

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: P594885

Luminaire Tested: **ISS-PA1F-740-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1F-740-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11750 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

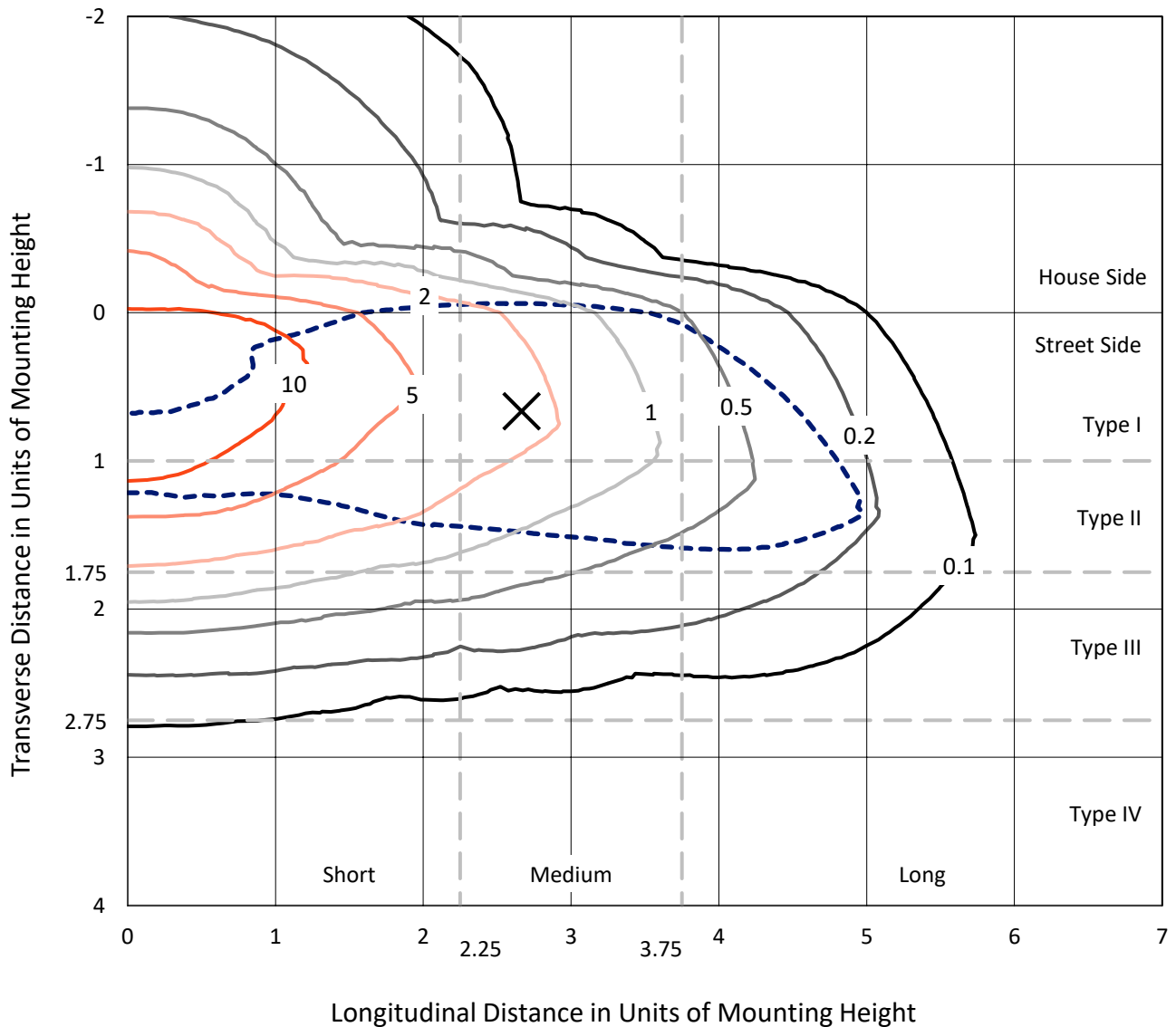
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

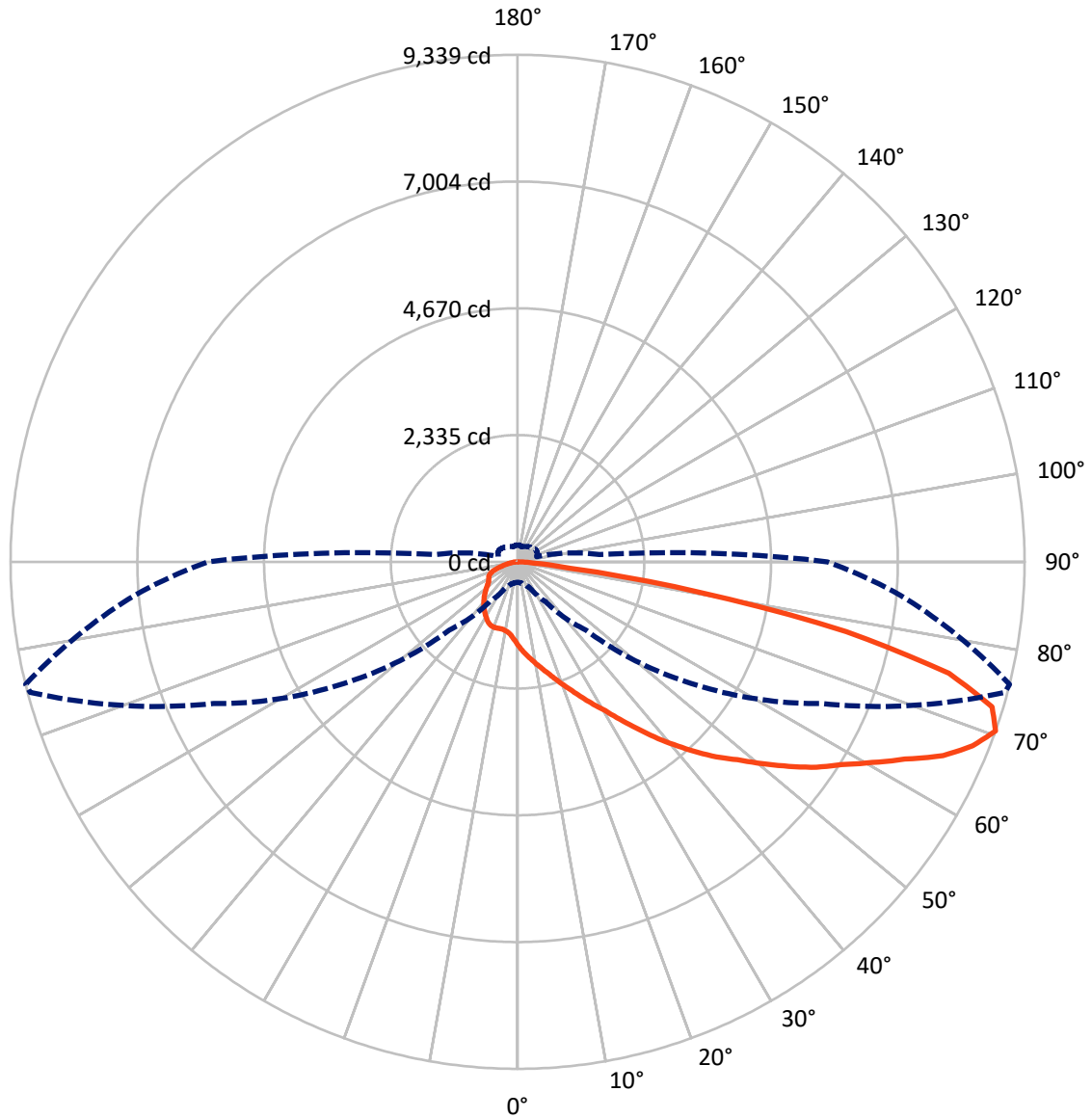
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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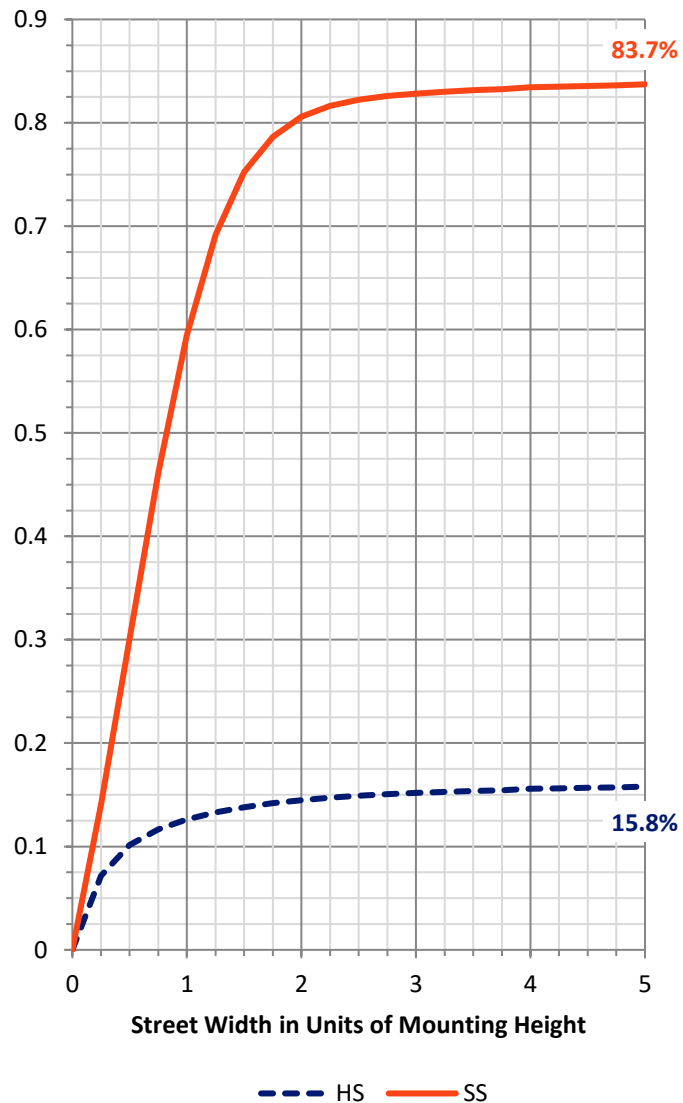
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1884.6 | 0.0 | 1884.6 |
| | % Fixture | 16.0 | 0.0 | 16.0 |
| Street Side | Lumens | 9865.4 | 0.0 | 9865.4 |
| | % Fixture | 84.0 | 0.0 | 84.0 |
| Total | Lumens | 11750.0 | 0.0 | 11750.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 150.2 | 1.3 |
| 10°-20° | 495.8 | 4.2 |
| 20°-30° | 913.6 | 7.8 |
| 30°-40° | 1530.7 | 13.0 |
| 40°-50° | 2175.0 | 18.5 |
| 50°-60° | 2511.2 | 21.4 |
| 60°-70° | 2308.5 | 19.6 |
| 70°-80° | 1455.6 | 12.4 |
| 80°-90° | 209.4 | 1.8 |
| 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° | 11750.0 | 100.0 |
| 0°-180° | 11750.0 | 100.0 |

Coefficient of Utilization

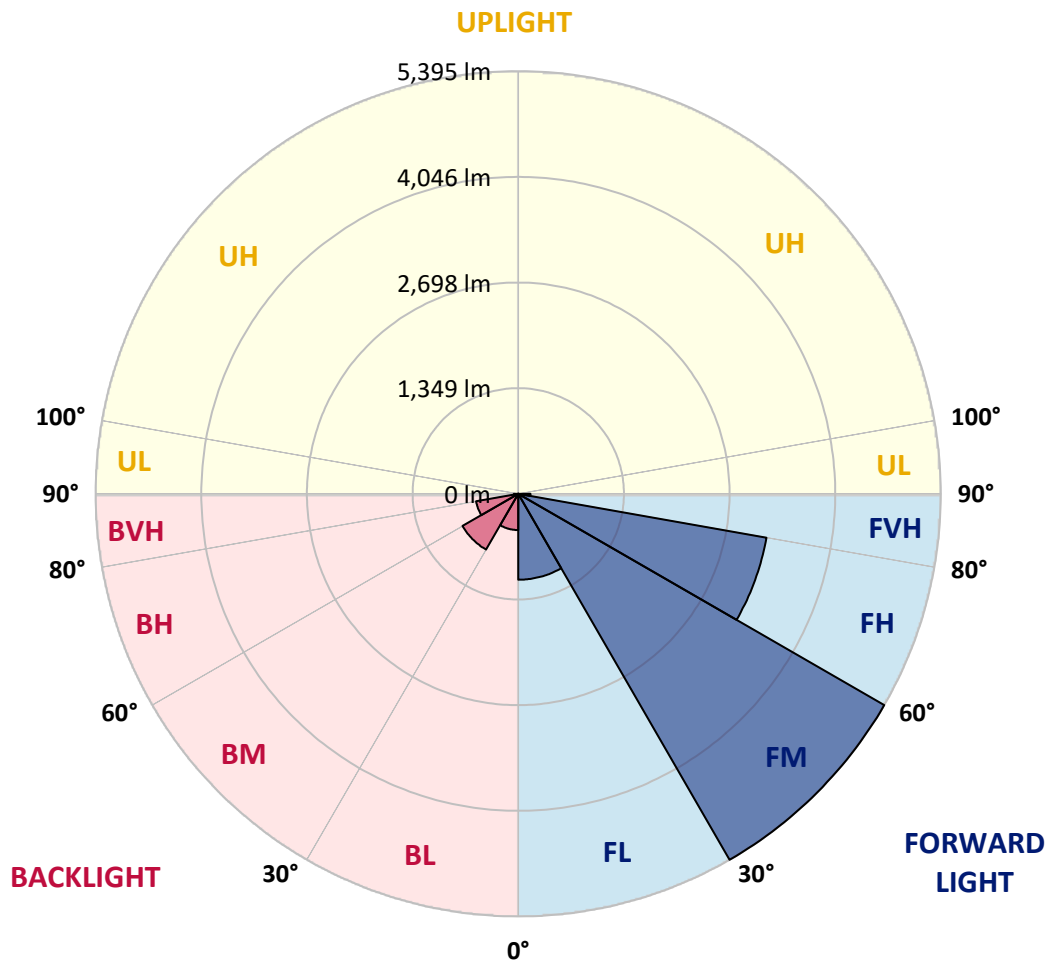


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1097.0 | 9.3 | | | |
| FM (30°-60°) | 5395.3 | 45.9 | | | |
| FH (60°-80°) | 3217.9 | 27.4 | | | G2/5000 |
| FVH (80°-90°) | 155.2 | 1.3 | | | G2/225 |
| BL (0°-30°) | 462.6 | 3.9 | B1/500 | | |
| BM (30°-60°) | 821.6 | 7.0 | B1/1000 | | |
| BH (60°-80°) | 546.2 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 54.2 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 |
| 2.5° | 1855.4 | 1852.5 | 1844.1 | 1829.9 | 1818.6 | 1784.7 | 1739.4 | 1699.8 | 1640.4 | 1634.8 | 1575.4 |
| 5° | 2022.2 | 2010.9 | 2010.9 | 1996.8 | 1982.6 | 1945.9 | 1889.3 | 1818.6 | 1733.7 | 1728.1 | 1615.0 |
| 7.5° | 2101.4 | 2104.3 | 2098.6 | 2087.3 | 2090.1 | 2059.0 | 2008.1 | 1937.4 | 1821.4 | 1815.8 | 1668.7 |
| 10° | 2214.6 | 2211.7 | 2200.4 | 2191.9 | 2189.1 | 2160.8 | 2115.6 | 2050.5 | 1928.9 | 1917.6 | 1730.9 |
| 12.5° | 2324.9 | 2316.4 | 2319.2 | 2316.4 | 2310.7 | 2282.4 | 2240.0 | 2175.0 | 2025.1 | 2019.4 | 1807.3 |
| 15° | 2387.1 | 2384.3 | 2404.1 | 2409.7 | 2432.3 | 2406.9 | 2370.1 | 2296.6 | 2160.8 | 2138.2 | 1897.8 |
| 17.5° | 2426.7 | 2423.9 | 2443.7 | 2488.9 | 2531.3 | 2531.3 | 2520.0 | 2440.8 | 2290.9 | 2274.0 | 1999.6 |
| 20° | 2494.6 | 2505.9 | 2539.8 | 2576.6 | 2638.8 | 2650.1 | 2647.3 | 2613.4 | 2440.8 | 2423.9 | 2112.7 |
| 22.5° | 2630.3 | 2624.7 | 2652.9 | 2709.5 | 2766.1 | 2783.0 | 2785.9 | 2785.9 | 2613.4 | 2582.2 | 2228.7 |
| 25° | 2921.6 | 2907.5 | 2884.9 | 2879.2 | 2947.1 | 2944.3 | 2935.8 | 2955.6 | 2794.4 | 2771.7 | 2361.6 |
| 27.5° | 3476.0 | 3444.9 | 3357.2 | 3181.8 | 3142.2 | 3156.4 | 3114.0 | 3116.8 | 3000.8 | 2972.5 | 2474.8 |
| 30° | 4002.0 | 3987.9 | 3905.9 | 3693.8 | 3470.3 | 3391.1 | 3317.6 | 3286.5 | 3229.9 | 3181.8 | 2596.4 |
| 32.5° | 4477.2 | 4480.0 | 4381.0 | 4149.1 | 3920.0 | 3671.1 | 3543.9 | 3478.8 | 3501.4 | 3459.0 | 2763.3 |
| 35° | 4799.6 | 4774.2 | 4712.0 | 4556.4 | 4307.5 | 4069.9 | 3826.7 | 3682.4 | 3804.1 | 3756.0 | 2930.1 |
| 37.5° | 4989.1 | 4969.3 | 4918.4 | 4808.1 | 4683.7 | 4454.6 | 4146.3 | 3925.7 | 4163.3 | 4092.6 | 3142.2 |
| 40° | 5085.3 | 5057.0 | 5006.1 | 4960.8 | 4901.4 | 4777.0 | 4505.5 | 4202.9 | 4491.3 | 4429.1 | 3351.5 |
| 42.5° | 5096.6 | 5076.8 | 5048.5 | 5025.9 | 5045.7 | 5028.7 | 4856.2 | 4525.3 | 4836.4 | 4768.5 | 3591.9 |
| 45° | 5088.1 | 5102.3 | 5068.3 | 5028.7 | 5068.3 | 5212.6 | 5212.6 | 4847.7 | 5178.6 | 5127.7 | 3821.0 |
| 47.5° | 5093.8 | 5079.6 | 5068.3 | 5057.0 | 5062.7 | 5260.6 | 5458.6 | 5150.3 | 5506.7 | 5447.3 | 4089.7 |
| 50° | 4859.0 | 4878.8 | 4975.0 | 5017.4 | 5042.9 | 5272.0 | 5656.6 | 5478.4 | 5914.0 | 5840.4 | 4389.5 |
| 52.5° | 4112.4 | 4123.7 | 4562.1 | 4878.8 | 4980.6 | 5226.7 | 5795.2 | 5843.3 | 6315.6 | 6259.0 | 4712.0 |
| 55° | 3167.7 | 3227.1 | 3642.9 | 4417.8 | 4839.2 | 5150.3 | 5837.6 | 6080.8 | 6725.7 | 6680.4 | 5037.2 |
| 57.5° | 2607.7 | 2616.2 | 2856.6 | 3549.5 | 4392.4 | 5079.6 | 5880.0 | 6298.6 | 7093.4 | 7042.5 | 5376.6 |
| 60° | 2163.7 | 2143.9 | 2290.9 | 2737.8 | 3648.5 | 4796.8 | 5888.5 | 6471.2 | 7520.5 | 7503.5 | 5727.3 |
| 62.5° | 1589.5 | 1612.1 | 1753.5 | 2132.5 | 2853.8 | 4222.7 | 5846.1 | 6618.2 | 8029.6 | 8006.9 | 6117.6 |
| 65° | 975.8 | 1004.0 | 1176.6 | 1524.5 | 2160.8 | 3351.5 | 5568.9 | 6694.6 | 8564.1 | 8615.0 | 6539.0 |
| 67.5° | 517.6 | 537.4 | 639.2 | 922.0 | 1482.0 | 2554.0 | 4901.4 | 6598.4 | 9016.6 | 9039.3 | 6943.5 |
| 70° | 379.0 | 381.8 | 415.8 | 520.4 | 893.7 | 1776.2 | 3903.1 | 6179.8 | 9293.8 | 9339.1 | 7076.4 |
| 72.5° | 330.9 | 333.7 | 347.9 | 373.3 | 486.5 | 1083.2 | 2797.2 | 5450.1 | 9177.8 | 9138.2 | 6853.0 |
| 75° | 299.8 | 299.8 | 311.1 | 319.6 | 356.4 | 599.6 | 1714.0 | 4460.2 | 8292.6 | 8204.9 | 5843.3 |
| 77.5° | 257.4 | 257.4 | 268.7 | 280.0 | 308.3 | 387.5 | 896.6 | 3306.3 | 6341.1 | 6191.2 | 3996.4 |
| 80° | 206.5 | 206.5 | 220.6 | 234.7 | 271.5 | 291.3 | 438.4 | 2211.7 | 3625.9 | 3405.3 | 1818.6 |
| 82.5° | 141.4 | 152.7 | 178.2 | 195.2 | 226.3 | 206.5 | 257.4 | 956.0 | 1142.6 | 989.9 | 410.1 |
| 85° | 84.8 | 90.5 | 127.3 | 147.1 | 169.7 | 110.3 | 158.4 | 367.7 | 342.2 | 299.8 | 93.3 |
| 87.5° | 8.5 | 14.1 | 50.9 | 59.4 | 59.4 | 31.1 | 67.9 | 87.7 | 99.0 | 101.8 | 22.6 |
| 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° | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 | 1541.4 |
| 2.5° | 1541.4 | 1507.5 | 1442.4 | 1383.0 | 1323.6 | 1284.0 | 1244.5 | 1230.3 | 1210.5 | 1196.4 | 1207.7 |
| 5° | 1555.6 | 1484.9 | 1360.4 | 1255.8 | 1185.1 | 1131.3 | 1105.9 | 1091.7 | 1080.4 | 1077.6 | 1074.8 |
| 7.5° | 1572.5 | 1467.9 | 1301.0 | 1185.1 | 1117.2 | 1091.7 | 1086.1 | 1086.1 | 1086.1 | 1088.9 | 1091.7 |
| 10° | 1609.3 | 1473.5 | 1269.9 | 1145.5 | 1108.7 | 1103.0 | 1105.9 | 1117.2 | 1117.2 | 1120.0 | 1120.0 |
| 12.5° | 1651.7 | 1487.7 | 1247.3 | 1139.8 | 1117.2 | 1120.0 | 1122.8 | 1128.5 | 1128.5 | 1137.0 | 1134.1 |
| 15° | 1714.0 | 1516.0 | 1244.5 | 1145.5 | 1125.7 | 1120.0 | 1120.0 | 1117.2 | 1117.2 | 1117.2 | 1122.8 |
| 17.5° | 1793.1 | 1555.6 | 1247.3 | 1145.5 | 1117.2 | 1105.9 | 1097.4 | 1088.9 | 1077.6 | 1083.2 | 1077.6 |
| 20° | 1872.3 | 1603.6 | 1247.3 | 1131.3 | 1094.6 | 1066.3 | 1040.8 | 1026.7 | 1012.5 | 1009.7 | 1012.5 |
| 22.5° | 1971.3 | 1660.2 | 1233.1 | 1100.2 | 1046.5 | 1006.9 | 970.1 | 950.3 | 927.7 | 919.2 | 913.5 |
| 25° | 2056.2 | 1705.5 | 1204.9 | 1055.0 | 992.7 | 936.2 | 888.1 | 854.1 | 825.9 | 820.2 | 820.2 |
| 27.5° | 2143.9 | 1745.1 | 1162.4 | 998.4 | 916.4 | 854.1 | 800.4 | 758.0 | 729.7 | 726.9 | 724.0 |
| 30° | 2225.9 | 1779.0 | 1105.9 | 936.2 | 848.5 | 775.0 | 712.7 | 676.0 | 650.5 | 636.4 | 627.9 |
| 32.5° | 2333.3 | 1824.3 | 1052.1 | 873.9 | 769.3 | 695.8 | 639.2 | 608.1 | 574.1 | 551.5 | 543.0 |
| 35° | 2469.1 | 1878.0 | 992.7 | 806.1 | 698.6 | 625.1 | 591.1 | 545.9 | 503.4 | 478.0 | 469.5 |
| 37.5° | 2621.8 | 1954.4 | 930.5 | 735.4 | 627.9 | 574.1 | 554.3 | 483.6 | 438.4 | 429.9 | 427.1 |
| 40° | 2811.3 | 2027.9 | 859.8 | 661.8 | 560.0 | 545.9 | 511.9 | 438.4 | 415.8 | 412.9 | 410.1 |
| 42.5° | 3000.8 | 2107.1 | 791.9 | 588.3 | 506.3 | 511.9 | 463.8 | 427.1 | 407.3 | 401.6 | 398.8 |
| 45° | 3221.4 | 2186.3 | 724.0 | 523.2 | 463.8 | 463.8 | 438.4 | 415.8 | 398.8 | 393.1 | 393.1 |
| 47.5° | 3453.4 | 2265.5 | 650.5 | 466.7 | 432.7 | 415.8 | 418.6 | 401.6 | 390.3 | 384.6 | 381.8 |
| 50° | 3744.7 | 2341.8 | 582.6 | 427.1 | 412.9 | 390.3 | 398.8 | 387.5 | 381.8 | 376.2 | 373.3 |
| 52.5° | 4019.0 | 2375.8 | 520.4 | 404.4 | 401.6 | 379.0 | 381.8 | 376.2 | 373.3 | 364.9 | 362.0 |
| 55° | 4287.7 | 2367.3 | 472.3 | 393.1 | 387.5 | 376.2 | 370.5 | 367.7 | 364.9 | 356.4 | 353.5 |
| 57.5° | 4587.5 | 2356.0 | 441.2 | 390.3 | 379.0 | 367.7 | 367.7 | 359.2 | 347.9 | 347.9 | 347.9 |
| 60° | 4898.6 | 2319.2 | 427.1 | 390.3 | 376.2 | 367.7 | 362.0 | 353.5 | 342.2 | 345.1 | 342.2 |
| 62.5° | 5249.3 | 2248.5 | 418.6 | 398.8 | 379.0 | 364.9 | 359.2 | 347.9 | 333.7 | 336.6 | 333.7 |
| 65° | 5557.6 | 2104.3 | 412.9 | 407.3 | 384.6 | 367.7 | 353.5 | 339.4 | 322.4 | 325.3 | 322.4 |
| 67.5° | 5766.9 | 1861.0 | 396.0 | 412.9 | 393.1 | 364.9 | 347.9 | 328.1 | 305.5 | 316.8 | 313.9 |
| 70° | 5707.5 | 1513.1 | 364.9 | 401.6 | 401.6 | 367.7 | 339.4 | 313.9 | 288.5 | 311.1 | 302.6 |
| 72.5° | 5246.5 | 1137.0 | 305.5 | 362.0 | 396.0 | 367.7 | 322.4 | 291.3 | 268.7 | 282.8 | 265.9 |
| 75° | 4307.5 | 772.1 | 243.2 | 288.5 | 370.5 | 370.5 | 308.3 | 268.7 | 240.4 | 231.9 | 226.3 |
| 77.5° | 2686.9 | 480.8 | 189.5 | 212.1 | 311.1 | 367.7 | 294.1 | 240.4 | 200.8 | 195.2 | 189.5 |
| 80° | 1063.4 | 257.4 | 149.9 | 152.7 | 229.1 | 336.6 | 274.3 | 203.6 | 161.2 | 155.6 | 144.2 |
| 82.5° | 243.2 | 130.1 | 104.6 | 101.8 | 141.4 | 274.3 | 248.9 | 161.2 | 124.4 | 124.4 | 104.6 |
| 85° | 73.5 | 67.9 | 67.9 | 65.1 | 70.7 | 141.4 | 192.3 | 110.3 | 84.8 | 59.4 | 50.9 |
| 87.5° | 19.8 | 28.3 | 25.5 | 22.6 | 22.6 | 19.8 | 62.2 | 28.3 | 17.0 | 8.5 | 5.7 |
| 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)