

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: P269989

Luminaire Tested: **GPC-AF-01-LED-E1-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-T3R-7027
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5646.5 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

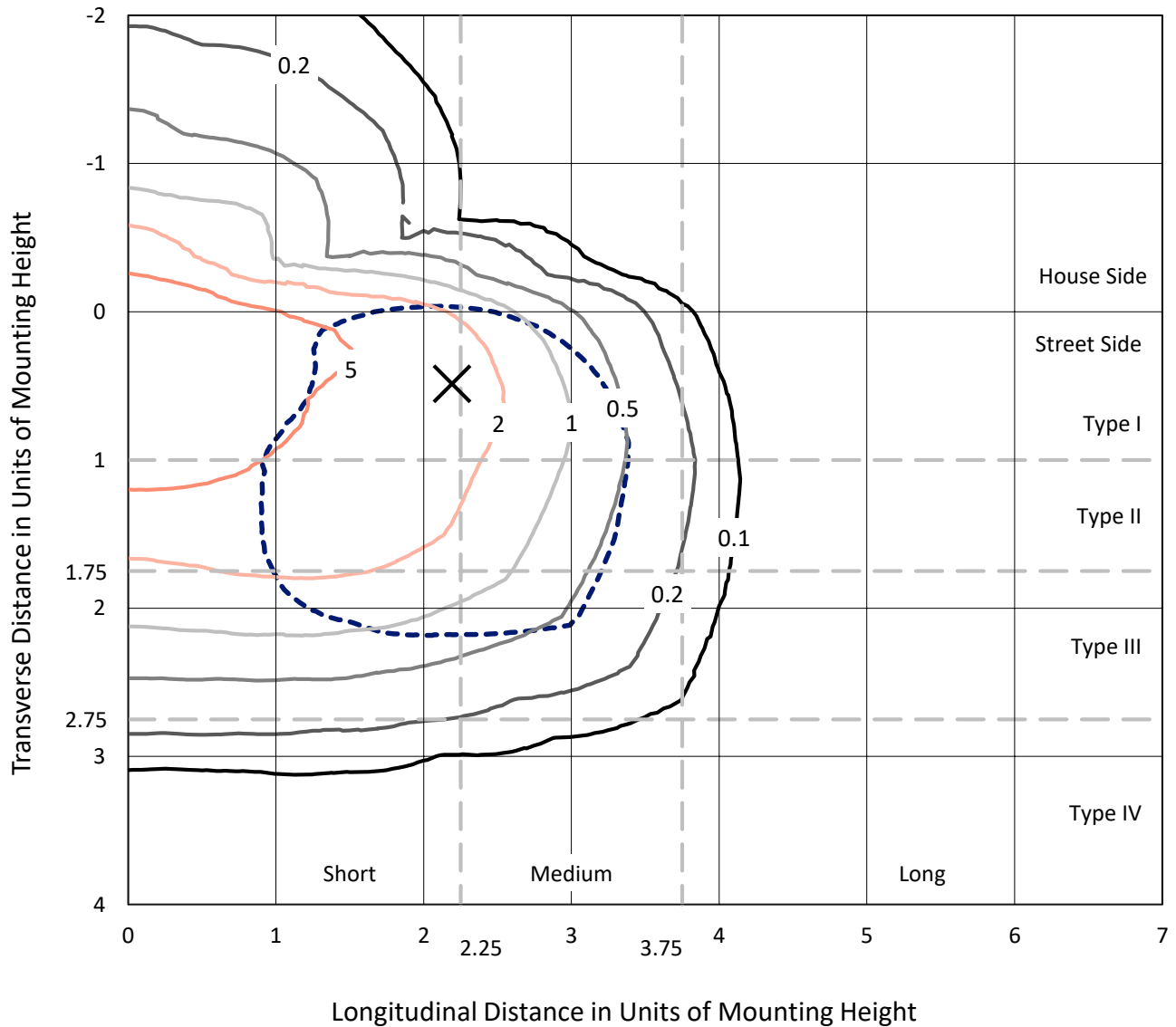
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

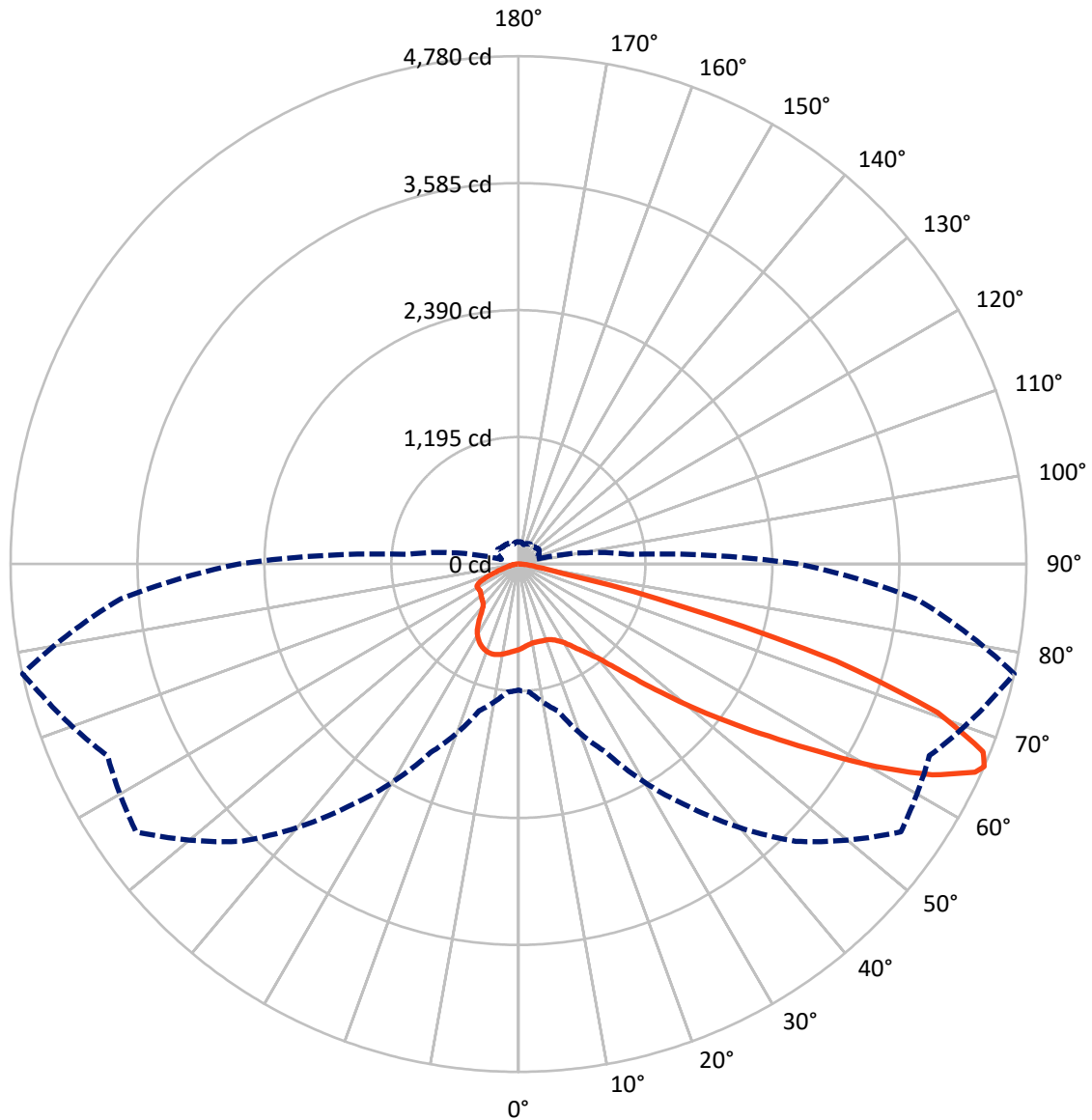
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 964.7 | 0.0 | 964.7 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 4681.8 | 0.0 | 4681.8 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 5646.5 | 0.0 | 5646.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.9 | 1.3 |
| 10°-20° | 202.8 | 3.6 |
| 20°-30° | 346.1 | 6.1 |
| 30°-40° | 554.1 | 9.8 |
| 40°-50° | 856.0 | 15.2 |
| 50°-60° | 1214.1 | 21.5 |
| 60°-70° | 1624.2 | 28.8 |
| 70°-80° | 705.3 | 12.5 |
| 80°-90° | 71.9 | 1.3 |
| 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° | 5646.5 | 100.0 |
| 0°-180° | 5646.5 | 100.0 |



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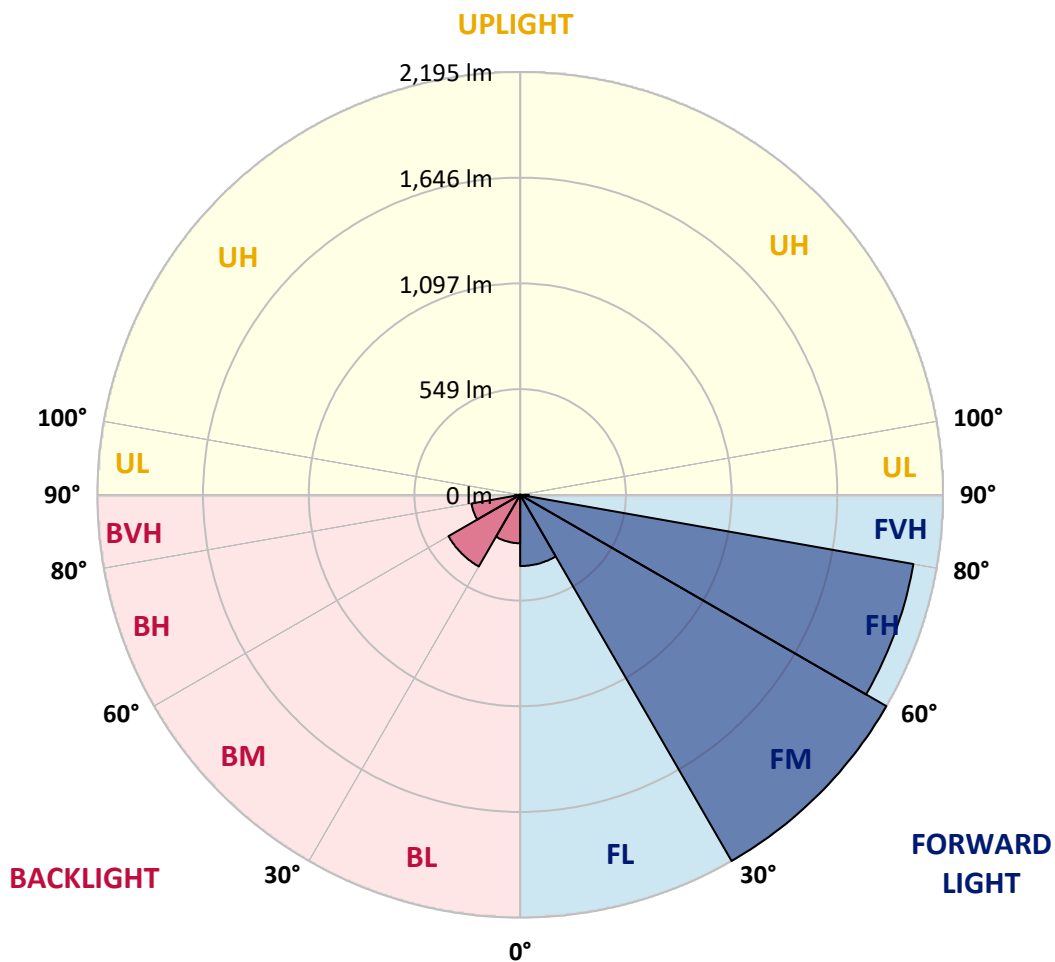
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 369.6 | 6.5 | | | |
| FM | (30°-60°) | 2194.5 | 38.9 | | | |
| FH | (60°-80°) | 2072.6 | 36.7 | | | G2/5000 |
| FVH | (80°-90°) | 45.1 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 251.2 | 4.4 | B1/500 | | |
| BM | (30°-60°) | 429.7 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 256.9 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 26.8 | 0.5 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 |
| 2.5° | 711.7 | 716.6 | 720.6 | 724.4 | 731.8 | 744.1 | 758.2 | 769.7 | 786.2 | 789.4 | 798.2 |
| 5° | 646.4 | 646.4 | 649.7 | 655.3 | 665.4 | 683.8 | 703.1 | 728.6 | 764.6 | 773.3 | 796.6 |
| 7.5° | 614.7 | 615.0 | 616.9 | 621.6 | 630.4 | 647.3 | 668.2 | 698.4 | 747.3 | 761.5 | 801.5 |
| 10° | 626.4 | 623.8 | 619.8 | 617.3 | 618.8 | 628.5 | 648.5 | 682.3 | 736.6 | 754.8 | 812.1 |
| 12.5° | 692.1 | 687.1 | 673.1 | 654.8 | 637.1 | 629.9 | 641.6 | 674.4 | 732.1 | 753.1 | 826.3 |
| 15° | 799.3 | 797.2 | 771.4 | 733.1 | 690.4 | 654.8 | 646.7 | 671.6 | 732.6 | 755.0 | 843.1 |
| 17.5° | 933.8 | 930.9 | 896.7 | 841.3 | 771.6 | 701.9 | 664.6 | 673.9 | 734.5 | 758.2 | 859.4 |
| 20° | 1069.6 | 1060.4 | 1023.7 | 957.6 | 868.1 | 766.3 | 694.2 | 680.0 | 736.9 | 761.8 | 876.4 |
| 22.5° | 1170.9 | 1163.5 | 1130.3 | 1066.1 | 963.2 | 840.6 | 733.9 | 690.7 | 744.7 | 771.9 | 897.4 |
| 25° | 1260.1 | 1260.6 | 1227.8 | 1165.6 | 1059.2 | 919.7 | 785.2 | 719.3 | 764.4 | 792.7 | 926.3 |
| 27.5° | 1370.3 | 1363.8 | 1333.2 | 1271.6 | 1154.1 | 999.5 | 847.1 | 758.4 | 793.7 | 822.3 | 964.2 |
| 30° | 1502.1 | 1497.6 | 1462.0 | 1392.2 | 1259.6 | 1085.1 | 917.8 | 804.2 | 831.7 | 861.2 | 1013.7 |
| 32.5° | 1657.1 | 1654.9 | 1618.0 | 1528.1 | 1381.1 | 1185.9 | 1000.7 | 864.3 | 888.2 | 918.8 | 1085.1 |
| 35° | 1839.0 | 1839.3 | 1795.8 | 1687.7 | 1514.4 | 1303.4 | 1094.9 | 942.1 | 957.0 | 989.0 | 1170.0 |
| 37.5° | 1951.1 | 1964.7 | 1948.5 | 1838.2 | 1665.1 | 1434.6 | 1217.2 | 1045.0 | 1035.4 | 1067.7 | 1261.0 |
| 40° | 1975.1 | 1991.6 | 2043.1 | 1987.1 | 1833.7 | 1579.1 | 1325.4 | 1144.0 | 1132.0 | 1171.5 | 1378.0 |
| 42.5° | 1941.4 | 1964.5 | 2073.3 | 2112.8 | 2012.7 | 1757.4 | 1471.2 | 1291.0 | 1275.9 | 1329.0 | 1523.6 |
| 45° | 1921.5 | 1938.5 | 2064.5 | 2178.1 | 2168.0 | 1958.8 | 1656.6 | 1475.6 | 1470.0 | 1539.7 | 1691.8 |
| 47.5° | 1886.8 | 1902.3 | 2023.3 | 2193.3 | 2259.1 | 2143.4 | 1879.3 | 1701.3 | 1712.3 | 1803.4 | 1881.4 |
| 50° | 1905.5 | 1911.9 | 1977.4 | 2154.7 | 2285.6 | 2278.7 | 2128.3 | 1962.7 | 2000.2 | 2114.2 | 2096.1 |
| 52.5° | 1902.8 | 1919.3 | 1972.0 | 2091.2 | 2289.2 | 2362.3 | 2373.4 | 2254.3 | 2333.1 | 2463.8 | 2334.4 |
| 55° | 1538.3 | 1568.7 | 1909.4 | 2075.2 | 2301.4 | 2444.1 | 2591.6 | 2561.7 | 2708.5 | 2860.8 | 2603.4 |
| 57.5° | 1469.0 | 1488.2 | 1677.0 | 2108.7 | 2366.4 | 2600.5 | 2834.4 | 2900.1 | 3145.4 | 3322.4 | 2931.0 |
| 60° | 1455.3 | 1479.1 | 1674.7 | 2149.9 | 2498.5 | 2855.3 | 3194.4 | 3309.5 | 3677.2 | 3870.8 | 3311.0 |
| 62.5° | 1412.9 | 1438.5 | 1658.9 | 2144.4 | 2686.1 | 3207.7 | 3655.1 | 3744.9 | 4181.4 | 4369.9 | 3628.7 |
| 65° | 1278.5 | 1302.5 | 1530.6 | 2058.2 | 2812.6 | 3583.9 | 4200.4 | 4144.2 | 4579.5 | 4721.1 | 3787.2 |
| 66° | 1186.4 | 1209.8 | 1429.5 | 1957.0 | 2783.2 | 3690.5 | 4393.5 | 4267.6 | 4668.6 | 4779.6 | 3756.3 |
| 67.5° | 1018.0 | 1036.5 | 1233.2 | 1729.9 | 2627.2 | 3720.4 | 4556.1 | 4360.5 | 4678.0 | 4717.2 | 3579.2 |
| 70° | 643.2 | 648.5 | 801.5 | 1194.1 | 1988.7 | 3226.6 | 4308.7 | 4130.0 | 4292.2 | 4186.0 | 3000.6 |
| 72.5° | 279.1 | 277.1 | 384.7 | 607.4 | 1125.8 | 2165.1 | 3485.3 | 3407.7 | 3366.9 | 3124.7 | 2100.4 |
| 75° | 155.2 | 157.5 | 199.9 | 282.0 | 457.5 | 1063.5 | 2280.0 | 2181.9 | 1842.2 | 1571.9 | 952.5 |
| 77.5° | 124.5 | 127.5 | 165.6 | 200.1 | 205.4 | 370.8 | 1066.8 | 868.1 | 522.6 | 419.4 | 264.7 |
| 80° | 98.5 | 103.8 | 144.5 | 155.8 | 138.5 | 152.9 | 344.7 | 275.6 | 206.8 | 189.7 | 137.1 |
| 82.5° | 78.0 | 81.7 | 124.1 | 117.9 | 96.8 | 102.9 | 165.2 | 160.8 | 134.4 | 122.4 | 79.2 |
| 85° | 56.1 | 63.1 | 101.9 | 88.8 | 63.5 | 69.3 | 109.7 | 105.1 | 77.2 | 63.1 | 34.9 |
| 87.5° | 22.9 | 29.9 | 72.0 | 59.0 | 35.6 | 32.2 | 54.6 | 51.6 | 36.6 | 26.7 | 17.3 |
| 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° | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 |
| 2.5° | 803.9 | 810.2 | 818.5 | 823.6 | 826.3 | 828.1 | 831.0 | 830.8 | 831.7 | 831.9 | 832.9 |
| 5° | 809.3 | 819.9 | 831.9 | 835.1 | 835.1 | 832.1 | 829.1 | 824.4 | 822.5 | 821.9 | 822.5 |
| 7.5° | 823.0 | 834.7 | 845.1 | 841.4 | 833.4 | 821.7 | 806.5 | 793.2 | 785.9 | 783.6 | 783.1 |
| 10° | 840.6 | 854.7 | 859.0 | 844.9 | 821.5 | 793.2 | 763.0 | 741.1 | 728.6 | 725.1 | 724.0 |
| 12.5° | 862.1 | 875.4 | 869.5 | 839.6 | 796.1 | 750.4 | 708.9 | 673.9 | 647.8 | 639.6 | 639.0 |
| 15° | 885.5 | 895.9 | 875.4 | 823.0 | 758.2 | 690.9 | 616.9 | 556.5 | 524.0 | 513.7 | 512.8 |
| 17.5° | 907.4 | 912.7 | 871.9 | 794.2 | 702.5 | 593.6 | 495.1 | 448.8 | 437.6 | 440.2 | 440.8 |
| 20° | 926.1 | 926.1 | 860.1 | 752.9 | 614.7 | 465.3 | 403.1 | 402.4 | 410.3 | 418.3 | 420.0 |
| 22.5° | 946.5 | 934.2 | 839.6 | 694.5 | 490.4 | 380.7 | 371.7 | 379.2 | 388.2 | 397.1 | 398.3 |
| 25° | 972.0 | 941.0 | 811.1 | 605.8 | 385.6 | 345.8 | 349.3 | 355.4 | 360.0 | 365.5 | 366.2 |
| 27.5° | 1000.3 | 949.5 | 773.4 | 483.9 | 334.6 | 323.8 | 326.5 | 328.7 | 328.2 | 330.2 | 330.8 |
| 30° | 1034.0 | 959.4 | 722.0 | 378.4 | 313.5 | 305.2 | 300.5 | 298.5 | 298.5 | 302.0 | 303.4 |
| 32.5° | 1079.5 | 974.0 | 648.0 | 324.2 | 303.4 | 291.9 | 276.4 | 269.4 | 272.1 | 283.9 | 286.5 |
| 35° | 1129.3 | 989.8 | 548.0 | 305.8 | 301.2 | 285.8 | 261.8 | 248.9 | 249.2 | 260.1 | 263.7 |
| 37.5° | 1183.7 | 1009.9 | 438.4 | 302.3 | 306.1 | 286.0 | 254.0 | 236.3 | 229.2 | 229.2 | 230.5 |
| 40° | 1253.3 | 1030.4 | 354.8 | 304.6 | 316.2 | 289.3 | 250.0 | 226.6 | 206.3 | 206.8 | 207.9 |
| 42.5° | 1344.1 | 1048.0 | 310.1 | 309.7 | 328.4 | 293.4 | 249.6 | 213.4 | 195.8 | 207.9 | 218.7 |
| 45° | 1445.0 | 1056.8 | 290.2 | 314.2 | 338.3 | 296.1 | 245.4 | 211.3 | 197.2 | 232.9 | 253.7 |
| 47.5° | 1561.1 | 1051.6 | 279.4 | 315.8 | 340.6 | 296.1 | 240.7 | 216.4 | 206.5 | 269.8 | 294.0 |
| 50° | 1688.3 | 1037.1 | 268.7 | 312.7 | 339.9 | 295.6 | 245.1 | 221.4 | 209.9 | 276.0 | 292.9 |
| 52.5° | 1837.9 | 1024.7 | 257.5 | 305.8 | 334.3 | 292.7 | 250.4 | 219.2 | 199.1 | 251.0 | 262.8 |
| 55° | 2008.7 | 1028.2 | 244.9 | 295.9 | 325.5 | 287.1 | 248.7 | 210.7 | 187.6 | 221.2 | 228.3 |
| 57.5° | 2226.9 | 1069.6 | 230.0 | 283.3 | 313.5 | 277.8 | 242.0 | 206.8 | 184.2 | 200.6 | 205.0 |
| 60° | 2470.5 | 1141.6 | 211.3 | 270.7 | 298.5 | 262.8 | 237.0 | 208.6 | 185.7 | 199.1 | 201.2 |
| 62.5° | 2649.2 | 1183.4 | 195.3 | 252.3 | 278.3 | 246.2 | 230.5 | 211.0 | 189.9 | 204.6 | 204.1 |
| 65° | 2697.8 | 1114.6 | 175.3 | 225.5 | 250.7 | 228.9 | 222.5 | 213.6 | 191.8 | 209.1 | 206.8 |
| 66° | 2629.8 | 1040.4 | 166.5 | 212.9 | 237.0 | 220.4 | 218.5 | 213.4 | 191.0 | 209.8 | 205.7 |
| 67.5° | 2464.6 | 888.5 | 151.3 | 194.6 | 214.8 | 207.6 | 212.1 | 211.0 | 189.0 | 209.1 | 203.6 |
| 70° | 2010.0 | 606.1 | 129.4 | 162.0 | 178.8 | 182.7 | 199.9 | 202.5 | 181.9 | 199.9 | 187.6 |
| 72.5° | 1404.4 | 369.3 | 114.4 | 125.7 | 144.5 | 155.8 | 183.1 | 190.8 | 172.7 | 174.5 | 162.8 |
| 75° | 678.7 | 196.1 | 103.8 | 97.3 | 112.3 | 130.3 | 162.8 | 174.7 | 157.9 | 146.0 | 141.7 |
| 77.5° | 211.6 | 119.8 | 88.0 | 78.4 | 88.0 | 105.1 | 136.1 | 153.2 | 140.7 | 122.2 | 120.6 |
| 80° | 113.6 | 88.0 | 67.7 | 63.1 | 69.6 | 82.5 | 107.0 | 127.7 | 120.8 | 109.7 | 97.9 |
| 82.5° | 75.0 | 57.1 | 50.1 | 48.8 | 53.1 | 63.1 | 79.5 | 105.9 | 105.9 | 94.0 | 68.4 |
| 85° | 38.6 | 34.9 | 34.5 | 34.5 | 37.1 | 42.0 | 54.2 | 81.7 | 87.0 | 49.6 | 41.1 |
| 87.5° | 19.3 | 20.0 | 18.7 | 19.5 | 20.8 | 20.5 | 26.0 | 41.1 | 49.0 | 30.2 | 25.2 |
| 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)