

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: P528596

Luminaire Tested: **GALN-SA3D-722-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-722-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14389 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

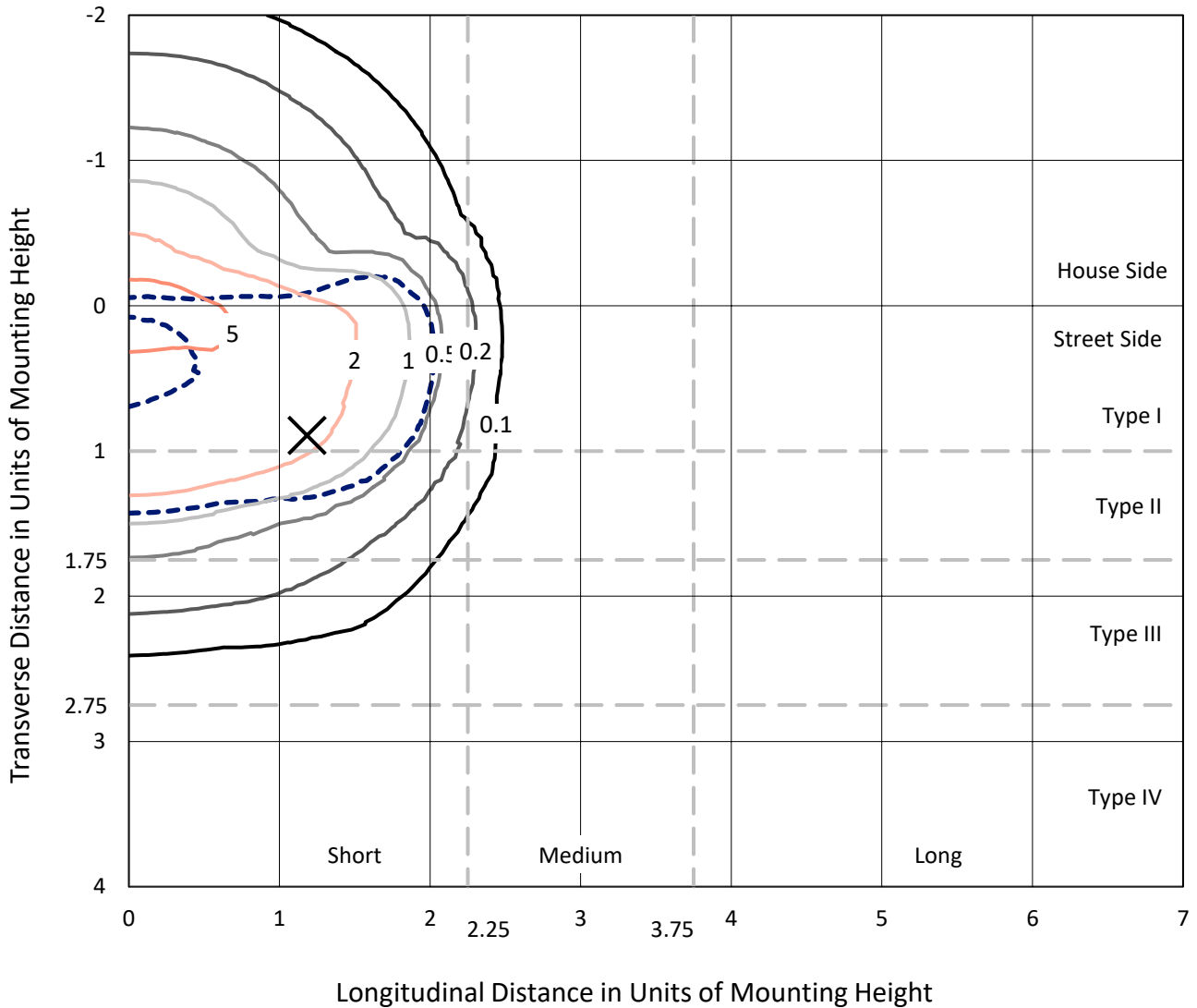
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

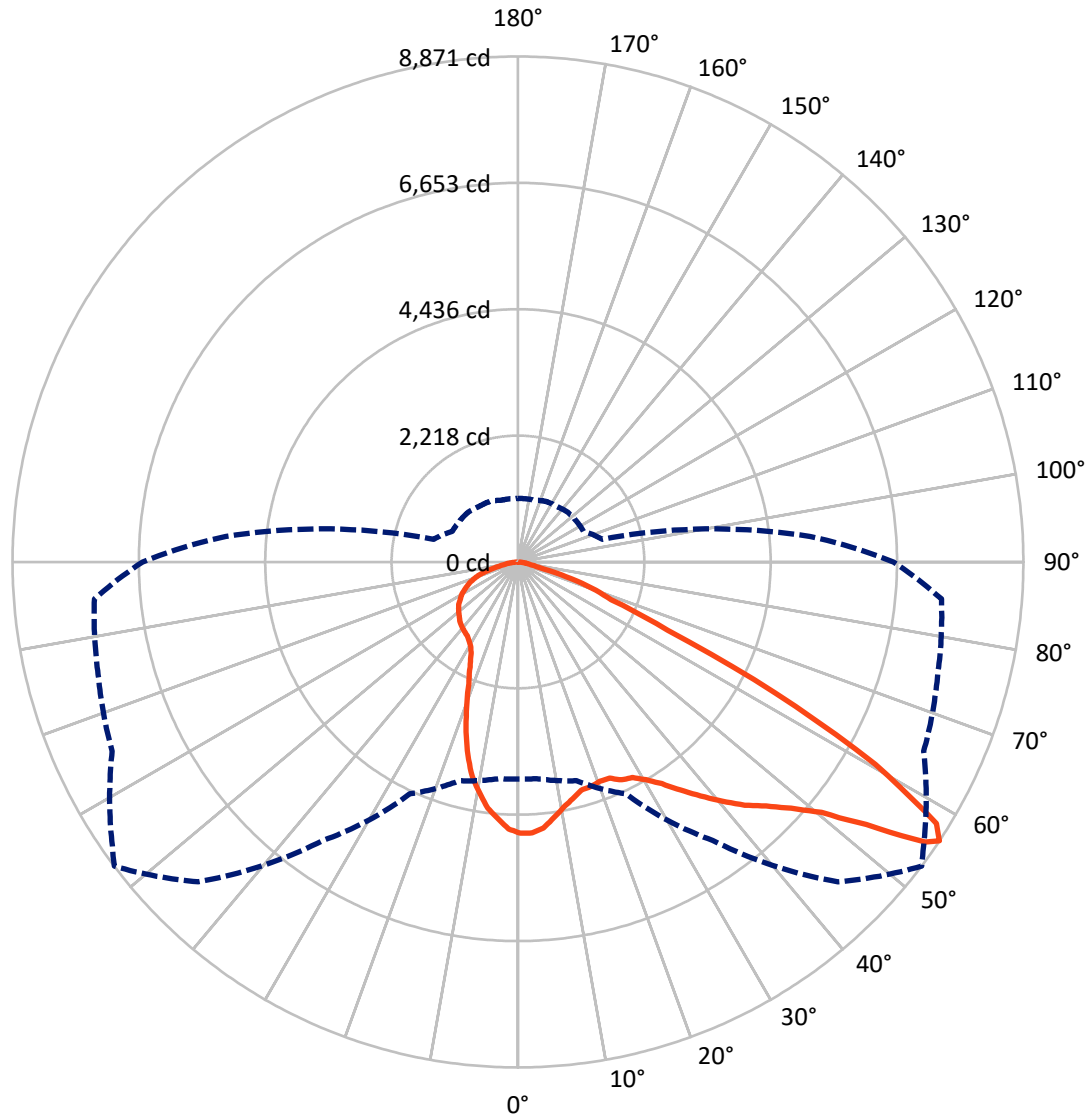
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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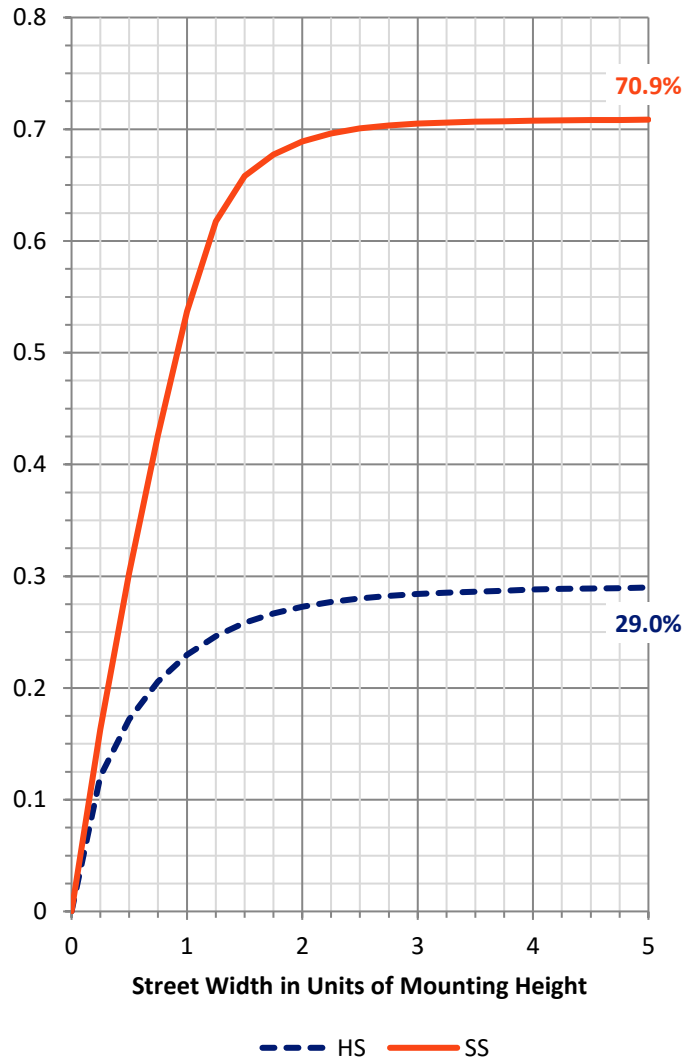
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4199.0 | 0.0 | 4199.0 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 10190.0 | 0.0 | 10190.0 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 14389.0 | 0.0 | 14389.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 421.4 | 2.9 |
| 10°-20° | 1052.6 | 7.3 |
| 20°-30° | 1552.1 | 10.8 |
| 30°-40° | 2217.6 | 15.4 |
| 40°-50° | 3052.3 | 21.2 |
| 50°-60° | 3607.0 | 25.1 |
| 60°-70° | 1922.3 | 13.4 |
| 70°-80° | 487.7 | 3.4 |
| 80°-90° | 76.0 | 0.5 |
| 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° | 14389.0 | 100.0 |
| 0°-180° | 14389.0 | 100.0 |

Coefficient of Utilization



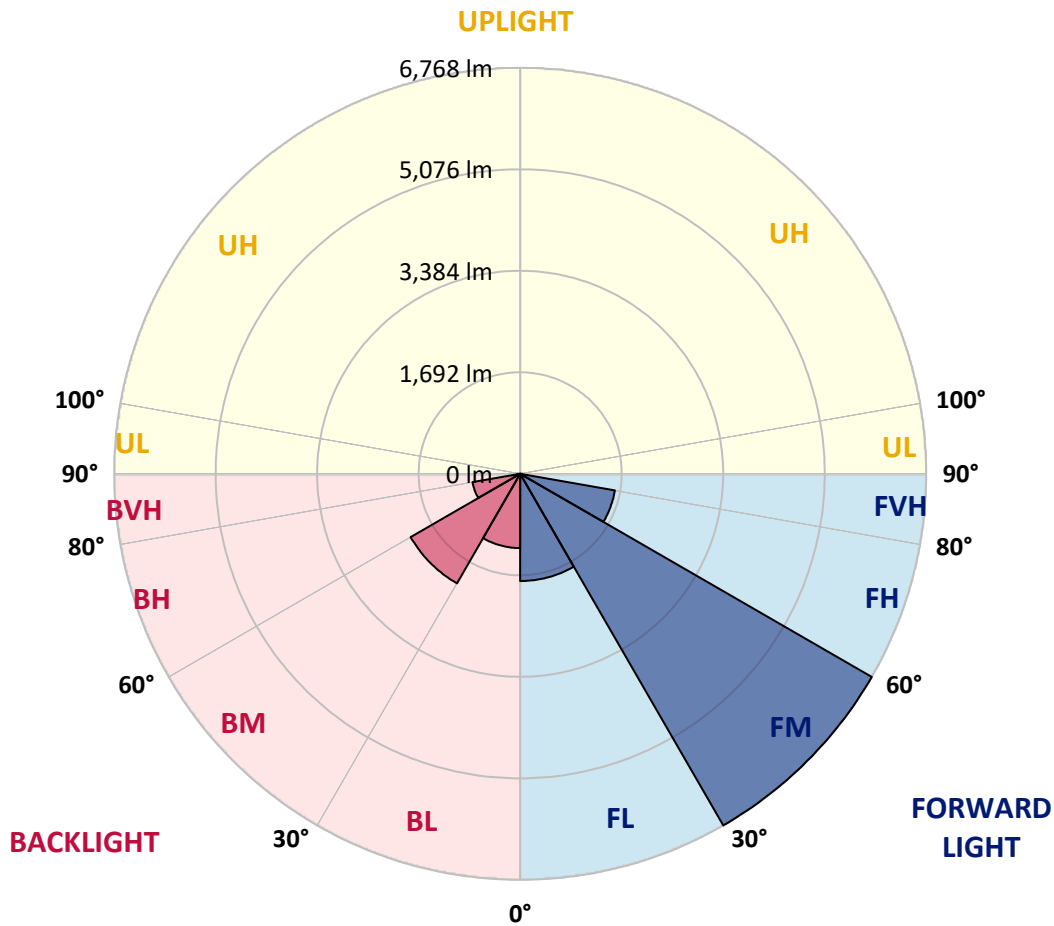
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1787.6 | 12.4 | | | |
| FM (30°-60°) | 6768.3 | 47.0 | | | |
| FH (60°-80°) | 1603.5 | 11.1 | | | G1/1800 |
| FVH (80°-90°) | 30.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1238.5 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 2108.6 | 14.7 | B2/2500 | | |
| BH (60°-80°) | 806.5 | 5.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 45.5 | 0.3 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 |
| 2.5° | 4701.4 | 4660.8 | 4684.8 | 4675.5 | 4751.2 | 4773.4 | 4762.3 | 4771.5 | 4814.0 | 4793.7 | 4751.2 |
| 5° | 4393.1 | 4450.3 | 4461.4 | 4489.1 | 4533.4 | 4620.2 | 4688.5 | 4706.9 | 4727.2 | 4821.4 | 4812.1 |
| 7.5° | 4112.6 | 4151.3 | 4131.0 | 4212.2 | 4308.2 | 4448.5 | 4531.6 | 4546.3 | 4732.8 | 4784.4 | 4823.2 |
| 10° | 3935.4 | 3896.6 | 3988.9 | 4011.0 | 4119.9 | 4280.5 | 4380.2 | 4441.1 | 4610.9 | 4815.8 | 4839.8 |
| 12.5° | 3771.1 | 3758.2 | 3813.5 | 3876.3 | 3998.1 | 4164.2 | 4265.8 | 4289.8 | 4551.9 | 4767.8 | 4880.4 |
| 15° | 3649.2 | 3634.5 | 3689.9 | 3736.0 | 3878.1 | 4025.8 | 4155.0 | 4223.3 | 4487.3 | 4740.1 | 4845.4 |
| 17.5° | 3553.3 | 3551.4 | 3582.8 | 3665.9 | 3811.7 | 3935.4 | 4143.9 | 4147.6 | 4454.0 | 4782.6 | 4874.9 |
| 20° | 3547.7 | 3545.9 | 3551.4 | 3643.7 | 3776.6 | 3928.0 | 4108.9 | 4142.1 | 4454.0 | 4753.1 | 4876.7 |
| 22.5° | 3593.9 | 3564.3 | 3597.6 | 3656.6 | 3752.6 | 3940.9 | 4121.8 | 4195.6 | 4561.1 | 4898.9 | 4959.8 |
| 25° | 3667.7 | 3675.1 | 3693.5 | 3713.9 | 3769.2 | 3970.4 | 4236.2 | 4297.1 | 4686.6 | 5024.4 | 5074.2 |
| 27.5° | 3802.5 | 3798.8 | 3806.1 | 3817.2 | 3865.2 | 3998.1 | 4282.4 | 4439.3 | 4948.7 | 5247.8 | 5197.9 |
| 30° | 4000.0 | 3987.0 | 4016.6 | 4055.3 | 4011.0 | 4086.7 | 4435.6 | 4553.7 | 5192.4 | 5472.9 | 5336.4 |
| 32.5° | 4179.0 | 4227.0 | 4282.4 | 4299.0 | 4245.5 | 4260.2 | 4638.6 | 4758.6 | 5395.4 | 5749.8 | 5506.2 |
| 35° | 4402.4 | 4441.1 | 4515.0 | 4566.6 | 4557.4 | 4513.1 | 4915.5 | 5074.2 | 5688.9 | 5952.9 | 5685.2 |
| 37.5° | 4620.2 | 4666.3 | 4788.1 | 4941.3 | 4856.4 | 4836.1 | 5210.8 | 5341.9 | 5779.4 | 6061.8 | 5816.3 |
| 40° | 4970.9 | 4969.0 | 5179.5 | 5258.8 | 5334.5 | 5299.4 | 5517.2 | 5561.5 | 5827.3 | 6037.8 | 5820.0 |
| 42.5° | 5382.5 | 5356.7 | 5570.8 | 5694.4 | 5792.3 | 5796.0 | 5836.6 | 5821.8 | 5849.5 | 5916.0 | 5781.2 |
| 45° | 5773.8 | 5829.2 | 6045.2 | 6266.7 | 6364.5 | 6375.6 | 6106.1 | 6078.4 | 5888.3 | 5880.9 | 5707.4 |
| 47.5° | 6251.9 | 6264.8 | 6442.0 | 6733.7 | 6960.7 | 6883.2 | 6454.9 | 6394.0 | 6058.1 | 6115.3 | 5831.0 |
| 50° | 6279.6 | 6375.6 | 6534.3 | 6877.6 | 7575.4 | 7555.1 | 6907.2 | 6792.7 | 6331.3 | 6447.6 | 6176.2 |
| 52.5° | 5700.0 | 5677.8 | 5866.1 | 6427.3 | 7529.2 | 8223.3 | 7656.6 | 7383.4 | 6918.2 | 6829.6 | 6735.5 |
| 55° | 4343.3 | 4395.0 | 4561.1 | 5127.8 | 6538.0 | 8232.5 | 8677.3 | 8454.0 | 7545.8 | 7394.5 | 7285.6 |
| 56° | 3809.8 | 3817.2 | 3974.1 | 4491.0 | 5965.8 | 7939.0 | 8871.2 | 8690.3 | 7857.8 | 7627.1 | 7460.9 |
| 57.5° | 3158.3 | 3115.8 | 3197.0 | 3479.4 | 5035.5 | 7318.8 | 8658.9 | 8836.1 | 8223.3 | 7878.1 | 7647.4 |
| 60° | 2486.4 | 2477.1 | 2443.9 | 2495.6 | 3182.2 | 5513.6 | 7208.0 | 7606.7 | 8186.3 | 7641.8 | 7324.3 |
| 62.5° | 2030.4 | 1984.3 | 2050.7 | 2124.6 | 2211.3 | 3420.4 | 5065.0 | 5299.4 | 6499.2 | 6100.5 | 5502.5 |
| 65° | 1574.5 | 1552.4 | 1635.4 | 1875.4 | 1927.1 | 2172.6 | 2885.1 | 3066.0 | 3837.5 | 3769.2 | 3318.8 |
| 67.5° | 1083.5 | 1087.2 | 1159.2 | 1524.7 | 1786.8 | 1764.6 | 1766.5 | 1860.6 | 2002.7 | 1487.8 | 1295.8 |
| 70° | 686.7 | 684.8 | 723.6 | 982.0 | 1437.9 | 1452.7 | 1378.9 | 1351.2 | 1281.0 | 775.3 | 821.4 |
| 72.5° | 441.2 | 428.2 | 448.5 | 542.7 | 743.9 | 860.2 | 886.0 | 902.6 | 742.0 | 609.1 | 660.8 |
| 75° | 249.2 | 236.3 | 228.9 | 252.9 | 293.5 | 339.6 | 372.9 | 383.9 | 430.1 | 461.5 | 489.2 |
| 77.5° | 75.7 | 68.3 | 83.1 | 110.8 | 145.8 | 195.7 | 238.1 | 245.5 | 289.8 | 326.7 | 354.4 |
| 80° | 33.2 | 36.9 | 51.7 | 73.8 | 103.4 | 138.4 | 168.0 | 179.0 | 208.6 | 236.3 | 243.7 |
| 82.5° | 20.3 | 22.2 | 35.1 | 49.8 | 72.0 | 97.8 | 120.0 | 123.7 | 153.2 | 175.4 | 180.9 |
| 85° | 7.4 | 9.2 | 18.5 | 29.5 | 46.1 | 62.8 | 62.8 | 68.3 | 62.8 | 62.8 | 68.3 |
| 87.5° | 0.0 | 0.0 | 1.8 | 3.7 | 3.7 | 5.5 | 7.4 | 7.4 | 9.2 | 11.1 | 12.9 |
| 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° | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 | 4760.4 |
| 2.5° | 4773.4 | 4764.1 | 4749.4 | 4695.8 | 4690.3 | 4673.7 | 4581.4 | 4566.6 | 4581.4 | 4537.1 | 4540.8 |
| 5° | 4764.1 | 4791.8 | 4681.1 | 4627.5 | 4527.9 | 4455.9 | 4372.8 | 4330.4 | 4254.7 | 4206.7 | 4260.2 |
| 7.5° | 4804.7 | 4793.7 | 4655.2 | 4538.9 | 4389.4 | 4206.7 | 4060.9 | 3977.8 | 3844.9 | 3808.0 | 3835.7 |
| 10° | 4790.0 | 4730.9 | 4568.5 | 4415.3 | 4132.9 | 3972.3 | 3736.0 | 3507.1 | 3381.6 | 3317.0 | 3307.8 |
| 12.5° | 4769.7 | 4753.1 | 4481.7 | 4217.8 | 3920.6 | 3582.8 | 3250.5 | 3034.6 | 2829.7 | 2741.1 | 2754.0 |
| 15° | 4793.7 | 4653.4 | 4319.3 | 3985.2 | 3590.2 | 3147.2 | 2789.1 | 2510.4 | 2368.2 | 2311.0 | 2311.0 |
| 17.5° | 4782.6 | 4605.4 | 4241.8 | 3724.9 | 3224.7 | 2700.5 | 2307.3 | 2139.3 | 2080.3 | 2080.3 | 2096.9 |
| 20° | 4788.1 | 4636.8 | 4084.9 | 3464.7 | 2792.8 | 2274.1 | 1988.0 | 1927.1 | 1952.9 | 1962.1 | 1971.4 |
| 22.5° | 4819.5 | 4533.4 | 3931.7 | 3178.6 | 2392.2 | 1945.5 | 1805.2 | 1807.1 | 1853.2 | 1903.1 | 1893.8 |
| 25° | 4858.3 | 4492.8 | 3745.2 | 2894.3 | 2085.8 | 1784.9 | 1740.6 | 1735.1 | 1770.2 | 1796.0 | 1799.7 |
| 27.5° | 4825.1 | 4422.7 | 3555.1 | 2539.9 | 1834.8 | 1677.9 | 1668.6 | 1672.3 | 1683.4 | 1735.1 | 1718.5 |
| 30° | 4934.0 | 4443.0 | 3317.0 | 2242.7 | 1696.3 | 1642.8 | 1631.7 | 1626.2 | 1642.8 | 1657.6 | 1644.7 |
| 32.5° | 5068.7 | 4371.0 | 3139.8 | 1956.6 | 1628.0 | 1617.0 | 1594.8 | 1587.4 | 1596.7 | 1581.9 | 1589.3 |
| 35° | 5127.8 | 4358.1 | 2909.1 | 1751.7 | 1574.5 | 1565.3 | 1552.4 | 1550.5 | 1552.4 | 1539.4 | 1528.4 |
| 37.5° | 5161.0 | 4419.0 | 2645.1 | 1657.6 | 1541.3 | 1550.5 | 1521.0 | 1517.3 | 1484.1 | 1491.4 | 1497.0 |
| 40° | 5218.2 | 4324.8 | 2431.0 | 1567.1 | 1521.0 | 1502.5 | 1476.7 | 1471.1 | 1449.0 | 1436.1 | 1449.0 |
| 42.5° | 5135.2 | 4297.1 | 2220.6 | 1528.4 | 1491.4 | 1471.1 | 1452.7 | 1421.3 | 1413.9 | 1402.8 | 1395.5 |
| 45° | 5068.7 | 4138.4 | 2032.3 | 1480.4 | 1456.4 | 1445.3 | 1410.2 | 1377.0 | 1349.3 | 1360.4 | 1343.8 |
| 47.5° | 5118.5 | 4083.0 | 1845.9 | 1439.8 | 1408.4 | 1395.5 | 1360.4 | 1334.5 | 1306.9 | 1293.9 | 1290.2 |
| 50° | 5317.9 | 4186.4 | 1689.0 | 1410.2 | 1367.8 | 1360.4 | 1314.2 | 1284.7 | 1258.9 | 1249.6 | 1253.3 |
| 52.5° | 5794.1 | 4468.8 | 1581.9 | 1349.3 | 1329.0 | 1295.8 | 1269.9 | 1233.0 | 1216.4 | 1186.9 | 1205.3 |
| 55° | 6397.7 | 4928.4 | 1554.2 | 1292.1 | 1281.0 | 1251.5 | 1216.4 | 1188.7 | 1157.3 | 1133.4 | 1127.8 |
| 56° | 6591.5 | 5148.1 | 1532.1 | 1269.9 | 1251.5 | 1234.9 | 1188.7 | 1172.1 | 1122.3 | 1116.7 | 1113.0 |
| 57.5° | 6748.4 | 5341.9 | 1535.7 | 1227.5 | 1209.0 | 1194.3 | 1166.6 | 1126.0 | 1092.7 | 1072.4 | 1081.7 |
| 60° | 6394.0 | 5000.4 | 1465.6 | 1162.9 | 1159.2 | 1131.5 | 1092.7 | 1074.3 | 1033.7 | 1009.7 | 1004.1 |
| 62.5° | 4753.1 | 3394.5 | 1188.7 | 1079.8 | 1078.0 | 1048.4 | 1004.1 | 983.8 | 976.5 | 943.2 | 943.2 |
| 65° | 2737.4 | 2128.3 | 1028.1 | 1011.5 | 996.8 | 967.2 | 922.9 | 906.3 | 887.9 | 876.8 | 867.5 |
| 67.5° | 1168.4 | 1103.8 | 934.0 | 932.2 | 915.5 | 878.6 | 834.3 | 808.5 | 784.5 | 762.3 | 773.4 |
| 70° | 847.2 | 860.2 | 843.6 | 834.3 | 814.0 | 767.9 | 729.1 | 697.7 | 660.8 | 646.0 | 657.1 |
| 72.5° | 671.9 | 699.6 | 723.6 | 725.4 | 701.4 | 647.9 | 605.4 | 563.0 | 522.4 | 502.1 | 511.3 |
| 75° | 509.5 | 527.9 | 551.9 | 557.4 | 522.4 | 485.5 | 444.8 | 400.5 | 369.2 | 345.2 | 348.9 |
| 77.5° | 367.3 | 363.6 | 385.8 | 382.1 | 365.5 | 339.6 | 302.7 | 262.1 | 227.0 | 204.9 | 206.7 |
| 80° | 251.0 | 256.6 | 269.5 | 267.6 | 247.3 | 230.7 | 203.0 | 169.8 | 144.0 | 125.5 | 121.8 |
| 82.5° | 175.4 | 184.6 | 195.7 | 186.4 | 169.8 | 153.2 | 132.9 | 108.9 | 88.6 | 73.8 | 70.1 |
| 85° | 62.8 | 72.0 | 83.1 | 88.6 | 94.1 | 90.4 | 75.7 | 60.9 | 44.3 | 36.9 | 35.1 |
| 87.5° | 12.9 | 14.8 | 16.6 | 16.6 | 16.6 | 14.8 | 12.9 | 12.9 | 11.1 | 5.5 | 5.5 |
| 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)