

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: P647210

Luminaire Tested: **GALN-SA1D-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6188.8 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

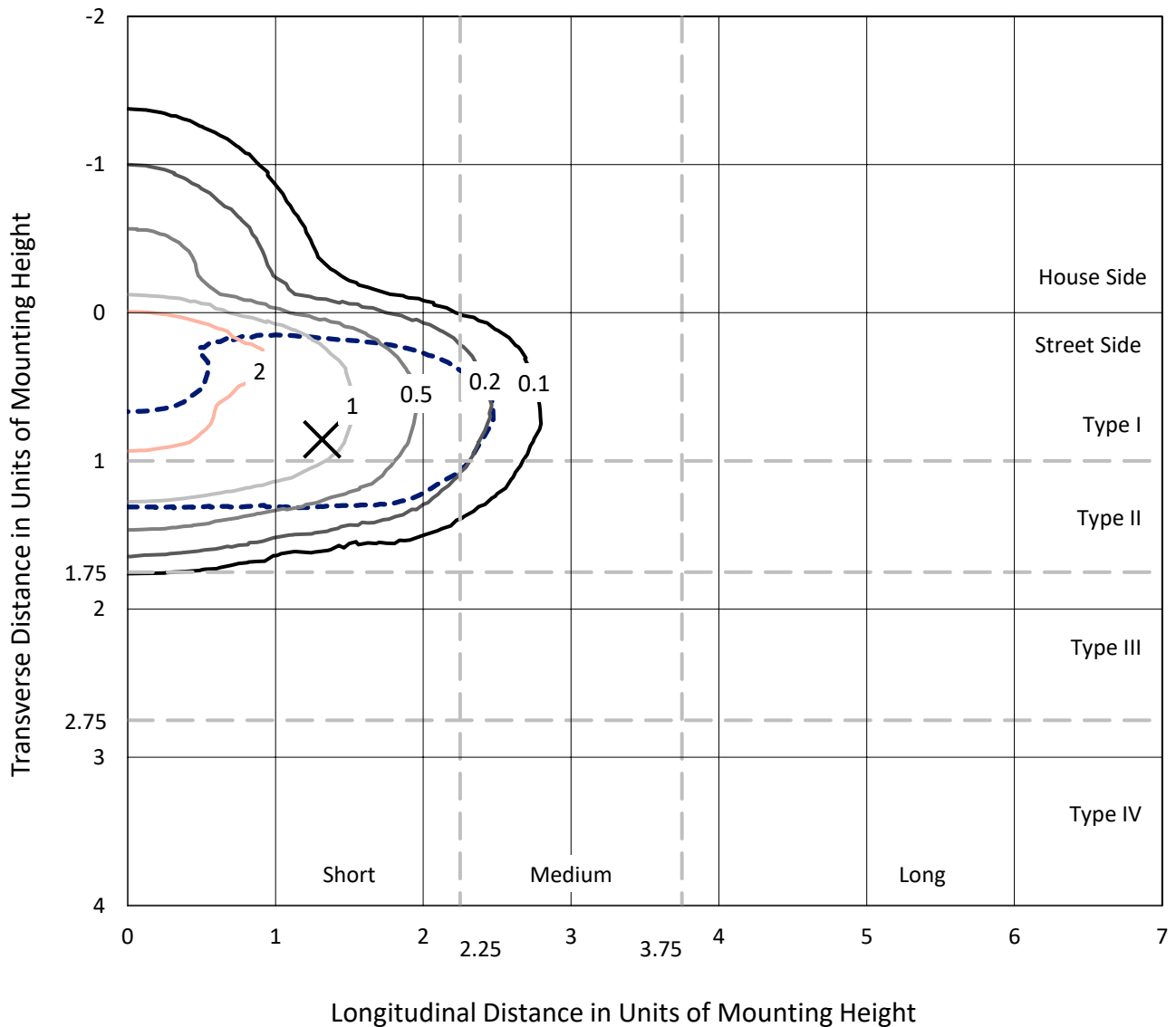
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

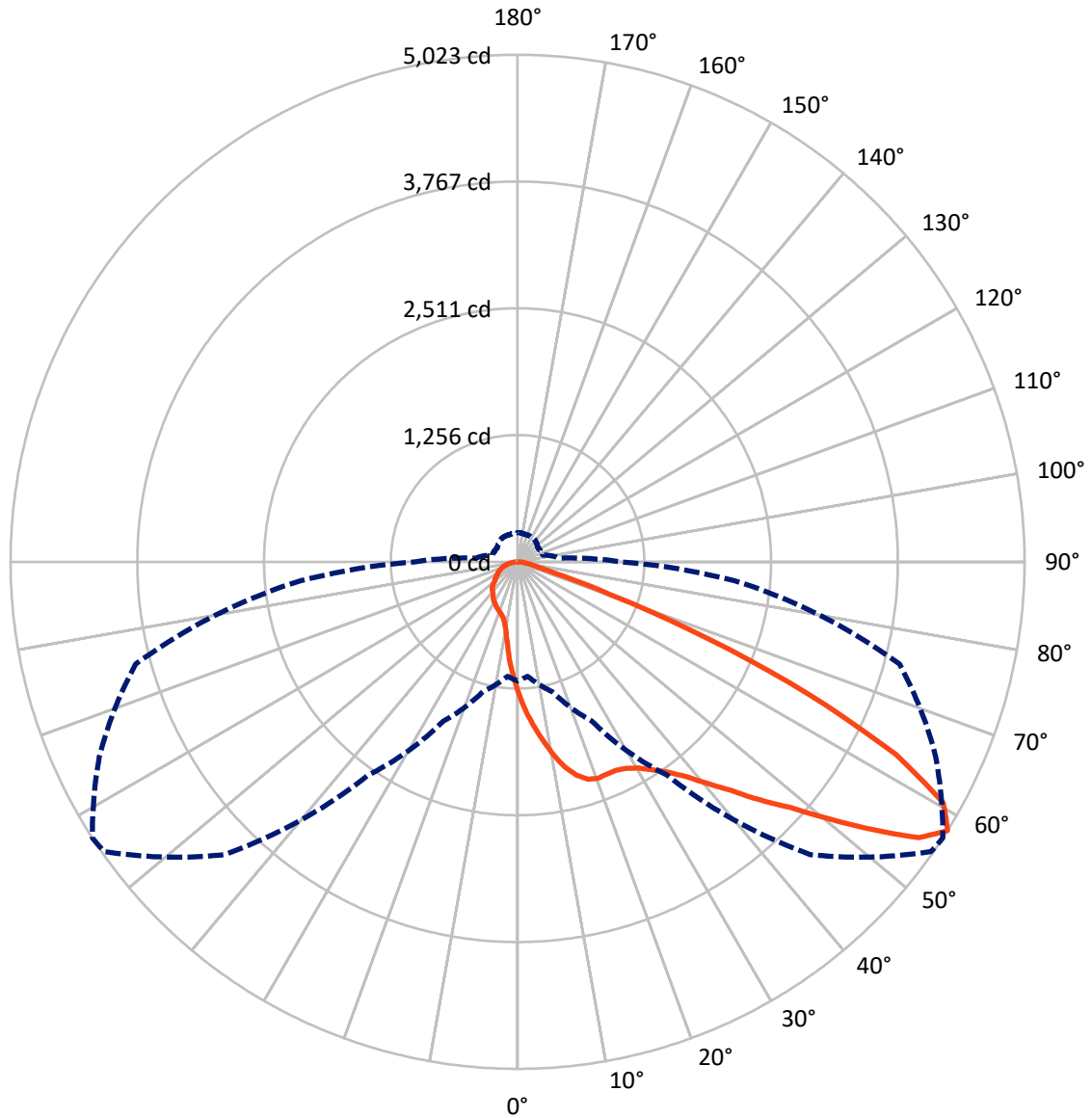
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 941.1 | 0.0 | 941.1 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 5247.7 | 0.0 | 5247.7 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 6188.8 | 0.0 | 6188.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.0 | 2.0 |
| 10°-20° | 368.3 | 6.0 |
| 20°-30° | 611.5 | 9.9 |
| 30°-40° | 921.1 | 14.9 |
| 40°-50° | 1383.0 | 22.3 |
| 50°-60° | 1550.1 | 25.0 |
| 60°-70° | 907.2 | 14.7 |
| 70°-80° | 268.4 | 4.3 |
| 80°-90° | 54.2 | 0.9 |
| 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° | 6188.8 | 100.0 |
| 0°-180° | 6188.8 | 100.0 |

Coefficient of Utilization

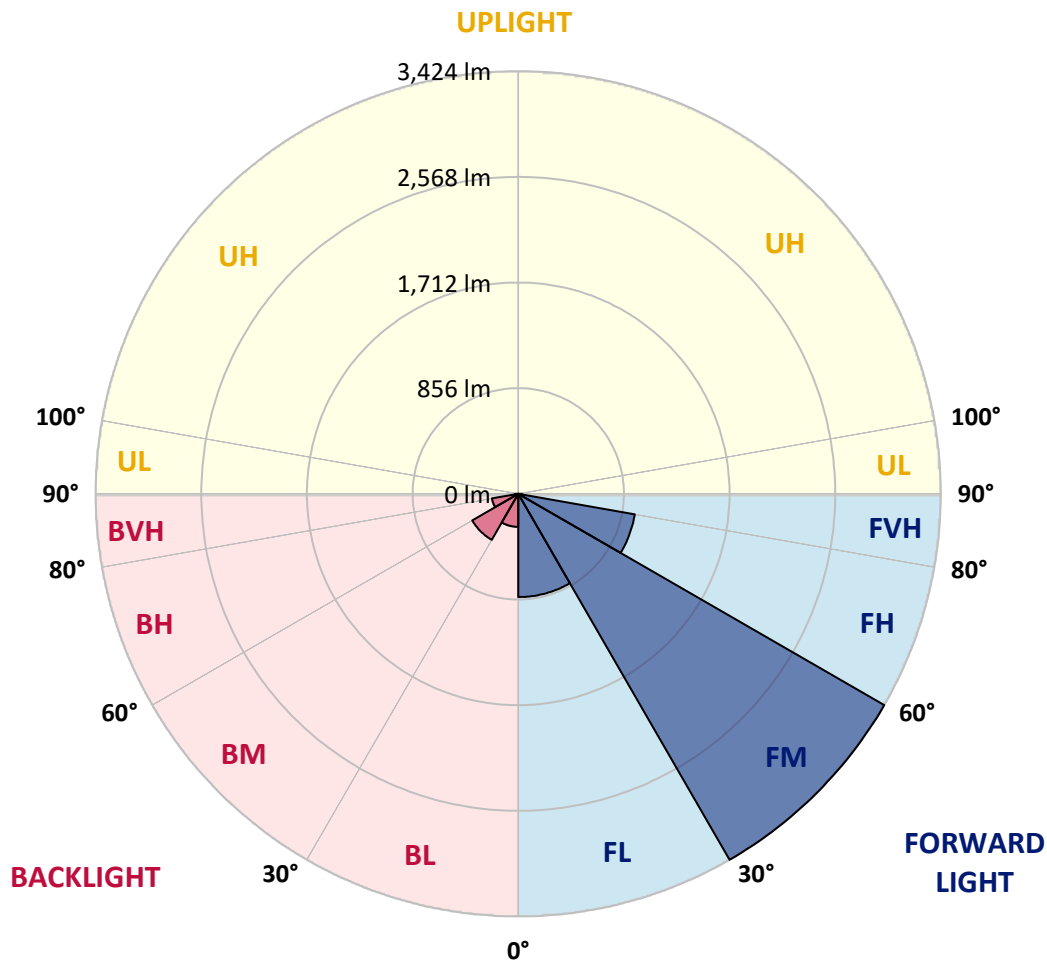


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 836.6 | 13.5 | | | |
| FM (30°-60°) | 3423.9 | 55.3 | | | |
| FH (60°-80°) | 959.0 | 15.5 | | | G1/1800 |
| FVH (80°-90°) | 28.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 268.2 | 4.3 | B1/500 | | |
| BM (30°-60°) | 430.3 | 7.0 | B1/1000 | | |
| BH (60°-80°) | 216.6 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 26.1 | 0.4 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 |
| 2.5° | 1615.6 | 1597.9 | 1584.1 | 1571.9 | 1556.0 | 1512.9 | 1469.9 | 1469.2 | 1435.0 | 1382.2 | 1328.0 |
| 5° | 1878.8 | 1855.1 | 1858.1 | 1820.2 | 1782.3 | 1719.9 | 1628.8 | 1624.1 | 1551.2 | 1452.3 | 1351.7 |
| 7.5° | 2050.2 | 2050.6 | 2041.1 | 2019.4 | 1978.4 | 1907.6 | 1804.3 | 1780.9 | 1679.6 | 1529.5 | 1378.8 |
| 10° | 2041.4 | 2050.6 | 2066.5 | 2085.1 | 2097.7 | 2062.8 | 1968.6 | 1940.1 | 1808.3 | 1623.1 | 1408.9 |
| 12.5° | 1924.2 | 1938.5 | 1961.2 | 2007.9 | 2083.4 | 2141.0 | 2108.9 | 2085.8 | 1957.4 | 1716.2 | 1442.1 |
| 15° | 1851.0 | 1859.5 | 1872.1 | 1903.6 | 1984.8 | 2122.7 | 2206.1 | 2193.9 | 2098.0 | 1821.6 | 1479.4 |
| 17.5° | 1828.7 | 1837.2 | 1841.2 | 1860.6 | 1918.4 | 2059.8 | 2244.4 | 2266.0 | 2222.7 | 1918.4 | 1517.0 |
| 20° | 1851.0 | 1855.1 | 1855.1 | 1866.6 | 1912.0 | 2022.8 | 2242.7 | 2286.4 | 2325.0 | 2034.6 | 1552.2 |
| 22.5° | 1909.7 | 1911.4 | 1909.0 | 1913.0 | 1946.9 | 2033.0 | 2226.8 | 2281.0 | 2407.6 | 2133.2 | 1579.7 |
| 25° | 2004.9 | 2007.5 | 1992.0 | 1982.5 | 2007.2 | 2077.7 | 2235.5 | 2285.3 | 2472.3 | 2227.4 | 1597.9 |
| 27.5° | 2112.9 | 2116.3 | 2097.3 | 2075.3 | 2086.9 | 2132.9 | 2270.1 | 2314.8 | 2520.8 | 2320.3 | 1609.5 |
| 30° | 2245.4 | 2246.7 | 2214.9 | 2188.5 | 2181.0 | 2215.2 | 2329.0 | 2370.7 | 2581.1 | 2429.6 | 1626.8 |
| 32.5° | 2380.9 | 2391.0 | 2350.0 | 2312.8 | 2300.2 | 2310.8 | 2416.1 | 2456.4 | 2652.9 | 2547.3 | 1654.6 |
| 35° | 2565.2 | 2566.8 | 2517.7 | 2472.3 | 2431.1 | 2444.6 | 2527.6 | 2556.7 | 2752.2 | 2683.0 | 1693.9 |
| 37.5° | 2795.2 | 2810.8 | 2743.0 | 2658.4 | 2607.5 | 2587.9 | 2662.4 | 2694.2 | 2891.4 | 2849.7 | 1753.1 |
| 40° | 3050.6 | 3056.4 | 2998.5 | 2945.6 | 2852.8 | 2795.9 | 2847.4 | 2881.9 | 3063.2 | 3048.6 | 1821.9 |
| 42.5° | 3211.2 | 3223.8 | 3228.2 | 3222.7 | 3152.9 | 3057.4 | 3077.0 | 3093.3 | 3266.4 | 3235.3 | 1892.4 |
| 45° | 3265.4 | 3284.1 | 3347.1 | 3480.5 | 3488.0 | 3393.8 | 3348.1 | 3363.7 | 3488.0 | 3423.6 | 1959.8 |
| 47.5° | 3175.6 | 3207.5 | 3323.7 | 3597.4 | 3802.3 | 3809.5 | 3671.6 | 3637.3 | 3689.9 | 3579.8 | 2008.6 |
| 50° | 2943.6 | 2950.3 | 3128.2 | 3524.6 | 3949.8 | 4206.8 | 4064.2 | 4000.6 | 3881.6 | 3695.3 | 2042.1 |
| 52.5° | 2584.4 | 2592.3 | 2741.4 | 3186.1 | 3858.9 | 4484.6 | 4523.6 | 4409.8 | 4076.5 | 3785.1 | 2064.1 |
| 55° | 1918.4 | 1963.5 | 2127.5 | 2557.4 | 3428.7 | 4458.6 | 4888.8 | 4824.1 | 4311.9 | 3856.2 | 2098.7 |
| 57.5° | 1179.6 | 1138.2 | 1332.7 | 1739.9 | 2578.7 | 4100.2 | 5001.6 | 5022.6 | 4571.0 | 3915.9 | 2156.6 |
| 60° | 542.7 | 550.8 | 631.1 | 897.4 | 1571.9 | 3207.5 | 4710.9 | 4843.7 | 4714.4 | 3913.8 | 2171.2 |
| 62.5° | 374.0 | 366.5 | 346.2 | 394.0 | 716.8 | 2028.6 | 3979.2 | 4204.2 | 4427.1 | 3792.2 | 2113.2 |
| 65° | 334.3 | 326.9 | 287.6 | 274.4 | 329.3 | 884.2 | 2892.8 | 3176.6 | 3727.5 | 3485.3 | 1968.9 |
| 67.5° | 312.3 | 302.2 | 261.5 | 235.8 | 235.1 | 352.0 | 1705.7 | 2047.5 | 2764.7 | 2946.7 | 1706.1 |
| 70° | 289.3 | 281.2 | 240.9 | 212.4 | 200.2 | 221.2 | 749.7 | 981.4 | 1795.2 | 2123.4 | 1329.0 |
| 72.5° | 266.3 | 256.8 | 220.6 | 190.0 | 174.1 | 165.7 | 287.3 | 373.6 | 1014.3 | 1273.1 | 814.7 |
| 75° | 232.7 | 228.0 | 197.2 | 172.1 | 154.8 | 133.8 | 182.3 | 208.0 | 485.1 | 584.7 | 408.9 |
| 77.5° | 203.6 | 198.5 | 175.2 | 150.4 | 137.9 | 108.8 | 129.4 | 141.3 | 204.6 | 237.2 | 184.6 |
| 80° | 149.1 | 154.2 | 147.7 | 132.8 | 123.0 | 85.3 | 87.1 | 96.9 | 121.6 | 134.5 | 112.8 |
| 82.5° | 94.5 | 104.0 | 113.8 | 102.3 | 93.2 | 67.4 | 60.3 | 64.0 | 83.0 | 88.1 | 50.1 |
| 85° | 39.6 | 40.3 | 66.1 | 62.3 | 53.2 | 40.0 | 36.3 | 38.3 | 44.4 | 46.4 | 23.4 |
| 87.5° | 15.3 | 14.9 | 23.4 | 21.7 | 16.6 | 11.5 | 11.5 | 12.8 | 17.6 | 16.3 | 7.4 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 | 1300.2 |
| 2.5° | 1304.6 | 1280.5 | 1232.8 | 1173.5 | 1130.1 | 1081.3 | 1038.3 | 1007.5 | 996.0 | 990.6 | 980.4 |
| 5° | 1303.6 | 1256.2 | 1157.3 | 1053.6 | 970.2 | 884.9 | 812.7 | 765.9 | 761.9 | 730.7 | 727.6 |
| 7.5° | 1303.9 | 1231.4 | 1073.9 | 921.4 | 794.4 | 707.0 | 647.4 | 631.8 | 613.2 | 608.5 | 610.8 |
| 10° | 1304.9 | 1199.9 | 984.5 | 790.7 | 667.7 | 610.4 | 588.1 | 582.0 | 582.7 | 584.7 | 585.1 |
| 12.5° | 1306.3 | 1169.4 | 891.7 | 691.5 | 596.6 | 572.8 | 570.5 | 575.9 | 581.7 | 586.1 | 587.1 |
| 15° | 1308.0 | 1134.6 | 801.2 | 611.4 | 561.0 | 559.0 | 566.7 | 575.9 | 584.0 | 590.5 | 591.5 |
| 17.5° | 1306.0 | 1093.9 | 725.3 | 562.4 | 541.4 | 551.2 | 564.1 | 575.6 | 583.0 | 589.1 | 589.8 |
| 20° | 1301.2 | 1048.5 | 652.2 | 527.8 | 529.2 | 545.0 | 559.0 | 569.8 | 577.9 | 581.0 | 583.3 |
| 22.5° | 1282.9 | 994.3 | 588.4 | 501.0 | 514.6 | 536.6 | 553.2 | 559.7 | 550.5 | 544.0 | 545.8 |
| 25° | 1251.8 | 923.9 | 529.2 | 479.4 | 501.4 | 524.8 | 541.7 | 526.1 | 518.7 | 515.9 | 517.3 |
| 27.5° | 1212.8 | 846.6 | 484.4 | 456.6 | 484.4 | 511.5 | 506.8 | 504.1 | 500.7 | 496.3 | 497.3 |
| 30° | 1170.8 | 771.0 | 446.5 | 439.0 | 466.1 | 481.7 | 483.7 | 488.2 | 484.4 | 477.6 | 480.4 |
| 32.5° | 1131.8 | 699.9 | 417.7 | 424.2 | 453.3 | 450.9 | 466.1 | 471.2 | 454.0 | 431.3 | 432.3 |
| 35° | 1098.6 | 633.8 | 396.0 | 409.6 | 431.3 | 432.3 | 447.5 | 429.9 | 411.2 | 400.4 | 401.1 |
| 37.5° | 1073.6 | 582.3 | 381.8 | 397.1 | 403.2 | 416.0 | 407.9 | 398.7 | 396.4 | 388.9 | 389.2 |
| 40° | 1058.7 | 537.3 | 372.6 | 387.2 | 386.2 | 395.0 | 368.9 | 378.0 | 381.5 | 379.1 | 379.4 |
| 42.5° | 1043.7 | 505.4 | 363.2 | 373.6 | 373.3 | 356.0 | 350.3 | 358.1 | 366.9 | 367.9 | 367.2 |
| 45° | 1031.9 | 480.7 | 353.4 | 353.0 | 359.8 | 332.7 | 331.0 | 335.8 | 348.3 | 354.4 | 354.0 |
| 47.5° | 1018.7 | 460.0 | 338.4 | 328.9 | 331.0 | 318.1 | 315.4 | 317.4 | 332.7 | 342.5 | 345.2 |
| 50° | 1002.1 | 439.4 | 319.8 | 306.9 | 298.5 | 304.6 | 305.2 | 305.6 | 320.8 | 332.0 | 334.3 |
| 52.5° | 988.9 | 423.8 | 298.5 | 289.0 | 278.8 | 292.4 | 297.5 | 298.1 | 307.2 | 316.4 | 318.1 |
| 55° | 996.7 | 415.0 | 277.4 | 270.7 | 261.5 | 279.8 | 289.6 | 291.0 | 293.0 | 299.8 | 300.8 |
| 57.5° | 1020.0 | 417.0 | 260.5 | 251.7 | 244.9 | 264.9 | 281.5 | 282.5 | 281.2 | 289.3 | 290.6 |
| 60° | 1027.1 | 416.0 | 248.0 | 230.7 | 226.6 | 249.0 | 269.7 | 271.7 | 271.4 | 283.2 | 285.6 |
| 62.5° | 997.3 | 403.2 | 235.4 | 213.1 | 210.4 | 232.7 | 253.1 | 261.2 | 262.9 | 279.8 | 282.9 |
| 65° | 927.2 | 376.7 | 218.8 | 194.4 | 194.4 | 215.5 | 237.2 | 248.3 | 253.1 | 275.8 | 279.1 |
| 67.5° | 834.8 | 345.5 | 201.9 | 178.5 | 177.8 | 198.9 | 220.2 | 231.7 | 239.2 | 270.0 | 272.0 |
| 70° | 692.8 | 303.6 | 180.9 | 161.2 | 161.2 | 180.2 | 199.5 | 213.4 | 224.3 | 259.2 | 259.2 |
| 72.5° | 474.7 | 252.4 | 155.5 | 141.6 | 142.0 | 159.6 | 179.2 | 194.8 | 207.7 | 237.5 | 238.2 |
| 75° | 300.1 | 197.2 | 127.7 | 120.6 | 122.0 | 138.6 | 158.9 | 175.2 | 200.9 | 234.7 | 235.8 |
| 77.5° | 159.6 | 138.6 | 101.6 | 99.9 | 101.6 | 116.9 | 139.6 | 161.9 | 201.5 | 203.6 | 200.2 |
| 80° | 103.4 | 98.3 | 80.3 | 76.9 | 77.6 | 94.2 | 124.3 | 153.8 | 161.9 | 164.0 | 156.5 |
| 82.5° | 56.2 | 62.3 | 56.9 | 53.6 | 53.6 | 73.5 | 106.0 | 122.3 | 116.2 | 96.5 | 92.2 |
| 85° | 24.0 | 29.1 | 29.4 | 25.8 | 24.7 | 45.4 | 71.2 | 66.7 | 62.0 | 59.3 | 58.6 |
| 87.5° | 6.8 | 9.5 | 9.5 | 7.1 | 5.4 | 12.5 | 14.3 | 4.1 | 0.0 | 0.3 | 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 |

(END OF REPORT)