

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635162

Luminaire Tested: GWS-SA3D-730-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-730-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12069.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

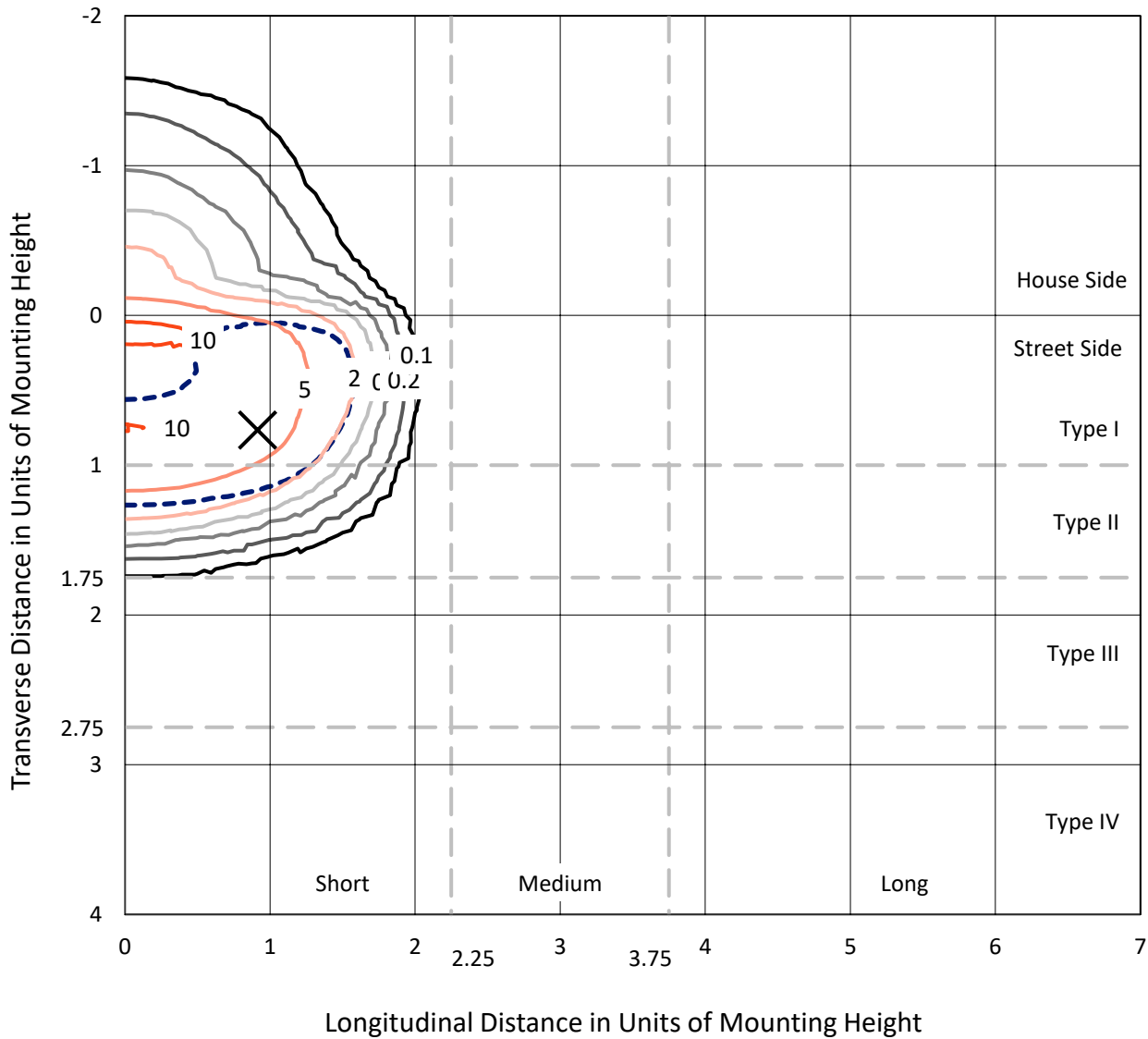
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

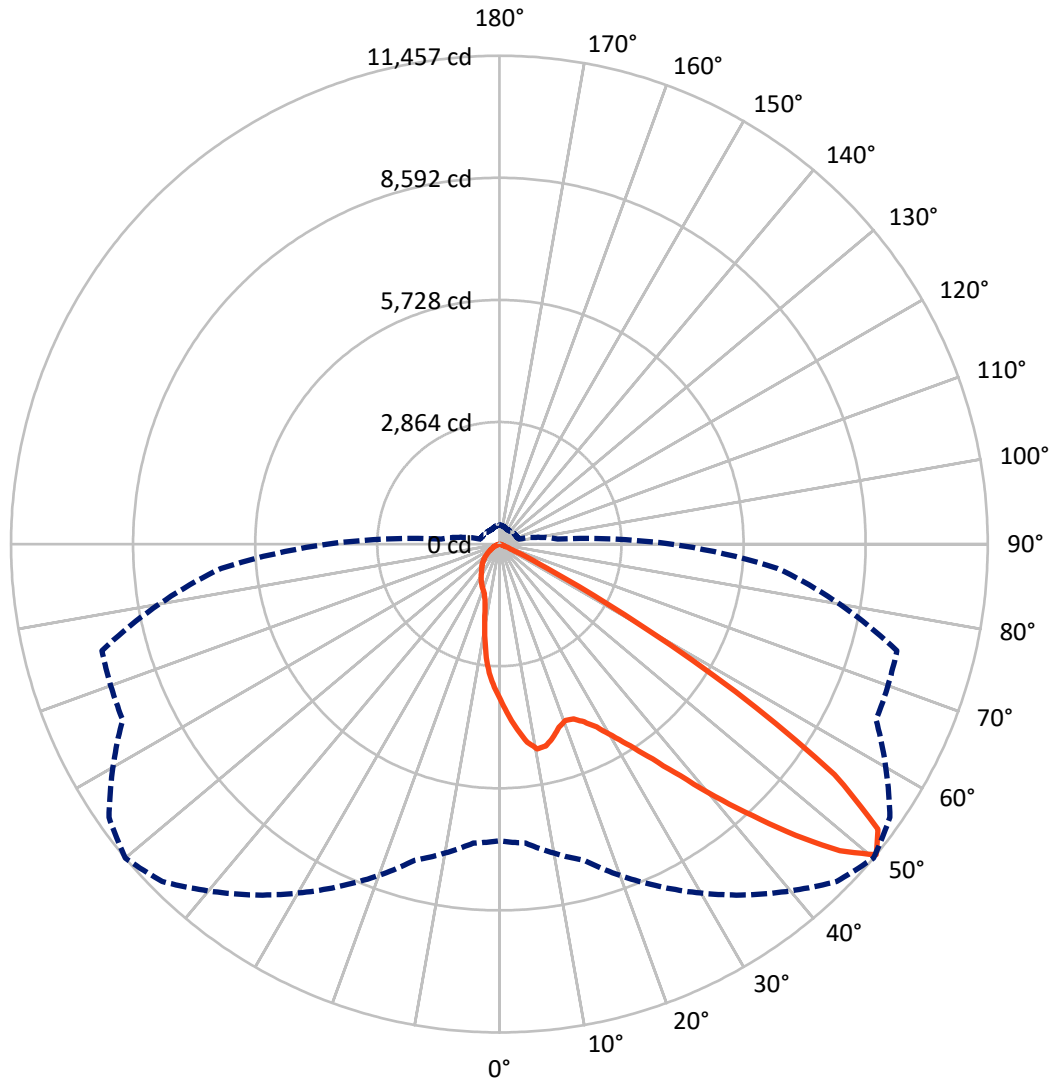
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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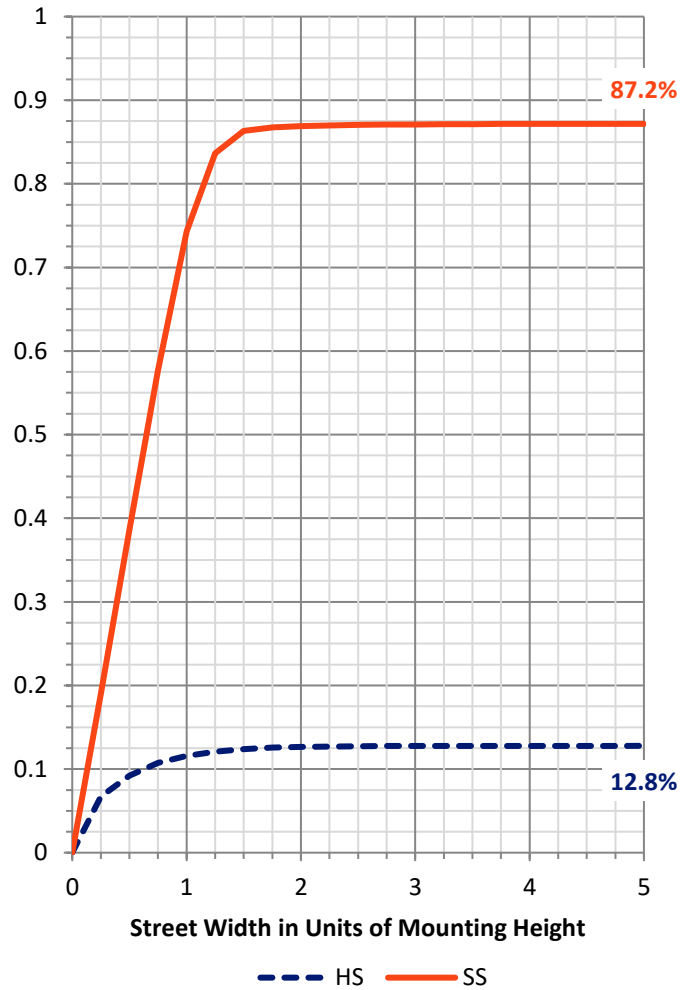
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1550.7 | 0.0 | 1550.7 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 10518.6 | 0.0 | 10518.6 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 12069.3 | 0.0 | 12069.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 339.2 | 2.8 |
| 10°-20° | 875.2 | 7.3 |
| 20°-30° | 1444.3 | 12.0 |
| 30°-40° | 2383.4 | 19.7 |
| 40°-50° | 3771.1 | 31.2 |
| 50°-60° | 2855.2 | 23.7 |
| 60°-70° | 357.3 | 3.0 |
| 70°-80° | 40.4 | 0.3 |
| 80°-90° | 3.1 | 0.0 |
| 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° | 12069.3 | 100.0 |
| 0°-180° | 12069.3 | 100.0 |

Coefficient of Utilization

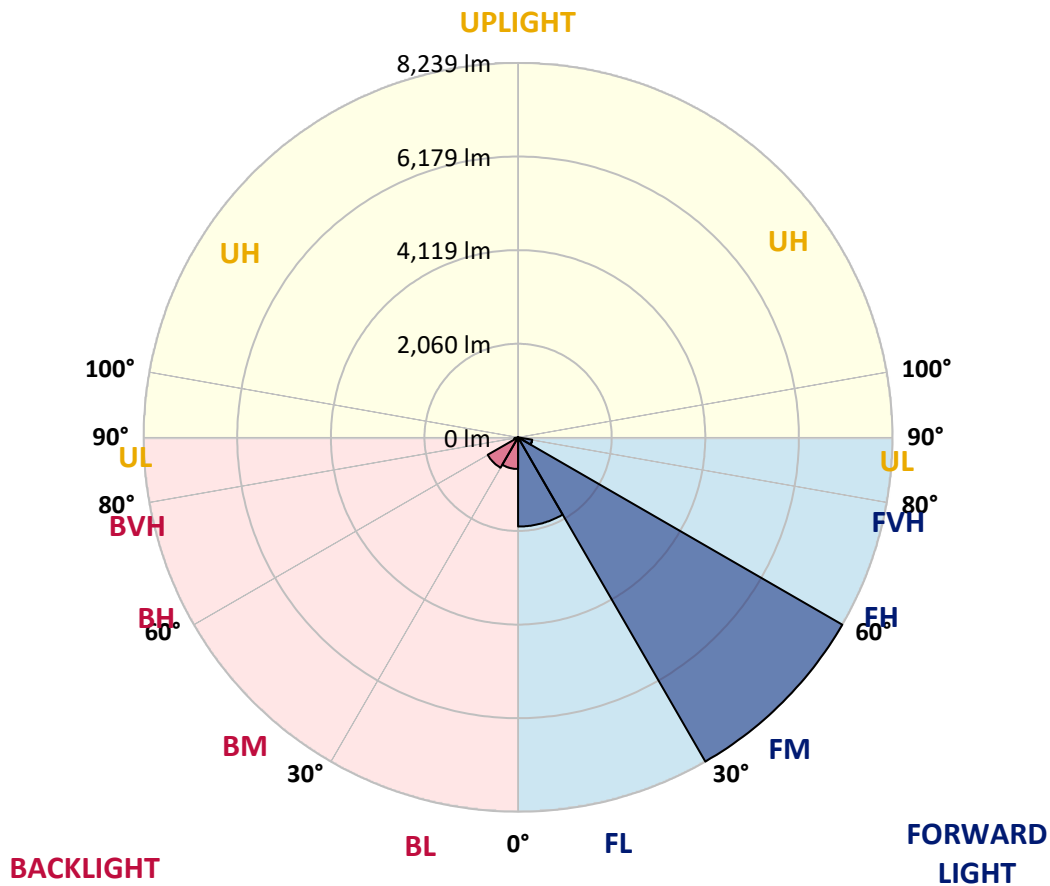


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1962.6 | 16.3 | | | |
| FM (30°-60°) | 8238.6 | 68.3 | | | |
| FH (60°-80°) | 315.9 | 2.6 | | | G0/660 |
| FVH (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 696.0 | 5.8 | B2/1000 | | |
| BM (30°-60°) | 771.2 | 6.4 | B1/1000 | | |
| BH (60°-80°) | 81.8 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|---------|--------|
| 0° | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 |
| 2.5° | 4166.6 | 4199.9 | 4190.7 | 4147.0 | 4099.9 | 4066.6 | 4014.9 | 3998.8 | 3881.7 | 3800.1 | 3714.0 |
| 5° | 4669.7 | 4680.1 | 4668.6 | 4615.7 | 4533.0 | 4453.8 | 4368.8 | 4319.4 | 4122.9 | 3946.0 | 3765.7 |
| 7.5° | 4790.3 | 4777.7 | 4799.5 | 4826.0 | 4814.5 | 4780.0 | 4690.4 | 4636.4 | 4402.1 | 4113.7 | 3840.3 |
| 10° | 4413.6 | 4384.8 | 4466.4 | 4603.1 | 4746.7 | 4908.7 | 4885.7 | 4890.3 | 4674.3 | 4325.1 | 3938.0 |
| 12.5° | 3913.8 | 3902.4 | 3963.2 | 4121.8 | 4403.2 | 4770.8 | 4859.3 | 5007.5 | 4923.6 | 4553.7 | 4049.4 |
| 15° | 3694.4 | 3700.2 | 3736.9 | 3836.9 | 4039.1 | 4496.3 | 4708.8 | 4976.4 | 5146.5 | 4775.4 | 4172.3 |
| 17.5° | 3727.7 | 3748.4 | 3747.3 | 3780.6 | 3903.5 | 4270.0 | 4518.1 | 4878.8 | 5318.8 | 5030.4 | 4313.6 |
| 20° | 3954.0 | 3974.7 | 3943.7 | 3918.4 | 3959.8 | 4212.5 | 4418.1 | 4780.0 | 5434.8 | 5287.8 | 4463.0 |
| 22.5° | 4292.9 | 4317.1 | 4243.5 | 4171.2 | 4144.7 | 4306.7 | 4456.1 | 4739.8 | 5523.3 | 5523.3 | 4596.2 |
| 25° | 4703.0 | 4736.4 | 4622.6 | 4494.0 | 4420.4 | 4505.5 | 4618.0 | 4830.6 | 5614.0 | 5734.6 | 4687.0 |
| 27.5° | 5161.4 | 5162.5 | 5064.9 | 4920.2 | 4782.3 | 4792.6 | 4860.4 | 5035.0 | 5714.0 | 5962.1 | 4758.2 |
| 30° | 5677.2 | 5680.6 | 5550.8 | 5377.4 | 5203.9 | 5156.8 | 5214.2 | 5346.4 | 5921.9 | 6248.1 | 4857.0 |
| 32.5° | 6343.5 | 6359.6 | 6173.5 | 5918.4 | 5693.3 | 5604.8 | 5638.1 | 5777.1 | 6252.7 | 6606.5 | 5005.2 |
| 35° | 7244.1 | 7261.3 | 6986.8 | 6650.2 | 6291.8 | 6158.5 | 6191.8 | 6332.0 | 6731.8 | 7115.4 | 5241.8 |
| 37.5° | 8133.3 | 8156.2 | 7878.2 | 7564.6 | 7072.9 | 6852.4 | 6886.8 | 7020.1 | 7450.9 | 7818.5 | 5620.9 |
| 40° | 8747.8 | 8778.9 | 8692.7 | 8481.3 | 8025.3 | 7735.8 | 7777.1 | 7825.4 | 8242.4 | 8659.4 | 6112.6 |
| 42.5° | 9071.8 | 9115.4 | 9152.2 | 9260.2 | 9020.1 | 8777.7 | 8707.6 | 8711.1 | 9047.7 | 9516.4 | 6623.8 |
| 45° | 9091.3 | 9133.8 | 9322.2 | 9739.2 | 9921.9 | 9871.3 | 9743.8 | 9657.7 | 9662.3 | 10087.3 | 6943.1 |
| 47.5° | 8459.5 | 8538.8 | 8891.4 | 9708.2 | 10395.2 | 10814.5 | 10750.1 | 10545.7 | 9920.7 | 10125.2 | 6908.7 |
| 50° | 6962.7 | 7040.8 | 7681.8 | 8857.0 | 10050.5 | 11191.3 | 11456.6 | 11182.1 | 9751.9 | 9653.1 | 6553.7 |
| 52.5° | 5056.9 | 5064.9 | 5480.8 | 6853.5 | 8653.6 | 10496.3 | 11121.2 | 11094.8 | 9494.5 | 9081.0 | 6068.9 |
| 55° | 2402.1 | 2373.3 | 2840.9 | 3867.9 | 5985.1 | 8489.4 | 9542.8 | 9841.5 | 9129.2 | 8667.4 | 5693.3 |
| 57.5° | 699.6 | 713.4 | 921.3 | 1509.5 | 2993.7 | 5425.6 | 6535.3 | 7091.3 | 7493.4 | 7125.8 | 4415.9 |
| 60° | 313.6 | 314.8 | 350.4 | 459.5 | 997.1 | 2523.8 | 3378.5 | 4066.6 | 4480.2 | 4151.6 | 2190.7 |
| 62.5° | 227.5 | 228.6 | 242.4 | 259.6 | 338.9 | 854.7 | 1267.1 | 1688.7 | 1719.7 | 1125.8 | 554.9 |
| 65° | 189.5 | 189.5 | 191.8 | 191.8 | 203.3 | 305.6 | 384.8 | 496.3 | 418.2 | 310.2 | 217.1 |
| 67.5° | 152.8 | 153.9 | 156.2 | 156.2 | 152.8 | 152.8 | 165.4 | 181.5 | 194.1 | 240.1 | 199.9 |
| 70° | 119.5 | 118.3 | 118.3 | 119.5 | 116.0 | 98.8 | 106.8 | 121.8 | 133.3 | 187.2 | 173.5 |
| 72.5° | 93.0 | 94.2 | 93.0 | 88.5 | 80.4 | 58.6 | 63.2 | 79.3 | 85.0 | 117.2 | 117.2 |
| 75° | 70.1 | 71.2 | 66.6 | 50.5 | 33.3 | 18.4 | 24.1 | 39.1 | 49.4 | 57.4 | 42.5 |
| 77.5° | 9.2 | 9.2 | 6.9 | 6.9 | 5.7 | 6.9 | 6.9 | 9.2 | 13.8 | 13.8 | 10.3 |
| 80° | 1.1 | 1.1 | 1.1 | 2.3 | 3.4 | 4.6 | 4.6 | 4.6 | 4.6 | 5.7 | 5.7 |
| 82.5° | 1.1 | 1.1 | 1.1 | 1.1 | 3.4 | 3.4 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 85° | 0.0 | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 3.4 | 4.6 | 4.6 | 4.6 | 4.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 3.4 | 3.4 | 4.6 | 4.6 | 4.6 |
| 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° | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 | 3656.5 |
| 2.5° | 3662.3 | 3595.6 | 3515.2 | 3460.1 | 3382.0 | 3330.3 | 3256.7 | 3207.4 | 3164.8 | 3131.5 | 3149.9 |
| 5° | 3663.4 | 3557.7 | 3393.5 | 3253.3 | 3100.5 | 2960.4 | 2809.9 | 2691.6 | 2584.7 | 2536.5 | 2562.9 |
| 7.5° | 3686.4 | 3534.7 | 3283.2 | 3033.9 | 2741.0 | 2451.5 | 2180.4 | 1959.8 | 1850.7 | 1799.0 | 1815.0 |
| 10° | 3731.2 | 3524.4 | 3160.3 | 2746.7 | 2271.1 | 1875.9 | 1612.9 | 1463.5 | 1402.6 | 1370.5 | 1376.2 |
| 12.5° | 3772.5 | 3517.5 | 3000.6 | 2368.8 | 1792.1 | 1455.5 | 1318.8 | 1298.1 | 1310.7 | 1311.9 | 1310.7 |
| 15° | 3828.8 | 3504.9 | 2803.0 | 1980.5 | 1433.7 | 1257.9 | 1261.3 | 1291.2 | 1321.1 | 1330.3 | 1328.0 |
| 17.5° | 3888.6 | 3485.4 | 2548.0 | 1608.3 | 1216.5 | 1200.5 | 1240.7 | 1280.9 | 1310.7 | 1315.3 | 1316.5 |
| 20° | 3950.6 | 3445.1 | 2257.3 | 1313.0 | 1115.5 | 1156.8 | 1201.6 | 1231.5 | 1253.3 | 1260.2 | 1262.5 |
| 22.5° | 3979.3 | 3360.1 | 1921.9 | 1101.7 | 1047.7 | 1102.8 | 1136.1 | 1175.2 | 1182.1 | 1156.8 | 1161.4 |
| 25° | 3964.4 | 3216.5 | 1594.5 | 959.2 | 979.9 | 1035.0 | 1084.4 | 1064.9 | 1036.2 | 1017.8 | 1023.5 |
| 27.5° | 3917.3 | 3025.8 | 1274.0 | 854.7 | 907.5 | 977.6 | 983.3 | 961.5 | 956.9 | 942.0 | 946.6 |
| 30° | 3866.7 | 2806.4 | 1024.7 | 770.8 | 834.0 | 907.5 | 890.3 | 898.3 | 899.5 | 882.3 | 888.0 |
| 32.5° | 3835.7 | 2576.7 | 815.6 | 714.5 | 786.9 | 800.7 | 835.2 | 851.2 | 852.4 | 812.2 | 819.1 |
| 35° | 3846.1 | 2350.4 | 690.4 | 668.6 | 743.3 | 739.8 | 788.1 | 797.2 | 730.6 | 675.5 | 681.2 |
| 37.5° | 3929.9 | 2141.3 | 619.2 | 633.0 | 667.4 | 693.9 | 730.6 | 669.7 | 654.8 | 629.5 | 633.0 |
| 40° | 4086.2 | 1963.2 | 576.7 | 611.1 | 615.7 | 658.2 | 602.0 | 610.0 | 611.1 | 595.1 | 598.5 |
| 42.5° | 4268.8 | 1815.0 | 551.4 | 598.5 | 587.0 | 593.9 | 537.6 | 553.7 | 570.9 | 564.0 | 565.2 |
| 45° | 4360.7 | 1670.3 | 529.6 | 554.9 | 558.3 | 492.8 | 480.2 | 497.4 | 519.2 | 522.7 | 523.8 |
| 47.5° | 4279.1 | 1532.5 | 506.6 | 491.7 | 514.6 | 449.2 | 434.2 | 440.0 | 465.2 | 479.0 | 481.3 |
| 50° | 4029.9 | 1373.9 | 472.1 | 435.4 | 422.7 | 403.2 | 389.4 | 390.6 | 419.3 | 443.4 | 448.0 |
| 52.5° | 3679.5 | 1208.5 | 415.9 | 368.8 | 340.0 | 355.0 | 358.4 | 351.5 | 377.9 | 402.1 | 406.7 |
| 55° | 3339.5 | 1001.7 | 329.7 | 299.8 | 273.4 | 305.6 | 314.8 | 305.6 | 313.6 | 329.7 | 330.8 |
| 57.5° | 2351.5 | 566.3 | 252.7 | 248.1 | 226.3 | 261.9 | 276.9 | 263.1 | 249.3 | 259.6 | 261.9 |
| 60° | 1090.2 | 296.4 | 194.1 | 194.1 | 188.4 | 225.2 | 250.4 | 230.9 | 204.5 | 209.1 | 212.5 |
| 62.5° | 341.2 | 187.2 | 142.4 | 134.4 | 153.9 | 191.8 | 212.5 | 193.0 | 162.0 | 162.0 | 166.6 |
| 65° | 193.0 | 160.8 | 112.6 | 103.4 | 125.2 | 153.9 | 166.6 | 145.9 | 118.3 | 116.0 | 116.0 |
| 67.5° | 179.2 | 152.8 | 99.9 | 83.9 | 88.5 | 98.8 | 103.4 | 89.6 | 81.6 | 80.4 | 81.6 |
| 70° | 148.2 | 127.5 | 80.4 | 57.4 | 54.0 | 52.8 | 55.1 | 51.7 | 49.4 | 50.5 | 54.0 |
| 72.5° | 91.9 | 77.0 | 50.5 | 34.5 | 29.9 | 28.7 | 28.7 | 28.7 | 27.6 | 27.6 | 27.6 |
| 75° | 33.3 | 28.7 | 23.0 | 17.2 | 14.9 | 13.8 | 13.8 | 14.9 | 13.8 | 12.6 | 11.5 |
| 77.5° | 10.3 | 9.2 | 9.2 | 9.2 | 8.0 | 6.9 | 5.7 | 5.7 | 4.6 | 3.4 | 3.4 |
| 80° | 5.7 | 5.7 | 5.7 | 5.7 | 4.6 | 4.6 | 3.4 | 2.3 | 1.1 | 1.1 | 0.0 |
| 82.5° | 5.7 | 5.7 | 5.7 | 4.6 | 4.6 | 4.6 | 3.4 | 2.3 | 1.1 | 0.0 | 0.0 |
| 85° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 3.4 | 2.3 | 1.1 | 0.0 | 0.0 |
| 87.5° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 3.4 | 2.3 | 1.1 | 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)