

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: P526706

Luminaire Tested: **GALN-SA1C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

#### Test Information

Test Method: LM-79-08  
Report Number: P526706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-830-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4741 lumens  
Efficiency: N/A  
Efficacy: 83.2 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

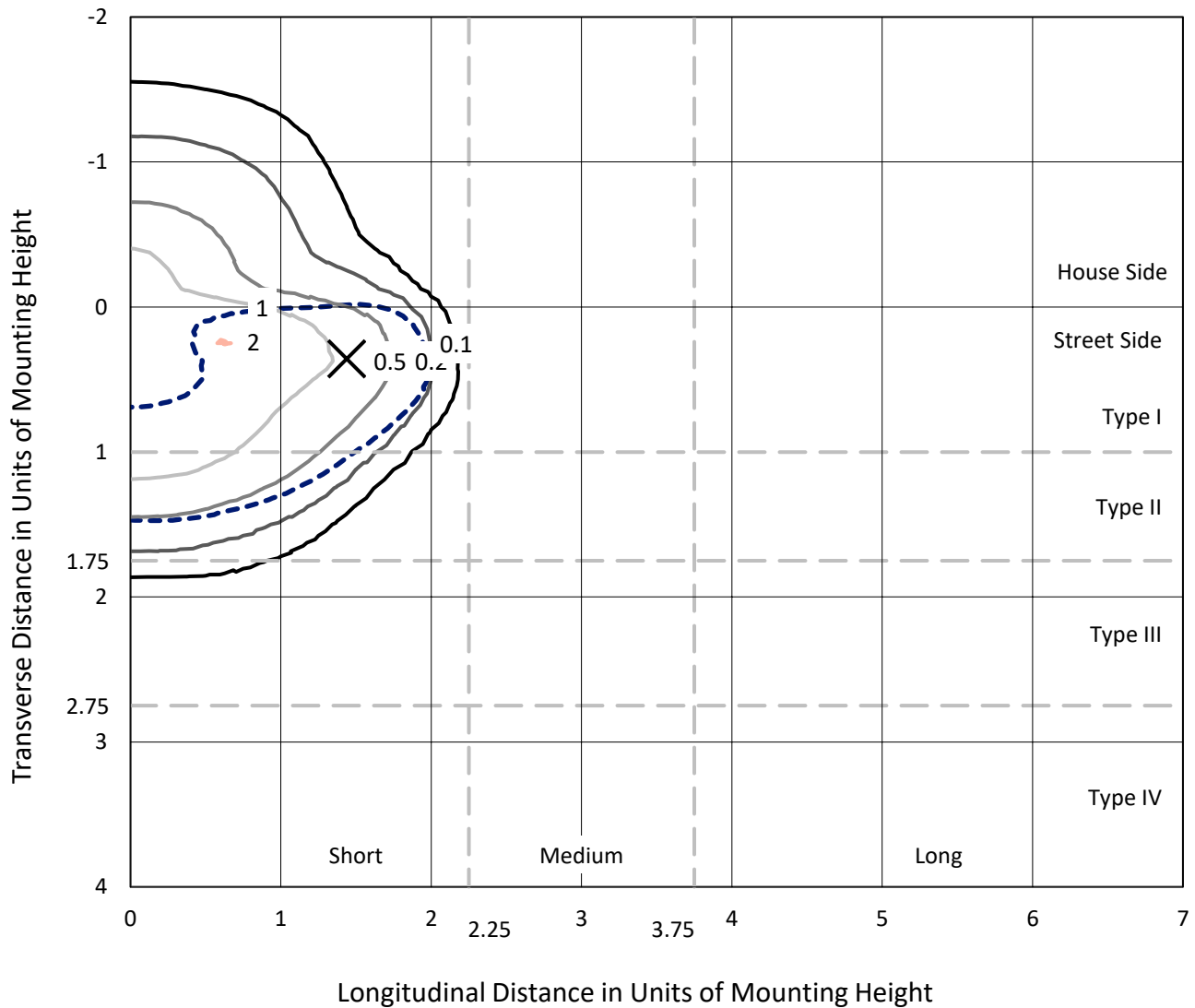
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

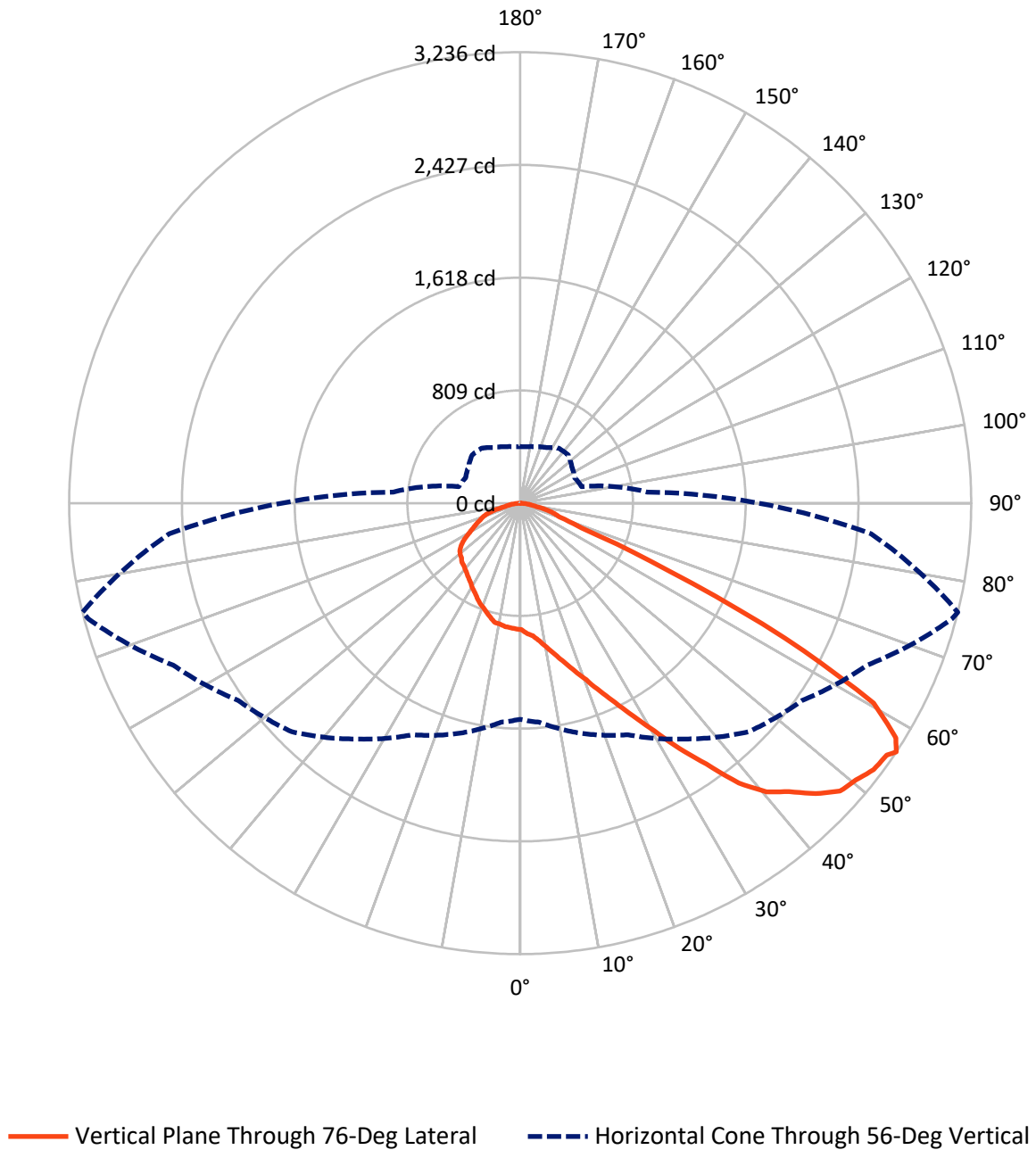
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1274.7   | 0.0    | 1274.7 |
|                    | % Fixture | 26.9     | 0.0    | 26.9   |
| <b>Street Side</b> | Lumens    | 3466.3   | 0.0    | 3466.3 |
|                    | % Fixture | 73.1     | 0.0    | 73.1   |
| <b>Total</b>       | Lumens    | 4741.0   | 0.0    | 4741.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.0   | 1.9       |
| 10°-20°   | 282.6  | 6.0       |
| 20°-30°   | 494.2  | 10.4      |
| 30°-40°   | 773.8  | 16.3      |
| 40°-50°   | 1125.7 | 23.7      |
| 50°-60°   | 1237.2 | 26.1      |
| 60°-70°   | 552.2  | 11.6      |
| 70°-80°   | 159.5  | 3.4       |
| 80°-90°   | 25.9   | 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°    | 4741.0 | 100.0     |
| 0°-180°   | 4741.0 | 100.0     |

**Coefficient of Utilization**



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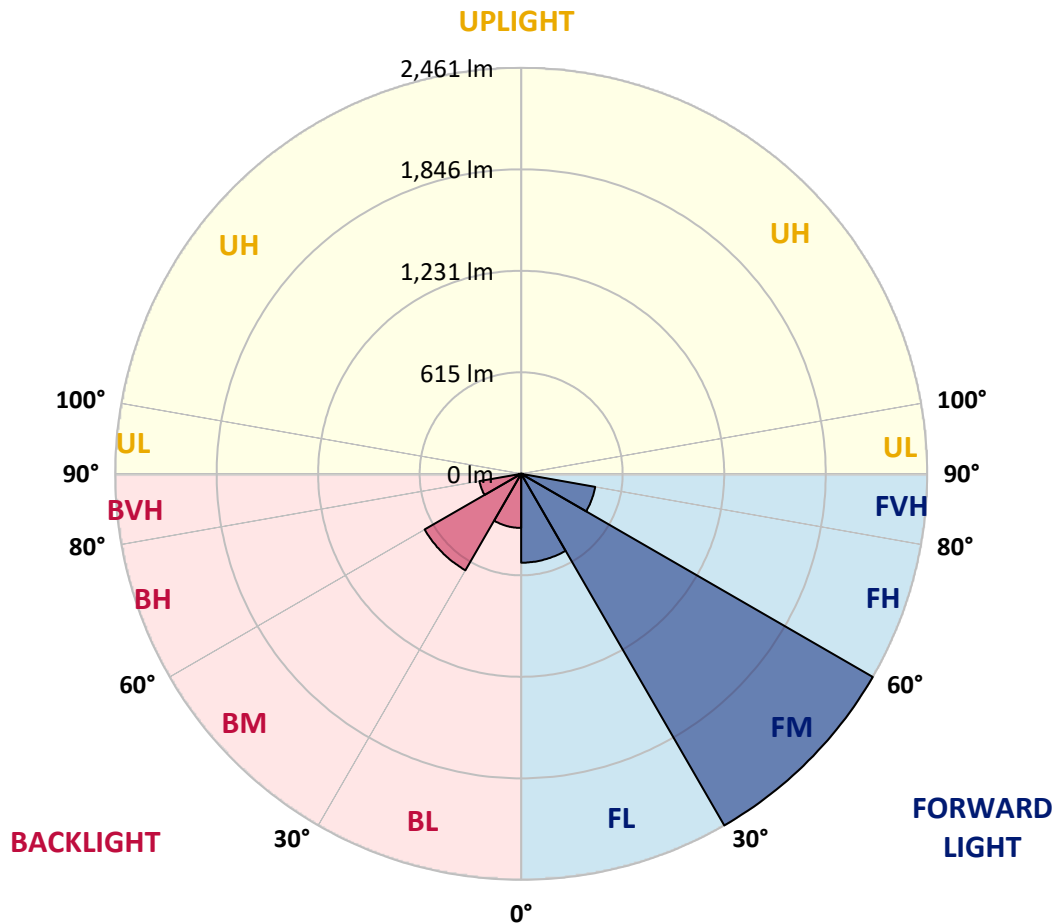
CATALOG NUMBER: GALN-SA1C-830-U-T2-GRSWH

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 538.8  | 11.4      |                         |      |        |
| FM   | (30°-60°)   | 2461.1 | 51.9      |                         |      |        |
| FH   | (60°-80°)   | 455.2  | 9.6       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 11.1   | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 328.0  | 6.9       | B1/500                  |      |        |
| BM   | (30°-60°)   | 675.5  | 14.2      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 256.5  | 5.4       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 14.7   | 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 II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 907.1  | 907.1  | 907.1  | 907.1  | 907.1  | 907.1  | 907.1  | 907.1  | 907.1  | 907.1  | 907.1  |
| 2.5°  | 999.3  | 983.3  | 982.1  | 977.8  | 980.3  | 969.2  | 957.5  | 942.2  | 926.2  | 936.0  | 912.7  |
| 5°    | 1069.4 | 1047.9 | 1056.5 | 1041.7 | 1043.6 | 1028.8 | 1004.8 | 987.0  | 967.4  | 955.7  | 939.1  |
| 7.5°  | 1094.0 | 1095.8 | 1102.0 | 1099.5 | 1087.2 | 1087.2 | 1071.2 | 1039.9 | 1005.5 | 998.7  | 971.0  |
| 10°   | 1127.2 | 1127.8 | 1121.0 | 1122.8 | 1140.1 | 1132.1 | 1117.9 | 1104.4 | 1060.2 | 1052.2 | 1003.0 |
| 12.5° | 1138.8 | 1127.8 | 1138.8 | 1148.7 | 1168.9 | 1180.0 | 1176.9 | 1167.1 | 1119.8 | 1114.2 | 1042.3 |
| 15°   | 1140.7 | 1133.9 | 1143.1 | 1165.3 | 1183.1 | 1229.8 | 1253.1 | 1246.4 | 1183.7 | 1184.3 | 1086.6 |
| 17.5° | 1132.1 | 1141.3 | 1145.0 | 1164.0 | 1205.2 | 1248.8 | 1316.4 | 1325.7 | 1274.0 | 1266.0 | 1142.5 |
| 20°   | 1143.7 | 1137.0 | 1141.9 | 1159.1 | 1213.8 | 1282.0 | 1370.5 | 1431.4 | 1358.9 | 1353.3 | 1200.3 |
| 22.5° | 1188.6 | 1179.4 | 1178.2 | 1189.2 | 1228.6 | 1299.2 | 1427.7 | 1537.1 | 1462.1 | 1465.2 | 1272.2 |
| 25°   | 1223.6 | 1228.6 | 1224.3 | 1223.6 | 1248.2 | 1325.0 | 1503.3 | 1663.1 | 1602.2 | 1584.4 | 1357.0 |
| 27.5° | 1283.9 | 1295.5 | 1286.9 | 1298.6 | 1293.1 | 1363.8 | 1557.4 | 1802.6 | 1753.4 | 1729.4 | 1433.8 |
| 30°   | 1367.5 | 1373.6 | 1365.6 | 1365.6 | 1349.0 | 1417.9 | 1606.5 | 1948.2 | 1928.0 | 1895.4 | 1524.2 |
| 32.5° | 1477.5 | 1486.7 | 1470.7 | 1461.5 | 1459.0 | 1498.4 | 1695.0 | 2092.1 | 2126.5 | 2098.8 | 1644.0 |
| 35°   | 1623.1 | 1617.6 | 1598.5 | 1589.9 | 1556.7 | 1621.9 | 1826.6 | 2257.4 | 2347.7 | 2298.6 | 1789.1 |
| 37.5° | 1751.6 | 1743.0 | 1741.7 | 1693.8 | 1701.8 | 1755.3 | 1938.4 | 2382.8 | 2562.2 | 2548.1 | 1942.1 |
| 40°   | 1871.4 | 1879.4 | 1892.3 | 1865.3 | 1853.0 | 1912.0 | 2068.7 | 2478.6 | 2728.8 | 2723.2 | 2060.1 |
| 42.5° | 1999.9 | 1992.5 | 2015.2 | 1992.5 | 1974.1 | 2057.6 | 2210.1 | 2545.0 | 2875.0 | 2829.6 | 2183.6 |
| 45°   | 2186.1 | 2162.7 | 2170.7 | 2172.6 | 2159.0 | 2189.8 | 2268.4 | 2592.9 | 2977.7 | 2972.8 | 2274.0 |
| 47.5° | 2341.6 | 2342.2 | 2328.7 | 2318.2 | 2277.0 | 2307.8 | 2333.6 | 2623.1 | 3095.7 | 3087.7 | 2309.0 |
| 50°   | 2399.3 | 2391.4 | 2430.7 | 2453.4 | 2455.9 | 2393.2 | 2384.6 | 2639.6 | 3157.7 | 3122.7 | 2344.0 |
| 52.5° | 2191.6 | 2199.0 | 2261.1 | 2396.3 | 2474.3 | 2481.1 | 2444.2 | 2674.1 | 3182.9 | 3175.6 | 2372.3 |
| 55°   | 1763.9 | 1799.5 | 1901.5 | 2057.6 | 2242.6 | 2446.1 | 2508.7 | 2709.7 | 3196.5 | 3190.3 | 2497.7 |
| 56°   | 1550.6 | 1578.3 | 1711.0 | 1833.3 | 2065.6 | 2318.8 | 2468.2 | 2747.8 | 3206.9 | 3235.8 | 2527.2 |
| 57.5° | 1248.2 | 1280.2 | 1375.4 | 1514.3 | 1788.4 | 2076.7 | 2356.3 | 2701.1 | 3166.3 | 3177.4 | 2548.7 |
| 60°   | 780.5  | 783.6  | 897.9  | 989.5  | 1182.5 | 1463.9 | 1798.3 | 2350.2 | 2930.3 | 2914.4 | 2289.3 |
| 62.5° | 512.0  | 512.6  | 616.4  | 691.4  | 779.3  | 843.8  | 1058.3 | 1558.6 | 2162.1 | 2133.8 | 1629.9 |
| 65°   | 359.5  | 367.5  | 448.0  | 548.2  | 583.9  | 550.1  | 543.3  | 821.7  | 1207.7 | 1167.1 | 875.8  |
| 67.5° | 263.0  | 263.7  | 334.9  | 442.5  | 494.1  | 418.5  | 339.9  | 401.3  | 478.1  | 476.9  | 405.6  |
| 70°   | 173.9  | 181.3  | 236.0  | 330.6  | 389.6  | 336.2  | 277.8  | 287.0  | 304.2  | 304.2  | 301.8  |
| 72.5° | 101.4  | 108.2  | 144.4  | 209.6  | 218.8  | 210.2  | 220.0  | 245.8  | 256.9  | 256.3  | 253.2  |
| 75°   | 57.8   | 60.8   | 68.8   | 87.3   | 108.8  | 128.4  | 161.6  | 186.2  | 197.3  | 204.0  | 196.1  |
| 77.5° | 33.8   | 35.6   | 40.6   | 49.8   | 56.5   | 69.4   | 87.9   | 105.1  | 119.8  | 118.0  | 119.2  |
| 80°   | 17.8   | 17.8   | 22.7   | 29.5   | 39.3   | 49.2   | 58.4   | 68.2   | 76.2   | 78.1   | 79.9   |
| 82.5° | 10.4   | 11.1   | 14.8   | 21.5   | 28.3   | 35.0   | 44.9   | 51.6   | 59.0   | 59.6   | 60.8   |
| 85°   | 5.5    | 6.1    | 9.2    | 14.1   | 19.1   | 21.5   | 22.1   | 20.9   | 22.7   | 21.5   | 24.6   |
| 87.5° | 1.8    | 1.8    | 3.1    | 2.5    | 2.5    | 3.1    | 3.7    | 3.7    | 4.9    | 4.9    | 4.9    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 907.1  | 907.1 | 907.1 | 907.1 | 907.1 | 907.1 | 907.1 | 907.1 | 907.1 | 907.1 | 907.1 |
| 2.5°  | 912.0  | 912.0 | 901.6 | 881.9 | 878.9 | 870.9 | 863.5 | 862.9 | 857.3 | 852.4 | 850.0 |
| 5°    | 929.3  | 910.2 | 894.8 | 877.0 | 856.1 | 846.3 | 835.2 | 822.9 | 818.0 | 822.9 | 822.3 |
| 7.5°  | 948.9  | 932.9 | 886.8 | 853.7 | 829.7 | 819.9 | 807.6 | 794.7 | 795.9 | 795.9 | 787.3 |
| 10°   | 968.0  | 946.5 | 872.7 | 830.3 | 795.3 | 787.9 | 781.1 | 786.1 | 792.2 | 793.4 | 787.9 |
| 12.5° | 999.9  | 951.4 | 866.0 | 807.0 | 784.8 | 768.8 | 773.1 | 786.7 | 799.6 | 795.9 | 800.2 |
| 15°   | 1023.9 | 955.7 | 835.2 | 783.0 | 755.3 | 762.7 | 778.1 | 787.3 | 808.8 | 806.3 | 810.6 |
| 17.5° | 1047.3 | 958.1 | 805.1 | 751.0 | 739.3 | 759.6 | 771.3 | 797.7 | 804.5 | 819.2 | 824.8 |
| 20°   | 1095.2 | 963.1 | 774.4 | 731.4 | 727.7 | 751.0 | 771.3 | 783.6 | 798.3 | 811.3 | 811.3 |
| 22.5° | 1119.8 | 960.6 | 754.1 | 705.5 | 717.2 | 732.0 | 750.4 | 771.3 | 771.3 | 783.6 | 784.2 |
| 25°   | 1150.5 | 950.8 | 722.1 | 693.3 | 701.9 | 716.0 | 736.9 | 729.5 | 737.5 | 737.5 | 747.3 |
| 27.5° | 1185.5 | 929.9 | 694.5 | 671.1 | 688.3 | 703.7 | 706.8 | 701.9 | 692.6 | 691.4 | 687.7 |
| 30°   | 1213.8 | 904.1 | 674.2 | 663.8 | 677.9 | 686.5 | 676.7 | 666.2 | 650.2 | 649.0 | 640.4 |
| 32.5° | 1252.5 | 872.1 | 649.0 | 645.3 | 661.3 | 661.9 | 658.8 | 642.9 | 619.5 | 609.7 | 599.8 |
| 35°   | 1317.7 | 853.7 | 630.0 | 635.5 | 640.4 | 638.6 | 633.0 | 615.8 | 592.5 | 588.2 | 584.5 |
| 37.5° | 1365.6 | 840.1 | 610.3 | 617.0 | 621.3 | 623.8 | 607.2 | 588.2 | 588.8 | 580.2 | 577.7 |
| 40°   | 1419.7 | 831.5 | 594.3 | 597.4 | 598.0 | 606.0 | 585.7 | 576.5 | 580.8 | 575.3 | 578.9 |
| 42.5° | 1489.1 | 834.0 | 577.7 | 575.3 | 586.9 | 583.9 | 574.0 | 561.7 | 564.2 | 547.6 | 550.1 |
| 45°   | 1526.0 | 850.6 | 567.9 | 556.8 | 569.7 | 569.1 | 556.2 | 544.5 | 529.8 | 497.8 | 499.0 |
| 47.5° | 1550.6 | 854.9 | 544.5 | 537.1 | 550.7 | 558.7 | 543.9 | 516.9 | 496.0 | 473.2 | 467.7 |
| 50°   | 1575.8 | 862.9 | 533.5 | 518.1 | 523.6 | 542.7 | 524.2 | 498.4 | 478.1 | 457.9 | 460.9 |
| 52.5° | 1597.9 | 878.2 | 512.0 | 489.2 | 499.0 | 519.9 | 510.1 | 478.8 | 456.6 | 440.0 | 435.1 |
| 55°   | 1696.3 | 912.7 | 475.7 | 446.2 | 469.5 | 496.0 | 490.4 | 452.3 | 428.4 | 419.8 | 418.5 |
| 56°   | 1711.6 | 913.9 | 456.6 | 431.4 | 453.0 | 488.0 | 481.2 | 440.7 | 419.1 | 405.6 | 406.2 |
| 57.5° | 1714.1 | 899.1 | 429.6 | 417.9 | 436.4 | 476.3 | 467.7 | 431.4 | 401.9 | 389.6 | 386.0 |
| 60°   | 1508.2 | 701.9 | 395.8 | 388.4 | 409.9 | 440.7 | 437.6 | 406.2 | 373.1 | 358.9 | 365.7 |
| 62.5° | 1028.2 | 514.4 | 369.4 | 368.1 | 379.2 | 409.3 | 401.3 | 373.1 | 345.4 | 336.2 | 331.9 |
| 65°   | 598.6  | 390.3 | 343.6 | 338.6 | 347.9 | 363.8 | 369.4 | 339.9 | 311.0 | 304.8 | 303.0 |
| 67.5° | 353.4  | 322.7 | 310.4 | 302.4 | 299.3 | 309.1 | 313.4 | 296.2 | 267.3 | 258.7 | 266.1 |
| 70°   | 295.6  | 287.0 | 287.6 | 274.1 | 266.7 | 260.0 | 256.3 | 240.9 | 216.9 | 205.9 | 202.8 |
| 72.5° | 255.1  | 251.4 | 248.9 | 236.6 | 229.9 | 214.5 | 198.5 | 183.1 | 165.3 | 156.1 | 156.7 |
| 75°   | 194.8  | 193.6 | 194.8 | 188.7 | 177.0 | 164.7 | 150.0 | 130.3 | 116.8 | 105.1 | 107.6 |
| 77.5° | 116.2  | 119.8 | 121.7 | 119.2 | 114.3 | 103.3 | 94.0  | 81.1  | 68.2  | 59.0  | 57.8  |
| 80°   | 79.9   | 83.0  | 86.0  | 83.0  | 78.1  | 70.1  | 60.2  | 50.4  | 41.2  | 36.3  | 35.0  |
| 82.5° | 60.8   | 63.9  | 65.8  | 62.7  | 56.5  | 47.9  | 41.2  | 34.4  | 27.0  | 22.1  | 20.9  |
| 85°   | 22.1   | 25.2  | 24.6  | 29.5  | 32.0  | 30.7  | 26.4  | 20.3  | 15.4  | 11.1  | 10.4  |
| 87.5° | 6.1    | 5.5   | 6.1   | 6.1   | 6.1   | 5.5   | 4.9   | 4.9   | 4.9   | 3.1   | 2.5   |
| 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)