

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: P594422

Luminaire Tested: **ISC-PA1F-827-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1F-827-U-T4W-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6364 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

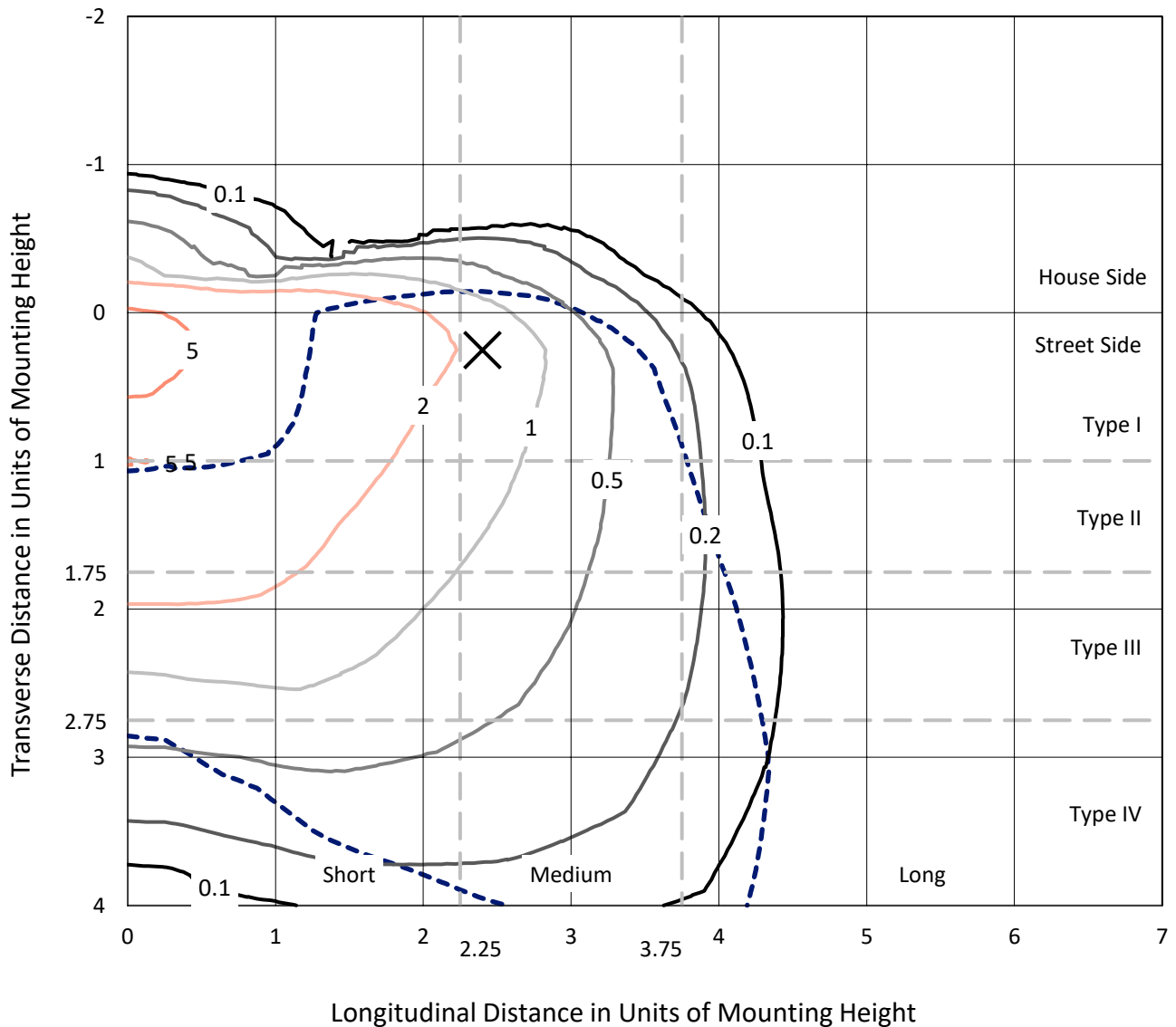
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

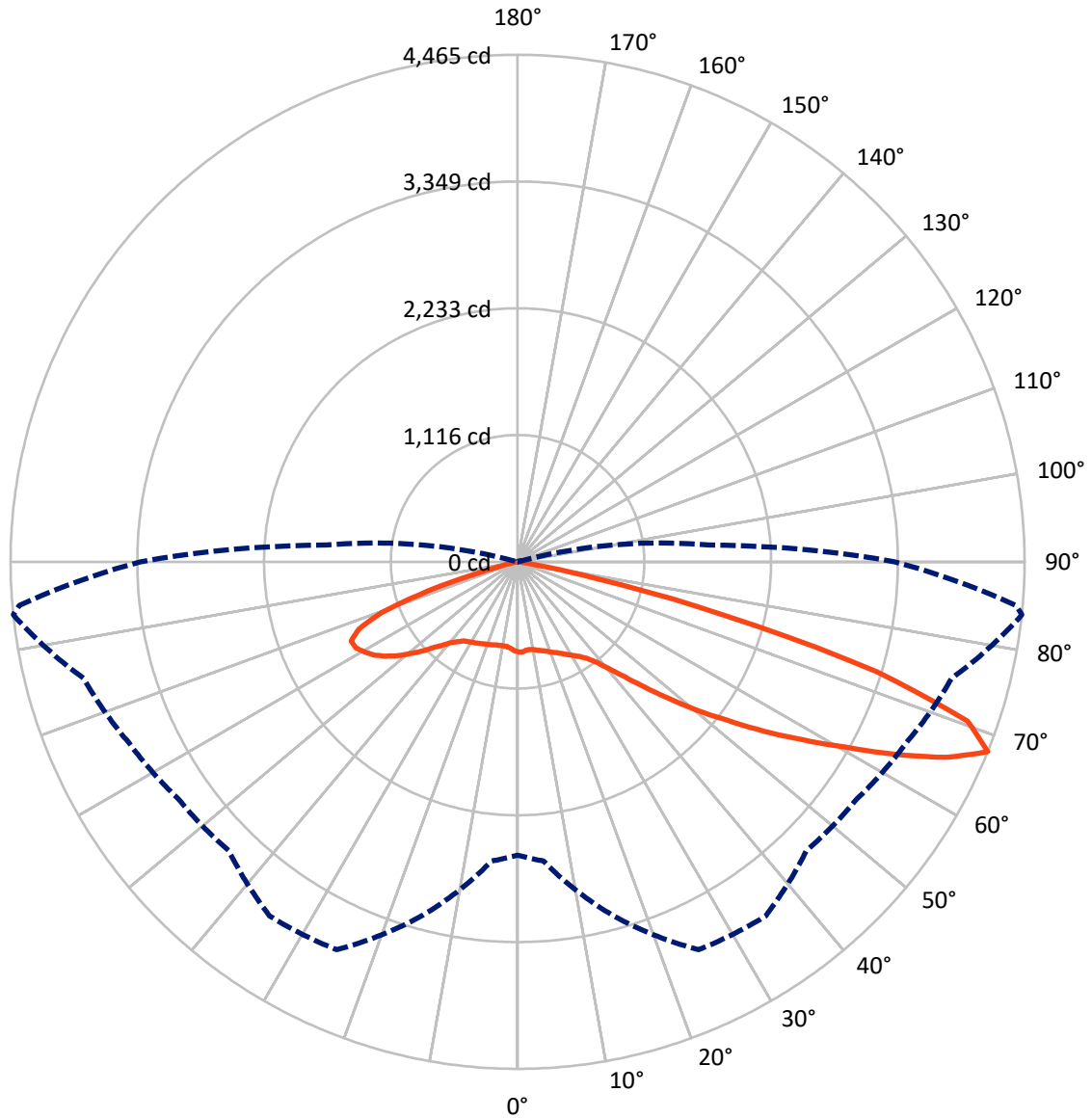
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 554.1 | 0.0 | 554.1 |
| | % Fixture | 8.7 | 0.0 | 8.7 |
| Street Side | Lumens | 5809.9 | 0.0 | 5809.9 |
| | % Fixture | 91.3 | 0.0 | 91.3 |
| Total | Lumens | 6364.0 | 0.0 | 6364.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.1 | 1.1 |
| 10°-20° | 186.0 | 2.9 |
| 20°-30° | 297.8 | 4.7 |
| 30°-40° | 428.6 | 6.7 |
| 40°-50° | 735.6 | 11.6 |
| 50°-60° | 1285.3 | 20.2 |
| 60°-70° | 1840.5 | 28.9 |
| 70°-80° | 1383.4 | 21.7 |
| 80°-90° | 135.8 | 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° | 6364.0 | 100.0 |
| 0°-180° | 6364.0 | 100.0 |

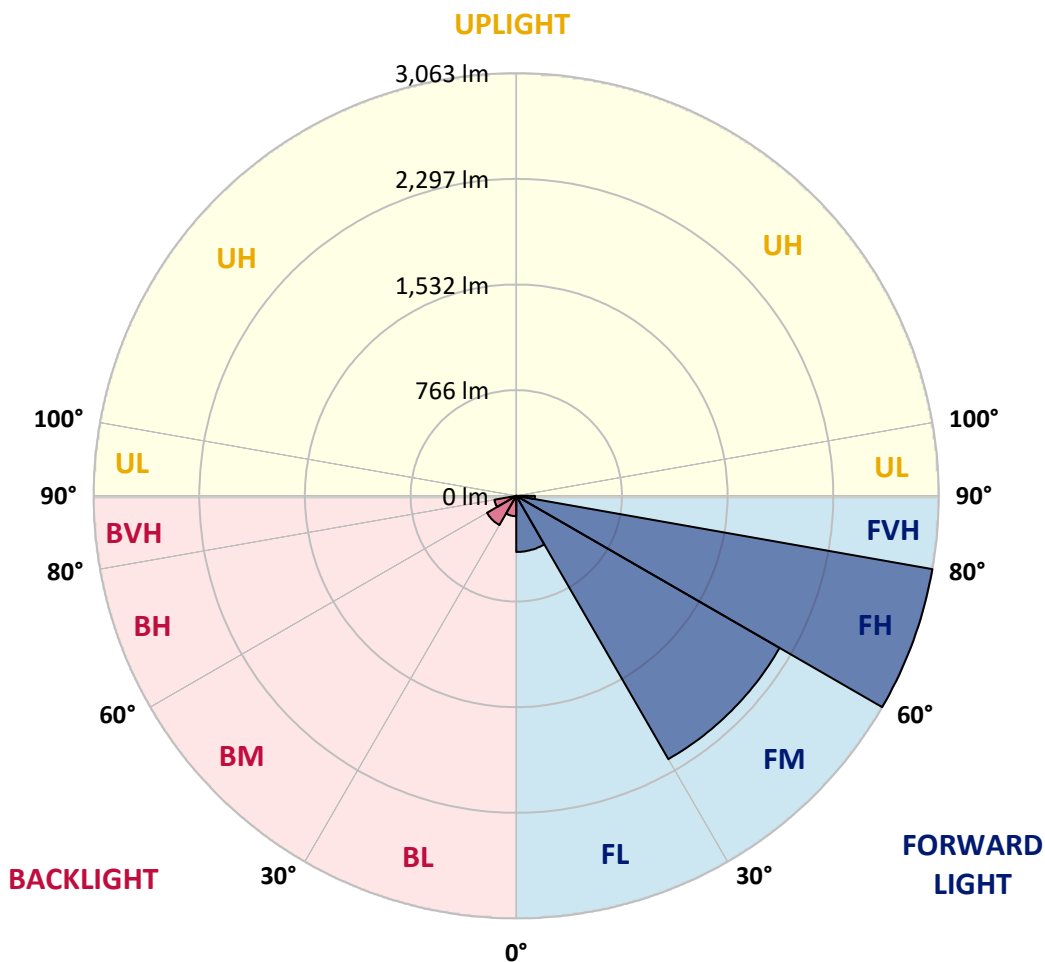


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 406.9 | 6.4 | | | |
| FM (30°-60°) | 2204.4 | 34.6 | | | |
| FH (60°-80°) | 3063.3 | 48.1 | | | G2/5000 |
| FVH (80°-90°) | 135.3 | 2.1 | | | G2/225 |
| BL (0°-30°) | 148.0 | 2.3 | B1/500 | | |
| BM (30°-60°) | 245.0 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 160.6 | 2.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 |
| 2.5° | 838.0 | 842.3 | 844.4 | 833.7 | 833.7 | 825.1 | 812.2 | 807.9 | 801.5 | 795.0 | 792.9 |
| 5° | 881.0 | 887.4 | 885.3 | 872.4 | 865.9 | 848.7 | 831.6 | 814.4 | 797.2 | 782.1 | 782.1 |
| 7.5° | 930.4 | 932.5 | 926.1 | 904.6 | 891.7 | 868.1 | 842.3 | 823.0 | 801.5 | 780.0 | 775.7 |
| 10° | 973.4 | 971.2 | 962.6 | 941.1 | 917.5 | 887.4 | 859.5 | 838.0 | 812.2 | 786.4 | 784.3 |
| 12.5° | 1003.5 | 1005.6 | 994.9 | 964.8 | 941.1 | 906.8 | 878.8 | 857.3 | 827.3 | 799.3 | 792.9 |
| 15° | 1029.2 | 1035.7 | 1022.8 | 992.7 | 958.3 | 928.2 | 906.8 | 878.8 | 844.4 | 812.2 | 807.9 |
| 17.5° | 1052.9 | 1055.0 | 1044.3 | 1009.9 | 977.7 | 951.9 | 928.2 | 902.5 | 868.1 | 827.3 | 823.0 |
| 20° | 1065.8 | 1072.2 | 1065.8 | 1022.8 | 992.7 | 973.4 | 954.0 | 928.2 | 889.6 | 850.9 | 846.6 |
| 22.5° | 1074.4 | 1080.8 | 1078.7 | 1031.4 | 1005.6 | 990.6 | 973.4 | 949.7 | 913.2 | 868.1 | 863.8 |
| 25° | 1078.7 | 1083.0 | 1087.3 | 1040.0 | 1018.5 | 1012.0 | 997.0 | 975.5 | 941.1 | 893.9 | 889.6 |
| 27.5° | 1085.1 | 1089.4 | 1093.7 | 1050.7 | 1042.1 | 1035.7 | 1031.4 | 1014.2 | 973.4 | 923.9 | 917.5 |
| 30° | 1095.8 | 1102.3 | 1106.6 | 1070.1 | 1070.1 | 1076.5 | 1076.5 | 1052.9 | 1007.7 | 956.2 | 951.9 |
| 32.5° | 1108.7 | 1110.9 | 1119.5 | 1089.4 | 1100.1 | 1115.2 | 1110.9 | 1087.3 | 1040.0 | 992.7 | 986.3 |
| 35° | 1143.1 | 1143.1 | 1158.2 | 1119.5 | 1132.4 | 1145.3 | 1149.6 | 1132.4 | 1089.4 | 1042.1 | 1040.0 |
| 37.5° | 1226.9 | 1226.9 | 1239.8 | 1177.5 | 1175.3 | 1188.2 | 1203.3 | 1203.3 | 1160.3 | 1117.3 | 1113.0 |
| 40° | 1416.0 | 1416.0 | 1416.0 | 1272.0 | 1248.4 | 1263.4 | 1287.1 | 1300.0 | 1263.4 | 1233.4 | 1233.4 |
| 42.5° | 1731.9 | 1734.0 | 1701.8 | 1446.1 | 1345.1 | 1370.9 | 1396.7 | 1424.6 | 1405.3 | 1383.8 | 1379.5 |
| 45° | 2058.5 | 2047.7 | 2043.4 | 1701.8 | 1517.0 | 1504.1 | 1536.3 | 1583.6 | 1590.1 | 1577.2 | 1585.8 |
| 47.5° | 2281.9 | 2292.7 | 2299.1 | 2019.8 | 1757.7 | 1669.6 | 1699.6 | 1766.2 | 1804.9 | 1802.8 | 1815.7 |
| 50° | 2499.0 | 2505.4 | 2511.9 | 2370.0 | 2075.7 | 1878.0 | 1897.3 | 1987.6 | 2041.3 | 2058.5 | 2067.1 |
| 52.5° | 2688.0 | 2670.9 | 2698.8 | 2679.5 | 2413.0 | 2116.5 | 2116.5 | 2219.6 | 2316.3 | 2322.8 | 2320.6 |
| 55° | 2743.9 | 2754.7 | 2838.5 | 2896.5 | 2759.0 | 2408.7 | 2365.7 | 2475.3 | 2578.5 | 2632.2 | 2632.2 |
| 57.5° | 2868.5 | 2879.3 | 2980.3 | 3111.3 | 3010.4 | 2696.6 | 2632.2 | 2739.6 | 2851.4 | 2954.5 | 2969.5 |
| 60° | 3031.8 | 3034.0 | 3141.4 | 3341.3 | 3201.6 | 2956.6 | 2902.9 | 3025.4 | 3137.1 | 3313.3 | 3362.7 |
| 62.5° | 3119.9 | 3128.5 | 3276.8 | 3538.9 | 3442.2 | 3184.4 | 3171.5 | 3283.2 | 3427.2 | 3736.6 | 3781.7 |
| 65° | 2984.6 | 3040.4 | 3362.7 | 3657.1 | 3637.8 | 3397.1 | 3442.2 | 3532.5 | 3697.9 | 4151.3 | 4194.3 |
| 67.5° | 2582.8 | 2645.1 | 3220.9 | 3768.9 | 3807.5 | 3597.0 | 3644.2 | 3775.3 | 3957.9 | 4465.0 | 4404.9 |
| 70° | 2378.6 | 2430.2 | 2877.1 | 3831.2 | 3949.3 | 3820.4 | 3841.9 | 3964.4 | 4018.1 | 4202.9 | 4138.4 |
| 72.5° | 1802.8 | 1856.5 | 2434.5 | 3618.4 | 4071.8 | 4054.6 | 4000.9 | 3899.9 | 3581.9 | 3306.9 | 3150.0 |
| 75° | 797.2 | 859.5 | 1620.1 | 2827.7 | 3768.9 | 4187.9 | 3904.2 | 3339.1 | 2572.0 | 1878.0 | 1740.5 |
| 77.5° | 352.4 | 388.9 | 627.4 | 1570.7 | 2832.0 | 3624.9 | 3087.7 | 2226.1 | 1291.4 | 698.3 | 648.9 |
| 80° | 113.9 | 118.2 | 197.7 | 550.1 | 1448.2 | 2400.1 | 1890.9 | 1070.1 | 397.5 | 163.3 | 152.6 |
| 82.5° | 45.1 | 49.4 | 94.5 | 232.1 | 599.5 | 954.0 | 928.2 | 386.8 | 116.0 | 43.0 | 43.0 |
| 85° | 12.9 | 15.0 | 47.3 | 122.5 | 212.7 | 268.6 | 328.8 | 128.9 | 62.3 | 12.9 | 12.9 |
| 87.5° | 4.3 | 4.3 | 17.2 | 38.7 | 40.8 | 27.9 | 62.3 | 49.4 | 38.7 | 4.3 | 4.3 |
| 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° | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 | 792.9 |
| 2.5° | 788.6 | 784.3 | 773.5 | 764.9 | 760.6 | 754.2 | 745.6 | 741.3 | 741.3 | 739.2 | 732.7 |
| 5° | 773.5 | 767.1 | 747.8 | 734.9 | 724.1 | 700.5 | 683.3 | 661.8 | 640.3 | 633.9 | 640.3 |
| 7.5° | 767.1 | 754.2 | 728.4 | 702.6 | 657.5 | 595.2 | 554.4 | 509.2 | 494.2 | 474.9 | 477.0 |
| 10° | 769.2 | 754.2 | 717.7 | 659.7 | 571.6 | 479.2 | 414.7 | 354.5 | 324.5 | 309.4 | 311.6 |
| 12.5° | 775.7 | 758.5 | 706.9 | 601.6 | 474.9 | 363.1 | 264.3 | 217.0 | 208.4 | 208.4 | 208.4 |
| 15° | 788.6 | 762.8 | 689.7 | 532.9 | 371.7 | 240.7 | 186.9 | 182.6 | 189.1 | 195.5 | 197.7 |
| 17.5° | 801.5 | 775.7 | 664.0 | 462.0 | 270.7 | 180.5 | 174.0 | 174.0 | 180.5 | 186.9 | 189.1 |
| 20° | 816.5 | 788.6 | 627.4 | 386.8 | 193.4 | 169.7 | 167.6 | 165.5 | 169.7 | 176.2 | 178.3 |
| 22.5° | 840.1 | 801.5 | 584.5 | 298.7 | 167.6 | 163.3 | 159.0 | 156.9 | 159.0 | 165.5 | 167.6 |
| 25° | 861.6 | 818.7 | 539.3 | 221.3 | 156.9 | 152.6 | 150.4 | 148.3 | 148.3 | 152.6 | 154.7 |
| 27.5° | 887.4 | 838.0 | 489.9 | 165.5 | 144.0 | 141.8 | 139.7 | 137.5 | 135.4 | 139.7 | 141.8 |
| 30° | 919.7 | 855.2 | 436.2 | 139.7 | 131.1 | 128.9 | 126.8 | 124.6 | 122.5 | 124.6 | 126.8 |
| 32.5° | 960.5 | 878.8 | 373.9 | 126.8 | 120.3 | 113.9 | 111.7 | 111.7 | 109.6 | 109.6 | 111.7 |
| 35° | 1014.2 | 904.6 | 307.3 | 118.2 | 109.6 | 103.1 | 96.7 | 94.5 | 94.5 | 94.5 | 96.7 |
| 37.5° | 1093.7 | 951.9 | 242.8 | 109.6 | 101.0 | 90.2 | 83.8 | 77.4 | 77.4 | 77.4 | 77.4 |
| 40° | 1203.3 | 1003.5 | 189.1 | 103.1 | 94.5 | 79.5 | 70.9 | 62.3 | 58.0 | 55.9 | 58.0 |
| 42.5° | 1373.0 | 1080.8 | 146.1 | 94.5 | 90.2 | 70.9 | 58.0 | 47.3 | 38.7 | 36.5 | 38.7 |
| 45° | 1560.0 | 1164.6 | 116.0 | 88.1 | 81.7 | 60.2 | 45.1 | 32.2 | 23.6 | 21.5 | 23.6 |
| 47.5° | 1796.3 | 1269.9 | 98.8 | 79.5 | 70.9 | 49.4 | 32.2 | 17.2 | 10.7 | 12.9 | 12.9 |
| 50° | 2024.1 | 1373.0 | 90.2 | 73.1 | 62.3 | 40.8 | 19.3 | 8.6 | 4.3 | 6.4 | 6.4 |
| 52.5° | 2275.5 | 1482.6 | 83.8 | 64.5 | 53.7 | 30.1 | 10.7 | 2.1 | 0.0 | 2.1 | 2.1 |
| 55° | 2529.0 | 1581.5 | 77.4 | 58.0 | 43.0 | 21.5 | 4.3 | 0.0 | 0.0 | 0.0 | 2.1 |
| 57.5° | 2804.1 | 1665.3 | 70.9 | 49.4 | 32.2 | 12.9 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3034.0 | 1729.7 | 64.5 | 43.0 | 21.5 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 3244.6 | 1787.7 | 49.4 | 32.2 | 12.9 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 3384.2 | 1800.6 | 34.4 | 21.5 | 8.6 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3321.9 | 1688.9 | 21.5 | 15.0 | 4.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2920.1 | 1418.2 | 15.0 | 8.6 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2043.4 | 915.4 | 12.9 | 6.4 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1078.7 | 330.9 | 8.6 | 4.3 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 382.5 | 73.1 | 4.3 | 2.1 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 83.8 | 15.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 23.6 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)