

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: P382731

Luminaire Tested: **GLEON-SA1A-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4545.9 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

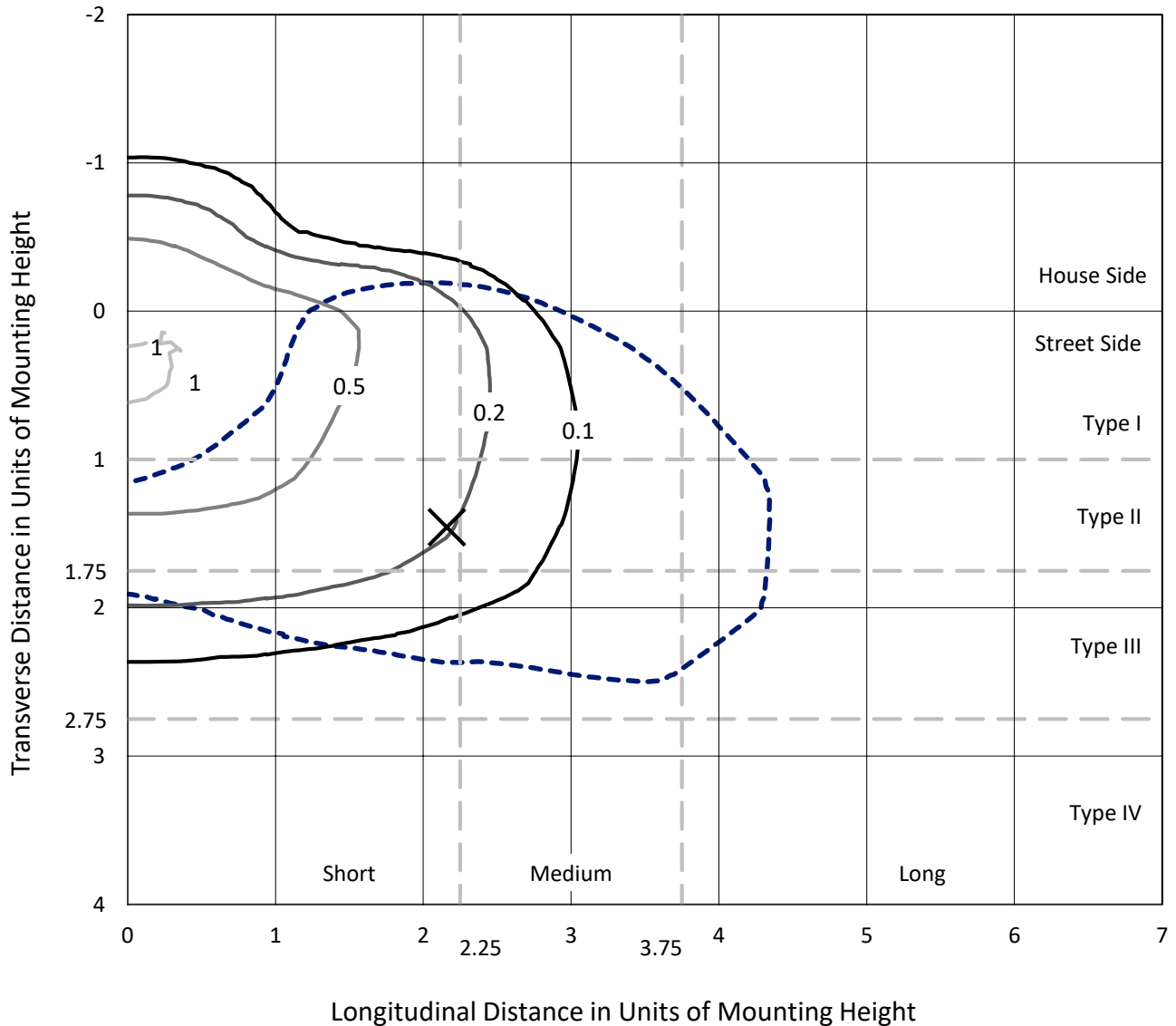
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

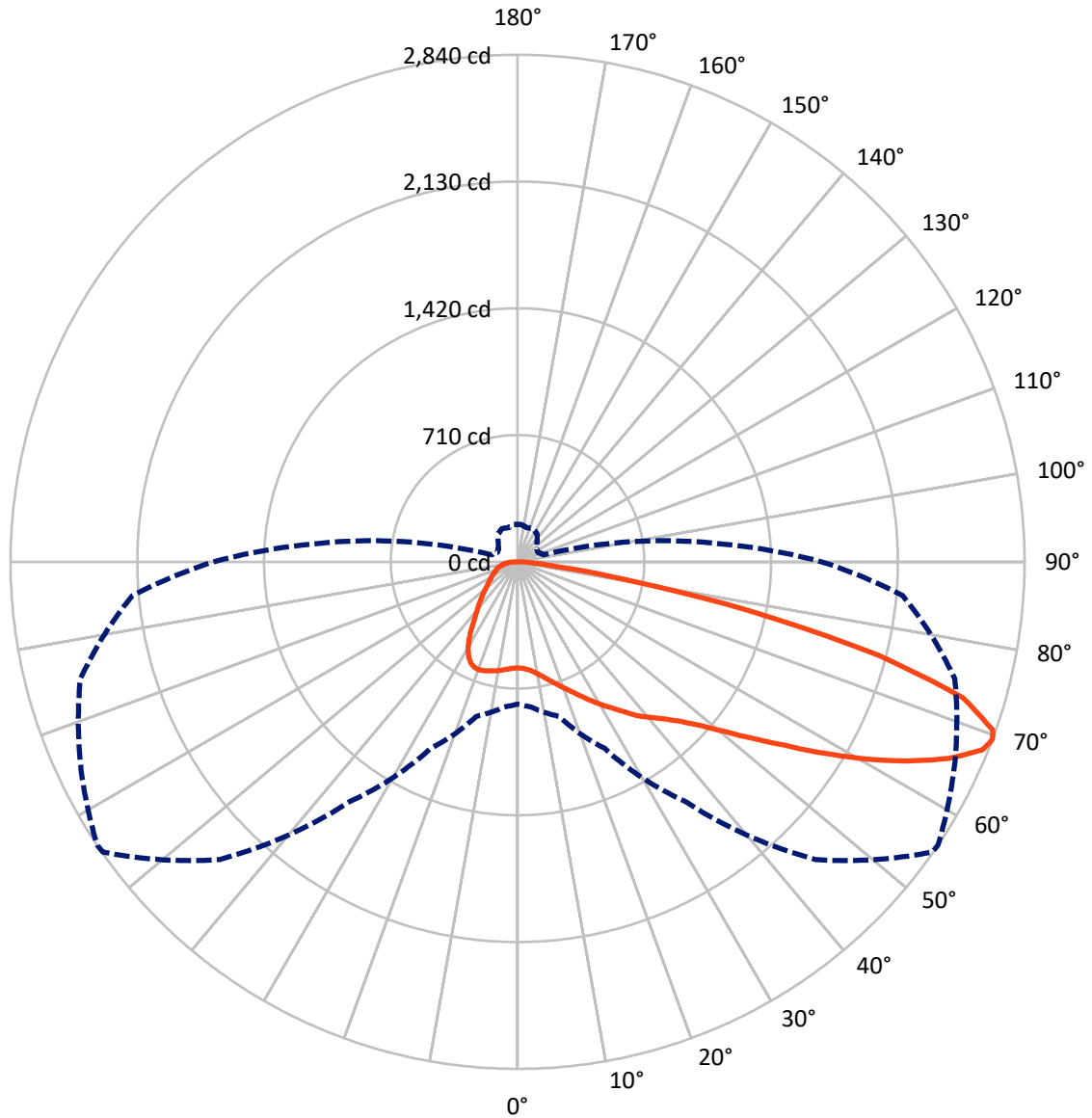
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1012.4 | 0.0 | 1012.4 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 3533.6 | 0.0 | 3533.6 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 4545.9 | 0.0 | 4545.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.4 | 1.3 |
| 10°-20° | 187.7 | 4.1 |
| 20°-30° | 327.7 | 7.2 |
| 30°-40° | 470.7 | 10.4 |
| 40°-50° | 651.4 | 14.3 |
| 50°-60° | 954.3 | 21.0 |
| 60°-70° | 1163.5 | 25.6 |
| 70°-80° | 643.3 | 14.2 |
| 80°-90° | 89.1 | 2.0 |
| 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° | 4545.9 | 100.0 |
| 0°-180° | 4545.9 | 100.0 |

Coefficient of Utilization



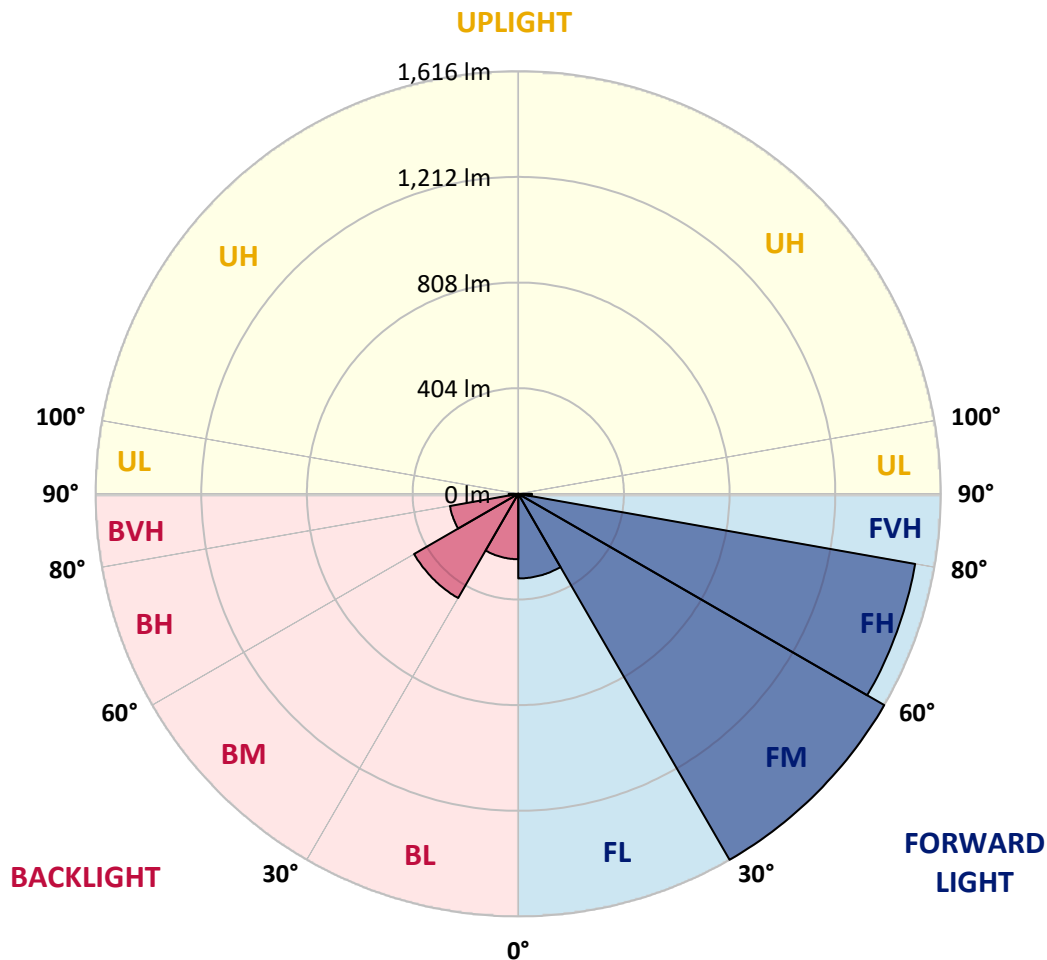
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 323.5 | 7.1 | | | |
| FM (30°-60°) | 1616.2 | 35.6 | | | |
| FH (60°-80°) | 1541.3 | 33.9 | | | G1/1800 |
| FVH (80°-90°) | 52.5 | 1.2 | | | G1/100 |
| BL (0°-30°) | 250.2 | 5.5 | B1/500 | | |
| BM (30°-60°) | 460.1 | 10.1 | B1/1000 | | |
| BH (60°-80°) | 265.5 | 5.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 36.6 | 0.8 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 |
| 2.5° | 598.1 | 598.7 | 598.2 | 599.5 | 598.1 | 599.0 | 598.2 | 598.2 | 597.8 | 596.4 | 594.8 |
| 5° | 607.5 | 608.8 | 607.9 | 609.2 | 607.5 | 607.7 | 606.3 | 606.3 | 604.9 | 602.0 | 598.9 |
| 7.5° | 622.2 | 623.6 | 623.0 | 624.2 | 621.9 | 621.9 | 620.0 | 619.9 | 617.1 | 612.2 | 608.6 |
| 10° | 639.7 | 641.6 | 641.0 | 642.9 | 641.0 | 641.6 | 639.7 | 639.7 | 636.0 | 629.1 | 624.5 |
| 12.5° | 665.2 | 667.6 | 665.9 | 665.7 | 664.9 | 666.2 | 664.7 | 664.3 | 660.8 | 651.4 | 645.2 |
| 15° | 699.4 | 701.9 | 698.3 | 698.0 | 693.6 | 693.2 | 693.2 | 692.7 | 690.5 | 679.2 | 668.9 |
| 17.5° | 738.7 | 739.5 | 736.4 | 731.4 | 725.7 | 722.1 | 721.7 | 722.9 | 722.9 | 709.7 | 693.3 |
| 20° | 777.2 | 778.7 | 776.2 | 770.5 | 763.3 | 758.0 | 754.2 | 756.7 | 756.6 | 740.9 | 717.6 |
| 22.5° | 819.2 | 822.5 | 818.7 | 811.6 | 803.1 | 797.1 | 790.5 | 792.7 | 792.9 | 773.7 | 741.3 |
| 25° | 873.5 | 870.5 | 868.2 | 858.0 | 845.9 | 839.9 | 833.7 | 836.0 | 835.3 | 808.9 | 765.9 |
| 27.5° | 921.6 | 922.2 | 919.2 | 908.4 | 894.4 | 880.9 | 880.6 | 882.0 | 879.7 | 845.5 | 789.1 |
| 30° | 977.6 | 977.8 | 973.5 | 963.8 | 948.6 | 931.2 | 927.1 | 929.4 | 924.5 | 880.3 | 813.5 |
| 32.5° | 1033.1 | 1034.7 | 1029.8 | 1018.1 | 1005.9 | 984.7 | 976.5 | 978.1 | 965.6 | 915.8 | 838.8 |
| 35° | 1081.8 | 1084.0 | 1082.5 | 1074.6 | 1061.3 | 1043.1 | 1033.5 | 1032.5 | 1017.0 | 959.4 | 872.1 |
| 37.5° | 1131.5 | 1133.5 | 1131.7 | 1125.2 | 1119.9 | 1100.6 | 1095.4 | 1095.4 | 1068.5 | 1003.8 | 914.6 |
| 40° | 1182.5 | 1185.7 | 1183.6 | 1174.5 | 1170.0 | 1161.3 | 1148.9 | 1145.9 | 1116.7 | 1057.2 | 983.8 |
| 42.5° | 1230.0 | 1234.0 | 1242.2 | 1236.9 | 1227.6 | 1228.9 | 1203.9 | 1202.4 | 1181.1 | 1136.2 | 1070.7 |
| 45° | 1297.3 | 1303.2 | 1317.0 | 1313.0 | 1311.1 | 1304.2 | 1274.6 | 1273.2 | 1265.0 | 1242.3 | 1178.6 |
| 47.5° | 1370.8 | 1378.9 | 1403.8 | 1404.6 | 1424.8 | 1411.8 | 1371.5 | 1366.7 | 1368.5 | 1369.5 | 1310.3 |
| 50° | 1438.4 | 1447.3 | 1488.2 | 1507.4 | 1555.1 | 1557.9 | 1493.6 | 1489.2 | 1496.5 | 1518.1 | 1463.7 |
| 52.5° | 1492.4 | 1503.7 | 1554.8 | 1614.3 | 1695.9 | 1719.1 | 1643.7 | 1640.5 | 1646.0 | 1683.2 | 1637.3 |
| 55° | 1532.0 | 1544.3 | 1599.8 | 1708.3 | 1838.5 | 1879.4 | 1816.6 | 1813.4 | 1816.9 | 1864.4 | 1826.0 |
| 57.5° | 1541.3 | 1544.3 | 1624.9 | 1771.5 | 1959.0 | 2057.1 | 2028.2 | 2021.9 | 2005.0 | 2046.3 | 2034.3 |
| 60° | 1497.9 | 1509.9 | 1604.2 | 1793.8 | 2052.1 | 2232.4 | 2249.3 | 2241.5 | 2194.1 | 2227.9 | 2218.1 |
| 62.5° | 1409.9 | 1431.2 | 1527.1 | 1759.9 | 2088.6 | 2375.5 | 2466.2 | 2456.8 | 2375.1 | 2397.0 | 2350.3 |
| 65° | 1266.2 | 1275.2 | 1375.9 | 1643.2 | 2042.3 | 2467.1 | 2659.7 | 2654.9 | 2552.1 | 2517.7 | 2374.8 |
| 67.5° | 1009.0 | 1026.1 | 1111.6 | 1399.5 | 1852.7 | 2456.3 | 2809.2 | 2808.7 | 2667.6 | 2562.5 | 2288.2 |
| 69° | 797.1 | 814.8 | 896.2 | 1152.8 | 1639.3 | 2357.6 | 2834.2 | 2839.7 | 2700.2 | 2535.3 | 2164.5 |
| 70° | 635.5 | 656.0 | 711.9 | 971.0 | 1450.0 | 2227.2 | 2813.4 | 2823.2 | 2693.9 | 2490.3 | 2050.2 |
| 72.5° | 270.4 | 287.1 | 326.9 | 500.5 | 883.8 | 1663.2 | 2572.4 | 2609.6 | 2548.7 | 2279.2 | 1694.5 |
| 75° | 118.1 | 123.2 | 141.2 | 204.1 | 392.3 | 905.2 | 2015.2 | 2084.1 | 2179.4 | 1926.5 | 1262.2 |
| 77.5° | 86.4 | 88.7 | 98.5 | 119.8 | 176.1 | 341.9 | 1295.9 | 1336.0 | 1571.7 | 1401.9 | 774.2 |
| 80° | 66.9 | 68.5 | 76.1 | 88.0 | 115.0 | 138.2 | 591.1 | 625.4 | 883.8 | 720.1 | 322.4 |
| 82.5° | 53.3 | 54.3 | 59.7 | 64.8 | 79.4 | 83.7 | 196.2 | 217.7 | 326.2 | 198.9 | 85.3 |
| 85° | 49.5 | 50.8 | 52.6 | 47.3 | 50.9 | 49.2 | 84.9 | 88.8 | 98.5 | 78.2 | 35.7 |
| 87.5° | 22.4 | 26.5 | 52.2 | 36.8 | 27.1 | 21.6 | 34.7 | 36.3 | 40.9 | 41.0 | 15.8 |
| 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° | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 | 594.3 |
| 2.5° | 595.7 | 595.3 | 596.0 | 594.1 | 596.5 | 596.4 | 595.5 | 595.9 | 597.4 | 597.3 | 597.4 |
| 5° | 599.4 | 599.0 | 599.9 | 598.5 | 601.4 | 602.3 | 602.4 | 603.8 | 605.6 | 606.1 | 606.1 |
| 7.5° | 608.4 | 608.4 | 608.9 | 607.0 | 608.9 | 608.8 | 607.9 | 609.3 | 611.1 | 611.2 | 611.1 |
| 10° | 624.0 | 624.2 | 623.5 | 618.5 | 617.1 | 612.8 | 608.9 | 609.0 | 611.2 | 613.0 | 613.4 |
| 12.5° | 643.8 | 643.1 | 639.7 | 630.8 | 624.2 | 615.6 | 611.6 | 611.4 | 613.6 | 615.0 | 615.5 |
| 15° | 666.3 | 664.7 | 655.7 | 641.2 | 629.5 | 621.1 | 614.5 | 613.0 | 611.7 | 610.2 | 610.3 |
| 17.5° | 687.7 | 683.8 | 668.9 | 648.6 | 636.4 | 625.2 | 612.5 | 602.3 | 595.3 | 591.2 | 589.9 |
| 20° | 709.3 | 701.5 | 680.1 | 655.7 | 640.2 | 619.7 | 595.3 | 574.6 | 561.7 | 555.8 | 554.7 |
| 22.5° | 729.0 | 716.6 | 690.6 | 663.1 | 637.2 | 601.2 | 562.8 | 532.8 | 515.0 | 506.9 | 507.6 |
| 25° | 748.2 | 731.0 | 701.5 | 668.2 | 622.2 | 568.6 | 517.8 | 480.8 | 460.1 | 451.1 | 450.9 |
| 27.5° | 765.2 | 745.6 | 713.5 | 664.0 | 594.1 | 522.3 | 464.4 | 428.3 | 411.1 | 403.5 | 402.1 |
| 30° | 784.5 | 764.0 | 729.3 | 647.9 | 553.2 | 468.8 | 412.2 | 386.8 | 374.6 | 366.9 | 365.5 |
| 32.5° | 808.2 | 788.8 | 742.4 | 618.5 | 500.7 | 412.8 | 371.5 | 353.8 | 342.6 | 334.1 | 332.5 |
| 35° | 842.7 | 821.7 | 745.6 | 576.6 | 443.0 | 368.6 | 341.6 | 323.4 | 308.3 | 297.3 | 296.1 |
| 37.5° | 885.9 | 862.9 | 738.1 | 522.3 | 387.2 | 340.0 | 316.6 | 294.3 | 274.7 | 259.1 | 256.5 |
| 40° | 948.2 | 913.5 | 717.3 | 459.6 | 346.0 | 317.9 | 292.4 | 266.9 | 242.6 | 224.2 | 220.7 |
| 42.5° | 1023.1 | 972.8 | 685.3 | 397.3 | 315.7 | 295.5 | 268.3 | 236.6 | 213.4 | 200.5 | 198.6 |
| 45° | 1118.3 | 1034.6 | 641.0 | 342.8 | 286.0 | 273.1 | 242.3 | 213.1 | 198.7 | 189.2 | 187.6 |
| 47.5° | 1227.0 | 1103.8 | 594.5 | 298.5 | 260.7 | 252.2 | 221.4 | 202.6 | 191.2 | 183.7 | 182.3 |
| 50° | 1360.6 | 1181.9 | 545.1 | 262.1 | 235.4 | 226.9 | 211.6 | 196.8 | 187.8 | 181.9 | 180.5 |
| 52.5° | 1511.2 | 1270.1 | 509.6 | 233.5 | 214.3 | 208.3 | 206.4 | 193.8 | 186.4 | 181.9 | 180.5 |
| 55° | 1673.4 | 1359.8 | 471.3 | 209.4 | 196.2 | 198.0 | 203.0 | 194.0 | 189.0 | 183.7 | 181.7 |
| 57.5° | 1835.9 | 1452.5 | 428.5 | 189.0 | 181.8 | 190.3 | 200.7 | 194.7 | 190.4 | 185.3 | 183.4 |
| 60° | 1964.3 | 1511.2 | 362.2 | 172.0 | 170.4 | 181.8 | 195.0 | 189.9 | 184.4 | 184.6 | 184.4 |
| 62.5° | 2024.3 | 1508.1 | 289.1 | 156.8 | 158.9 | 170.4 | 185.8 | 182.6 | 178.0 | 184.2 | 184.6 |
| 65° | 1990.6 | 1432.9 | 225.1 | 143.0 | 146.7 | 158.5 | 176.5 | 179.0 | 180.5 | 192.3 | 193.9 |
| 67.5° | 1849.3 | 1286.7 | 174.3 | 130.9 | 135.6 | 150.4 | 177.5 | 195.0 | 197.0 | 209.4 | 209.2 |
| 69° | 1703.2 | 1149.4 | 151.5 | 124.6 | 130.1 | 152.4 | 189.7 | 205.1 | 197.5 | 210.6 | 208.8 |
| 70° | 1580.7 | 1040.9 | 139.3 | 120.4 | 127.6 | 155.9 | 197.8 | 205.0 | 195.2 | 206.4 | 203.3 |
| 72.5° | 1217.4 | 748.9 | 118.1 | 112.6 | 119.1 | 149.2 | 200.1 | 200.5 | 189.7 | 191.8 | 186.5 |
| 75° | 835.0 | 473.2 | 103.0 | 101.9 | 106.3 | 134.5 | 192.6 | 191.5 | 175.4 | 172.2 | 167.9 |
| 77.5° | 460.5 | 240.4 | 87.6 | 91.8 | 94.7 | 119.1 | 175.0 | 173.5 | 160.2 | 153.6 | 152.0 |
| 80° | 177.6 | 105.3 | 73.9 | 81.6 | 83.5 | 103.2 | 153.5 | 152.0 | 140.9 | 132.5 | 130.1 |
| 82.5° | 67.1 | 55.1 | 61.1 | 70.6 | 70.0 | 85.2 | 130.0 | 129.2 | 118.4 | 106.0 | 102.3 |
| 85° | 31.0 | 33.1 | 48.3 | 58.2 | 53.8 | 63.1 | 104.0 | 105.4 | 92.2 | 77.5 | 77.5 |
| 87.5° | 13.1 | 18.4 | 34.3 | 44.0 | 36.1 | 42.6 | 76.3 | 72.8 | 66.9 | 46.4 | 43.5 |
| 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)