

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: P200079

Luminaire Tested: **GPC-AF-01-LED-E1-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6848.7 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - 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

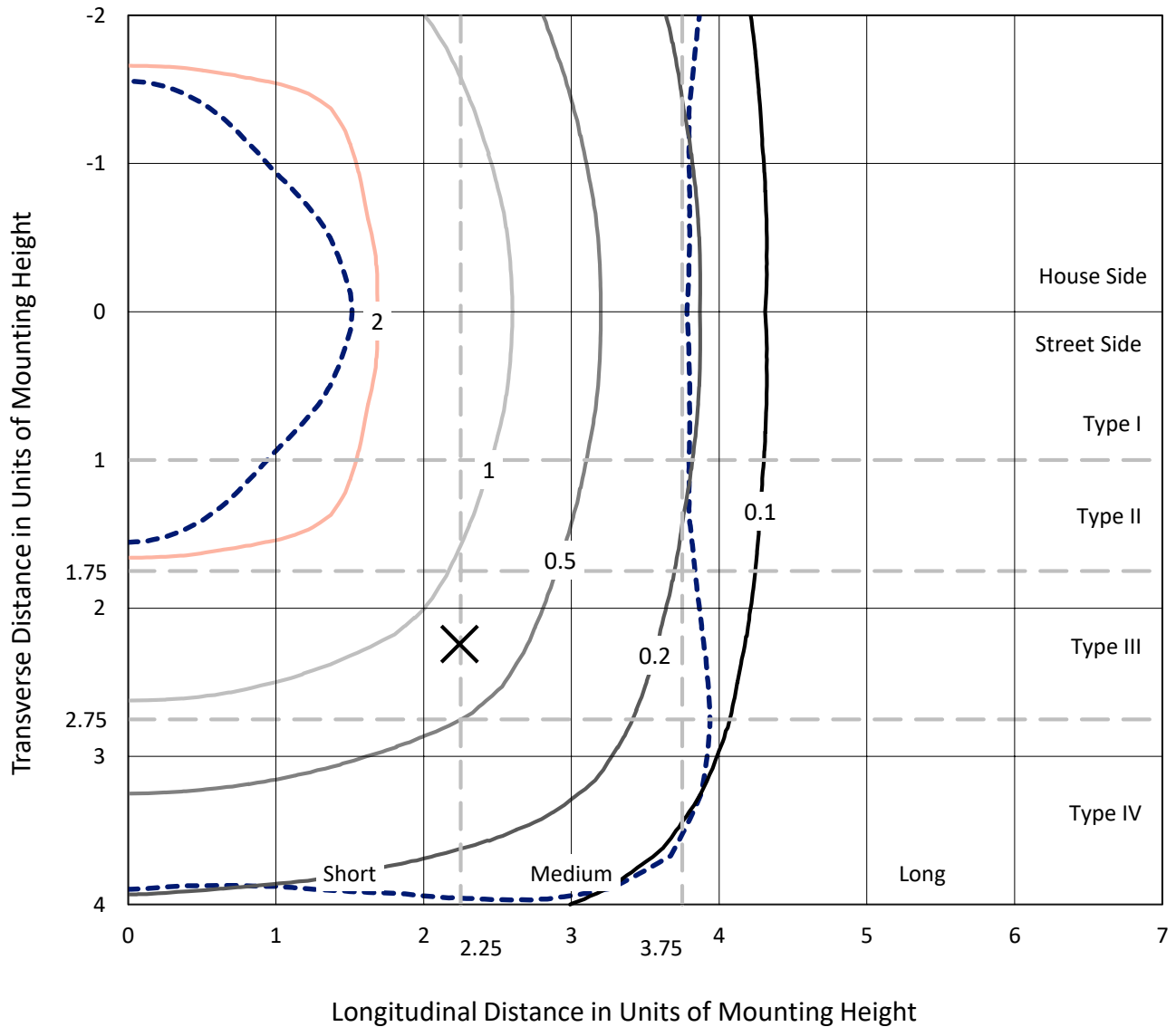


REPORT NUMBER: P200079

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

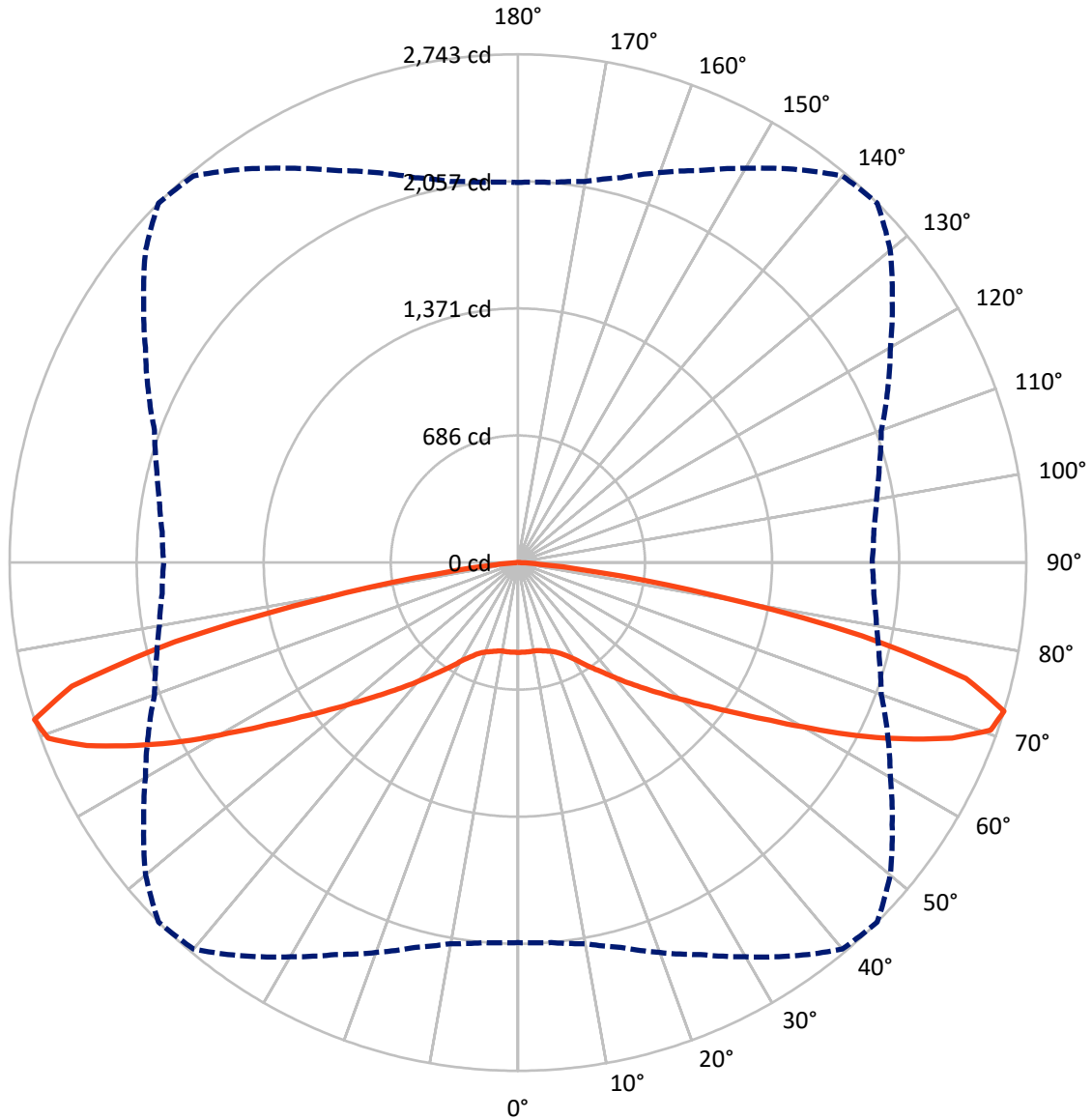


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3424.3 | 0.0 | 3424.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3424.3 | 0.0 | 3424.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6848.7 | 0.0 | 6848.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.3 | 0.7 |
| 10°-20° | 140.7 | 2.1 |
| 20°-30° | 257.0 | 3.8 |
| 30°-40° | 443.2 | 6.5 |
| 40°-50° | 757.6 | 11.1 |
| 50°-60° | 1227.9 | 17.9 |
| 60°-70° | 2037.1 | 29.7 |
| 70°-80° | 1794.2 | 26.2 |
| 80°-90° | 144.7 | 2.1 |
| 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° | 6848.7 | 100.0 |
| 0°-180° | 6848.7 | 100.0 |



REPORT NUMBER: P200079

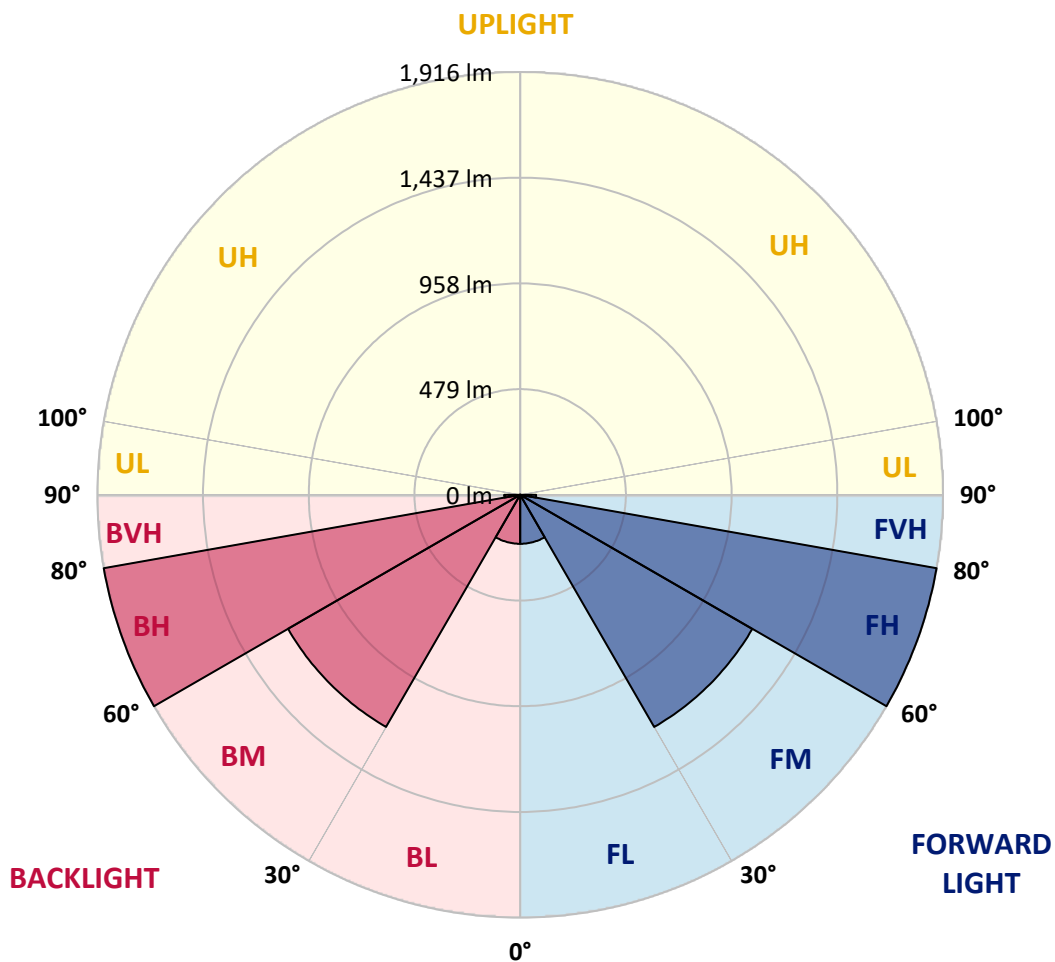
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 222.0 | 3.2 | | | |
| FM | (30°-60°) | 1214.3 | 17.7 | | | |
| FH | (60°-80°) | 1915.7 | 28.0 | | | G2/5000 |
| FVH | (80°-90°) | 72.3 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 222.0 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 1214.3 | 17.7 | B2/2500 | | |
| BH | (60°-80°) | 1915.7 | 28.0 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 72.3 | 1.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P200079

CATALOG NUMBER: GPC-AF-01-LED-E1-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 |
| 2.5° | 485.0 | 485.3 | 485.6 | 485.3 | 485.3 | 485.0 | 484.7 | 485.0 | 484.7 | 484.1 | 484.4 |
| 5° | 486.5 | 487.2 | 487.2 | 486.5 | 486.9 | 486.5 | 485.9 | 486.2 | 485.6 | 484.7 | 484.7 |
| 7.5° | 488.5 | 488.8 | 488.8 | 488.2 | 488.5 | 487.8 | 487.2 | 486.9 | 486.2 | 485.0 | 484.1 |
| 10° | 491.3 | 491.6 | 491.3 | 490.6 | 490.6 | 489.7 | 488.2 | 487.5 | 486.2 | 484.4 | 483.4 |
| 12.5° | 494.4 | 494.7 | 494.4 | 493.8 | 493.5 | 491.9 | 490.6 | 489.7 | 488.8 | 487.2 | 485.6 |
| 15° | 498.8 | 499.4 | 498.8 | 497.6 | 496.6 | 495.3 | 494.7 | 495.0 | 495.3 | 494.1 | 492.6 |
| 17.5° | 507.0 | 507.3 | 506.4 | 503.5 | 502.3 | 501.0 | 501.0 | 501.7 | 502.6 | 502.0 | 500.4 |
| 20° | 522.0 | 521.1 | 518.9 | 515.5 | 513.9 | 511.7 | 511.4 | 511.7 | 511.7 | 511.4 | 510.1 |
| 22.5° | 540.9 | 540.3 | 537.5 | 533.1 | 530.8 | 529.6 | 527.7 | 526.1 | 525.8 | 524.9 | 523.6 |
| 25° | 563.5 | 563.2 | 559.8 | 556.0 | 554.4 | 552.8 | 551.3 | 549.1 | 547.2 | 545.0 | 543.7 |
| 27.5° | 592.4 | 591.2 | 586.2 | 584.2 | 582.1 | 581.1 | 578.9 | 576.4 | 574.8 | 572.0 | 570.4 |
| 30° | 624.1 | 624.1 | 620.0 | 619.4 | 619.4 | 617.2 | 614.7 | 610.3 | 607.5 | 604.7 | 603.7 |
| 32.5° | 655.9 | 656.2 | 652.1 | 653.4 | 654.3 | 655.9 | 656.5 | 654.9 | 653.1 | 652.7 | 650.8 |
| 35° | 701.7 | 700.5 | 696.4 | 697.3 | 697.0 | 696.7 | 696.7 | 700.2 | 700.8 | 701.4 | 697.7 |
| 37.5° | 758.6 | 758.6 | 754.5 | 754.5 | 752.6 | 750.7 | 748.2 | 750.4 | 753.9 | 754.8 | 752.3 |
| 40° | 823.6 | 825.8 | 820.8 | 820.5 | 821.1 | 815.1 | 812.3 | 815.8 | 818.0 | 821.7 | 818.9 |
| 42.5° | 900.3 | 898.7 | 893.6 | 893.0 | 889.6 | 887.7 | 885.2 | 888.0 | 891.5 | 894.0 | 894.9 |
| 45° | 973.7 | 972.5 | 966.8 | 966.8 | 963.4 | 961.8 | 963.1 | 967.8 | 969.3 | 972.8 | 976.3 |
| 47.5° | 1046.3 | 1044.7 | 1041.0 | 1042.6 | 1042.9 | 1045.7 | 1049.8 | 1054.2 | 1058.5 | 1063.3 | 1064.9 |
| 50° | 1120.4 | 1120.7 | 1116.7 | 1120.4 | 1125.1 | 1133.0 | 1144.0 | 1151.2 | 1160.3 | 1166.3 | 1168.2 |
| 52.5° | 1188.0 | 1189.3 | 1193.7 | 1202.4 | 1211.9 | 1227.2 | 1246.1 | 1263.7 | 1278.8 | 1288.8 | 1288.2 |
| 55° | 1269.0 | 1270.9 | 1281.6 | 1296.7 | 1312.0 | 1335.3 | 1363.3 | 1394.4 | 1419.4 | 1434.0 | 1424.9 |
| 57.5° | 1372.7 | 1376.8 | 1388.7 | 1409.1 | 1432.0 | 1462.2 | 1500.6 | 1547.3 | 1586.3 | 1605.7 | 1591.0 |
| 60° | 1515.0 | 1517.4 | 1532.0 | 1554.6 | 1582.2 | 1619.5 | 1670.8 | 1733.6 | 1788.5 | 1814.3 | 1797.3 |
| 62.5° | 1702.5 | 1707.2 | 1718.9 | 1741.8 | 1770.0 | 1812.5 | 1875.0 | 1953.4 | 2022.0 | 2057.8 | 2019.4 |
| 65° | 1926.4 | 1941.6 | 1951.3 | 1974.5 | 2000.9 | 2045.8 | 2111.2 | 2195.4 | 2268.8 | 2292.4 | 2248.1 |
| 67.5° | 2148.2 | 2161.4 | 2178.4 | 2205.1 | 2231.8 | 2282.3 | 2343.0 | 2424.6 | 2505.4 | 2526.7 | 2457.9 |
| 70° | 2245.3 | 2252.8 | 2279.2 | 2315.7 | 2366.8 | 2426.5 | 2496.6 | 2588.3 | 2688.2 | 2705.8 | 2618.4 |
| 72.5° | 2050.8 | 2058.4 | 2087.9 | 2149.8 | 2239.0 | 2333.9 | 2456.0 | 2590.8 | 2722.7 | 2742.5 | 2622.2 |
| 75° | 1551.1 | 1538.8 | 1582.5 | 1664.4 | 1784.7 | 1917.0 | 2087.9 | 2281.1 | 2471.8 | 2496.6 | 2353.0 |
| 77.5° | 801.6 | 800.0 | 833.0 | 934.8 | 1078.4 | 1228.8 | 1417.0 | 1635.3 | 1821.9 | 1897.3 | 1780.4 |
| 80° | 225.9 | 228.3 | 244.1 | 294.6 | 378.5 | 487.2 | 634.2 | 838.7 | 991.3 | 1069.3 | 1003.9 |
| 82.5° | 88.6 | 95.4 | 101.5 | 110.9 | 121.8 | 137.9 | 184.0 | 273.9 | 367.5 | 439.2 | 359.7 |
| 85° | 31.7 | 34.0 | 48.1 | 56.9 | 57.8 | 61.0 | 69.5 | 81.0 | 97.7 | 116.5 | 95.9 |
| 87.5° | 12.0 | 13.2 | 15.3 | 25.5 | 25.2 | 22.9 | 27.9 | 29.3 | 22.0 | 20.2 | 24.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P200079

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 | 485.0 |
| 2.5° | 483.8 | 484.1 | 484.1 | 484.4 | 484.7 | 484.7 | 485.3 | 485.3 |
| 5° | 484.1 | 484.1 | 483.4 | 483.8 | 483.4 | 483.4 | 483.8 | 483.8 |
| 7.5° | 483.4 | 483.1 | 482.5 | 482.1 | 481.5 | 481.5 | 481.5 | 481.5 |
| 10° | 482.5 | 482.1 | 481.5 | 481.2 | 480.9 | 480.9 | 480.9 | 480.9 |
| 12.5° | 485.0 | 484.1 | 483.4 | 483.1 | 483.1 | 483.1 | 483.1 | 483.1 |
| 15° | 491.6 | 489.4 | 487.8 | 487.8 | 488.2 | 488.8 | 488.8 | 489.4 |
| 17.5° | 499.7 | 497.3 | 495.7 | 494.4 | 495.0 | 496.0 | 496.6 | 497.3 |
| 20° | 509.5 | 508.2 | 506.1 | 504.8 | 504.8 | 506.1 | 506.7 | 507.0 |
| 22.5° | 523.0 | 522.0 | 521.1 | 519.6 | 519.6 | 520.2 | 521.4 | 521.4 |
| 25° | 543.1 | 542.5 | 541.9 | 540.6 | 540.3 | 540.3 | 540.9 | 541.6 |
| 27.5° | 568.2 | 568.6 | 567.9 | 567.6 | 566.6 | 566.3 | 567.3 | 567.0 |
| 30° | 601.8 | 603.4 | 605.0 | 603.7 | 602.1 | 601.2 | 600.3 | 599.0 |
| 32.5° | 647.4 | 645.5 | 644.3 | 642.0 | 639.2 | 636.7 | 634.8 | 632.6 |
| 35° | 690.4 | 687.3 | 686.0 | 687.9 | 687.6 | 686.0 | 683.8 | 681.9 |
| 37.5° | 743.2 | 742.6 | 743.2 | 746.7 | 746.0 | 747.6 | 743.2 | 742.9 |
| 40° | 809.8 | 810.4 | 814.8 | 818.9 | 821.1 | 823.3 | 820.8 | 818.3 |
| 42.5° | 887.1 | 886.7 | 888.3 | 894.0 | 897.7 | 900.3 | 894.9 | 894.3 |
| 45° | 968.7 | 966.5 | 967.8 | 972.5 | 976.3 | 979.1 | 973.1 | 973.1 |
| 47.5° | 1058.5 | 1054.8 | 1050.7 | 1056.1 | 1058.2 | 1060.1 | 1055.4 | 1053.8 |
| 50° | 1158.8 | 1150.9 | 1142.1 | 1144.3 | 1144.3 | 1143.7 | 1137.7 | 1137.4 |
| 52.5° | 1273.8 | 1259.3 | 1243.3 | 1237.3 | 1233.9 | 1230.1 | 1219.7 | 1214.7 |
| 55° | 1405.9 | 1384.3 | 1359.2 | 1343.7 | 1335.6 | 1325.2 | 1307.9 | 1303.2 |
| 57.5° | 1560.5 | 1526.5 | 1483.3 | 1464.4 | 1446.1 | 1429.3 | 1410.0 | 1404.7 |
| 60° | 1743.6 | 1693.7 | 1636.2 | 1601.3 | 1581.6 | 1565.2 | 1545.5 | 1544.5 |
| 62.5° | 1947.8 | 1868.9 | 1804.0 | 1772.6 | 1758.0 | 1743.6 | 1724.8 | 1727.4 |
| 65° | 2155.5 | 2073.1 | 2012.2 | 1986.8 | 1973.3 | 1961.3 | 1942.5 | 1945.3 |
| 67.5° | 2360.3 | 2284.6 | 2217.7 | 2191.6 | 2176.5 | 2161.4 | 2144.4 | 2147.3 |
| 70° | 2507.3 | 2413.3 | 2338.0 | 2280.2 | 2244.0 | 2203.2 | 2176.8 | 2170.2 |
| 72.5° | 2465.2 | 2320.4 | 2200.7 | 2086.0 | 2018.8 | 1964.2 | 1927.1 | 1911.1 |
| 75° | 2133.5 | 1935.5 | 1781.7 | 1640.9 | 1561.7 | 1497.4 | 1450.5 | 1421.4 |
| 77.5° | 1584.3 | 1362.0 | 1180.1 | 1018.0 | 889.9 | 803.8 | 743.2 | 703.9 |
| 80° | 867.3 | 659.6 | 482.1 | 338.9 | 249.1 | 207.0 | 182.8 | 171.2 |
| 82.5° | 270.2 | 174.3 | 128.5 | 110.9 | 103.0 | 98.6 | 91.5 | 79.8 |
| 85° | 86.0 | 75.4 | 70.1 | 66.9 | 63.7 | 55.6 | 38.4 | 34.9 |
| 87.5° | 33.2 | 34.3 | 34.0 | 32.0 | 32.6 | 23.5 | 18.8 | 16.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)