

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: P459116

Luminaire Tested: **GLAN-SA6A-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19778 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

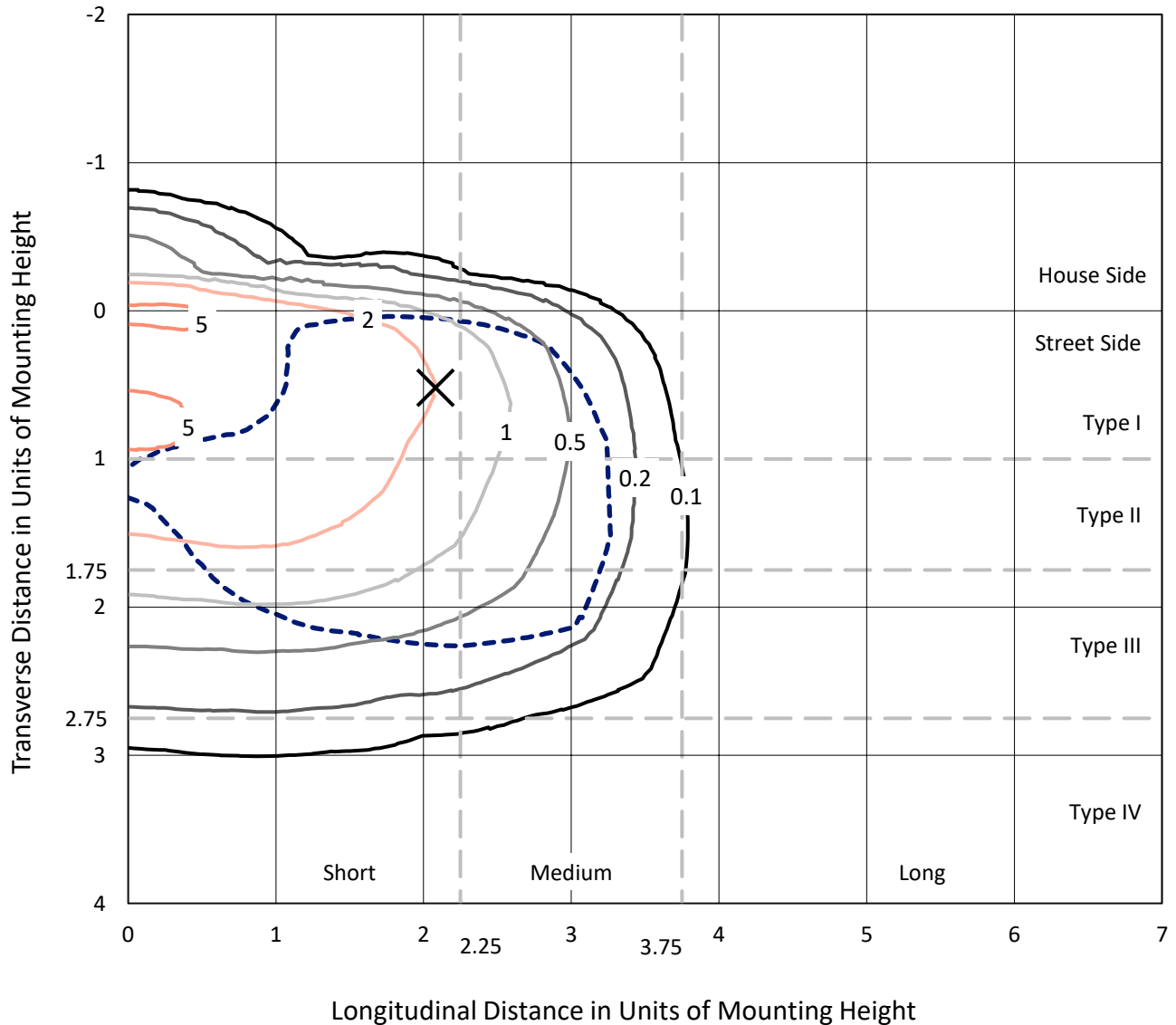
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

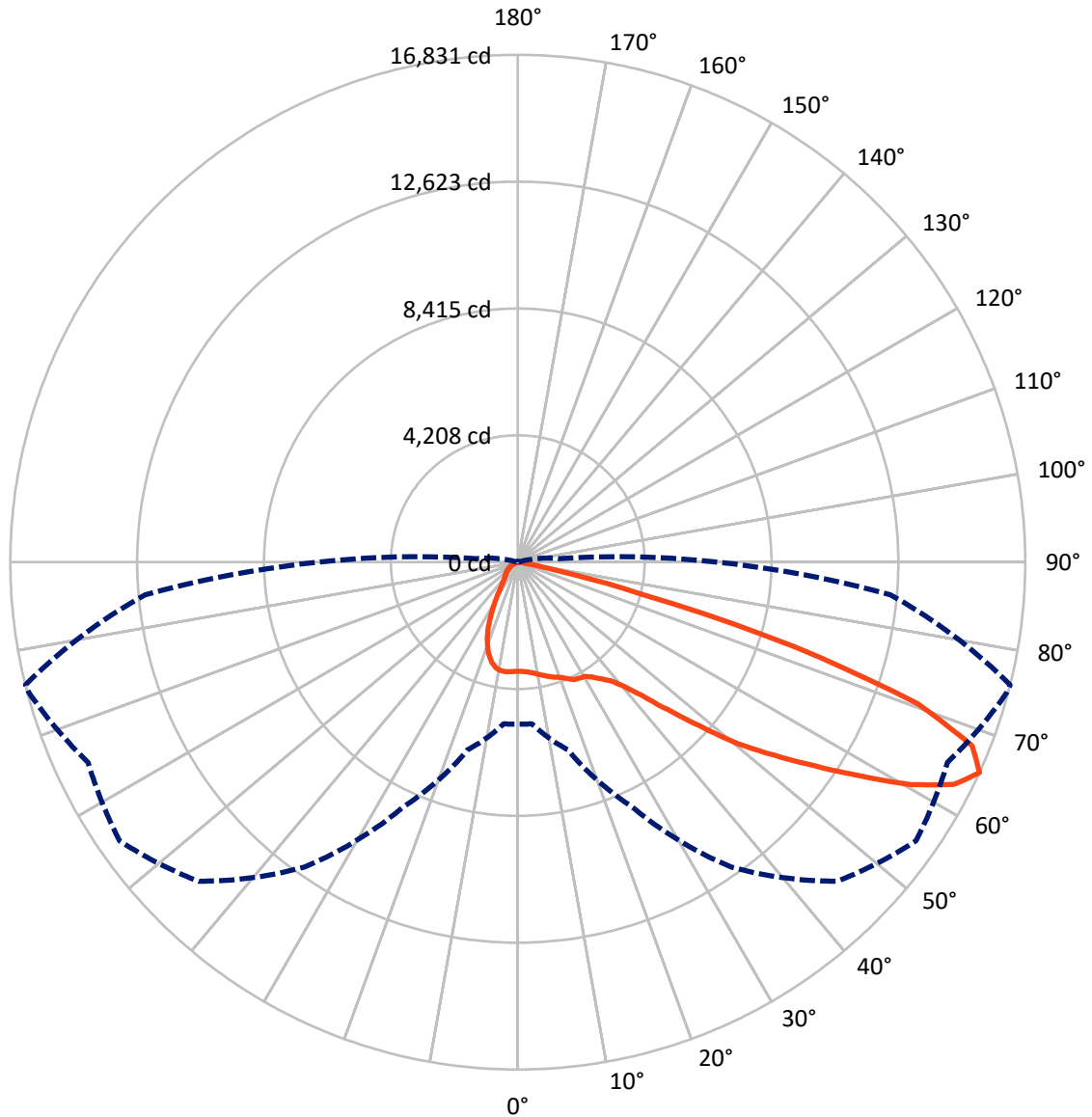
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1428.4 | 0.0 | 1428.4 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 18349.6 | 0.0 | 18349.6 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 19778.0 | 0.0 | 19778.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 298.0 | 1.5 |
| 10°-20° | 663.6 | 3.4 |
| 20°-30° | 1069.3 | 5.4 |
| 30°-40° | 1859.3 | 9.4 |
| 40°-50° | 3072.4 | 15.5 |
| 50°-60° | 4746.3 | 24.0 |
| 60°-70° | 5795.9 | 29.3 |
| 70°-80° | 2199.7 | 11.1 |
| 80°-90° | 73.4 | 0.4 |
| 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° | 19778.0 | 100.0 |
| 0°-180° | 19778.0 | 100.0 |

Coefficient of Utilization



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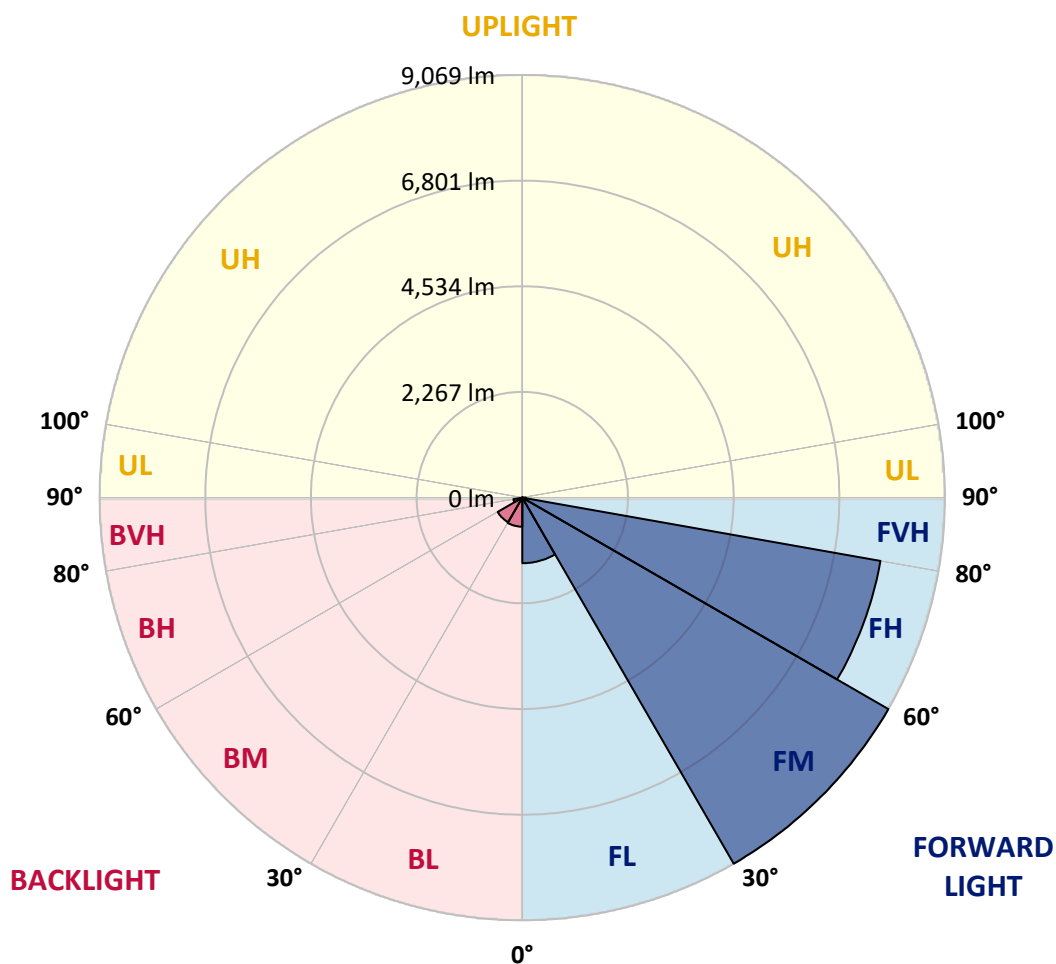
CATALOG NUMBER: GLAN-SA6A-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1407.0 | 7.1 | | | |
| FM | (30°-60°) | 9068.5 | 45.9 | | | |
| FH | (60°-80°) | 7801.8 | 39.4 | | | G4/12000 |
| FVH | (80°-90°) | 72.4 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 624.0 | 3.2 | B2/1000 | | |
| BM | (30°-60°) | 609.5 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 193.8 | 1.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.0 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 |
| 2.5° | 3457.4 | 3458.8 | 3467.2 | 3488.2 | 3520.3 | 3546.8 | 3569.2 | 3605.5 | 3630.6 | 3633.4 | 3641.8 |
| 5° | 3218.7 | 3201.9 | 3218.7 | 3273.1 | 3322.0 | 3396.0 | 3486.8 | 3577.5 | 3658.5 | 3664.1 | 3703.2 |
| 7.5° | 2950.6 | 2964.5 | 2991.1 | 3046.9 | 3139.1 | 3252.2 | 3383.4 | 3545.4 | 3699.0 | 3713.0 | 3789.8 |
| 10° | 2678.3 | 2709.0 | 2752.3 | 2837.4 | 2965.9 | 3112.5 | 3291.3 | 3523.1 | 3763.3 | 3782.8 | 3915.5 |
| 12.5° | 2426.9 | 2440.9 | 2493.9 | 2608.4 | 2767.6 | 2974.3 | 3221.5 | 3510.5 | 3834.5 | 3858.2 | 4049.5 |
| 15° | 2234.2 | 2252.4 | 2298.4 | 2401.8 | 2579.1 | 2844.4 | 3164.2 | 3506.3 | 3904.3 | 3937.8 | 4183.6 |
| 17.5° | 2197.9 | 2209.1 | 2228.6 | 2298.4 | 2453.4 | 2741.1 | 3112.5 | 3504.9 | 3971.3 | 4011.8 | 4307.8 |
| 20° | 2347.3 | 2337.5 | 2318.0 | 2311.0 | 2396.2 | 2661.5 | 3074.8 | 3516.1 | 4035.5 | 4081.6 | 4439.1 |
| 22.5° | 2721.5 | 2734.1 | 2619.6 | 2484.2 | 2456.2 | 2648.9 | 3069.2 | 3569.2 | 4137.5 | 4191.9 | 4585.7 |
| 25° | 3516.1 | 3419.7 | 3241.0 | 2917.0 | 2672.7 | 2725.7 | 3132.1 | 3694.8 | 4256.2 | 4316.2 | 4718.4 |
| 27.5° | 4394.4 | 4365.1 | 4087.2 | 3553.8 | 3098.6 | 2887.7 | 3243.8 | 3791.2 | 4295.3 | 4356.7 | 4793.8 |
| 30° | 5257.4 | 5292.3 | 4973.9 | 4384.6 | 3717.2 | 3187.9 | 3348.5 | 3827.5 | 4330.2 | 4394.4 | 4890.1 |
| 32.5° | 6057.5 | 6099.4 | 5820.1 | 5236.4 | 4446.1 | 3707.4 | 3528.7 | 3968.5 | 4476.8 | 4542.4 | 5050.7 |
| 35° | 6687.3 | 6692.9 | 6482.0 | 6017.0 | 5242.0 | 4338.6 | 3918.2 | 4215.7 | 4675.1 | 4751.9 | 5221.1 |
| 37.5° | 7265.4 | 7257.0 | 7009.8 | 6609.1 | 5905.3 | 4965.5 | 4408.4 | 4500.5 | 4901.3 | 4980.9 | 5466.8 |
| 40° | 7694.1 | 7699.7 | 7620.1 | 7243.0 | 6523.9 | 5545.0 | 4796.6 | 4767.3 | 5281.1 | 5405.4 | 5824.3 |
| 42.5° | 7980.3 | 8032.0 | 8071.1 | 7879.8 | 7301.7 | 6258.6 | 5392.8 | 5338.4 | 5940.2 | 6043.5 | 6329.8 |
| 45° | 8212.1 | 8304.3 | 8499.8 | 8490.0 | 8048.7 | 7134.1 | 6211.1 | 6099.4 | 6874.4 | 6984.7 | 6973.5 |
| 47.5° | 8381.1 | 8474.6 | 8798.6 | 8994.1 | 8751.1 | 7983.1 | 7240.2 | 7143.9 | 7990.1 | 8110.2 | 7684.3 |
| 50° | 8467.7 | 8579.4 | 8992.7 | 9371.1 | 9299.9 | 8801.4 | 8413.2 | 8418.8 | 9337.6 | 9453.5 | 8508.2 |
| 52.5° | 8265.2 | 8410.4 | 9096.0 | 9777.5 | 9915.7 | 9584.8 | 9512.2 | 9696.5 | 10537.1 | 10636.2 | 9252.4 |
| 55° | 7618.7 | 7801.6 | 8955.0 | 10123.8 | 10629.3 | 10509.2 | 10760.5 | 11041.2 | 11848.3 | 11912.5 | 10016.3 |
| 57.5° | 7209.5 | 7403.6 | 8538.9 | 10418.4 | 11486.6 | 11671.0 | 12068.9 | 12274.2 | 13201.4 | 13364.8 | 10893.2 |
| 60° | 6864.6 | 7016.8 | 8196.8 | 10481.2 | 12358.0 | 13092.5 | 13479.3 | 13691.5 | 14871.5 | 14977.6 | 11858.1 |
| 62.5° | 6290.7 | 6465.3 | 7618.7 | 10042.8 | 12796.5 | 14230.5 | 15032.1 | 14937.1 | 16163.1 | 16237.1 | 12450.1 |
| 65° | 5367.7 | 5383.1 | 6445.7 | 8941.0 | 12344.0 | 14969.2 | 16122.6 | 15724.7 | 16780.3 | 16830.6 | 12404.1 |
| 67.5° | 4006.2 | 4154.2 | 4958.6 | 7028.0 | 10426.8 | 14338.1 | 16475.9 | 15745.6 | 16390.7 | 16251.1 | 11419.6 |
| 70° | 2580.5 | 2693.6 | 3361.1 | 4873.4 | 7518.1 | 11965.6 | 15304.4 | 14666.2 | 14385.5 | 14075.5 | 9347.4 |
| 72.5° | 1191.1 | 1336.3 | 1996.8 | 2784.4 | 4458.6 | 8523.5 | 12423.6 | 11915.3 | 10354.2 | 9589.0 | 5941.6 |
| 75° | 519.5 | 555.8 | 985.8 | 1469.0 | 2090.4 | 4507.5 | 8191.2 | 7396.6 | 4676.5 | 4271.5 | 2378.0 |
| 77.5° | 317.0 | 340.7 | 516.7 | 787.6 | 821.1 | 1717.6 | 4412.6 | 3227.0 | 1445.3 | 1274.9 | 645.1 |
| 80° | 215.0 | 241.6 | 375.6 | 411.9 | 280.7 | 479.0 | 1656.1 | 861.6 | 291.8 | 279.3 | 138.2 |
| 82.5° | 104.7 | 132.7 | 277.9 | 230.4 | 121.5 | 153.6 | 481.8 | 184.3 | 85.2 | 79.6 | 48.9 |
| 85° | 15.4 | 26.5 | 156.4 | 150.8 | 54.5 | 36.3 | 85.2 | 46.1 | 29.3 | 27.9 | 22.3 |
| 87.5° | 0.0 | 0.0 | 53.1 | 23.7 | 5.6 | 5.6 | 9.8 | 9.8 | 11.2 | 9.8 | 11.2 |
| 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° | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 | 3618.0 |
| 2.5° | 3646.0 | 3652.9 | 3626.4 | 3588.7 | 3548.2 | 3507.7 | 3450.5 | 3398.8 | 3368.1 | 3386.2 | 3341.5 |
| 5° | 3711.6 | 3706.0 | 3636.2 | 3521.7 | 3369.5 | 3186.5 | 3005.0 | 2850.0 | 2799.7 | 2724.3 | 2716.0 |
| 7.5° | 3802.3 | 3787.0 | 3639.0 | 3376.5 | 3032.9 | 2689.4 | 2354.3 | 2132.3 | 2005.2 | 1897.7 | 1900.5 |
| 10° | 3929.4 | 3884.7 | 3606.9 | 3120.9 | 2555.4 | 2037.3 | 1610.0 | 1316.8 | 1189.7 | 1149.2 | 1117.1 |
| 12.5° | 4060.7 | 3974.1 | 3517.5 | 2776.0 | 1989.8 | 1392.2 | 978.9 | 800.1 | 721.9 | 696.8 | 694.0 |
| 15° | 4178.0 | 4041.1 | 3361.1 | 2361.3 | 1446.7 | 889.5 | 667.5 | 608.8 | 599.0 | 600.4 | 599.0 |
| 17.5° | 4293.9 | 4094.2 | 3144.7 | 1921.4 | 983.1 | 638.1 | 573.9 | 559.9 | 564.1 | 569.7 | 568.3 |
| 20° | 4390.2 | 4105.4 | 2868.2 | 1466.2 | 695.4 | 559.9 | 539.0 | 536.2 | 540.4 | 544.6 | 544.6 |
| 22.5° | 4495.0 | 4113.7 | 2540.0 | 1015.2 | 568.3 | 520.9 | 509.7 | 509.7 | 515.3 | 520.9 | 522.2 |
| 25° | 4573.2 | 4067.7 | 2147.6 | 728.9 | 501.3 | 483.1 | 477.6 | 479.0 | 484.5 | 487.3 | 485.9 |
| 27.5° | 4585.7 | 3937.8 | 1731.5 | 558.6 | 455.2 | 437.1 | 431.5 | 437.1 | 430.1 | 434.3 | 431.5 |
| 30° | 4596.9 | 3773.0 | 1309.8 | 470.6 | 413.3 | 385.4 | 377.0 | 368.6 | 363.1 | 356.1 | 354.7 |
| 32.5° | 4631.8 | 3578.9 | 956.5 | 423.1 | 374.2 | 343.5 | 324.0 | 300.2 | 282.1 | 276.5 | 275.1 |
| 35° | 4647.2 | 3345.7 | 702.4 | 385.4 | 339.3 | 305.8 | 270.9 | 237.4 | 210.9 | 201.1 | 208.1 |
| 37.5° | 4705.8 | 3119.5 | 544.6 | 357.5 | 308.6 | 266.7 | 222.0 | 180.1 | 155.0 | 149.4 | 152.2 |
| 40° | 4825.9 | 2873.8 | 456.6 | 333.7 | 282.1 | 230.4 | 175.9 | 135.4 | 118.7 | 113.1 | 111.7 |
| 42.5° | 5018.6 | 2629.4 | 406.3 | 311.4 | 255.5 | 194.1 | 138.2 | 106.1 | 92.2 | 88.0 | 88.0 |
| 45° | 5253.2 | 2394.8 | 371.4 | 287.7 | 227.6 | 156.4 | 108.9 | 85.2 | 76.8 | 74.0 | 74.0 |
| 47.5° | 5561.8 | 2189.5 | 342.1 | 263.9 | 196.9 | 124.3 | 88.0 | 74.0 | 68.4 | 69.8 | 71.2 |
| 50° | 5874.6 | 2037.3 | 310.0 | 237.4 | 162.0 | 101.9 | 75.4 | 65.6 | 64.2 | 65.6 | 65.6 |
| 52.5° | 6110.6 | 1948.0 | 266.7 | 201.1 | 127.1 | 85.2 | 67.0 | 61.4 | 60.0 | 57.3 | 57.3 |
| 55° | 6428.9 | 1928.4 | 212.3 | 163.4 | 100.5 | 71.2 | 60.0 | 55.9 | 51.7 | 48.9 | 47.5 |
| 57.5° | 6838.1 | 1950.7 | 163.4 | 127.1 | 78.2 | 58.6 | 53.1 | 46.1 | 40.5 | 34.9 | 34.9 |
| 60° | 7092.2 | 1900.5 | 127.1 | 97.7 | 57.3 | 47.5 | 40.5 | 33.5 | 26.5 | 22.3 | 20.9 |
| 62.5° | 7011.2 | 1688.2 | 100.5 | 72.6 | 40.5 | 34.9 | 26.5 | 22.3 | 15.4 | 11.2 | 9.8 |
| 65° | 6593.7 | 1362.9 | 81.0 | 50.3 | 29.3 | 20.9 | 14.0 | 14.0 | 7.0 | 1.4 | 0.0 |
| 67.5° | 5771.2 | 1009.6 | 64.2 | 33.5 | 16.8 | 9.8 | 7.0 | 4.2 | 0.0 | 0.0 | 0.0 |
| 70° | 4697.4 | 728.9 | 50.3 | 20.9 | 9.8 | 7.0 | 2.8 | 1.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2982.7 | 417.5 | 39.1 | 12.6 | 7.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1153.4 | 163.4 | 26.5 | 8.4 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 326.8 | 76.8 | 15.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 85.2 | 33.5 | 8.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 40.5 | 14.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 23.7 | 5.6 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.2 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)