

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: P457446

Luminaire Tested: **GALN-SA8D-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51125 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

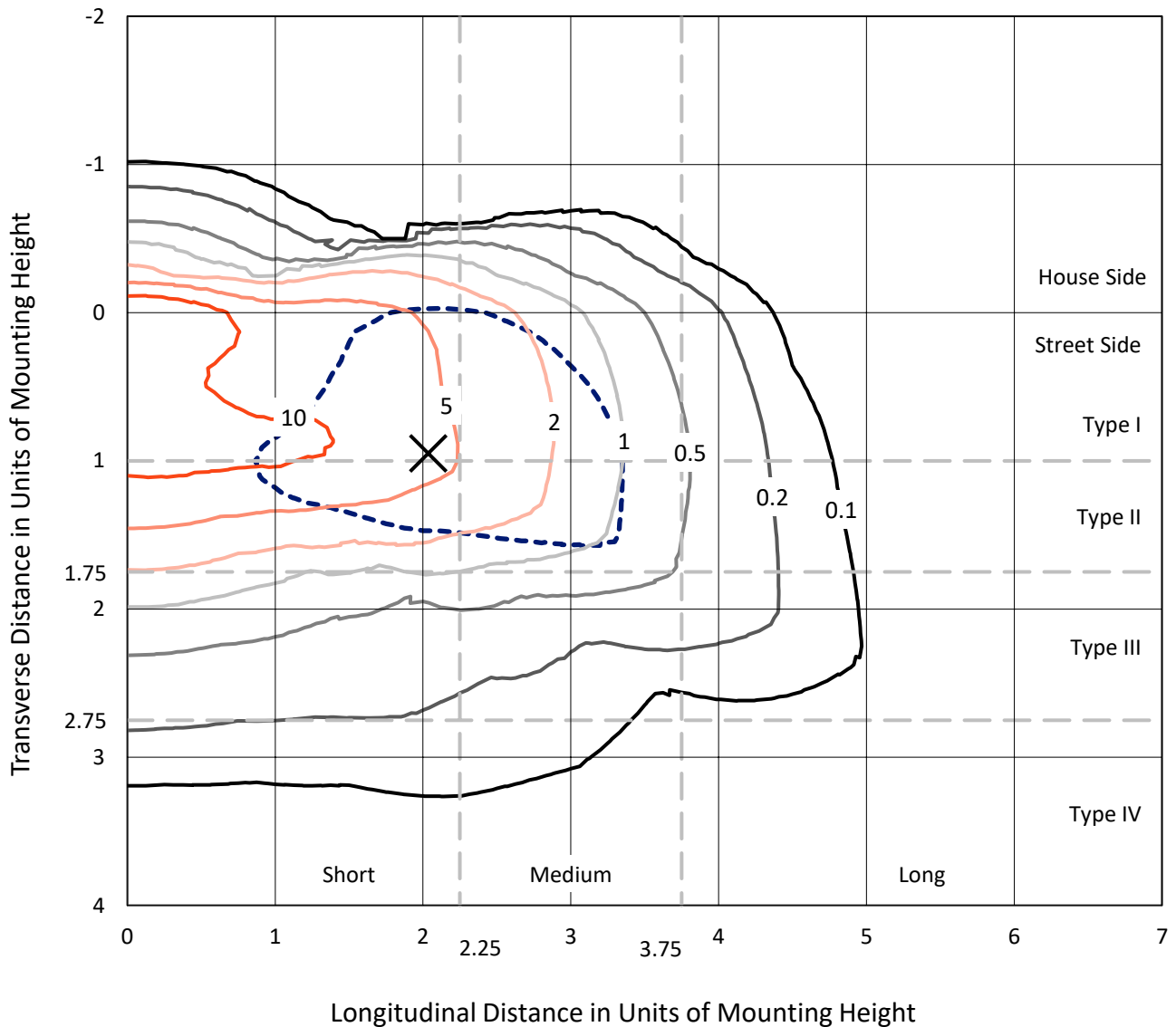
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

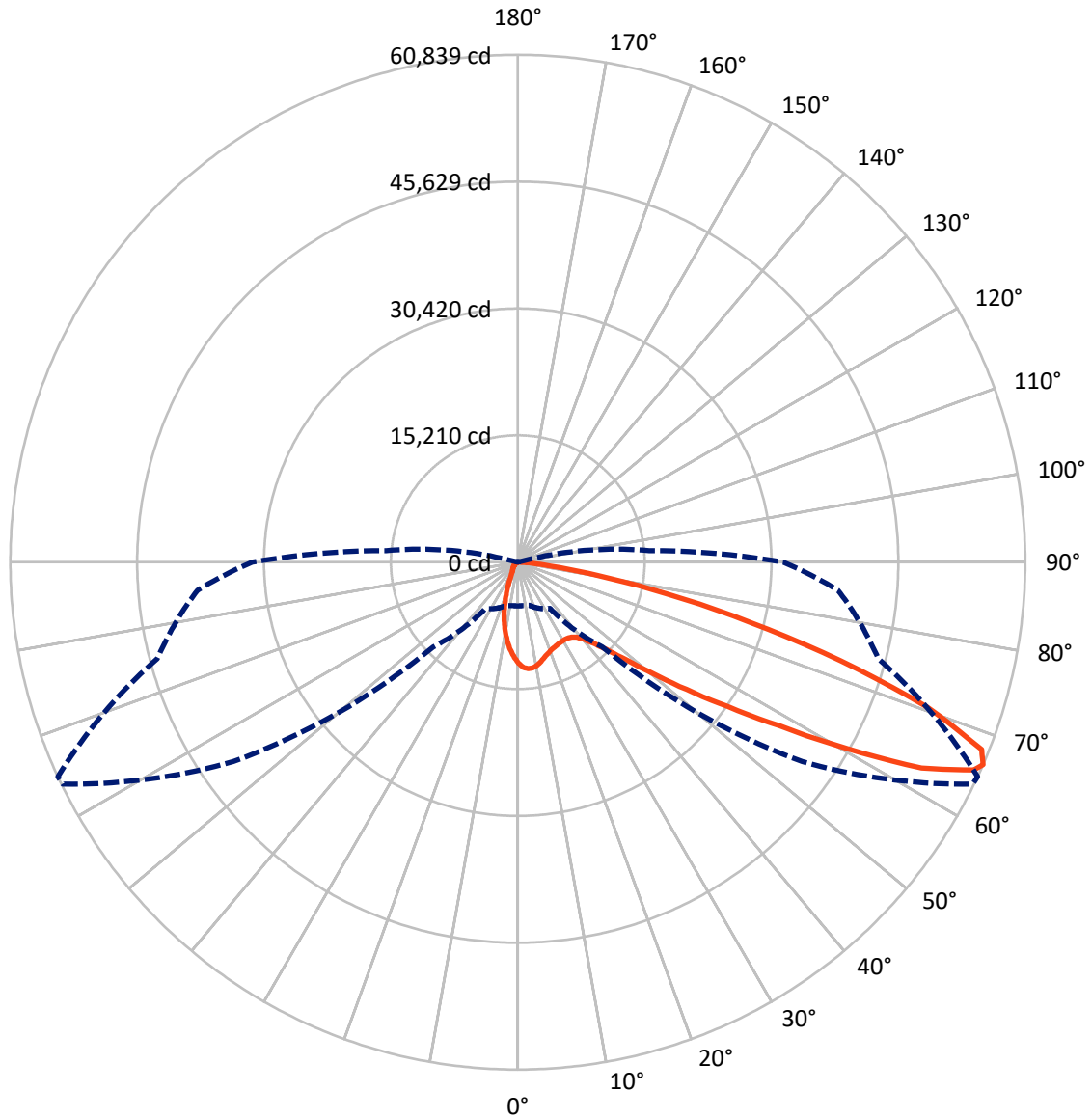
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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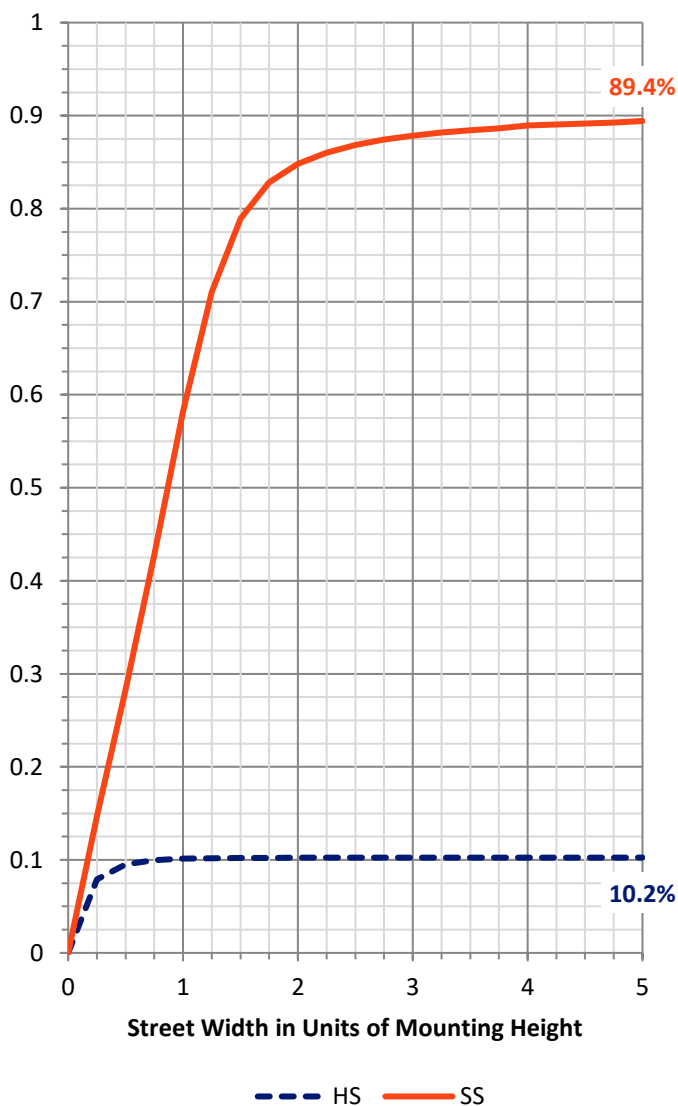
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5287.0 | 0.0 | 5287.0 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 45838.0 | 0.0 | 45838.0 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 51125.0 | 0.0 | 51125.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 991.5 | 1.9 |
| 10°-20° | 2160.4 | 4.2 |
| 20°-30° | 3094.8 | 6.1 |
| 30°-40° | 4520.2 | 8.8 |
| 40°-50° | 7579.5 | 14.8 |
| 50°-60° | 12649.0 | 24.7 |
| 60°-70° | 13426.5 | 26.3 |
| 70°-80° | 6080.9 | 11.9 |
| 80°-90° | 622.2 | 1.2 |
| 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° | 51125.0 | 100.0 |
| 0°-180° | 51125.0 | 100.0 |

Coefficient of Utilization



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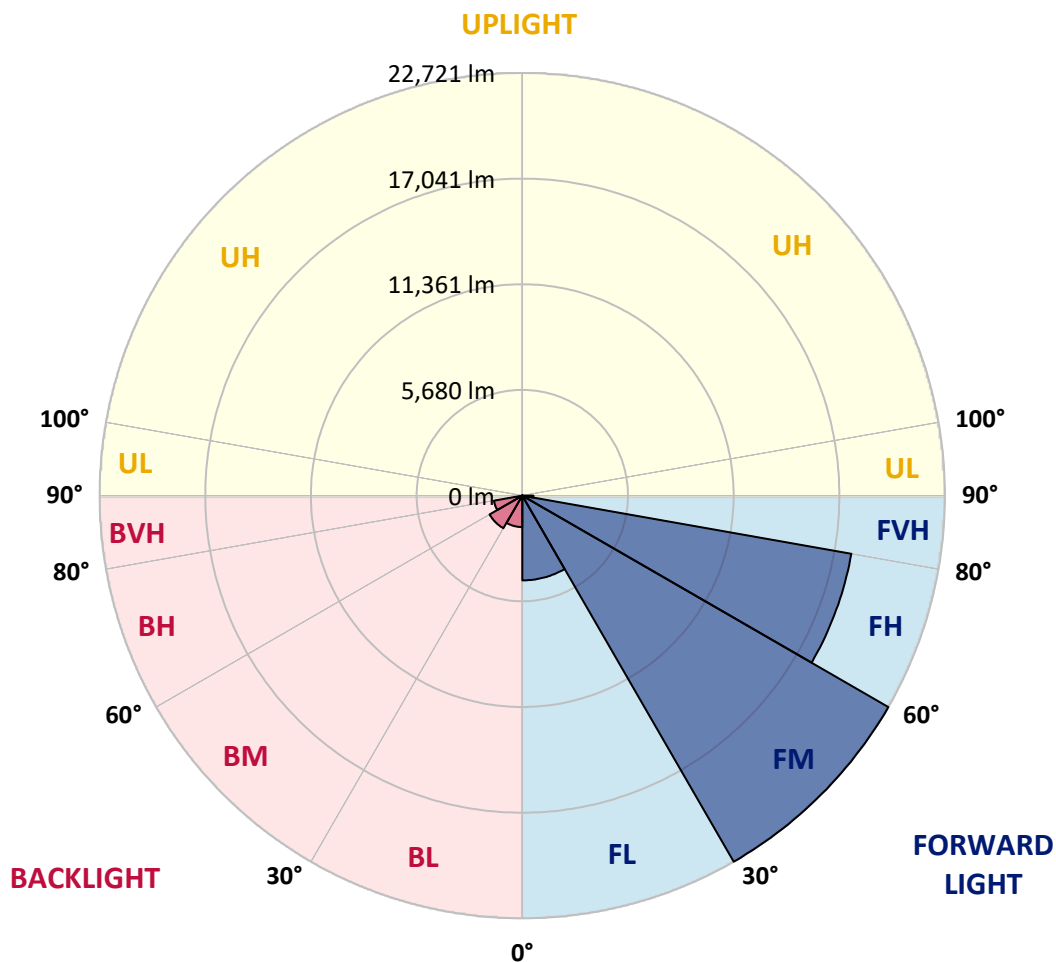
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4555.4 | 8.9 | | | |
| FM | (30°-60°) | 22721.1 | 44.4 | | | |
| FH | (60°-80°) | 17959.1 | 35.1 | | | G5 |
| FVH | (80°-90°) | 602.4 | 1.2 | | | G4/750 |
| BL | (0°-30°) | 1691.3 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 2027.6 | 4.0 | B2/2500 | | |
| BH | (60°-80°) | 1548.3 | 3.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 19.8 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 |
| 2.5° | 12776.2 | 12790.1 | 12807.3 | 12831.5 | 12848.8 | 12797.0 | 12724.5 | 12641.6 | 12624.3 | 12448.2 | 12234.1 |
| 5° | 12092.5 | 12113.3 | 12265.2 | 12348.1 | 12534.5 | 12703.7 | 12810.8 | 12824.6 | 12817.7 | 12651.9 | 12310.1 |
| 7.5° | 11118.8 | 11177.5 | 11326.0 | 11471.0 | 11819.8 | 12140.9 | 12520.7 | 12786.6 | 12803.9 | 12759.0 | 12334.3 |
| 10° | 10328.0 | 10366.0 | 10442.0 | 10728.6 | 11018.7 | 11509.0 | 12040.8 | 12541.4 | 12582.9 | 12762.4 | 12313.5 |
| 12.5° | 9709.9 | 9765.2 | 9858.4 | 10079.4 | 10428.2 | 10890.9 | 11495.2 | 12168.5 | 12254.8 | 12696.8 | 12254.8 |
| 15° | 9278.3 | 9305.9 | 9399.2 | 9616.7 | 9955.1 | 10383.3 | 10994.5 | 11778.3 | 11854.3 | 12610.5 | 12244.5 |
| 17.5° | 9074.6 | 9105.7 | 9171.3 | 9343.9 | 9623.6 | 10020.7 | 10618.1 | 11464.1 | 11560.8 | 12555.3 | 12282.5 |
| 20° | 9129.8 | 9157.5 | 9160.9 | 9250.7 | 9440.6 | 9775.6 | 10341.9 | 11170.6 | 11294.9 | 12520.7 | 12344.6 |
| 22.5° | 9444.1 | 9447.5 | 9406.1 | 9364.6 | 9430.3 | 9672.0 | 10172.7 | 10984.1 | 11111.9 | 12513.8 | 12417.1 |
| 25° | 9913.7 | 9924.0 | 9855.0 | 9709.9 | 9578.7 | 9703.0 | 10134.7 | 10863.3 | 10977.2 | 12496.6 | 12462.0 |
| 27.5° | 10562.8 | 10559.4 | 10538.7 | 10297.0 | 9924.0 | 9841.2 | 10165.7 | 10797.7 | 10894.3 | 12448.2 | 12479.3 |
| 30° | 11471.0 | 11443.4 | 11398.5 | 11125.7 | 10555.9 | 10176.1 | 10297.0 | 10756.2 | 10846.0 | 12379.1 | 12434.4 |
| 32.5° | 12365.3 | 12468.9 | 12462.0 | 12203.0 | 11491.7 | 10773.5 | 10569.8 | 10811.5 | 10877.1 | 12334.3 | 12368.8 |
| 35° | 13408.2 | 13404.7 | 13670.6 | 13573.9 | 12741.7 | 11536.6 | 11035.9 | 10994.5 | 11046.3 | 12365.3 | 12337.7 |
| 37.5° | 14375.0 | 14464.8 | 14879.1 | 14979.3 | 14219.6 | 12614.0 | 11695.4 | 11388.1 | 11405.4 | 12576.0 | 12413.7 |
| 40° | 15580.1 | 15752.8 | 16370.9 | 16705.8 | 16035.9 | 14212.7 | 12669.2 | 12109.8 | 12113.3 | 13093.9 | 12700.3 |
| 42.5° | 17134.0 | 17406.8 | 17983.4 | 18542.8 | 18183.7 | 16105.0 | 14129.8 | 13252.8 | 13245.9 | 14005.5 | 13356.4 |
| 45° | 19022.8 | 19212.7 | 19868.8 | 20756.2 | 20528.3 | 18746.6 | 16256.9 | 15024.2 | 14934.4 | 15500.7 | 14520.0 |
| 47.5° | 20652.6 | 20911.6 | 21578.0 | 22589.8 | 23625.7 | 21971.7 | 18798.3 | 17458.6 | 17399.9 | 17879.8 | 16515.9 |
| 50° | 21364.0 | 21591.9 | 22292.8 | 23712.0 | 26222.4 | 26205.1 | 22582.9 | 21011.7 | 20911.6 | 21170.6 | 19602.9 |
| 52.5° | 20583.6 | 20797.7 | 21505.5 | 23273.5 | 27444.8 | 31364.0 | 28066.3 | 25469.6 | 25348.8 | 25017.3 | 23290.8 |
| 55° | 17910.9 | 18087.0 | 19133.3 | 21163.7 | 26975.1 | 34803.2 | 35621.6 | 30977.2 | 30507.6 | 29219.6 | 27465.5 |
| 57.5° | 14261.1 | 14171.3 | 14820.4 | 17178.9 | 24219.6 | 35956.5 | 43377.1 | 37838.4 | 36999.3 | 32852.2 | 30997.9 |
| 60° | 9882.6 | 10158.8 | 10421.3 | 11975.1 | 18211.3 | 33957.2 | 48201.0 | 46464.1 | 45359.1 | 36426.1 | 34381.9 |
| 62.5° | 7265.2 | 7448.2 | 7620.9 | 8339.1 | 11450.3 | 27113.3 | 49053.9 | 55324.6 | 54343.9 | 40221.0 | 37610.5 |
| 65° | 5745.9 | 5759.7 | 5828.7 | 6536.6 | 7544.9 | 17631.2 | 44955.1 | 60321.2 | 60069.1 | 43874.3 | 38919.2 |
| 66° | 5234.8 | 5238.3 | 5345.3 | 6105.0 | 6771.4 | 14357.7 | 41671.3 | 60701.0 | 60839.1 | 44751.4 | 38535.9 |
| 67.5° | 4575.3 | 4561.5 | 4716.9 | 5486.9 | 6167.1 | 10352.2 | 35794.2 | 59160.9 | 59979.3 | 45424.7 | 37158.2 |
| 70° | 3546.3 | 3529.0 | 3718.9 | 4602.9 | 5680.3 | 6906.1 | 23791.4 | 50797.7 | 52116.7 | 44047.0 | 32876.4 |
| 72.5° | 2361.9 | 2375.7 | 2700.3 | 3632.6 | 5421.3 | 6080.8 | 14312.9 | 38643.0 | 40507.6 | 36374.3 | 25863.3 |
| 75° | 1377.8 | 1401.9 | 1771.4 | 2700.3 | 4706.5 | 5797.7 | 8100.8 | 27555.3 | 28746.6 | 25117.4 | 16111.9 |
| 77.5° | 721.7 | 732.0 | 991.0 | 1781.8 | 3608.4 | 5383.3 | 5397.1 | 17603.6 | 18163.0 | 12206.5 | 6377.8 |
| 80° | 383.3 | 372.9 | 531.8 | 1073.9 | 2482.7 | 4727.2 | 4378.5 | 9319.8 | 9689.2 | 3625.7 | 1612.6 |
| 82.5° | 145.0 | 158.8 | 283.1 | 704.4 | 1467.5 | 3394.3 | 3770.7 | 4119.5 | 3991.7 | 797.7 | 676.8 |
| 85° | 27.6 | 34.5 | 120.9 | 417.8 | 739.0 | 1419.2 | 2779.7 | 2020.0 | 1871.5 | 300.4 | 390.2 |
| 87.5° | 3.5 | 6.9 | 34.5 | 100.1 | 107.0 | 480.0 | 821.8 | 559.4 | 483.4 | 110.5 | 162.3 |
| 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° | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 | 12123.6 |
| 2.5° | 12130.5 | 12037.3 | 11726.5 | 11419.2 | 11105.0 | 10821.8 | 10628.5 | 10314.2 | 10234.8 | 10120.9 | 10055.3 |
| 5° | 12106.4 | 11888.8 | 11291.4 | 10638.8 | 10031.1 | 9375.0 | 8874.3 | 8390.9 | 8131.9 | 8000.7 | 7952.4 |
| 7.5° | 12037.3 | 11692.0 | 10759.7 | 9737.6 | 8763.8 | 7783.2 | 6930.3 | 6281.1 | 5863.3 | 5576.7 | 5383.3 |
| 10° | 11899.2 | 11422.7 | 10141.6 | 8736.2 | 7265.2 | 5970.3 | 4889.5 | 4067.7 | 3432.3 | 3232.0 | 3239.0 |
| 12.5° | 11757.6 | 11122.2 | 9451.0 | 7624.3 | 5801.1 | 4167.8 | 3021.4 | 2372.2 | 2068.4 | 1968.2 | 1947.5 |
| 15° | 11626.4 | 10835.6 | 8774.2 | 6547.0 | 4319.8 | 2700.3 | 1947.5 | 1719.6 | 1636.7 | 1619.5 | 1616.0 |
| 17.5° | 11557.3 | 10569.8 | 8052.5 | 5314.2 | 3014.5 | 1833.6 | 1560.8 | 1498.6 | 1474.4 | 1457.2 | 1450.3 |
| 20° | 11498.6 | 10338.4 | 7361.9 | 4160.9 | 2061.5 | 1502.1 | 1398.5 | 1339.8 | 1298.3 | 1281.1 | 1270.7 |
| 22.5° | 11457.2 | 10100.1 | 6647.1 | 3221.7 | 1578.0 | 1332.9 | 1239.6 | 1163.7 | 1105.0 | 1084.3 | 1070.4 |
| 25° | 11395.0 | 9837.7 | 5925.4 | 2355.0 | 1329.4 | 1184.4 | 1077.3 | 987.6 | 911.6 | 873.6 | 866.7 |
| 27.5° | 11305.3 | 9540.7 | 5134.7 | 1743.8 | 1187.8 | 1053.2 | 922.0 | 811.5 | 735.5 | 694.1 | 697.5 |
| 30° | 11160.2 | 9230.0 | 4343.9 | 1384.7 | 1073.9 | 918.5 | 776.9 | 669.9 | 597.4 | 566.3 | 562.8 |
| 32.5° | 10987.6 | 8853.6 | 3618.8 | 1187.8 | 970.3 | 797.7 | 649.2 | 555.9 | 500.7 | 476.5 | 473.1 |
| 35° | 10825.3 | 8473.8 | 2879.8 | 1067.0 | 863.3 | 687.2 | 545.6 | 466.2 | 424.7 | 404.0 | 407.5 |
| 37.5° | 10735.5 | 8135.4 | 2244.5 | 970.3 | 776.9 | 590.5 | 469.6 | 400.6 | 362.6 | 345.3 | 341.9 |
| 40° | 10794.2 | 7859.1 | 1785.2 | 884.0 | 680.2 | 507.6 | 404.0 | 345.3 | 307.3 | 283.1 | 283.1 |
| 42.5° | 11070.4 | 7738.3 | 1439.9 | 801.1 | 590.5 | 438.5 | 352.2 | 297.0 | 255.5 | 231.4 | 234.8 |
| 45° | 11913.0 | 7866.0 | 1205.1 | 725.1 | 507.6 | 379.8 | 303.9 | 245.2 | 207.2 | 189.9 | 186.5 |
| 47.5° | 13311.5 | 8346.0 | 1042.8 | 645.7 | 435.1 | 324.6 | 255.5 | 203.7 | 165.7 | 151.9 | 148.5 |
| 50° | 15756.2 | 9337.0 | 922.0 | 566.3 | 369.5 | 276.2 | 210.6 | 162.3 | 131.2 | 117.4 | 117.4 |
| 52.5° | 19119.5 | 11498.6 | 835.6 | 476.5 | 310.8 | 234.8 | 172.7 | 131.2 | 103.6 | 93.2 | 89.8 |
| 55° | 22634.7 | 13777.6 | 790.7 | 400.6 | 259.0 | 193.4 | 138.1 | 103.6 | 79.4 | 69.1 | 65.6 |
| 57.5° | 26015.2 | 15566.3 | 739.0 | 324.6 | 207.2 | 148.5 | 107.0 | 79.4 | 55.2 | 48.3 | 44.9 |
| 60° | 29257.6 | 17013.1 | 628.5 | 259.0 | 162.3 | 107.0 | 79.4 | 55.2 | 38.0 | 31.1 | 31.1 |
| 62.5° | 32158.2 | 17855.7 | 493.8 | 207.2 | 124.3 | 76.0 | 51.8 | 41.4 | 27.6 | 20.7 | 20.7 |
| 65° | 32496.6 | 16761.1 | 372.9 | 158.8 | 89.8 | 48.3 | 31.1 | 31.1 | 20.7 | 13.8 | 13.8 |
| 66° | 31816.3 | 15832.2 | 328.0 | 145.0 | 79.4 | 41.4 | 27.6 | 24.2 | 17.3 | 10.4 | 10.4 |
| 67.5° | 30297.0 | 14247.2 | 283.1 | 124.3 | 65.6 | 31.1 | 20.7 | 20.7 | 13.8 | 6.9 | 6.9 |
| 70° | 26177.5 | 11636.7 | 224.4 | 93.2 | 48.3 | 24.2 | 13.8 | 13.8 | 10.4 | 6.9 | 6.9 |
| 72.5° | 19951.7 | 8687.8 | 183.0 | 69.1 | 34.5 | 17.3 | 10.4 | 10.4 | 10.4 | 6.9 | 6.9 |
| 75° | 12033.8 | 4678.9 | 141.6 | 51.8 | 31.1 | 13.8 | 6.9 | 10.4 | 13.8 | 10.4 | 6.9 |
| 77.5° | 4433.7 | 1591.9 | 110.5 | 41.4 | 24.2 | 13.8 | 6.9 | 6.9 | 13.8 | 10.4 | 10.4 |
| 80° | 1087.7 | 414.4 | 79.4 | 34.5 | 24.2 | 13.8 | 6.9 | 6.9 | 13.8 | 13.8 | 13.8 |
| 82.5° | 504.1 | 176.1 | 55.2 | 31.1 | 24.2 | 13.8 | 6.9 | 6.9 | 10.4 | 13.8 | 13.8 |
| 85° | 290.1 | 82.9 | 44.9 | 34.5 | 24.2 | 13.8 | 6.9 | 6.9 | 10.4 | 13.8 | 13.8 |
| 87.5° | 117.4 | 41.4 | 41.4 | 34.5 | 27.6 | 17.3 | 6.9 | 6.9 | 6.9 | 10.4 | 10.4 |
| 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)