | 108.6 | 109.4 | 111.8 | 103.1 | 98.4 | 87.4 | 74.8 | 70.8 |
| 82.5° | 68.5 | 70.8 | 71.6 | 75.6 | 75.6 | 71.6 | 69.3 | 64.5 | 56.7 | 48.8 | 45.6 |
| 85° | 28.3 | 29.1 | 29.9 | 34.6 | 35.4 | 42.5 | 39.4 | 37.0 | 32.3 | 27.5 | 25.2 |
| 87.5° | 7.1 | 7.9 | 10.2 | 8.7 | 10.2 | 10.2 | 11.0 | 12.6 | 12.6 | 10.2 | 10.2 |
| 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: P526808

CATALOG NUMBER: GALN-SA1D-735-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 |
| 2.5° | 2146.2 | 2152.5 | 2232.8 | 2243.0 | 2282.4 | 2322.5 | 2403.6 | 2461.8 | 2509.0 | 2539.7 | 2548.4 |
| 5° | 1816.5 | 1856.6 | 1893.6 | 1953.4 | 2007.7 | 2084.8 | 2173.8 | 2283.9 | 2422.5 | 2493.3 | 2521.6 |
| 7.5° | 1422.2 | 1469.4 | 1522.9 | 1581.1 | 1660.6 | 1799.1 | 1918.0 | 2045.5 | 2222.6 | 2295.7 | 2406.7 |
| 10° | 1160.9 | 1213.6 | 1284.4 | 1329.3 | 1425.3 | 1557.5 | 1696.0 | 1843.2 | 2012.4 | 2117.9 | 2246.2 |
| 12.5° | 1026.3 | 1069.6 | 1134.9 | 1229.3 | 1301.0 | 1386.7 | 1489.8 | 1675.6 | 1918.0 | 2017.9 | 2106.1 |
| 15° | 877.5 | 925.5 | 1001.1 | 1105.8 | 1191.6 | 1293.9 | 1409.6 | 1611.8 | 1870.0 | 2024.2 | 2099.0 |
| 17.5° | 754.8 | 789.4 | 868.9 | 959.4 | 1057.8 | 1169.5 | 1335.6 | 1608.7 | 1920.3 | 2117.9 | 2239.9 |
| 20° | 669.8 | 674.5 | 717.8 | 794.9 | 928.7 | 1074.3 | 1289.9 | 1592.9 | 2081.7 | 2279.2 | 2433.5 |
| 22.5° | 616.2 | 611.5 | 612.3 | 677.6 | 771.3 | 980.6 | 1218.3 | 1646.5 | 2265.1 | 2535.8 | 2639.7 |
| 25° | 589.5 | 576.9 | 569.0 | 583.2 | 668.2 | 869.7 | 1164.0 | 1717.3 | 2462.6 | 2747.5 | 2875.0 |
| 27.5° | 575.3 | 553.3 | 537.5 | 539.9 | 602.1 | 813.8 | 1130.2 | 1748.0 | 2658.6 | 3042.6 | 3087.5 |
| 30° | 569.8 | 542.3 | 519.4 | 511.6 | 552.5 | 735.9 | 1057.8 | 1800.7 | 2834.1 | 3204.8 | 3243.3 |
| 32.5° | 550.1 | 516.3 | 494.3 | 487.2 | 503.7 | 667.4 | 1005.8 | 1838.5 | 2989.1 | 3381.1 | 3367.7 |
| 35° | 527.3 | 499.0 | 471.4 | 458.0 | 469.9 | 623.3 | 964.1 | 1820.4 | 3171.7 | 3518.0 | 3510.9 |
| 37.5° | 524.9 | 488.0 | 465.1 | 443.1 | 442.3 | 569.0 | 907.4 | 1837.7 | 3288.2 | 3763.5 | 3666.7 |
| 40° | 504.5 | 480.9 | 451.0 | 432.9 | 422.6 | 541.5 | 852.3 | 1796.8 | 3459.0 | 3862.7 | 3767.5 |
| 42.5° | 505.3 | 469.9 | 443.9 | 422.6 | 412.4 | 501.3 | 814.6 | 1785.8 | 3518.8 | 4024.1 | 3814.7 |
| 45° | 492.7 | 458.0 | 436.0 | 410.8 | 405.3 | 470.6 | 778.4 | 1734.6 | 3624.2 | 4031.9 | 3755.7 |
| 47.5° | 480.1 | 449.4 | 425.8 | 395.9 | 383.3 | 459.6 | 750.0 | 1692.1 | 3569.2 | 3957.9 | 3673.8 |
| 50° | 471.4 | 436.0 | 414.0 | 392.7 | 357.3 | 440.7 | 713.0 | 1681.9 | 3492.0 | 3858.0 | 3521.9 |
| 52.5° | 456.5 | 425.0 | 402.2 | 385.6 | 329.0 | 423.4 | 698.9 | 1741.7 | 3586.5 | 3783.2 | 3477.9 |
| 55° | 442.3 | 410.0 | 380.9 | 348.7 | 305.4 | 377.8 | 659.5 | 1797.6 | 3724.2 | 3955.6 | 3677.8 |
| 57.5° | 427.4 | 396.7 | 365.2 | 326.6 | 282.5 | 330.6 | 618.6 | 1807.8 | 3466.1 | 3655.7 | 3491.2 |
| 60° | 407.7 | 368.3 | 344.7 | 294.3 | 258.1 | 273.9 | 490.3 | 1593.7 | 2688.5 | 3052.9 | 3058.4 |
| 62.5° | 385.6 | 343.1 | 322.7 | 263.7 | 233.0 | 236.1 | 399.8 | 1339.5 | 2180.8 | 2527.1 | 2677.5 |
| 65° | 356.5 | 315.6 | 291.2 | 244.0 | 214.9 | 204.6 | 292.8 | 981.4 | 1656.7 | 2050.2 | 2221.0 |
| 67.5° | 318.7 | 280.2 | 249.5 | 212.5 | 192.0 | 175.5 | 199.9 | 552.5 | 978.3 | 1376.5 | 1428.4 |
| 70° | 278.6 | 245.6 | 213.3 | 182.6 | 159.8 | 148.0 | 146.4 | 244.8 | 467.5 | 740.6 | 842.9 |
| 72.5° | 219.6 | 196.0 | 170.0 | 147.2 | 132.2 | 114.9 | 104.7 | 101.5 | 158.2 | 301.4 | 416.3 |
| 75° | 157.4 | 137.7 | 122.8 | 107.8 | 96.8 | 87.4 | 79.5 | 72.4 | 66.1 | 75.6 | 103.9 |
| 77.5° | 99.2 | 92.1 | 80.3 | 76.3 | 70.0 | 67.7 | 64.5 | 60.6 | 55.9 | 52.7 | 52.7 |
| 80° | 66.9 | 62.2 | 58.2 | 57.5 | 55.1 | 54.3 | 55.1 | 51.2 | 46.4 | 42.5 | 44.1 |
| 82.5° | 44.9 | 44.1 | 43.3 | 42.5 | 43.3 | 44.1 | 45.6 | 44.9 | 40.9 | 38.6 | 39.4 |
| 85° | 26.8 | 28.3 | 29.9 | 31.5 | 34.6 | 30.7 | 25.2 | 21.2 | 18.9 | 17.3 | 16.5 |
| 87.5° | 10.2 | 14.2 | 12.6 | 11.8 | 12.6 | 11.8 | 11.0 | 10.2 | 8.7 | 7.9 | 7.9 |
| 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° | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 |
| 2.5° | 2605.8 | 2621.6 | 2635.0 | 2631.8 | 2604.3 | 2567.3 | 2552.3 | 2476.0 | 2460.2 | 2450.0 |
| 5° | 2641.3 | 2732.5 | 2752.2 | 2740.4 | 2668.8 | 2578.3 | 2490.1 | 2378.4 | 2313.1 | 2310.7 |
| 7.5° | 2575.9 | 2688.5 | 2723.9 | 2750.6 | 2655.4 | 2498.0 | 2346.9 | 2179.3 | 2138.3 | 2141.5 |
| 10° | 2409.9 | 2589.3 | 2676.7 | 2704.2 | 2594.8 | 2458.7 | 2249.3 | 2079.3 | 1992.0 | 1990.4 |
| 12.5° | 2317.8 | 2458.7 | 2483.1 | 2521.6 | 2489.4 | 2351.6 | 2192.6 | 2002.2 | 1917.2 | 1915.6 |
| 15° | 2235.9 | 2328.8 | 2335.9 | 2390.2 | 2407.5 | 2314.6 | 2207.6 | 2004.6 | 1936.1 | 1929.0 |
| 17.5° | 2307.6 | 2243.0 | 2216.3 | 2223.3 | 2274.5 | 2308.3 | 2294.2 | 2138.3 | 2068.3 | 2028.9 |
| 20° | 2355.6 | 2211.5 | 2130.5 | 2138.3 | 2198.9 | 2322.5 | 2423.2 | 2332.0 | 2221.0 | 2225.7 |
| 22.5° | 2483.8 | 2216.3 | 2089.5 | 2080.9 | 2176.9 | 2396.5 | 2568.8 | 2576.7 | 2469.7 | 2443.7 |
| 25° | 2675.9 | 2270.6 | 2077.0 | 2074.6 | 2166.7 | 2476.0 | 2738.8 | 2866.3 | 2756.9 | 2708.9 |
| 27.5° | 2830.1 | 2355.6 | 2116.3 | 2124.2 | 2198.9 | 2540.5 | 2883.7 | 3052.9 | 2969.4 | 2910.4 |
| 30° | 2965.5 | 2443.7 | 2171.4 | 2135.2 | 2285.5 | 2574.4 | 2945.8 | 3265.4 | 3198.5 | 3149.7 |
| 32.5° | 3021.4 | 2568.8 | 2258.8 | 2198.9 | 2357.1 | 2615.3 | 3074.9 | 3471.6 | 3414.1 | 3293.7 |
| 35° | 3115.8 | 2638.9 | 2306.0 | 2301.3 | 2482.3 | 2713.7 | 3135.5 | 3607.7 | 3584.1 | 3477.1 |
| 37.5° | 3191.4 | 2709.7 | 2473.6 | 2421.7 | 2653.8 | 2878.9 | 3233.1 | 3795.8 | 3741.5 | 3691.1 |
| 40° | 3249.6 | 2836.4 | 2630.2 | 2698.7 | 2864.8 | 3029.3 | 3322.8 | 3807.6 | 3964.2 | 3817.9 |
| 42.5° | 3196.1 | 2949.8 | 2887.6 | 3051.3 | 3208.7 | 3200.8 | 3333.0 | 3898.9 | 4016.2 | 3939.8 |
| 45° | 3182.7 | 3141.8 | 3294.5 | 3443.2 | 3479.4 | 3343.3 | 3259.9 | 3798.2 | 4000.4 | 3966.6 |
| 47.5° | 3150.5 | 3330.7 | 3596.7 | 3839.1 | 3784.0 | 3438.5 | 3172.5 | 3780.1 | 4009.9 | 3949.3 |
| 50° | 3139.4 | 3371.6 | 3820.2 | 4056.3 | 4023.3 | 3521.1 | 3131.6 | 3663.6 | 3943.0 | 3937.5 |
| 52.5° | 3138.7 | 3455.8 | 3913.1 | 4174.4 | 4194.8 | 3651.8 | 3187.4 | 3722.6 | 3994.9 | 4041.4 |
| 55° | 3174.1 | 3429.1 | 3901.3 | 4109.1 | 4101.2 | 3593.6 | 3193.7 | 3762.0 | 4058.7 | 4104.3 |
| 57.5° | 2993.8 | 3071.8 | 3219.7 | 3384.2 | 3341.7 | 2976.5 | 2852.2 | 3477.9 | 3725.0 | 3691.9 |
| 60° | 2585.4 | 2341.4 | 2174.5 | 2166.7 | 2084.0 | 1969.9 | 2334.3 | 3104.0 | 3104.0 | 3071.8 |
| 62.5° | 2264.3 | 1537.1 | 1320.6 | 1259.2 | 1318.3 | 1449.7 | 2251.7 | 3019.0 | 2933.2 | 2896.2 |
| 65° | 1980.2 | 1173.5 | 954.7 | 937.3 | 1039.7 | 1238.0 | 2036.0 | 2572.0 | 2420.9 | 2298.1 |
| 67.5° | 1274.2 | 859.4 | 709.9 | 679.2 | 802.8 | 909.0 | 1355.3 | 1581.9 | 1486.7 | 1438.7 |
| 70° | 821.7 | 559.6 | 395.1 | 370.7 | 418.7 | 560.4 | 865.7 | 922.4 | 783.9 | 751.6 |
| 72.5° | 388.8 | 241.6 | 138.5 | 114.1 | 128.3 | 214.1 | 342.4 | 368.3 | 306.2 | 280.2 |
| 75° | 123.6 | 88.9 | 56.7 | 48.8 | 46.4 | 55.1 | 78.7 | 60.6 | 44.1 | 43.3 |
| 77.5° | 55.1 | 52.7 | 44.9 | 37.8 | 33.1 | 27.5 | 22.8 | 18.9 | 19.7 | 20.5 |
| 80° | 45.6 | 41.7 | 37.0 | 33.1 | 27.5 | 21.2 | 16.5 | 12.6 | 12.6 | 13.4 |
| 82.5° | 40.1 | 36.2 | 32.3 | 27.5 | 23.6 | 17.3 | 12.6 | 8.7 | 7.9 | 7.9 |
| 85° | 17.3 | 20.5 | 22.0 | 23.6 | 18.9 | 14.2 | 8.7 | 5.5 | 4.7 | 4.7 |
| 87.5° | 7.1 | 6.3 | 5.5 | 4.7 | 3.9 | 3.9 | 3.1 | 2.4 | 1.6 | 1.6 |
| 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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