

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: P382821

Luminaire Tested: **GLEON-SA1D-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7514.8 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

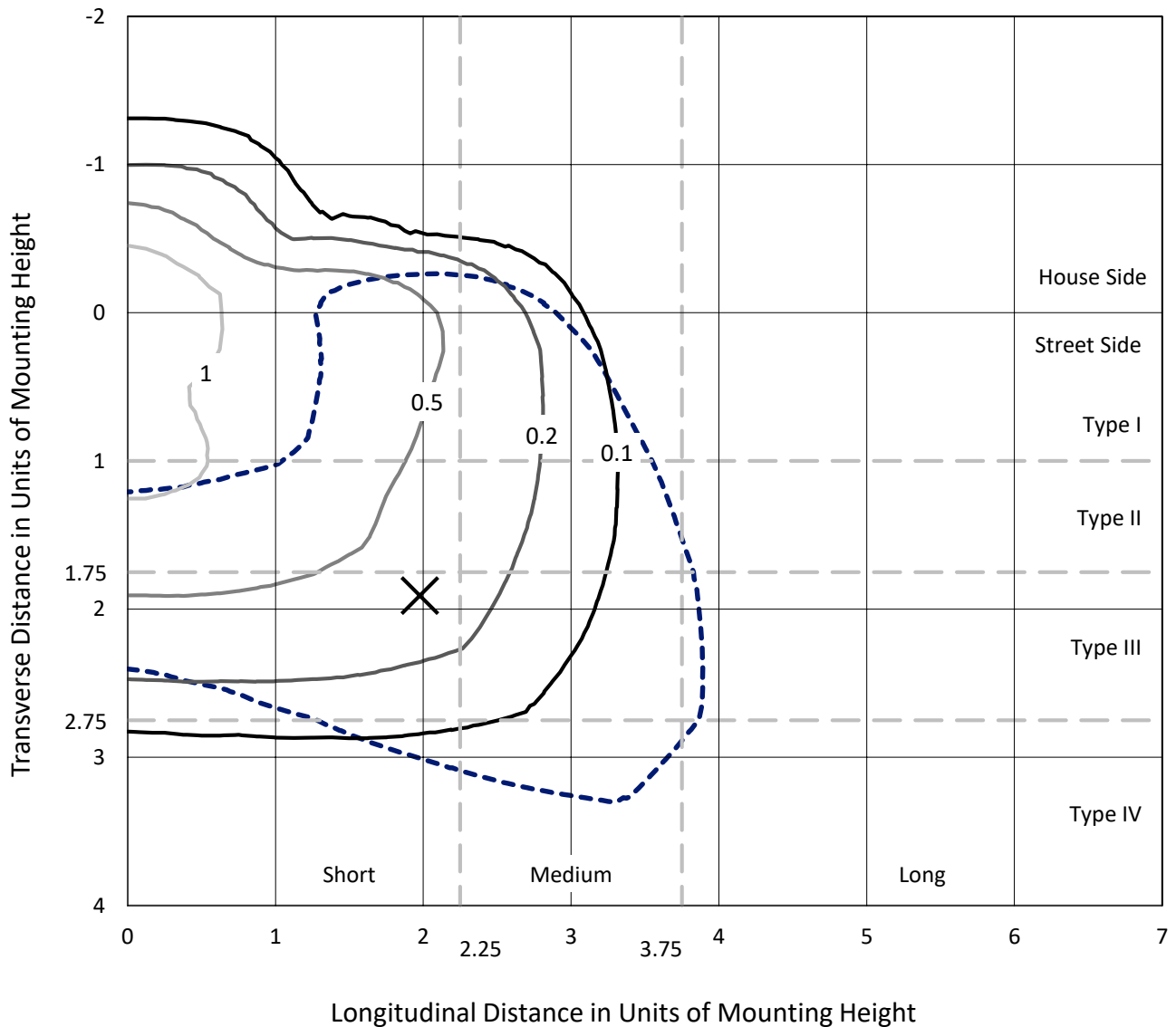
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

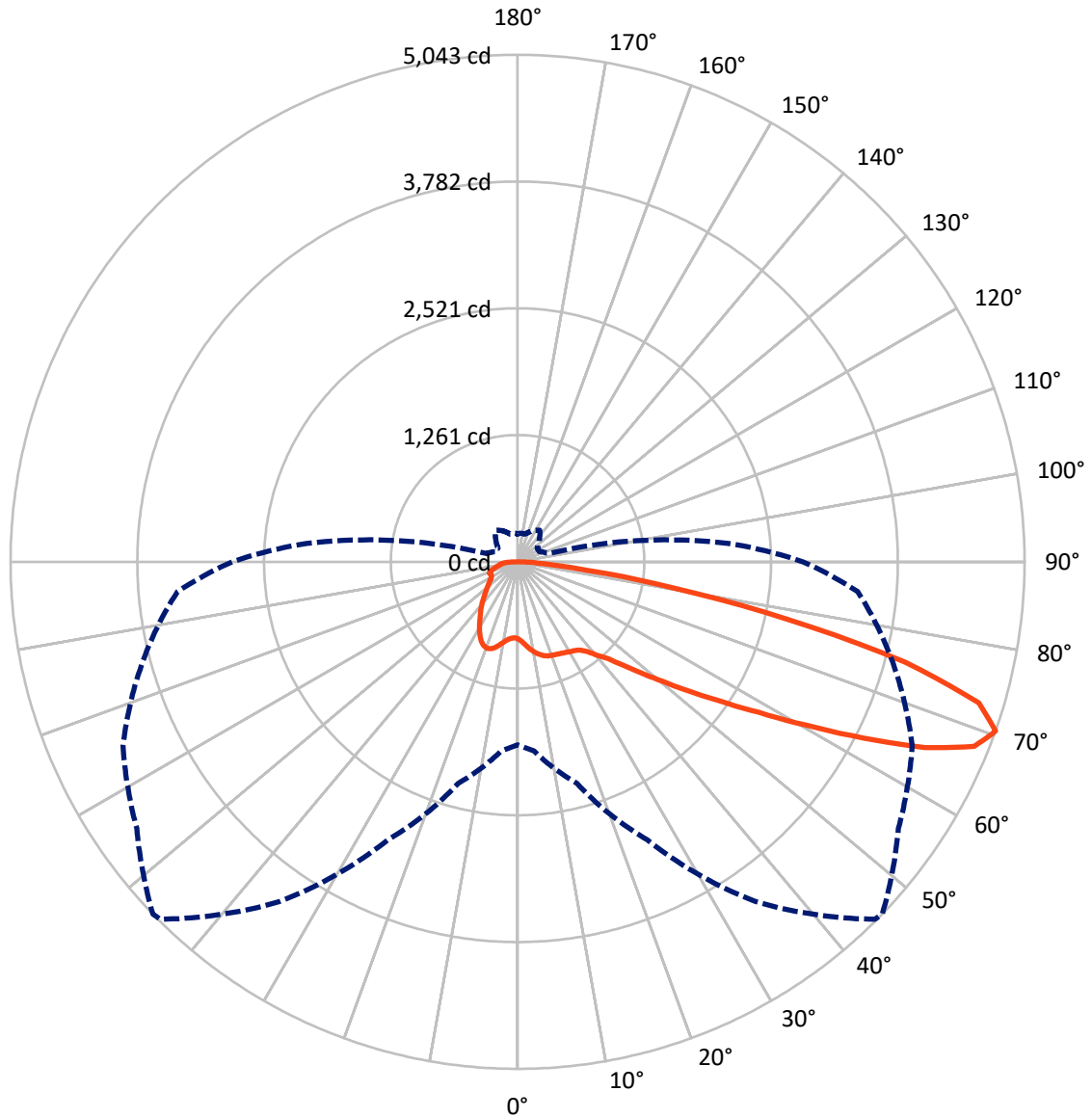
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1722.4 | 0.0 | 1722.4 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 5792.4 | 0.0 | 5792.4 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 7514.8 | 0.0 | 7514.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.0 | 1.0 |
| 10°-20° | 260.0 | 3.5 |
| 20°-30° | 433.6 | 5.8 |
| 30°-40° | 615.3 | 8.2 |
| 40°-50° | 905.0 | 12.0 |
| 50°-60° | 1532.7 | 20.4 |
| 60°-70° | 2175.6 | 29.0 |
| 70°-80° | 1321.7 | 17.6 |
| 80°-90° | 192.9 | 2.6 |
| 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° | 7514.8 | 100.0 |
| 0°-180° | 7514.8 | 100.0 |

Coefficient of Utilization



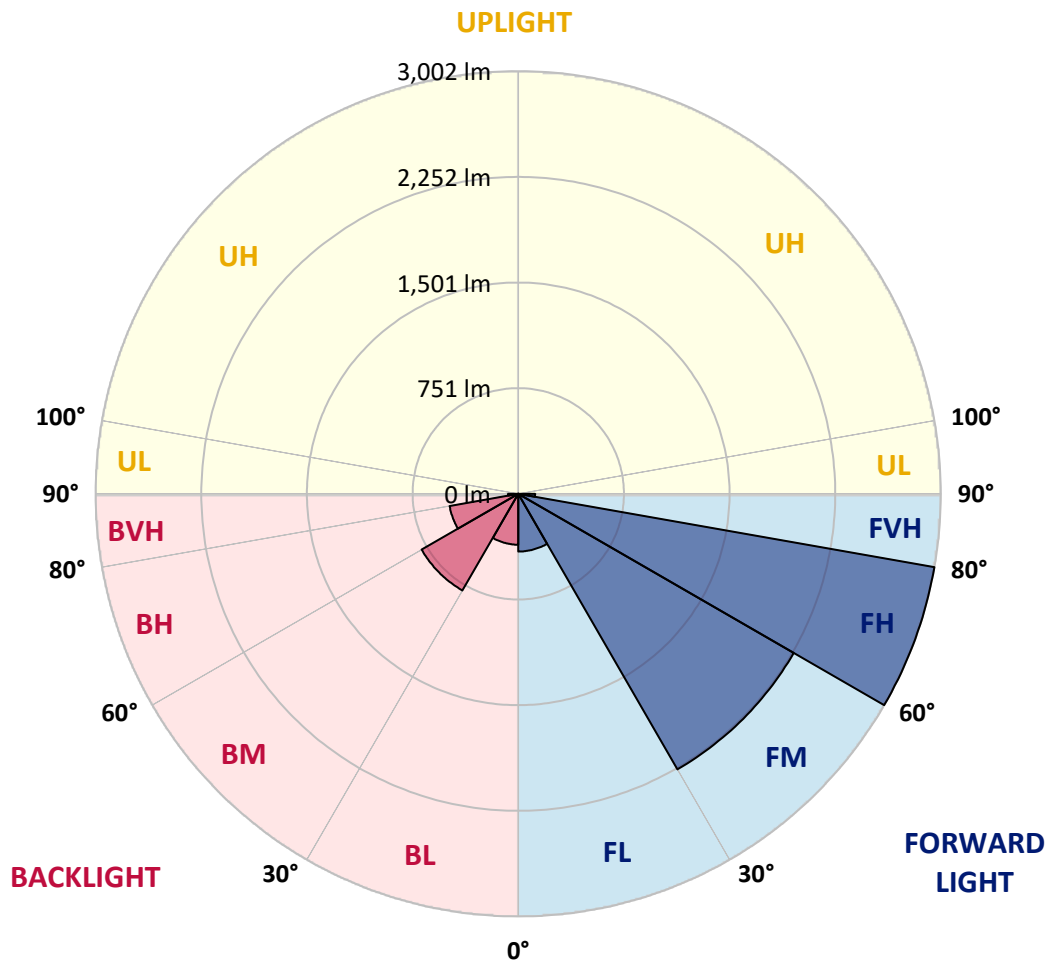
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 410.0 | 5.5 | | | |
| FM (30°-60°) | 2260.1 | 30.1 | | | |
| FH (60°-80°) | 3002.1 | 39.9 | | | G2/5000 |
| FVH (80°-90°) | 120.2 | 1.6 | | | G2/225 |
| BL (0°-30°) | 361.6 | 4.8 | B1/500 | | |
| BM (30°-60°) | 792.9 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 495.2 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 72.7 | 1.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 |
| 2.5° | 803.9 | 804.5 | 805.5 | 802.9 | 795.7 | 793.7 | 792.8 | 785.4 | 780.5 | 773.4 | 767.1 |
| 5° | 868.2 | 868.8 | 867.2 | 860.0 | 844.1 | 832.2 | 831.2 | 814.2 | 798.8 | 782.3 | 770.0 |
| 7.5° | 935.4 | 936.1 | 931.3 | 917.6 | 895.2 | 874.6 | 873.3 | 850.2 | 826.8 | 801.9 | 783.3 |
| 10° | 994.8 | 991.6 | 983.7 | 964.6 | 938.2 | 913.0 | 912.0 | 887.8 | 860.7 | 830.7 | 806.0 |
| 12.5° | 1034.4 | 1031.8 | 1021.5 | 998.3 | 969.3 | 946.2 | 944.1 | 921.7 | 895.5 | 862.5 | 833.0 |
| 15° | 1056.2 | 1058.1 | 1044.2 | 1017.9 | 989.6 | 970.0 | 968.3 | 952.3 | 928.9 | 895.8 | 861.8 |
| 17.5° | 1059.1 | 1060.6 | 1047.2 | 1021.3 | 998.1 | 984.7 | 984.0 | 973.4 | 956.4 | 924.6 | 889.1 |
| 20° | 1042.6 | 1043.6 | 1032.5 | 1011.2 | 996.0 | 991.9 | 991.6 | 987.1 | 974.4 | 946.2 | 911.7 |
| 22.5° | 1018.6 | 1019.5 | 1011.5 | 996.0 | 990.9 | 997.3 | 999.1 | 997.3 | 988.3 | 961.8 | 929.4 |
| 25° | 1012.8 | 1012.2 | 1004.0 | 988.3 | 992.7 | 1006.4 | 1008.7 | 1009.4 | 1003.3 | 980.1 | 952.0 |
| 27.5° | 1041.3 | 1039.5 | 1023.8 | 998.6 | 1001.4 | 1017.9 | 1021.0 | 1028.4 | 1024.6 | 1004.3 | 977.8 |
| 30° | 1123.8 | 1120.7 | 1088.6 | 1037.7 | 1023.8 | 1032.3 | 1036.2 | 1048.0 | 1048.7 | 1031.8 | 1011.9 |
| 32.5° | 1263.3 | 1259.4 | 1201.8 | 1110.8 | 1061.6 | 1047.0 | 1050.6 | 1068.3 | 1077.8 | 1064.7 | 1043.3 |
| 35° | 1439.4 | 1435.0 | 1359.4 | 1235.0 | 1124.8 | 1075.0 | 1077.5 | 1091.7 | 1110.8 | 1092.2 | 1063.9 |
| 37.5° | 1623.0 | 1612.5 | 1539.7 | 1381.0 | 1225.5 | 1134.9 | 1134.9 | 1136.7 | 1145.7 | 1107.1 | 1088.1 |
| 40° | 1805.6 | 1795.1 | 1729.2 | 1552.8 | 1355.6 | 1229.3 | 1223.4 | 1183.5 | 1176.4 | 1143.1 | 1136.7 |
| 42.5° | 1975.3 | 1972.3 | 1933.4 | 1747.0 | 1508.4 | 1322.1 | 1313.9 | 1246.2 | 1247.8 | 1227.2 | 1227.5 |
| 45° | 2155.9 | 2155.9 | 2124.3 | 1942.9 | 1686.3 | 1471.3 | 1463.1 | 1363.5 | 1379.0 | 1369.5 | 1392.4 |
| 47.5° | 2303.3 | 2307.9 | 2303.5 | 2147.1 | 1893.3 | 1660.9 | 1646.0 | 1526.1 | 1569.3 | 1602.0 | 1668.6 |
| 50° | 2453.7 | 2460.9 | 2461.7 | 2371.2 | 2143.6 | 1886.1 | 1869.2 | 1741.8 | 1838.3 | 1931.9 | 2062.8 |
| 52.5° | 2672.1 | 2688.3 | 2623.7 | 2594.6 | 2450.1 | 2153.6 | 2136.9 | 2019.3 | 2180.3 | 2311.7 | 2537.3 |
| 55° | 2874.5 | 2860.3 | 2814.3 | 2832.3 | 2778.2 | 2458.1 | 2445.5 | 2342.4 | 2561.5 | 2732.2 | 3025.1 |
| 57.5° | 2984.0 | 2983.0 | 3029.3 | 3106.4 | 3132.1 | 2833.6 | 2823.1 | 2722.7 | 2991.2 | 3119.6 | 3483.1 |
| 60° | 3112.6 | 3114.3 | 3229.1 | 3404.2 | 3510.2 | 3301.1 | 3296.5 | 3220.4 | 3408.6 | 3481.1 | 3842.4 |
| 62.5° | 3130.6 | 3163.0 | 3360.5 | 3661.9 | 3864.1 | 3847.4 | 3857.6 | 3668.6 | 3782.0 | 3769.7 | 4110.7 |
| 65° | 2923.6 | 2966.2 | 3323.8 | 3739.9 | 4215.9 | 4444.8 | 4454.3 | 4119.4 | 4076.5 | 4016.3 | 4206.6 |
| 67.5° | 2499.2 | 2562.5 | 2950.9 | 3570.3 | 4331.9 | 4886.3 | 4899.7 | 4468.9 | 4320.8 | 4099.9 | 3975.7 |
| 70° | 1818.8 | 1889.0 | 2279.9 | 3049.3 | 4125.1 | 5027.6 | 5042.7 | 4623.5 | 4330.0 | 3862.0 | 3393.9 |
| 72.5° | 1098.7 | 1153.7 | 1475.9 | 2244.8 | 3481.7 | 4770.4 | 4797.4 | 4427.6 | 3953.3 | 3271.2 | 2506.1 |
| 75° | 482.4 | 518.5 | 713.7 | 1293.5 | 2492.5 | 3946.9 | 3980.6 | 3789.7 | 3212.2 | 2377.3 | 1481.3 |
| 77.5° | 205.5 | 215.7 | 292.7 | 561.9 | 1409.1 | 2697.0 | 2743.3 | 2769.0 | 2179.3 | 1293.5 | 626.0 |
| 80° | 128.1 | 132.2 | 165.6 | 254.3 | 659.4 | 1514.8 | 1564.6 | 1629.2 | 1082.2 | 475.6 | 218.6 |
| 82.5° | 78.0 | 82.5 | 110.1 | 153.8 | 343.4 | 686.6 | 710.6 | 756.1 | 419.9 | 205.5 | 113.2 |
| 85° | 46.8 | 50.1 | 67.4 | 97.3 | 195.4 | 270.1 | 269.8 | 298.3 | 197.8 | 132.2 | 59.6 |
| 87.5° | 22.4 | 25.0 | 36.1 | 50.4 | 98.5 | 101.4 | 94.9 | 107.5 | 120.1 | 86.6 | 30.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 |
| 2.5° | 765.1 | 764.1 | 760.7 | 758.2 | 757.6 | 756.1 | 754.8 | 755.6 | 756.6 | 756.9 | 756.9 |
| 5° | 764.8 | 762.0 | 757.6 | 755.9 | 758.2 | 761.3 | 765.1 | 770.2 | 773.4 | 775.6 | 777.2 |
| 7.5° | 777.2 | 771.8 | 766.8 | 765.8 | 770.5 | 778.7 | 787.4 | 798.2 | 805.7 | 810.9 | 811.9 |
| 10° | 797.8 | 791.1 | 786.2 | 787.3 | 795.4 | 807.3 | 819.6 | 833.5 | 844.8 | 851.8 | 852.3 |
| 12.5° | 821.4 | 815.0 | 810.4 | 814.7 | 828.3 | 842.8 | 855.6 | 867.7 | 878.0 | 885.0 | 885.0 |
| 15° | 848.6 | 844.1 | 838.7 | 848.6 | 867.2 | 880.0 | 885.4 | 891.4 | 897.0 | 902.2 | 901.2 |
| 17.5° | 874.9 | 870.5 | 867.7 | 879.6 | 898.9 | 904.7 | 901.2 | 896.8 | 896.8 | 899.6 | 900.2 |
| 20° | 897.5 | 893.7 | 895.5 | 907.0 | 917.1 | 911.0 | 897.5 | 883.7 | 878.0 | 879.6 | 881.1 |
| 22.5° | 917.4 | 915.5 | 920.9 | 926.3 | 919.2 | 897.5 | 872.9 | 854.0 | 847.1 | 846.6 | 847.1 |
| 25° | 940.5 | 940.2 | 946.9 | 937.1 | 905.3 | 865.4 | 832.2 | 814.0 | 810.1 | 813.1 | 818.4 |
| 27.5° | 969.3 | 972.2 | 975.4 | 939.7 | 877.0 | 816.8 | 783.1 | 770.5 | 774.4 | 781.8 | 786.7 |
| 30° | 1006.1 | 1013.8 | 1006.5 | 933.3 | 836.3 | 761.3 | 729.1 | 725.5 | 736.0 | 746.5 | 751.8 |
| 32.5° | 1041.8 | 1053.9 | 1036.4 | 916.5 | 783.9 | 702.4 | 677.4 | 676.4 | 689.3 | 699.5 | 706.7 |
| 35° | 1070.6 | 1094.6 | 1058.8 | 883.4 | 723.2 | 648.1 | 629.8 | 622.8 | 627.5 | 639.6 | 647.8 |
| 37.5° | 1108.2 | 1148.0 | 1074.3 | 832.7 | 657.3 | 603.4 | 582.0 | 566.0 | 561.9 | 566.8 | 570.9 |
| 40° | 1176.8 | 1229.5 | 1081.4 | 762.0 | 593.0 | 558.6 | 536.9 | 513.6 | 497.4 | 485.5 | 485.8 |
| 42.5° | 1289.0 | 1335.7 | 1076.8 | 676.1 | 533.7 | 514.9 | 490.5 | 463.4 | 437.2 | 410.4 | 408.4 |
| 45° | 1471.0 | 1493.6 | 1062.9 | 585.1 | 481.4 | 469.1 | 446.2 | 419.2 | 384.3 | 353.9 | 351.0 |
| 47.5° | 1762.4 | 1712.3 | 1041.3 | 505.6 | 435.4 | 430.3 | 409.1 | 378.0 | 341.0 | 316.5 | 314.5 |
| 50° | 2159.8 | 2027.8 | 1030.8 | 442.3 | 394.8 | 396.3 | 379.0 | 346.2 | 311.1 | 293.2 | 291.1 |
| 52.5° | 2635.0 | 2395.3 | 1051.1 | 393.5 | 362.1 | 367.5 | 354.6 | 323.8 | 294.5 | 280.3 | 278.3 |
| 55° | 3128.0 | 2775.9 | 1073.0 | 358.0 | 331.3 | 341.8 | 337.4 | 312.0 | 285.4 | 272.4 | 270.5 |
| 57.5° | 3550.0 | 3060.1 | 1029.2 | 329.2 | 303.7 | 320.2 | 324.1 | 304.5 | 280.9 | 269.0 | 267.0 |
| 60° | 3815.7 | 3174.5 | 914.5 | 302.2 | 281.9 | 302.9 | 316.4 | 302.5 | 282.6 | 281.6 | 280.0 |
| 62.5° | 3941.8 | 3164.6 | 742.4 | 280.9 | 268.2 | 295.5 | 321.9 | 314.0 | 303.2 | 312.4 | 313.3 |
| 65° | 3885.1 | 3013.3 | 553.0 | 266.7 | 258.5 | 298.3 | 339.0 | 335.9 | 309.1 | 318.4 | 319.7 |
| 67.5° | 3512.8 | 2652.5 | 409.4 | 254.3 | 247.7 | 306.3 | 369.8 | 343.1 | 297.5 | 304.2 | 300.1 |
| 70° | 2839.2 | 2102.9 | 315.8 | 240.4 | 236.6 | 305.3 | 383.7 | 338.7 | 285.0 | 286.5 | 275.5 |
| 72.5° | 1957.8 | 1434.0 | 256.9 | 227.6 | 220.7 | 278.3 | 373.9 | 327.9 | 274.4 | 262.6 | 247.9 |
| 75° | 1064.7 | 769.7 | 218.4 | 214.3 | 192.6 | 244.3 | 355.9 | 320.2 | 264.9 | 249.2 | 241.0 |
| 77.5° | 418.9 | 319.4 | 189.6 | 196.0 | 168.4 | 215.7 | 335.9 | 305.5 | 251.8 | 231.2 | 227.1 |
| 80° | 171.0 | 163.0 | 157.2 | 169.4 | 144.8 | 188.7 | 311.7 | 288.3 | 236.1 | 214.4 | 206.2 |
| 82.5° | 97.0 | 101.4 | 122.1 | 133.8 | 117.6 | 173.8 | 300.1 | 274.4 | 217.3 | 192.1 | 182.3 |
| 85° | 49.7 | 59.4 | 85.1 | 95.9 | 86.4 | 147.8 | 276.5 | 240.2 | 174.4 | 147.1 | 147.8 |
| 87.5° | 23.9 | 33.2 | 53.8 | 60.2 | 56.1 | 106.9 | 206.5 | 174.1 | 135.8 | 107.5 | 104.1 |
| 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)