

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: P941748

Luminaire Tested: **GALN-SB5B-935-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-935-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14982 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

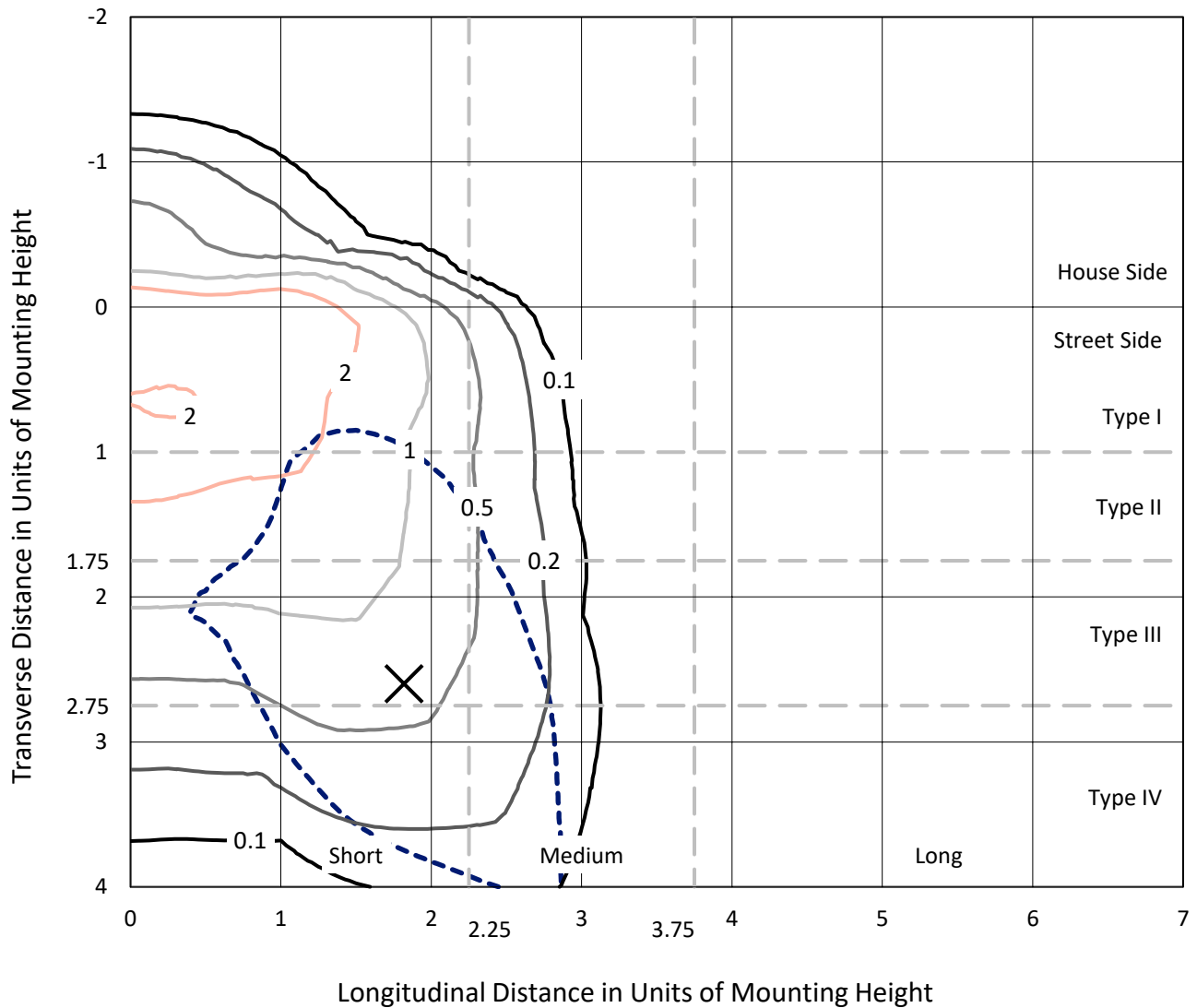
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

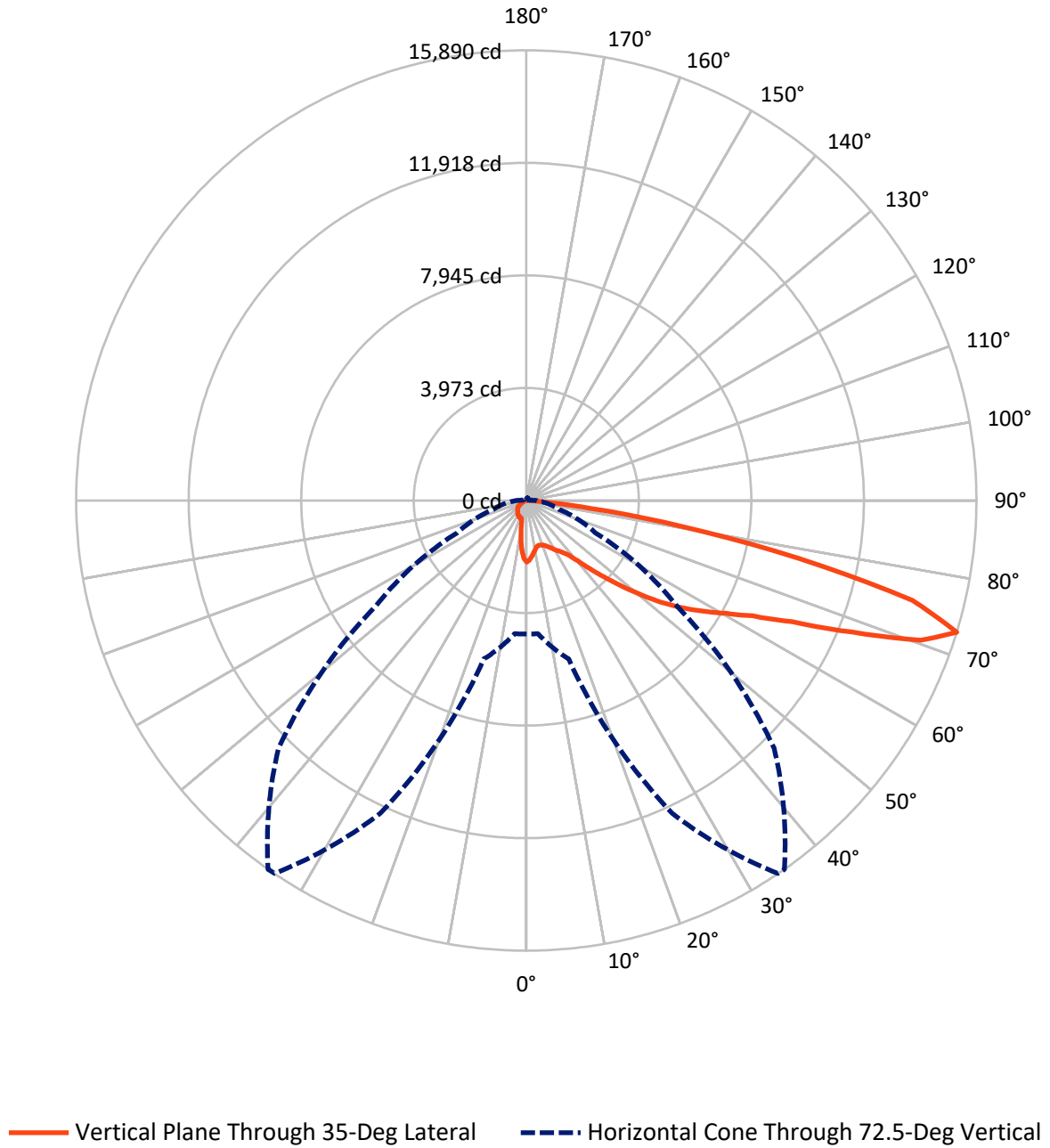
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1686.2 | 0.0 | 1686.2 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 13295.8 | 0.0 | 13295.8 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 14982.0 | 0.0 | 14982.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 178.4 | 1.2 |
| 10°-20° | 417.4 | 2.8 |
| 20°-30° | 678.1 | 4.5 |
| 30°-40° | 1131.4 | 7.6 |
| 40°-50° | 2140.6 | 14.3 |
| 50°-60° | 3401.4 | 22.7 |
| 60°-70° | 4207.8 | 28.1 |
| 70°-80° | 2615.6 | 17.5 |
| 80°-90° | 211.4 | 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° | 14982.0 | 100.0 |
| 0°-180° | 14982.0 | 100.0 |

Coefficient of Utilization



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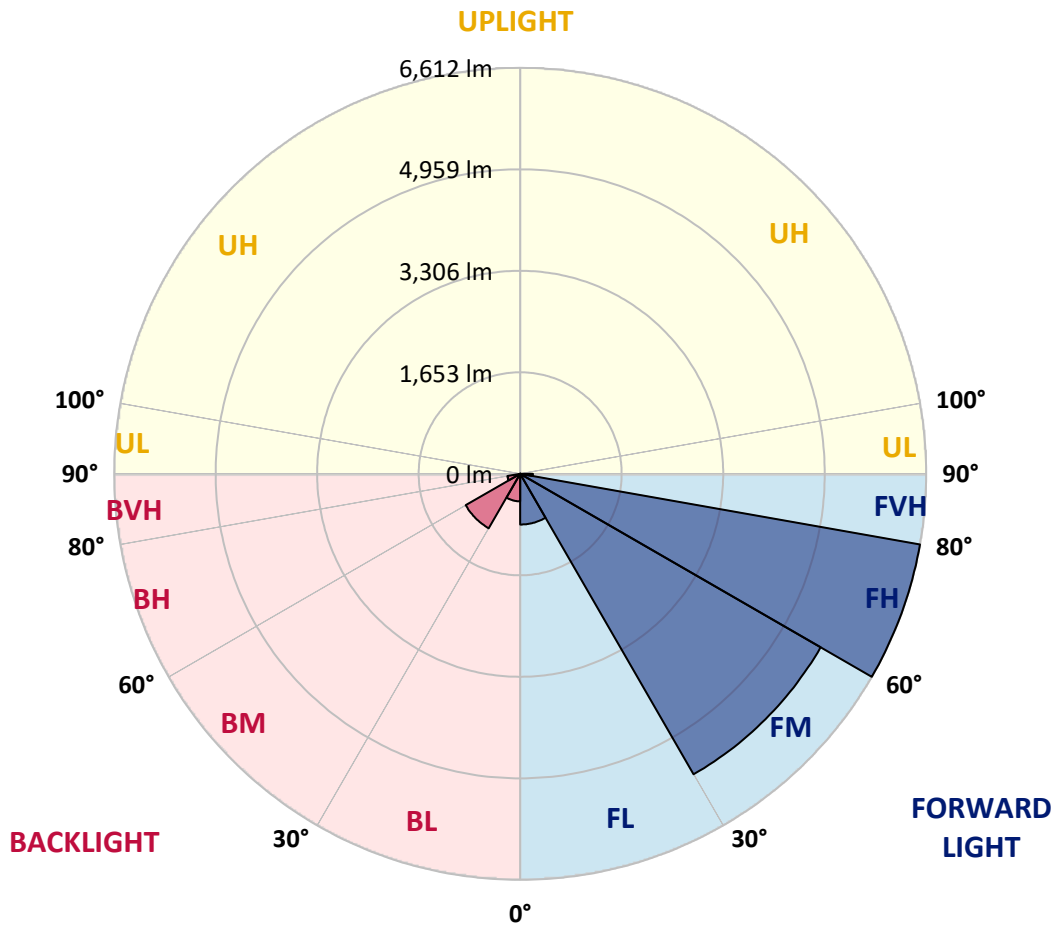
CATALOG NUMBER: GALN-SB5B-935-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 825.9 | 5.5 | | | |
| FM (30°-60°) | 5649.7 | 37.7 | | | |
| FH (60°-80°) | 6611.7 | 44.1 | | | G3/7500 |
| FVH (80°-90°) | 208.5 | 1.4 | | | G2/225 |
| BL (0°-30°) | 448.0 | 3.0 | B1/500 | | |
| BM (30°-60°) | 1023.6 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 211.6 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 |
| 2.5° | 2074.8 | 2092.4 | 2095.6 | 2101.1 | 2101.1 | 2107.7 | 2118.7 | 2134.1 | 2159.3 | 2172.5 |
| 5° | 1912.3 | 1925.5 | 1942.0 | 1955.1 | 1980.4 | 1983.7 | 2026.5 | 2068.2 | 2126.4 | 2170.3 |
| 7.5° | 1748.8 | 1764.1 | 1786.1 | 1817.9 | 1850.8 | 1860.7 | 1925.5 | 1995.8 | 2088.0 | 2170.3 |
| 10° | 1633.5 | 1634.6 | 1654.3 | 1686.2 | 1738.9 | 1750.9 | 1830.0 | 1929.9 | 2045.2 | 2157.1 |
| 12.5° | 1568.7 | 1576.4 | 1585.2 | 1609.3 | 1659.8 | 1667.5 | 1752.0 | 1869.5 | 2002.3 | 2149.4 |
| 15° | 1568.7 | 1574.2 | 1579.7 | 1591.8 | 1632.4 | 1639.0 | 1713.6 | 1831.1 | 1980.4 | 2152.7 |
| 17.5° | 1585.2 | 1594.0 | 1589.6 | 1603.8 | 1646.7 | 1651.0 | 1716.9 | 1820.1 | 1979.3 | 2173.6 |
| 20° | 1624.7 | 1631.3 | 1622.5 | 1631.3 | 1674.1 | 1682.9 | 1750.9 | 1841.0 | 1997.9 | 2209.8 |
| 22.5° | 1687.3 | 1690.6 | 1669.7 | 1676.3 | 1720.2 | 1731.2 | 1810.2 | 1900.2 | 2043.0 | 2268.0 |
| 25° | 1766.3 | 1772.9 | 1741.1 | 1748.8 | 1790.5 | 1803.6 | 1894.8 | 1989.2 | 2114.3 | 2348.1 |
| 27.5° | 1857.4 | 1860.7 | 1833.3 | 1832.2 | 1886.0 | 1904.6 | 1996.8 | 2098.9 | 2209.8 | 2449.1 |
| 30° | 1961.7 | 1971.6 | 1945.3 | 1940.9 | 2008.9 | 2024.3 | 2115.4 | 2234.0 | 2350.3 | 2600.6 |
| 32.5° | 2044.1 | 2051.7 | 2036.4 | 2047.3 | 2116.5 | 2128.6 | 2259.2 | 2425.0 | 2571.0 | 2815.8 |
| 35° | 2162.6 | 2167.0 | 2131.9 | 2151.6 | 2230.7 | 2261.4 | 2455.7 | 2692.8 | 2848.7 | 3085.8 |
| 37.5° | 2591.8 | 2591.8 | 2442.5 | 2344.8 | 2420.6 | 2448.0 | 2724.7 | 3029.9 | 3191.2 | 3448.1 |
| 40° | 3185.7 | 3175.9 | 2957.4 | 2757.6 | 2747.7 | 2801.5 | 3107.8 | 3454.7 | 3633.6 | 3882.8 |
| 42.5° | 3819.2 | 3803.8 | 3506.3 | 3308.7 | 3275.8 | 3294.4 | 3550.2 | 3978.3 | 4160.6 | 4413.0 |
| 45° | 4381.2 | 4376.8 | 4104.6 | 3838.9 | 3779.6 | 3838.9 | 4102.4 | 4590.9 | 4721.5 | 4987.2 |
| 47.5° | 4852.2 | 4852.2 | 4653.5 | 4480.0 | 4449.3 | 4484.4 | 4850.0 | 5270.4 | 5258.3 | 5598.6 |
| 50° | 5394.5 | 5390.1 | 5201.2 | 5126.6 | 5158.4 | 5207.8 | 5710.6 | 5986.2 | 5813.8 | 6199.1 |
| 52.5° | 5774.3 | 5800.6 | 5735.9 | 5723.8 | 5886.3 | 5971.9 | 6584.4 | 6686.5 | 6311.1 | 6768.9 |
| 55° | 6075.1 | 6105.8 | 6180.5 | 6265.0 | 6577.9 | 6689.8 | 7430.8 | 7350.7 | 6727.2 | 7262.9 |
| 57.5° | 6501.0 | 6457.1 | 6572.4 | 6739.2 | 7245.3 | 7380.3 | 8250.9 | 7977.5 | 7062.0 | 7663.6 |
| 60° | 7018.1 | 7024.6 | 7044.4 | 7255.2 | 7911.6 | 8085.1 | 9058.8 | 8570.3 | 7277.1 | 7909.5 |
| 62.5° | 7639.4 | 7649.3 | 7689.9 | 8013.7 | 8806.3 | 8969.9 | 9919.5 | 9055.5 | 7375.9 | 7840.3 |
| 65° | 7596.6 | 7638.3 | 8091.7 | 9199.3 | 10166.5 | 10327.8 | 10923.9 | 9395.8 | 7226.6 | 7208.0 |
| 67.5° | 6920.4 | 6988.4 | 7747.0 | 10615.5 | 12217.1 | 12397.1 | 12138.1 | 9462.8 | 6582.2 | 5605.2 |
| 70° | 6033.4 | 6057.5 | 6969.8 | 11888.9 | 14591.6 | 14773.8 | 13224.9 | 8726.2 | 4994.9 | 3126.5 |
| 72.5° | 4711.6 | 4717.1 | 5787.5 | 12184.2 | 15880.4 | 15890.3 | 12371.9 | 6478.0 | 2686.2 | 1201.0 |
| 75° | 3365.8 | 3332.8 | 3876.2 | 9881.1 | 13971.4 | 14083.3 | 9275.1 | 3038.6 | 1026.4 | 567.5 |
| 77.5° | 1804.7 | 1841.0 | 2193.3 | 5859.9 | 9651.6 | 9842.6 | 5060.7 | 876.0 | 522.5 | 386.4 |
| 80° | 557.7 | 588.4 | 899.1 | 2683.0 | 5466.9 | 5582.2 | 1876.1 | 389.7 | 364.5 | 275.5 |
| 82.5° | 175.6 | 182.2 | 419.3 | 1127.4 | 2269.1 | 2321.8 | 543.4 | 220.7 | 249.2 | 182.2 |
| 85° | 50.5 | 51.6 | 186.6 | 420.4 | 561.0 | 571.9 | 152.6 | 85.6 | 142.7 | 113.1 |
| 87.5° | 5.5 | 17.6 | 70.3 | 70.3 | 49.4 | 48.3 | 16.5 | 18.7 | 40.6 | 14.3 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2171.4 | 0° | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 | 2171.4 |
| 2181.3 | 2.5° | 2175.8 | 2176.9 | 2162.6 | 2138.5 | 2112.1 | 2090.2 | 2062.7 | 2040.8 | 2025.4 | 2021.0 |
| 2201.0 | 5° | 2191.2 | 2183.5 | 2142.9 | 2069.3 | 1981.5 | 1905.7 | 1821.2 | 1754.2 | 1710.3 | 1691.7 |
| 2221.9 | 7.5° | 2214.2 | 2192.3 | 2103.3 | 1958.4 | 1790.5 | 1641.2 | 1489.7 | 1372.2 | 1297.6 | 1260.2 |
| 2241.7 | 10° | 2234.0 | 2190.1 | 2037.5 | 1798.2 | 1541.3 | 1315.1 | 1110.9 | 969.3 | 890.3 | 853.0 |
| 2264.7 | 12.5° | 2252.6 | 2189.0 | 1951.8 | 1608.2 | 1260.2 | 983.6 | 793.7 | 723.4 | 701.5 | 693.8 |
| 2302.0 | 15° | 2287.8 | 2192.3 | 1844.3 | 1390.9 | 980.3 | 743.2 | 674.0 | 672.9 | 677.3 | 675.1 |
| 2359.1 | 17.5° | 2336.1 | 2195.5 | 1722.4 | 1160.3 | 756.4 | 655.4 | 652.1 | 662.0 | 668.5 | 665.3 |
| 2430.5 | 20° | 2398.6 | 2208.7 | 1592.9 | 932.0 | 649.9 | 633.4 | 641.1 | 649.9 | 655.4 | 649.9 |
| 2526.0 | 22.5° | 2486.5 | 2231.8 | 1451.3 | 748.7 | 615.9 | 620.2 | 626.8 | 636.7 | 642.2 | 634.5 |
| 2647.8 | 25° | 2594.0 | 2268.0 | 1311.8 | 651.0 | 599.4 | 604.9 | 614.8 | 625.7 | 632.3 | 624.6 |
| 2801.5 | 27.5° | 2733.5 | 2326.2 | 1183.4 | 629.0 | 582.9 | 586.2 | 600.5 | 616.9 | 625.7 | 615.9 |
| 3020.0 | 30° | 2935.4 | 2421.7 | 1072.5 | 638.9 | 573.0 | 565.4 | 585.1 | 608.2 | 618.0 | 609.3 |
| 3317.5 | 32.5° | 3203.3 | 2556.7 | 1004.5 | 654.3 | 568.6 | 541.2 | 559.9 | 589.5 | 606.0 | 600.5 |
| 3706.1 | 35° | 3554.6 | 2762.0 | 978.1 | 671.8 | 565.4 | 516.0 | 529.1 | 561.0 | 589.5 | 595.0 |
| 4195.7 | 37.5° | 3980.5 | 3047.4 | 985.8 | 679.5 | 555.5 | 495.1 | 501.7 | 529.1 | 566.5 | 584.0 |
| 4746.8 | 40° | 4464.6 | 3380.0 | 1029.7 | 671.8 | 544.5 | 477.5 | 478.6 | 499.5 | 532.4 | 558.8 |
| 5339.6 | 42.5° | 4964.1 | 3768.7 | 1110.9 | 643.3 | 534.6 | 462.2 | 458.9 | 473.1 | 495.1 | 513.8 |
| 5931.3 | 45° | 5439.5 | 4168.2 | 1191.1 | 603.8 | 522.5 | 446.8 | 439.1 | 444.6 | 449.0 | 456.7 |
| 6507.6 | 47.5° | 5854.4 | 4449.3 | 1168.0 | 567.5 | 506.1 | 429.2 | 416.1 | 413.9 | 400.7 | 399.6 |
| 7022.5 | 50° | 6140.9 | 4510.7 | 1037.4 | 531.3 | 481.9 | 409.5 | 388.6 | 375.4 | 352.4 | 341.4 |
| 7407.8 | 52.5° | 6232.1 | 4268.1 | 847.5 | 495.1 | 442.4 | 383.1 | 353.5 | 332.6 | 304.1 | 294.2 |
| 7629.5 | 55° | 6111.3 | 3792.8 | 677.3 | 451.2 | 387.5 | 348.0 | 315.1 | 287.6 | 264.6 | 252.5 |
| 7653.7 | 57.5° | 5816.0 | 3187.9 | 535.7 | 399.6 | 329.3 | 308.5 | 275.5 | 248.1 | 228.3 | 216.3 |
| 7385.8 | 60° | 5326.4 | 2531.5 | 423.7 | 338.1 | 281.0 | 265.7 | 231.6 | 214.1 | 196.5 | 182.2 |
| 6694.2 | 62.5° | 4583.2 | 1806.9 | 332.6 | 267.9 | 234.9 | 217.4 | 197.6 | 184.4 | 163.6 | 143.8 |
| 5450.4 | 65° | 3576.5 | 1105.5 | 256.9 | 196.5 | 188.8 | 180.0 | 168.0 | 155.9 | 130.6 | 110.9 |
| 3555.7 | 67.5° | 2255.9 | 523.6 | 183.3 | 148.2 | 149.3 | 144.9 | 139.4 | 129.5 | 110.9 | 93.3 |
| 1592.9 | 70° | 993.5 | 253.6 | 120.8 | 113.1 | 110.9 | 110.9 | 115.3 | 112.0 | 94.4 | 77.9 |
| 553.3 | 72.5° | 338.1 | 136.1 | 90.0 | 85.6 | 80.1 | 79.0 | 96.6 | 93.3 | 75.7 | 60.4 |
| 275.5 | 75° | 176.7 | 91.1 | 65.9 | 61.5 | 48.3 | 58.2 | 76.8 | 72.5 | 53.8 | 39.5 |
| 182.2 | 77.5° | 115.3 | 64.8 | 45.0 | 39.5 | 27.4 | 38.4 | 57.1 | 50.5 | 31.8 | 19.8 |
| 119.7 | 80° | 72.5 | 42.8 | 26.3 | 18.7 | 13.2 | 20.9 | 30.7 | 22.0 | 12.1 | 4.4 |
| 70.3 | 82.5° | 38.4 | 22.0 | 9.9 | 6.6 | 5.5 | 6.6 | 7.7 | 5.5 | 2.2 | 0.0 |
| 36.2 | 85° | 15.4 | 7.7 | 3.3 | 2.2 | 1.1 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 |
| 6.6 | 87.5° | 5.5 | 1.1 | 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 O

| <u>180°</u> |
|-------------|
| 2171.4 |
| 2028.7 |
| 1698.3 |
| 1265.7 |
| 854.1 |
| 691.6 |
| 674.0 |
| 664.2 |
| 648.8 |
| 633.4 |
| 623.5 |
| 615.9 |
| 608.2 |
| 600.5 |
| 595.0 |
| 588.4 |
| 567.5 |
| 521.4 |
| 461.1 |
| 398.5 |
| 342.5 |
| 293.1 |
| 252.5 |
| 214.1 |
| 178.9 |
| 140.5 |
| 107.6 |
| 91.1 |
| 74.6 |
| 57.1 |
| 36.2 |
| 17.6 |
| 3.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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