

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: STREETWORKS

Report Number: P269907

Luminaire Tested: **GAW-AF-02-LED-U-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-02-LED-U-T3-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8722.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

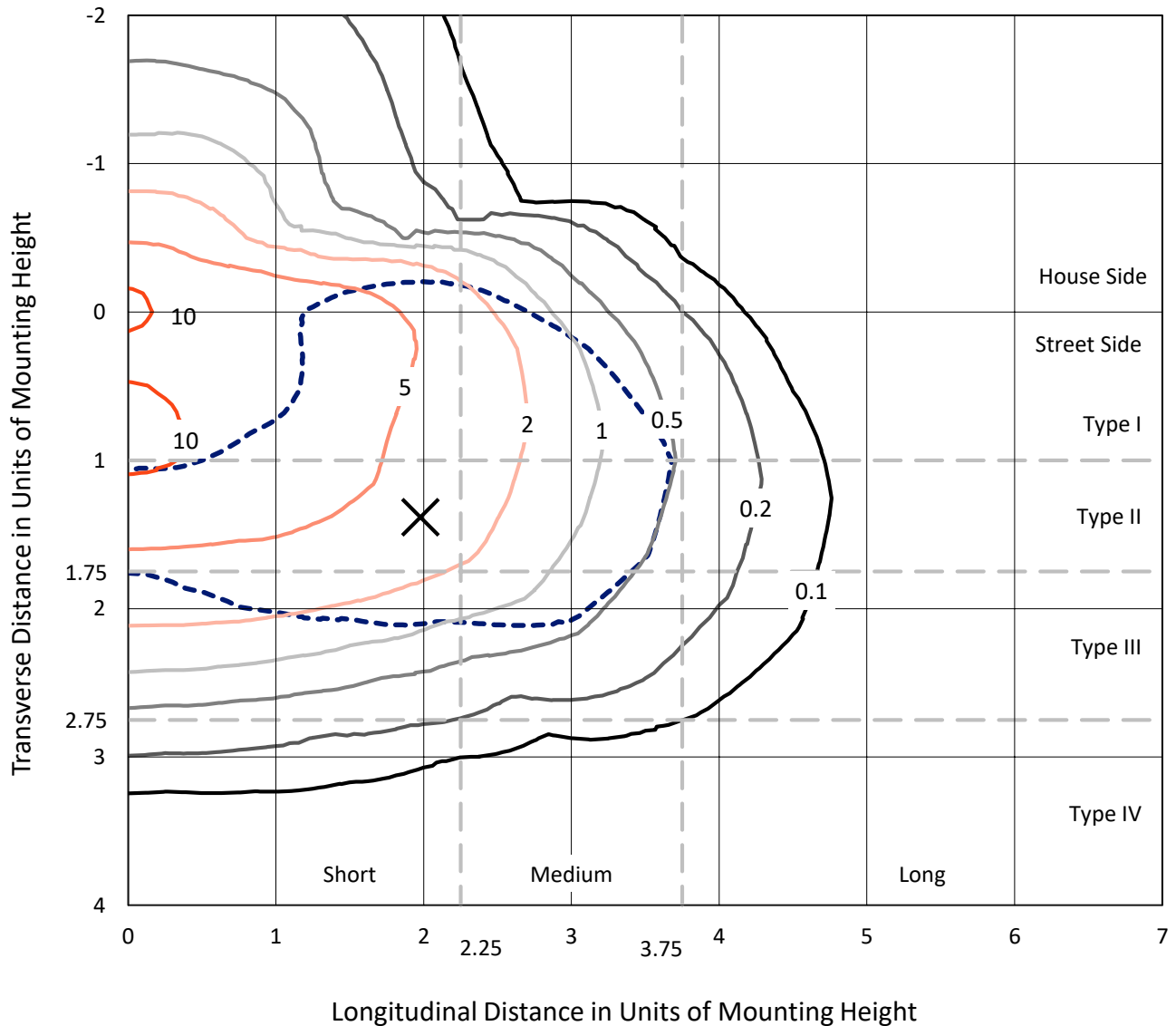
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

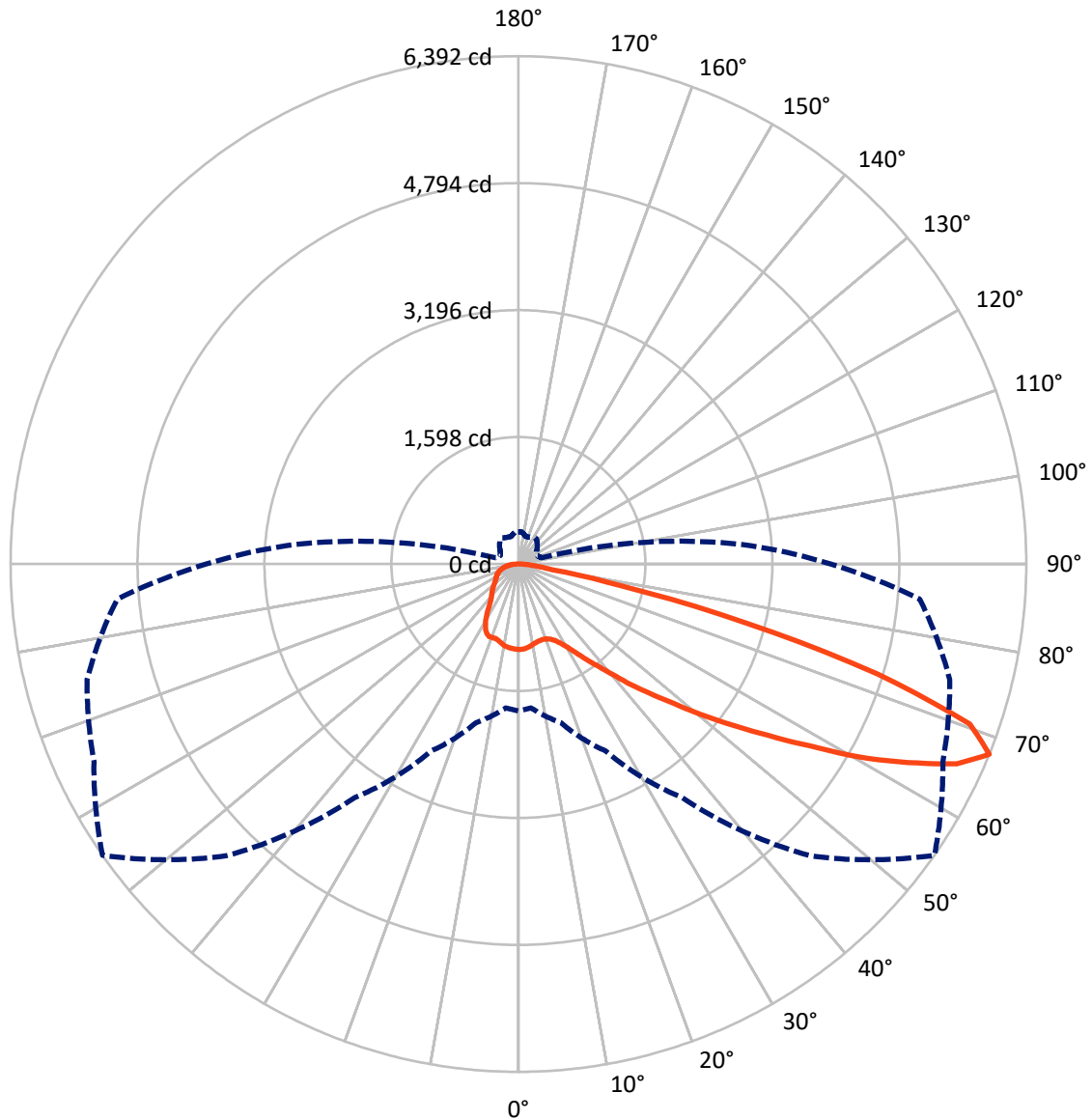
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1884.2 | 0.0 | 1884.2 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 6838.2 | 0.0 | 6838.2 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 8722.4 | 0.0 | 8722.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.4 | 1.2 |
| 10°-20° | 284.3 | 3.3 |
| 20°-30° | 476.3 | 5.5 |
| 30°-40° | 783.2 | 9.0 |
| 40°-50° | 1318.4 | 15.1 |
| 50°-60° | 2075.1 | 23.8 |
| 60°-70° | 2476.4 | 28.4 |
| 70°-80° | 1063.4 | 12.2 |
| 80°-90° | 145.0 | 1.7 |
| 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° | 8722.4 | 100.0 |
| 0°-180° | 8722.4 | 100.0 |



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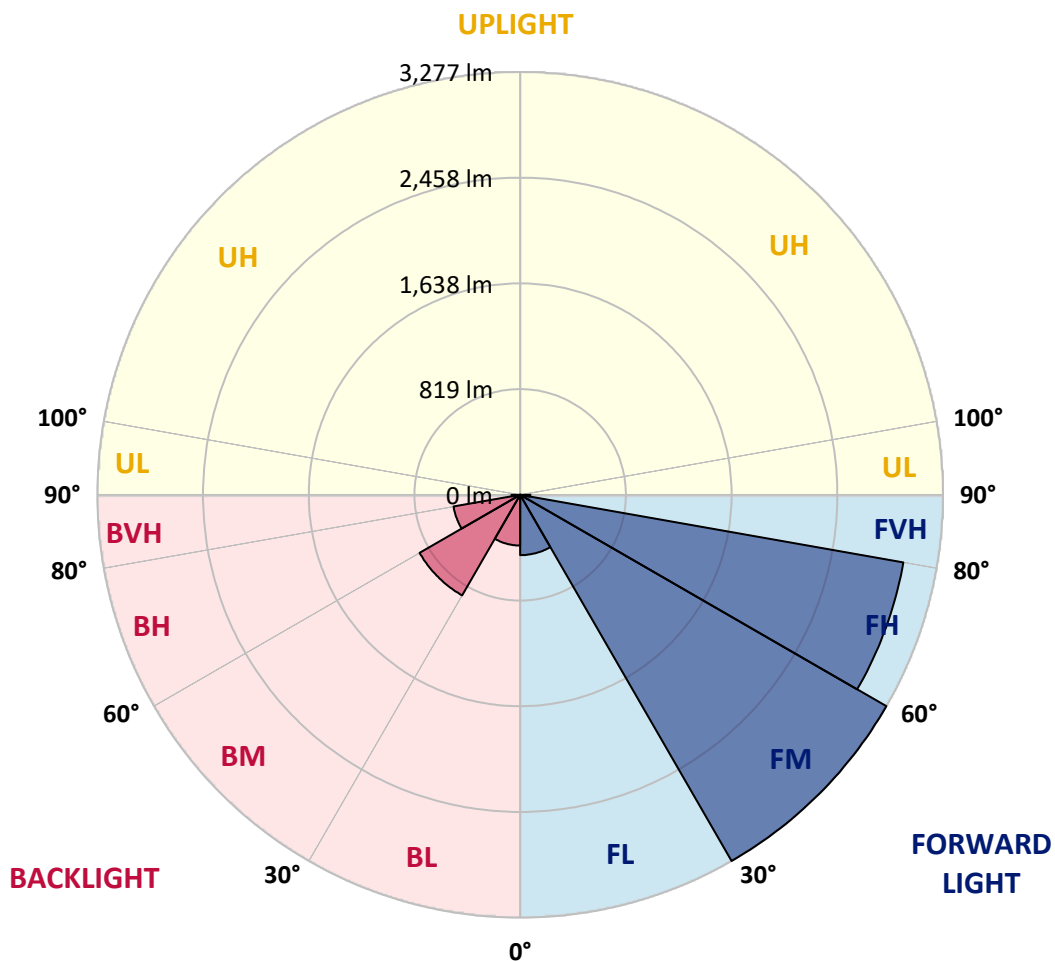
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 467.5 | 5.4 | | | |
| FM | (30°-60°) | 3276.8 | 37.6 | | | |
| FH | (60°-80°) | 3015.4 | 34.6 | | | G2/5000 |
| FVH | (80°-90°) | 78.5 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 393.5 | 4.5 | B1/500 | | |
| BM | (30°-60°) | 899.9 | 10.3 | B1/1000 | | |
| BH | (60°-80°) | 524.4 | 6.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 66.5 | 0.8 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 |
| 2.5° | 1066.3 | 1066.7 | 1067.5 | 1070.9 | 1073.8 | 1073.0 | 1073.5 | 1071.8 | 1071.4 | 1068.9 | 1071.4 |
| 5° | 1052.9 | 1054.2 | 1054.5 | 1060.0 | 1063.4 | 1064.2 | 1063.0 | 1060.8 | 1058.4 | 1055.8 | 1057.0 |
| 7.5° | 1022.0 | 1025.4 | 1025.9 | 1033.4 | 1038.9 | 1046.0 | 1046.4 | 1047.0 | 1045.6 | 1044.0 | 1046.4 |
| 10° | 1002.7 | 1003.5 | 1003.0 | 1008.5 | 1012.7 | 1020.8 | 1025.4 | 1033.4 | 1036.9 | 1037.6 | 1039.2 |
| 12.5° | 1001.4 | 1000.6 | 999.4 | 999.4 | 998.0 | 1001.4 | 1009.9 | 1021.3 | 1029.2 | 1031.8 | 1033.9 |
| 15° | 1014.9 | 1014.5 | 1010.2 | 1003.9 | 996.0 | 993.4 | 1000.6 | 1013.2 | 1023.8 | 1029.2 | 1031.3 |
| 17.5° | 1045.3 | 1042.8 | 1035.9 | 1021.6 | 1004.3 | 997.7 | 998.5 | 1008.9 | 1021.3 | 1028.4 | 1030.4 |
| 20° | 1100.9 | 1100.9 | 1086.5 | 1059.6 | 1028.7 | 1012.7 | 1005.3 | 1011.5 | 1023.3 | 1033.1 | 1035.9 |
| 22.5° | 1196.9 | 1197.7 | 1173.7 | 1129.4 | 1077.6 | 1043.6 | 1024.5 | 1023.3 | 1037.3 | 1048.2 | 1051.6 |
| 25° | 1332.9 | 1329.6 | 1296.0 | 1232.7 | 1154.0 | 1097.5 | 1064.6 | 1057.0 | 1068.9 | 1081.0 | 1085.2 |
| 27.5° | 1491.4 | 1479.1 | 1439.2 | 1362.9 | 1261.0 | 1178.3 | 1127.8 | 1115.5 | 1127.0 | 1140.8 | 1145.1 |
| 30° | 1648.1 | 1635.5 | 1587.8 | 1504.4 | 1391.1 | 1286.6 | 1214.1 | 1194.3 | 1210.3 | 1230.1 | 1232.7 |
| 32.5° | 1804.9 | 1804.9 | 1751.8 | 1654.4 | 1531.0 | 1416.0 | 1329.2 | 1305.5 | 1332.1 | 1356.1 | 1361.7 |
| 35° | 1992.4 | 1993.2 | 1941.7 | 1824.6 | 1692.0 | 1570.1 | 1474.6 | 1457.3 | 1497.2 | 1514.2 | 1527.2 |
| 37.5° | 2222.8 | 2227.3 | 2161.2 | 2019.7 | 1874.4 | 1746.2 | 1632.5 | 1609.0 | 1649.0 | 1694.9 | 1737.1 |
| 40° | 2471.7 | 2477.6 | 2404.8 | 2230.3 | 2085.0 | 1950.9 | 1828.1 | 1785.4 | 1852.0 | 1939.6 | 1994.0 |
| 42.5° | 2709.4 | 2739.7 | 2669.4 | 2489.8 | 2333.5 | 2195.0 | 2070.2 | 2008.3 | 2091.8 | 2224.1 | 2271.3 |
| 45° | 3052.7 | 3074.5 | 2952.0 | 2789.3 | 2642.4 | 2487.3 | 2322.2 | 2256.9 | 2373.6 | 2540.4 | 2550.1 |
| 47.5° | 3281.5 | 3265.1 | 3202.6 | 3101.6 | 3008.5 | 2863.5 | 2615.0 | 2543.5 | 2698.4 | 2894.7 | 2840.4 |
| 50° | 3403.1 | 3408.3 | 3399.8 | 3405.7 | 3409.2 | 3318.1 | 2973.8 | 2875.7 | 3060.7 | 3297.9 | 3172.8 |
| 52.5° | 3517.0 | 3483.3 | 3511.0 | 3649.3 | 3816.1 | 3782.5 | 3364.5 | 3262.0 | 3449.1 | 3745.4 | 3524.1 |
| 55° | 3514.4 | 3463.1 | 3553.7 | 3797.6 | 4159.4 | 4198.1 | 3803.1 | 3685.0 | 3859.8 | 4225.2 | 3896.6 |
| 57.5° | 3390.2 | 3392.7 | 3532.1 | 3851.6 | 4398.8 | 4589.3 | 4312.0 | 4135.0 | 4295.5 | 4711.4 | 4236.5 |
| 60° | 3219.2 | 3242.3 | 3443.3 | 3842.6 | 4590.5 | 4909.7 | 4936.4 | 4620.0 | 4722.3 | 5153.2 | 4517.9 |
| 62.5° | 2943.1 | 2967.6 | 3244.9 | 3750.9 | 4561.4 | 5218.7 | 5501.0 | 5170.1 | 5168.5 | 5421.2 | 4600.6 |
| 65° | 2508.0 | 2500.8 | 2791.9 | 3407.5 | 4317.4 | 5447.0 | 6061.7 | 5645.8 | 5504.6 | 5425.5 | 4434.6 |
| 67.5° | 1849.5 | 1817.5 | 2067.3 | 2595.3 | 3588.5 | 5191.2 | 6391.5 | 5893.5 | 5619.3 | 5068.6 | 3927.3 |
| 70° | 959.7 | 927.7 | 1129.9 | 1515.4 | 2360.0 | 4051.6 | 6026.2 | 5765.4 | 5366.0 | 4248.8 | 3076.8 |
| 72.5° | 410.3 | 404.9 | 487.1 | 664.7 | 1141.7 | 2336.9 | 4725.3 | 4990.3 | 4604.4 | 3165.6 | 2115.2 |
| 75° | 276.0 | 274.3 | 305.1 | 362.3 | 513.7 | 948.3 | 2957.1 | 3542.2 | 3368.6 | 1962.8 | 1189.7 |
| 77.5° | 216.5 | 214.4 | 232.5 | 260.4 | 332.8 | 374.1 | 1312.3 | 1901.7 | 1760.1 | 854.4 | 520.7 |
| 80° | 169.4 | 167.7 | 179.0 | 194.3 | 239.3 | 236.0 | 431.8 | 756.6 | 585.6 | 327.3 | 253.2 |
| 82.5° | 133.6 | 133.6 | 142.8 | 143.2 | 169.8 | 160.9 | 225.4 | 333.2 | 292.4 | 190.8 | 155.0 |
| 85° | 122.2 | 122.2 | 132.0 | 107.0 | 110.9 | 101.5 | 139.9 | 197.5 | 185.4 | 78.3 | 67.5 |
| 87.5° | 61.5 | 59.8 | 110.9 | 94.9 | 60.2 | 53.9 | 68.2 | 95.6 | 102.8 | 43.4 | 33.6 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 | 1075.6 |
| 2.5° | 1070.5 | 1070.2 | 1070.9 | 1071.4 | 1074.7 | 1079.4 | 1081.5 | 1084.4 | 1086.1 | 1085.2 |
| 5° | 1057.8 | 1058.7 | 1062.1 | 1064.6 | 1070.5 | 1078.1 | 1082.3 | 1085.7 | 1088.7 | 1087.4 |
| 7.5° | 1047.3 | 1049.5 | 1054.5 | 1056.5 | 1060.0 | 1062.1 | 1061.6 | 1063.0 | 1065.5 | 1062.5 |
| 10° | 1041.5 | 1044.0 | 1047.8 | 1044.8 | 1036.9 | 1025.4 | 1014.9 | 1009.4 | 1011.1 | 1008.9 |
| 12.5° | 1035.6 | 1038.9 | 1035.9 | 1022.0 | 999.8 | 985.0 | 976.9 | 977.8 | 981.6 | 982.4 |
| 15° | 1032.2 | 1033.4 | 1020.8 | 994.7 | 972.0 | 969.8 | 974.0 | 973.3 | 973.7 | 973.7 |
| 17.5° | 1032.2 | 1028.7 | 1005.3 | 979.2 | 969.5 | 965.6 | 952.6 | 936.2 | 928.9 | 926.4 |
| 20° | 1037.6 | 1028.7 | 1000.2 | 982.8 | 961.8 | 929.3 | 894.8 | 864.4 | 851.1 | 847.2 |
| 22.5° | 1054.2 | 1038.9 | 1014.5 | 984.5 | 924.7 | 870.4 | 815.7 | 779.4 | 754.9 | 750.8 |
| 25° | 1087.4 | 1070.5 | 1042.8 | 962.3 | 865.7 | 788.3 | 725.9 | 685.4 | 661.1 | 657.6 |
| 27.5° | 1145.5 | 1134.6 | 1057.8 | 912.9 | 787.5 | 704.5 | 646.7 | 615.5 | 597.5 | 596.1 |
| 30° | 1233.2 | 1227.7 | 1050.3 | 840.0 | 690.9 | 623.2 | 595.2 | 577.3 | 563.6 | 563.2 |
| 32.5° | 1373.0 | 1328.8 | 1025.4 | 751.2 | 602.9 | 565.4 | 554.1 | 543.0 | 532.5 | 532.5 |
| 35° | 1552.9 | 1410.5 | 978.3 | 655.9 | 549.4 | 533.4 | 519.0 | 501.8 | 487.9 | 487.1 |
| 37.5° | 1764.5 | 1461.1 | 893.5 | 579.2 | 524.2 | 511.9 | 490.8 | 465.1 | 440.7 | 436.4 |
| 40° | 1978.0 | 1476.3 | 774.3 | 532.1 | 508.1 | 490.4 | 464.8 | 434.4 | 410.7 | 409.4 |
| 42.5° | 2173.9 | 1447.2 | 647.9 | 499.6 | 492.1 | 468.5 | 441.4 | 414.6 | 396.1 | 395.7 |
| 45° | 2338.2 | 1371.7 | 541.8 | 468.9 | 475.3 | 448.7 | 424.7 | 402.8 | 388.4 | 385.6 |
| 47.5° | 2492.7 | 1265.2 | 467.2 | 436.4 | 458.3 | 437.7 | 417.5 | 396.8 | 382.9 | 380.8 |
| 50° | 2672.3 | 1150.1 | 414.9 | 404.9 | 443.7 | 433.9 | 423.5 | 401.9 | 378.7 | 376.2 |
| 52.5° | 2889.7 | 1050.7 | 374.1 | 377.1 | 432.3 | 439.0 | 438.6 | 416.3 | 375.9 | 372.4 |
| 55° | 3132.3 | 940.3 | 343.3 | 354.3 | 427.7 | 448.3 | 442.3 | 429.7 | 378.4 | 373.2 |
| 57.5° | 3371.2 | 811.3 | 321.9 | 337.0 | 420.9 | 447.4 | 424.3 | 406.2 | 384.2 | 377.1 |
| 60° | 3550.3 | 638.2 | 305.5 | 321.9 | 406.2 | 433.5 | 404.4 | 380.4 | 382.9 | 377.5 |
| 62.5° | 3562.0 | 493.3 | 285.7 | 308.7 | 383.8 | 419.6 | 391.4 | 369.1 | 388.4 | 383.3 |
| 65° | 3352.7 | 372.8 | 266.6 | 293.2 | 359.9 | 410.7 | 378.7 | 362.7 | 399.8 | 394.4 |
| 67.5° | 2822.7 | 299.9 | 250.6 | 277.1 | 335.7 | 392.2 | 367.3 | 356.8 | 409.9 | 400.3 |
| 70° | 2037.8 | 255.7 | 235.0 | 257.9 | 314.2 | 371.2 | 357.3 | 346.2 | 382.6 | 367.3 |
| 72.5° | 1254.7 | 221.6 | 217.4 | 232.1 | 297.9 | 349.3 | 342.1 | 326.5 | 344.6 | 332.5 |
| 75° | 626.5 | 192.1 | 197.5 | 206.9 | 274.7 | 324.4 | 316.8 | 301.2 | 303.7 | 301.2 |
| 77.5° | 299.9 | 164.3 | 174.5 | 181.5 | 244.8 | 296.3 | 288.1 | 272.1 | 269.2 | 269.6 |
| 80° | 190.0 | 137.4 | 147.1 | 152.2 | 218.6 | 263.4 | 255.3 | 239.3 | 273.1 | 253.2 |
| 82.5° | 118.8 | 111.7 | 114.2 | 123.4 | 190.4 | 229.2 | 218.6 | 204.4 | 246.0 | 194.7 |
| 85° | 65.8 | 78.0 | 81.2 | 89.3 | 146.7 | 191.7 | 181.2 | 163.0 | 146.2 | 143.6 |
| 87.5° | 39.2 | 46.4 | 47.6 | 53.4 | 98.5 | 138.6 | 122.6 | 116.3 | 96.5 | 96.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)