

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: STREETWORKS

Report Number: P648812

Luminaire Tested: **GLAN-SA3C-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3C-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16403.1 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

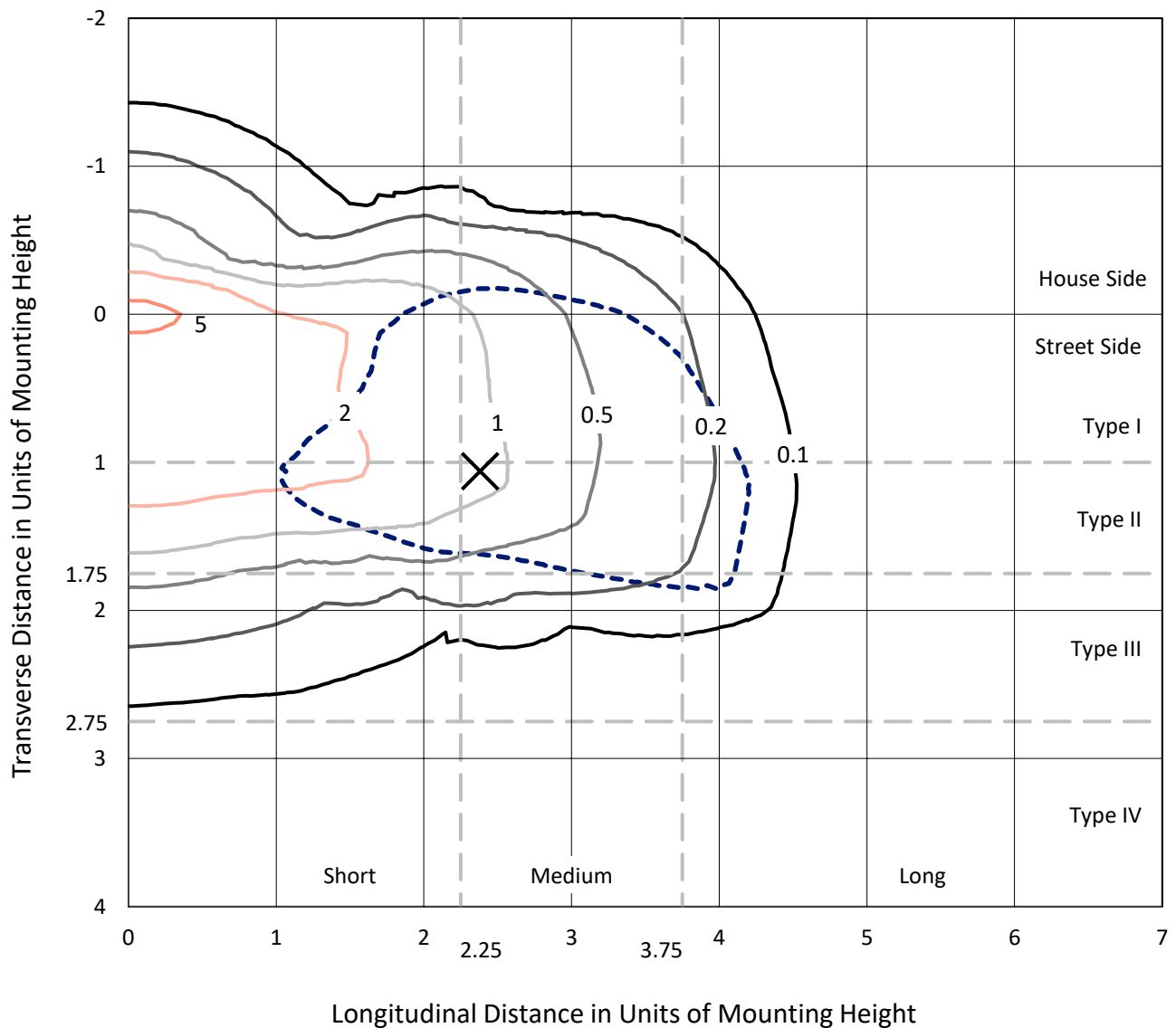
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

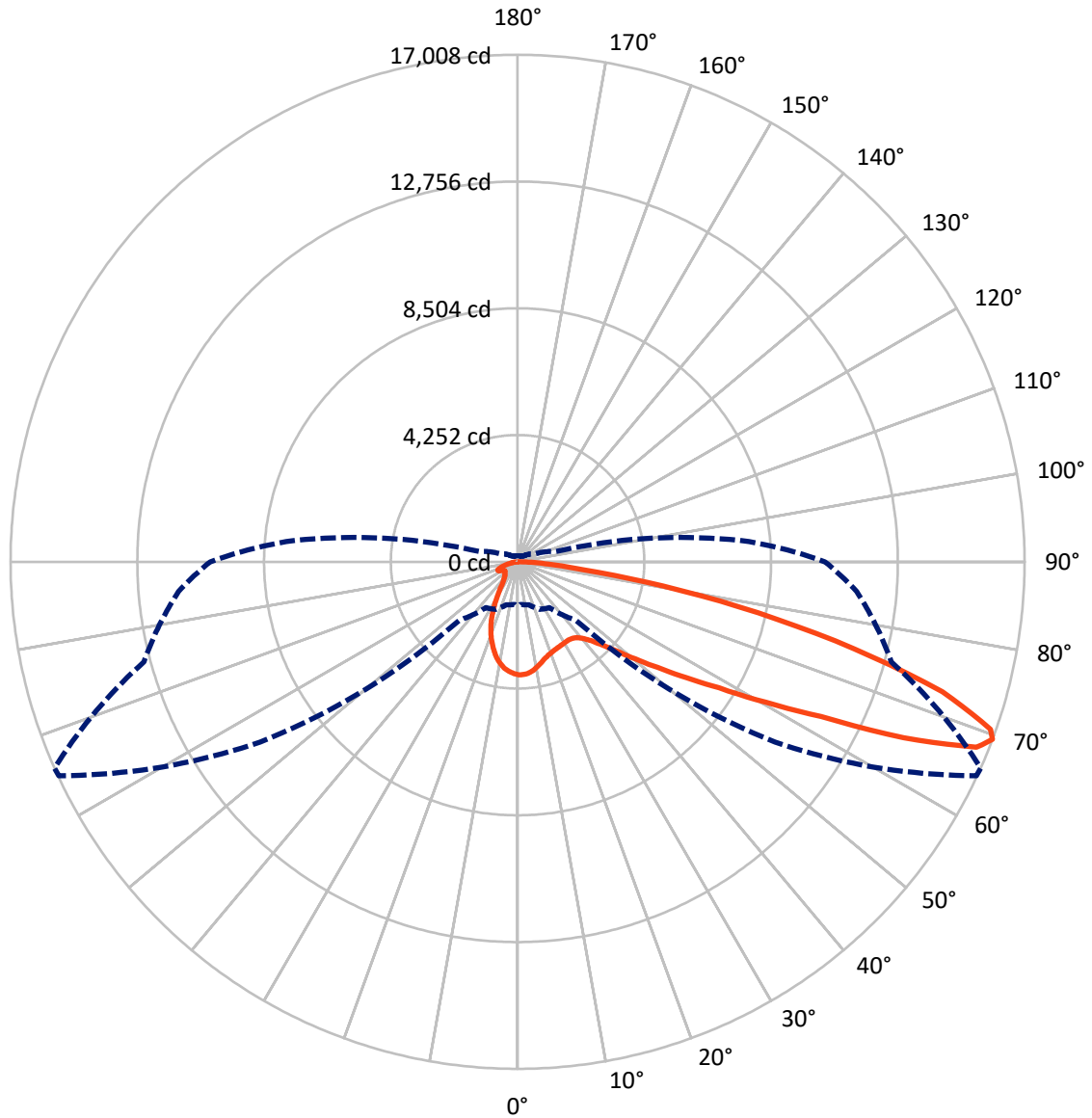
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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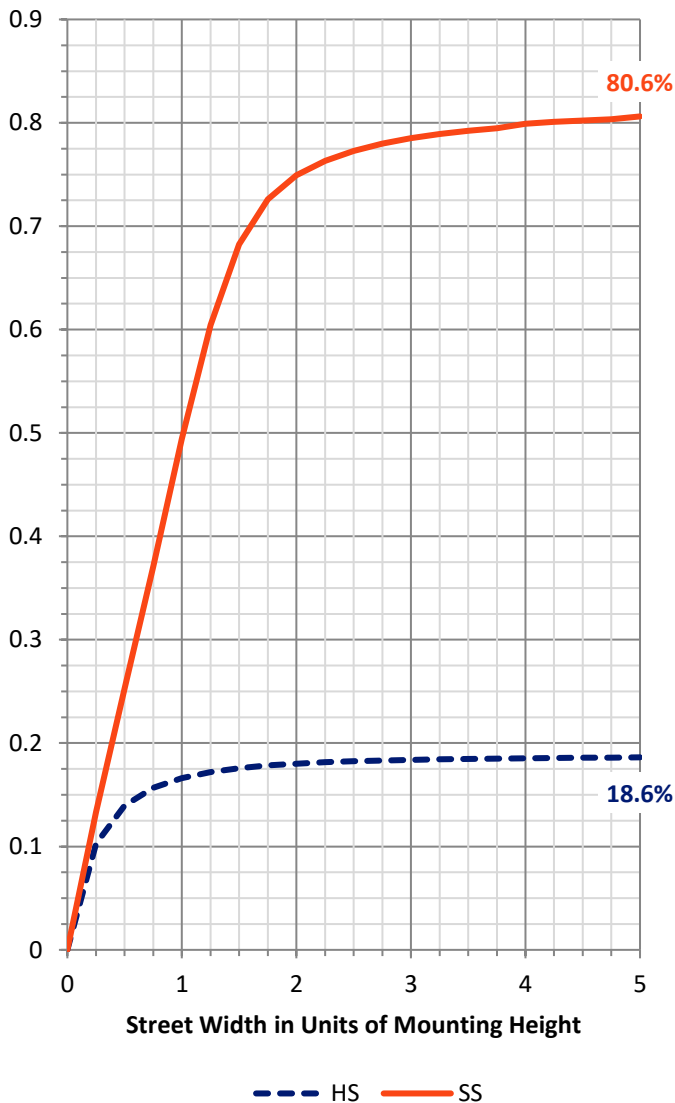
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3084.8 | 0.0 | 3084.8 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 13318.3 | 0.0 | 13318.3 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 16403.1 | 0.0 | 16403.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 328.9 | 2.0 |
| 10°-20° | 780.2 | 4.8 |
| 20°-30° | 1062.2 | 6.5 |
| 30°-40° | 1427.3 | 8.7 |
| 40°-50° | 2131.2 | 13.0 |
| 50°-60° | 3390.1 | 20.7 |
| 60°-70° | 4169.6 | 25.4 |
| 70°-80° | 2712.9 | 16.5 |
| 80°-90° | 400.6 | 2.4 |
| 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° | 16403.1 | 100.0 |
| 0°-180° | 16403.1 | 100.0 |

Coefficient of Utilization

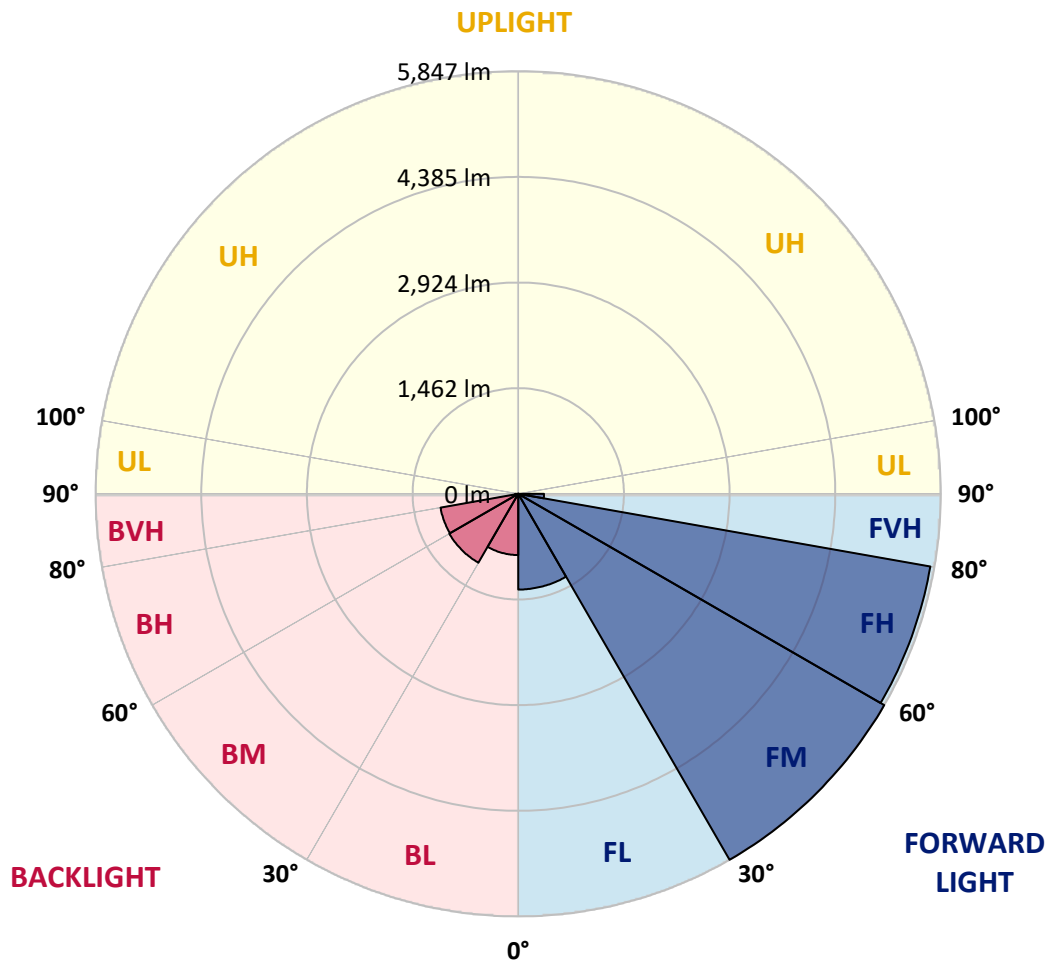


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1324.5 | 8.1 | | | |
| FM (30°-60°) | 5847.2 | 35.6 | | | |
| FH (60°-80°) | 5790.4 | 35.3 | | | G3/7500 |
| FVH (80°-90°) | 356.2 | 2.2 | | | G3/500 |
| BL (0°-30°) | 846.8 | 5.2 | B2/1000 | | |
| BM (30°-60°) | 1101.4 | 6.7 | B2/2500 | | |
| BH (60°-80°) | 1092.2 | 6.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 44.4 | 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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 |
| 2.5° | 3655.3 | 3669.8 | 3686.2 | 3704.4 | 3738.9 | 3757.9 | 3771.6 | 3787.0 | 3788.9 | 3797.0 | 3790.7 |
| 5° | 3385.5 | 3402.8 | 3427.3 | 3461.8 | 3513.6 | 3594.4 | 3678.0 | 3746.1 | 3754.3 | 3792.5 | 3803.3 |
| 7.5° | 3160.3 | 3170.2 | 3190.2 | 3245.6 | 3319.2 | 3409.1 | 3530.9 | 3668.9 | 3688.9 | 3779.8 | 3811.6 |
| 10° | 2976.7 | 2986.8 | 3010.3 | 3067.6 | 3140.2 | 3252.9 | 3386.4 | 3568.1 | 3584.4 | 3740.7 | 3813.4 |
| 12.5° | 2839.5 | 2848.6 | 2874.1 | 2930.5 | 3014.0 | 3119.4 | 3266.5 | 3459.1 | 3482.7 | 3688.9 | 3796.1 |
| 15° | 2735.1 | 2752.4 | 2773.3 | 2819.6 | 2907.7 | 3009.5 | 3152.0 | 3359.1 | 3378.3 | 3634.4 | 3784.3 |
| 17.5° | 2690.6 | 2698.8 | 2713.3 | 2756.0 | 2820.5 | 2920.4 | 3064.0 | 3281.1 | 3303.8 | 3596.2 | 3781.6 |
| 20° | 2692.4 | 2700.6 | 2703.3 | 2727.0 | 2773.3 | 2859.6 | 3001.2 | 3219.3 | 3246.6 | 3562.6 | 3786.1 |
| 22.5° | 2754.2 | 2755.1 | 2745.1 | 2736.9 | 2755.1 | 2826.9 | 2956.8 | 3173.0 | 3204.7 | 3548.1 | 3789.7 |
| 25° | 2849.6 | 2865.9 | 2851.4 | 2813.2 | 2779.6 | 2814.2 | 2939.5 | 3147.5 | 3177.5 | 3527.3 | 3785.2 |
| 27.5° | 3004.0 | 3006.7 | 2994.9 | 2943.1 | 2855.9 | 2830.5 | 2932.3 | 3128.5 | 3153.8 | 3511.8 | 3762.5 |
| 30° | 3211.1 | 3202.9 | 3192.1 | 3134.8 | 2997.6 | 2893.2 | 2947.7 | 3111.2 | 3137.6 | 3489.0 | 3735.2 |
| 32.5° | 3420.9 | 3446.4 | 3436.4 | 3369.2 | 3191.1 | 3014.9 | 2997.6 | 3109.4 | 3131.1 | 3471.8 | 3705.2 |
| 35° | 3643.5 | 3655.3 | 3702.6 | 3668.0 | 3485.4 | 3212.0 | 3091.2 | 3137.6 | 3154.8 | 3472.7 | 3684.4 |
| 37.5° | 3817.9 | 3849.7 | 3960.5 | 3990.5 | 3818.8 | 3472.7 | 3242.9 | 3217.4 | 3224.7 | 3517.2 | 3692.5 |
| 40° | 4028.6 | 4083.1 | 4225.8 | 4348.4 | 4235.7 | 3811.6 | 3500.9 | 3365.5 | 3374.7 | 3624.4 | 3746.1 |
| 42.5° | 4295.7 | 4333.8 | 4525.5 | 4691.7 | 4673.6 | 4259.4 | 3813.4 | 3608.1 | 3612.6 | 3837.9 | 3896.1 |
| 45° | 4608.2 | 4662.7 | 4878.0 | 5127.8 | 5170.5 | 4766.3 | 4264.8 | 3975.1 | 3972.3 | 4169.5 | 4175.8 |
| 47.5° | 5007.8 | 5041.5 | 5254.9 | 5527.4 | 5700.1 | 5403.0 | 4812.6 | 4501.9 | 4472.8 | 4652.7 | 4600.9 |
| 50° | 5375.8 | 5428.5 | 5590.2 | 5888.1 | 6317.7 | 6148.8 | 5532.9 | 5185.0 | 5116.9 | 5284.9 | 5197.7 |
| 52.5° | 5530.2 | 5585.6 | 5721.9 | 6091.6 | 6847.3 | 7113.5 | 6447.6 | 5999.8 | 5886.3 | 6015.2 | 5983.5 |
| 55° | 5262.2 | 5334.0 | 5461.1 | 5910.8 | 7079.9 | 8226.3 | 7681.2 | 6941.8 | 6859.2 | 6803.7 | 6812.8 |
| 57.5° | 4541.9 | 4610.0 | 4781.7 | 5277.7 | 6801.9 | 9033.8 | 9442.6 | 8152.7 | 7975.6 | 7720.3 | 7763.9 |
| 60° | 3457.3 | 3499.9 | 3589.0 | 4138.5 | 5978.0 | 9243.6 | 11442.8 | 9683.3 | 9570.6 | 8633.2 | 8664.1 |
| 62.5° | 2455.3 | 2503.5 | 2565.3 | 2839.5 | 4376.6 | 8652.3 | 13008.8 | 11820.7 | 11418.3 | 9578.8 | 9548.8 |
| 65° | 1993.9 | 1961.2 | 2035.6 | 2163.7 | 2568.0 | 6705.6 | 13361.3 | 14787.4 | 14233.3 | 10824.2 | 10408.2 |
| 67.5° | 1639.6 | 1605.1 | 1678.7 | 1906.7 | 1953.0 | 3892.4 | 12091.4 | 16713.2 | 16602.3 | 12178.5 | 11281.1 |
| 69° | 1451.6 | 1433.4 | 1497.9 | 1757.7 | 1874.9 | 2764.1 | 10533.5 | 16981.2 | 17007.5 | 12977.1 | 11415.5 |
| 70° | 1308.1 | 1315.4 | 1378.0 | 1682.3 | 1839.4 | 2279.1 | 9002.9 | 16611.4 | 16834.9 | 13375.8 | 11270.2 |
| 72.5° | 962.9 | 978.4 | 1065.5 | 1393.4 | 1805.8 | 1933.9 | 5357.6 | 14509.5 | 14904.6 | 13399.5 | 10310.1 |
| 75° | 673.1 | 665.9 | 743.1 | 1049.1 | 1705.9 | 1916.7 | 3146.6 | 11221.2 | 11669.0 | 11581.7 | 8663.2 |
| 77.5° | 440.6 | 452.3 | 514.1 | 741.3 | 1435.2 | 1902.1 | 2051.1 | 7961.0 | 8251.6 | 7745.7 | 5124.1 |
| 80° | 310.7 | 309.8 | 344.3 | 506.0 | 1064.6 | 1827.7 | 1679.6 | 5017.9 | 4944.3 | 3044.0 | 1519.7 |
| 82.5° | 178.1 | 190.7 | 230.8 | 356.1 | 712.1 | 1608.8 | 1545.2 | 2399.9 | 2191.0 | 867.5 | 513.3 |
| 85° | 99.0 | 103.6 | 137.2 | 215.2 | 416.0 | 1211.8 | 1349.0 | 1091.9 | 1030.1 | 362.5 | 220.7 |
| 87.5° | 31.8 | 34.5 | 57.2 | 109.0 | 188.9 | 572.3 | 764.0 | 504.2 | 465.1 | 130.8 | 89.0 |
| 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° | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 | 3787.9 |
| 2.5° | 3793.4 | 3804.3 | 3775.2 | 3747.0 | 3721.6 | 3686.2 | 3654.4 | 3628.0 | 3609.9 | 3607.1 | 3598.0 |
| 5° | 3806.1 | 3807.0 | 3751.6 | 3677.1 | 3604.5 | 3524.5 | 3441.8 | 3382.8 | 3327.4 | 3296.5 | 3281.1 |
| 7.5° | 3815.2 | 3807.0 | 3707.1 | 3586.3 | 3446.4 | 3301.0 | 3155.7 | 3039.4 | 2949.5 | 2914.1 | 2927.7 |
| 10° | 3811.6 | 3786.1 | 3639.9 | 3446.4 | 3242.9 | 3025.8 | 2816.8 | 2653.4 | 2503.5 | 2426.3 | 2428.1 |
| 12.5° | 3791.5 | 3749.8 | 3539.9 | 3289.2 | 2990.4 | 2699.7 | 2379.9 | 2159.2 | 1985.7 | 1883.0 | 1851.2 |
| 15° | 3774.3 | 3701.6 | 3422.7 | 3075.8 | 2704.2 | 2289.1 | 1899.4 | 1626.9 | 1481.6 | 1400.7 | 1399.8 |
| 17.5° | 3756.1 | 3655.3 | 3294.7 | 2849.6 | 2375.4 | 1841.3 | 1432.5 | 1224.5 | 1156.3 | 1164.6 | 1150.9 |
| 20° | 3737.0 | 3600.8 | 3161.1 | 2597.9 | 1974.8 | 1373.5 | 1072.8 | 988.3 | 1007.4 | 1044.6 | 1050.1 |
| 22.5° | 3715.3 | 3542.7 | 3017.6 | 2320.9 | 1553.3 | 1033.7 | 870.2 | 857.5 | 906.6 | 964.7 | 972.9 |
| 25° | 3681.7 | 3470.0 | 2836.9 | 2031.1 | 1198.1 | 833.0 | 762.1 | 771.2 | 819.3 | 868.4 | 873.8 |
| 27.5° | 3634.4 | 3380.1 | 2654.3 | 1669.6 | 900.2 | 714.9 | 696.7 | 708.5 | 732.2 | 762.1 | 769.4 |
| 30° | 3570.8 | 3278.3 | 2444.4 | 1357.1 | 721.2 | 655.8 | 648.6 | 654.9 | 668.5 | 681.3 | 684.9 |
| 32.5° | 3507.2 | 3180.2 | 2232.8 | 1039.2 | 643.2 | 616.8 | 609.5 | 609.5 | 609.5 | 611.4 | 612.2 |
| 35° | 3448.2 | 3087.6 | 2005.7 | 809.4 | 602.3 | 585.9 | 575.9 | 565.0 | 563.2 | 556.9 | 556.9 |
| 37.5° | 3415.5 | 3003.1 | 1764.1 | 677.7 | 572.3 | 560.5 | 546.8 | 528.7 | 518.7 | 519.6 | 517.8 |
| 40° | 3421.9 | 2947.7 | 1544.2 | 603.1 | 547.8 | 535.0 | 514.1 | 493.2 | 486.9 | 486.9 | 485.1 |
| 42.5° | 3493.6 | 2929.5 | 1333.5 | 564.1 | 524.1 | 509.6 | 483.3 | 464.2 | 460.6 | 459.6 | 461.4 |
| 45° | 3659.0 | 2974.0 | 1144.6 | 538.7 | 504.2 | 482.3 | 456.0 | 438.7 | 435.1 | 435.1 | 434.2 |
| 47.5° | 3981.4 | 3118.5 | 1009.2 | 522.3 | 489.6 | 461.4 | 434.2 | 416.9 | 410.6 | 408.8 | 408.8 |
| 50° | 4482.8 | 3431.8 | 908.4 | 507.8 | 471.4 | 442.4 | 414.2 | 394.2 | 384.2 | 383.4 | 382.4 |
| 52.5° | 5179.5 | 3920.6 | 869.3 | 496.9 | 451.5 | 422.4 | 391.5 | 372.4 | 359.7 | 357.0 | 355.2 |
| 55° | 5994.3 | 4602.7 | 922.9 | 488.7 | 430.6 | 399.7 | 367.9 | 347.9 | 336.1 | 330.7 | 329.7 |
| 57.5° | 6938.2 | 5422.1 | 1126.4 | 477.8 | 411.5 | 375.1 | 344.3 | 324.3 | 311.6 | 305.2 | 303.4 |
| 60° | 7785.7 | 6264.2 | 1481.6 | 471.4 | 395.2 | 348.8 | 317.0 | 298.9 | 287.0 | 280.7 | 279.8 |
| 62.5° | 8716.7 | 7067.1 | 1905.7 | 488.7 | 387.9 | 323.4 | 291.6 | 275.2 | 265.3 | 258.9 | 258.9 |
| 65° | 9711.5 | 7871.1 | 2186.4 | 546.8 | 398.8 | 303.4 | 264.3 | 250.7 | 241.6 | 237.1 | 236.2 |
| 67.5° | 10381.8 | 8149.0 | 1801.3 | 606.8 | 426.0 | 281.6 | 238.0 | 227.1 | 221.7 | 217.1 | 217.1 |
| 69° | 10309.1 | 7797.5 | 1329.0 | 622.3 | 434.2 | 270.7 | 223.5 | 215.2 | 208.0 | 206.2 | 204.4 |
| 70° | 10079.3 | 7396.9 | 1113.7 | 612.2 | 427.8 | 260.7 | 214.4 | 204.4 | 198.0 | 196.2 | 195.3 |
| 72.5° | 8977.5 | 6415.0 | 829.4 | 532.3 | 364.3 | 226.2 | 189.9 | 180.8 | 175.3 | 172.6 | 172.6 |
| 75° | 7458.7 | 5243.1 | 647.7 | 423.3 | 285.2 | 190.7 | 162.6 | 155.3 | 150.8 | 149.0 | 148.1 |
| 77.5° | 4180.4 | 2927.7 | 465.1 | 331.5 | 216.2 | 154.4 | 136.2 | 129.9 | 125.4 | 123.6 | 123.6 |
| 80° | 1164.6 | 836.6 | 273.4 | 218.9 | 147.1 | 117.2 | 108.1 | 103.6 | 97.2 | 92.6 | 95.4 |
| 82.5° | 438.7 | 362.5 | 156.2 | 131.7 | 93.6 | 78.1 | 75.4 | 71.7 | 69.1 | 62.6 | 62.6 |
| 85° | 213.4 | 176.3 | 99.9 | 69.9 | 51.8 | 40.9 | 39.1 | 37.3 | 35.4 | 30.9 | 31.8 |
| 87.5° | 73.6 | 78.1 | 43.6 | 25.4 | 15.4 | 10.0 | 8.1 | 4.5 | 4.5 | 4.5 | 4.5 |
| 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)