

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: P323839

Luminaire Tested: **GAN-SA5B-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23181 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

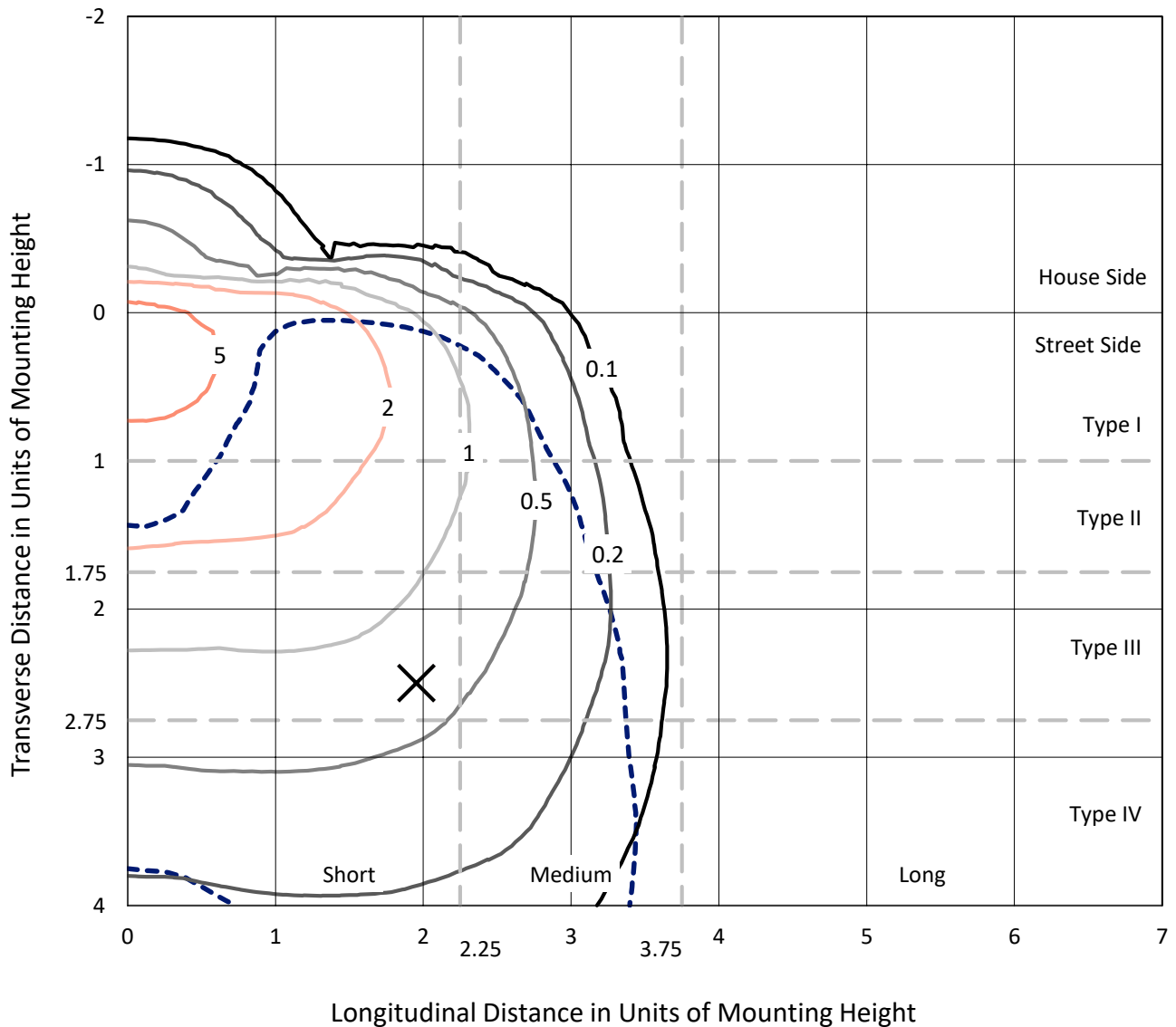
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

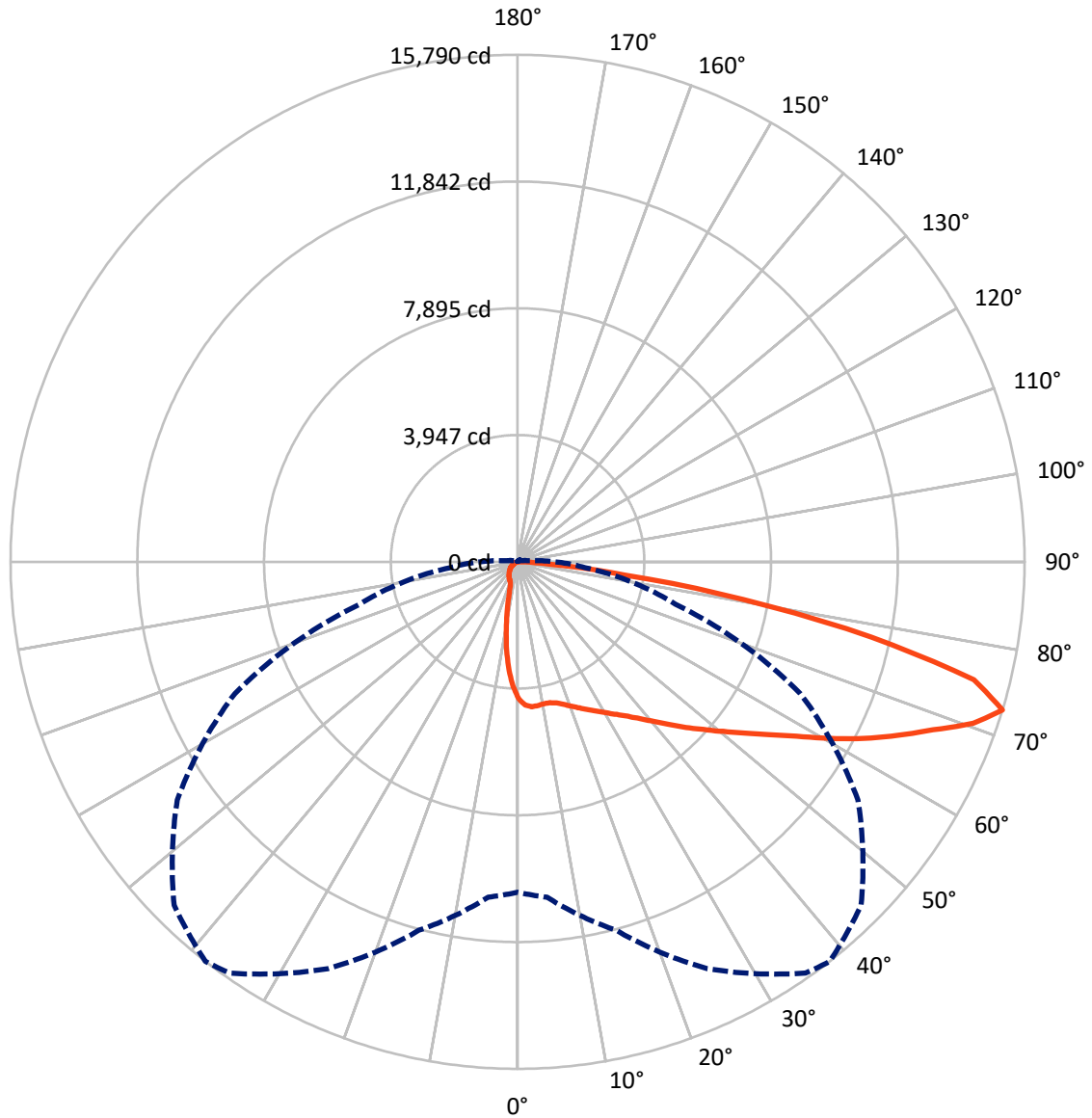
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1950.8 | 0.0 | 1950.8 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 21230.2 | 0.0 | 21230.2 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 23181.0 | 0.0 | 23181.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 363.3 | 1.6 |
| 10°-20° | 888.3 | 3.8 |
| 20°-30° | 1412.8 | 6.1 |
| 30°-40° | 2124.0 | 9.2 |
| 40°-50° | 3240.4 | 14.0 |
| 50°-60° | 4579.7 | 19.8 |
| 60°-70° | 5744.5 | 24.8 |
| 70°-80° | 4295.3 | 18.5 |
| 80°-90° | 532.6 | 2.3 |
| 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° | 23181.0 | 100.0 |
| 0°-180° | 23181.0 | 100.0 |

Coefficient of Utilization



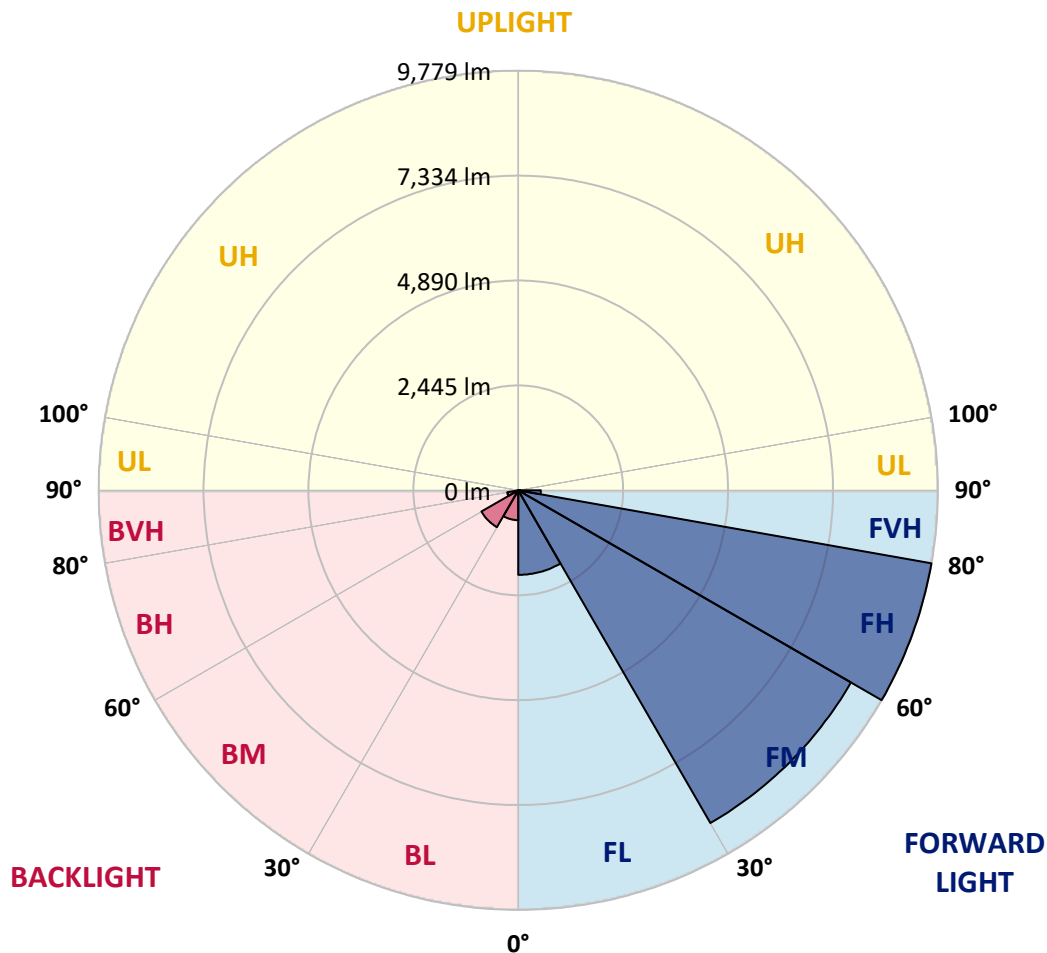
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1969.8 | 8.5 | | | |
| FM (30°-60°) | 8953.5 | 38.6 | | | |
| FH (60°-80°) | 9779.2 | 42.2 | | | G4/12000 |
| FVH (80°-90°) | 527.6 | 2.3 | | | G4/750 |
| BL (0°-30°) | 694.6 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 990.6 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 260.6 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.0 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 |
| 2.5° | 4524.8 | 4525.7 | 4515.1 | 4497.8 | 4475.7 | 4464.1 | 4444.9 | 4414.1 | 4381.3 | 4322.6 | 4259.1 |
| 5° | 4617.2 | 4617.2 | 4603.7 | 4580.6 | 4545.0 | 4534.4 | 4497.8 | 4448.7 | 4381.3 | 4286.0 | 4179.2 |
| 7.5° | 4607.6 | 4609.5 | 4591.2 | 4567.1 | 4531.5 | 4521.9 | 4477.6 | 4422.7 | 4339.0 | 4223.4 | 4086.7 |
| 10° | 4557.5 | 4562.3 | 4547.9 | 4536.3 | 4503.6 | 4493.0 | 4451.6 | 4396.7 | 4313.0 | 4189.7 | 4032.8 |
| 12.5° | 4506.5 | 4511.3 | 4516.1 | 4526.7 | 4506.5 | 4502.6 | 4469.9 | 4423.7 | 4343.8 | 4215.7 | 4038.6 |
| 15° | 4473.7 | 4483.4 | 4518.0 | 4559.4 | 4564.2 | 4560.4 | 4539.2 | 4495.9 | 4415.0 | 4282.2 | 4080.0 |
| 17.5° | 4473.7 | 4489.1 | 4561.4 | 4640.3 | 4668.2 | 4671.1 | 4652.8 | 4592.2 | 4495.9 | 4353.4 | 4118.5 |
| 20° | 4511.3 | 4532.5 | 4645.1 | 4756.8 | 4803.0 | 4803.0 | 4767.4 | 4682.7 | 4570.0 | 4417.9 | 4144.5 |
| 22.5° | 4607.6 | 4635.5 | 4777.0 | 4906.0 | 4955.1 | 4944.5 | 4896.4 | 4773.1 | 4647.0 | 4491.1 | 4177.2 |
| 25° | 4797.2 | 4818.4 | 4965.7 | 5095.7 | 5125.5 | 5101.4 | 5040.8 | 4882.9 | 4745.2 | 4590.2 | 4236.9 |
| 27.5° | 5041.7 | 5044.6 | 5196.7 | 5306.5 | 5288.2 | 5271.8 | 5195.8 | 5020.6 | 4886.7 | 4731.8 | 4339.9 |
| 30° | 5310.3 | 5310.3 | 5444.2 | 5527.9 | 5472.1 | 5458.6 | 5382.5 | 5187.1 | 5067.7 | 4924.3 | 4486.3 |
| 32.5° | 5570.3 | 5581.8 | 5690.6 | 5743.6 | 5681.0 | 5667.5 | 5593.4 | 5398.0 | 5308.4 | 5217.9 | 4714.4 |
| 35° | 5821.5 | 5830.2 | 5933.2 | 5962.1 | 5902.4 | 5906.3 | 5853.3 | 5687.7 | 5654.0 | 5642.5 | 5058.1 |
| 37.5° | 6065.1 | 6067.0 | 6172.0 | 6190.3 | 6160.4 | 6193.2 | 6198.0 | 6051.6 | 6114.2 | 6207.6 | 5542.4 |
| 40° | 6287.5 | 6289.4 | 6393.4 | 6440.6 | 6491.6 | 6534.0 | 6571.5 | 6493.5 | 6700.5 | 6917.1 | 6119.0 |
| 42.5° | 6465.6 | 6485.8 | 6617.7 | 6707.2 | 6842.0 | 6922.9 | 7024.9 | 7021.1 | 7398.5 | 7723.9 | 6816.0 |
| 45° | 6622.5 | 6657.2 | 6841.1 | 6998.0 | 7229.0 | 7358.0 | 7517.9 | 7643.0 | 8184.1 | 8622.1 | 7521.7 |
| 47.5° | 6829.5 | 6862.2 | 7072.1 | 7329.2 | 7637.2 | 7806.7 | 8071.4 | 8341.9 | 9047.6 | 9503.9 | 8211.0 |
| 50° | 7121.2 | 7106.8 | 7313.8 | 7682.5 | 8078.2 | 8300.5 | 8677.9 | 9083.2 | 9904.4 | 10272.2 | 8616.3 |
| 52.5° | 7432.2 | 7426.4 | 7579.5 | 8066.6 | 8598.0 | 8858.0 | 9356.6 | 9849.6 | 10723.7 | 10801.7 | 8802.1 |
| 55° | 7817.3 | 7775.9 | 7904.9 | 8504.6 | 9215.1 | 9494.3 | 10081.6 | 10608.2 | 11376.4 | 11100.1 | 8895.5 |
| 57.5° | 8220.6 | 8152.3 | 8275.5 | 8992.7 | 9911.2 | 10241.4 | 10884.5 | 11347.5 | 11810.6 | 11304.2 | 8894.5 |
| 60° | 8637.5 | 8556.6 | 8703.0 | 9603.1 | 10775.7 | 11157.9 | 11754.8 | 11847.2 | 12215.9 | 11407.2 | 8829.1 |
| 62.5° | 8986.0 | 8937.9 | 9155.4 | 10255.8 | 11741.3 | 12116.8 | 12412.3 | 12301.6 | 12557.7 | 11487.1 | 8676.0 |
| 65° | 9354.7 | 9357.6 | 9709.0 | 11017.3 | 12767.5 | 13020.7 | 13045.8 | 12890.8 | 12843.6 | 11470.8 | 8158.1 |
| 67.5° | 9853.4 | 9899.6 | 10485.9 | 12051.3 | 13765.9 | 13961.3 | 13959.4 | 13529.1 | 13052.5 | 10820.0 | 7009.5 |
| 70° | 10381.0 | 10489.8 | 11381.2 | 13234.5 | 14855.7 | 15054.0 | 14952.0 | 13935.3 | 12290.0 | 8749.2 | 4960.9 |
| 72.5° | 10292.4 | 10481.1 | 11879.0 | 13980.6 | 15638.4 | 15789.5 | 15126.2 | 12937.0 | 9713.8 | 5085.1 | 2112.2 |
| 75° | 7940.5 | 8159.0 | 10892.2 | 13241.2 | 14817.2 | 14681.4 | 12996.7 | 10067.1 | 5308.4 | 1419.0 | 475.6 |
| 77.5° | 4194.6 | 4311.0 | 7195.3 | 10087.3 | 11553.6 | 11269.6 | 9155.4 | 5584.7 | 1618.3 | 351.4 | 213.7 |
| 80° | 2196.9 | 2223.9 | 3135.6 | 5723.4 | 7130.8 | 7132.8 | 5425.9 | 2453.0 | 667.2 | 180.0 | 143.4 |
| 82.5° | 1176.4 | 1199.5 | 1656.8 | 2644.6 | 3736.3 | 3386.8 | 2077.5 | 1349.7 | 388.0 | 102.0 | 137.7 |
| 85° | 283.0 | 287.9 | 939.6 | 1208.2 | 1469.1 | 1049.4 | 617.1 | 1133.1 | 104.9 | 59.7 | 111.7 |
| 87.5° | 108.8 | 110.7 | 348.5 | 522.8 | 374.5 | 242.6 | 288.8 | 422.6 | 13.5 | 23.1 | 17.3 |
| 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° | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 | 4262.9 |
| 2.5° | 4220.5 | 4195.5 | 4133.9 | 4055.9 | 3986.6 | 3936.5 | 3861.5 | 3812.4 | 3779.6 | 3778.7 | 3766.1 |
| 5° | 4113.7 | 4062.7 | 3929.8 | 3771.9 | 3628.5 | 3499.5 | 3347.4 | 3227.0 | 3137.5 | 3123.1 | 3092.2 |
| 7.5° | 3999.1 | 3915.4 | 3711.3 | 3464.8 | 3224.1 | 2979.6 | 2695.6 | 2519.4 | 2368.3 | 2296.1 | 2288.4 |
| 10° | 3928.8 | 3811.4 | 3521.6 | 3165.4 | 2788.0 | 2390.4 | 2018.8 | 1761.8 | 1576.0 | 1523.0 | 1483.5 |
| 12.5° | 3914.4 | 3759.4 | 3375.3 | 2884.3 | 2345.2 | 1819.5 | 1408.5 | 1135.0 | 986.8 | 939.6 | 927.1 |
| 15° | 3928.8 | 3735.3 | 3252.1 | 2606.1 | 1896.6 | 1291.0 | 945.4 | 786.5 | 730.7 | 717.2 | 716.3 |
| 17.5° | 3937.5 | 3706.5 | 3112.5 | 2297.0 | 1461.4 | 922.3 | 724.0 | 677.8 | 669.1 | 668.1 | 670.1 |
| 20° | 3936.5 | 3662.2 | 2945.9 | 1952.4 | 1086.9 | 724.9 | 654.6 | 645.0 | 643.1 | 644.1 | 643.1 |
| 22.5° | 3929.8 | 3610.2 | 2763.0 | 1597.1 | 821.2 | 647.9 | 624.8 | 619.0 | 618.1 | 618.1 | 618.1 |
| 25° | 3942.3 | 3568.8 | 2561.8 | 1257.3 | 676.8 | 612.3 | 597.8 | 593.0 | 592.1 | 592.1 | 590.1 |
| 27.5° | 3987.6 | 3545.7 | 2341.3 | 967.5 | 611.3 | 580.5 | 569.0 | 568.0 | 565.1 | 564.2 | 566.1 |
| 30° | 4060.7 | 3545.7 | 2099.7 | 752.8 | 571.9 | 547.8 | 539.1 | 537.2 | 536.2 | 535.3 | 536.2 |
| 32.5° | 4189.7 | 3572.6 | 1835.9 | 625.8 | 534.3 | 511.2 | 505.4 | 508.3 | 505.4 | 505.4 | 505.4 |
| 35° | 4422.7 | 3653.5 | 1559.6 | 545.9 | 494.8 | 475.6 | 469.8 | 473.7 | 471.7 | 471.7 | 470.8 |
| 37.5° | 4762.6 | 3803.7 | 1281.4 | 497.7 | 460.2 | 440.0 | 432.3 | 438.0 | 436.1 | 436.1 | 435.1 |
| 40° | 5176.5 | 4022.2 | 1016.6 | 461.1 | 426.5 | 405.3 | 398.6 | 401.5 | 396.6 | 396.6 | 398.6 |
| 42.5° | 5687.7 | 4299.5 | 785.6 | 425.5 | 392.8 | 372.6 | 368.7 | 365.8 | 357.2 | 352.4 | 353.3 |
| 45° | 6255.7 | 4588.3 | 612.3 | 390.9 | 361.0 | 344.7 | 338.9 | 331.2 | 316.7 | 307.1 | 308.1 |
| 47.5° | 6763.1 | 4810.7 | 497.7 | 357.2 | 332.1 | 319.6 | 311.0 | 296.5 | 275.3 | 263.8 | 264.7 |
| 50° | 7029.8 | 4844.4 | 423.6 | 323.5 | 305.2 | 292.7 | 280.2 | 258.0 | 233.0 | 220.5 | 219.5 |
| 52.5° | 7098.1 | 4686.5 | 368.7 | 292.7 | 278.2 | 263.8 | 247.4 | 217.6 | 189.7 | 176.2 | 174.3 |
| 55° | 7123.1 | 4445.8 | 319.6 | 263.8 | 249.3 | 233.0 | 211.8 | 178.1 | 152.1 | 138.6 | 137.7 |
| 57.5° | 7040.3 | 4086.7 | 281.1 | 237.8 | 220.5 | 200.2 | 174.3 | 142.5 | 117.5 | 106.9 | 106.9 |
| 60° | 6856.5 | 3600.6 | 251.3 | 209.9 | 190.6 | 167.5 | 140.6 | 110.7 | 87.6 | 78.9 | 78.9 |
| 62.5° | 6489.7 | 2970.9 | 223.4 | 181.0 | 162.7 | 138.6 | 113.6 | 83.8 | 61.6 | 56.8 | 57.8 |
| 65° | 5797.5 | 2253.7 | 195.4 | 155.0 | 138.6 | 114.6 | 88.6 | 59.7 | 41.4 | 41.4 | 43.3 |
| 67.5° | 4727.9 | 1565.4 | 166.5 | 131.9 | 119.4 | 93.4 | 67.4 | 41.4 | 28.9 | 32.7 | 36.6 |
| 70° | 3129.8 | 878.0 | 142.5 | 108.8 | 102.0 | 74.1 | 50.1 | 27.9 | 23.1 | 30.8 | 37.5 |
| 72.5° | 1181.3 | 341.8 | 119.4 | 87.6 | 88.6 | 56.8 | 35.6 | 21.2 | 21.2 | 33.7 | 44.3 |
| 75° | 329.2 | 167.5 | 85.7 | 64.5 | 69.3 | 41.4 | 26.0 | 18.3 | 20.2 | 38.5 | 52.0 |
| 77.5° | 193.5 | 123.2 | 55.8 | 37.5 | 47.2 | 28.9 | 17.3 | 14.4 | 17.3 | 32.7 | 50.1 |
| 80° | 156.0 | 65.5 | 32.7 | 19.3 | 26.0 | 16.4 | 11.6 | 8.7 | 4.8 | 12.5 | 26.0 |
| 82.5° | 156.0 | 39.5 | 15.4 | 13.5 | 13.5 | 8.7 | 5.8 | 3.9 | 1.0 | 0.0 | 6.7 |
| 85° | 104.9 | 16.4 | 9.6 | 8.7 | 6.7 | 2.9 | 1.9 | 1.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.3 | 6.7 | 3.9 | 1.9 | 1.0 | 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)