

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: P650607

Luminaire Tested: **GLAN-SA8B-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P650607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36003.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

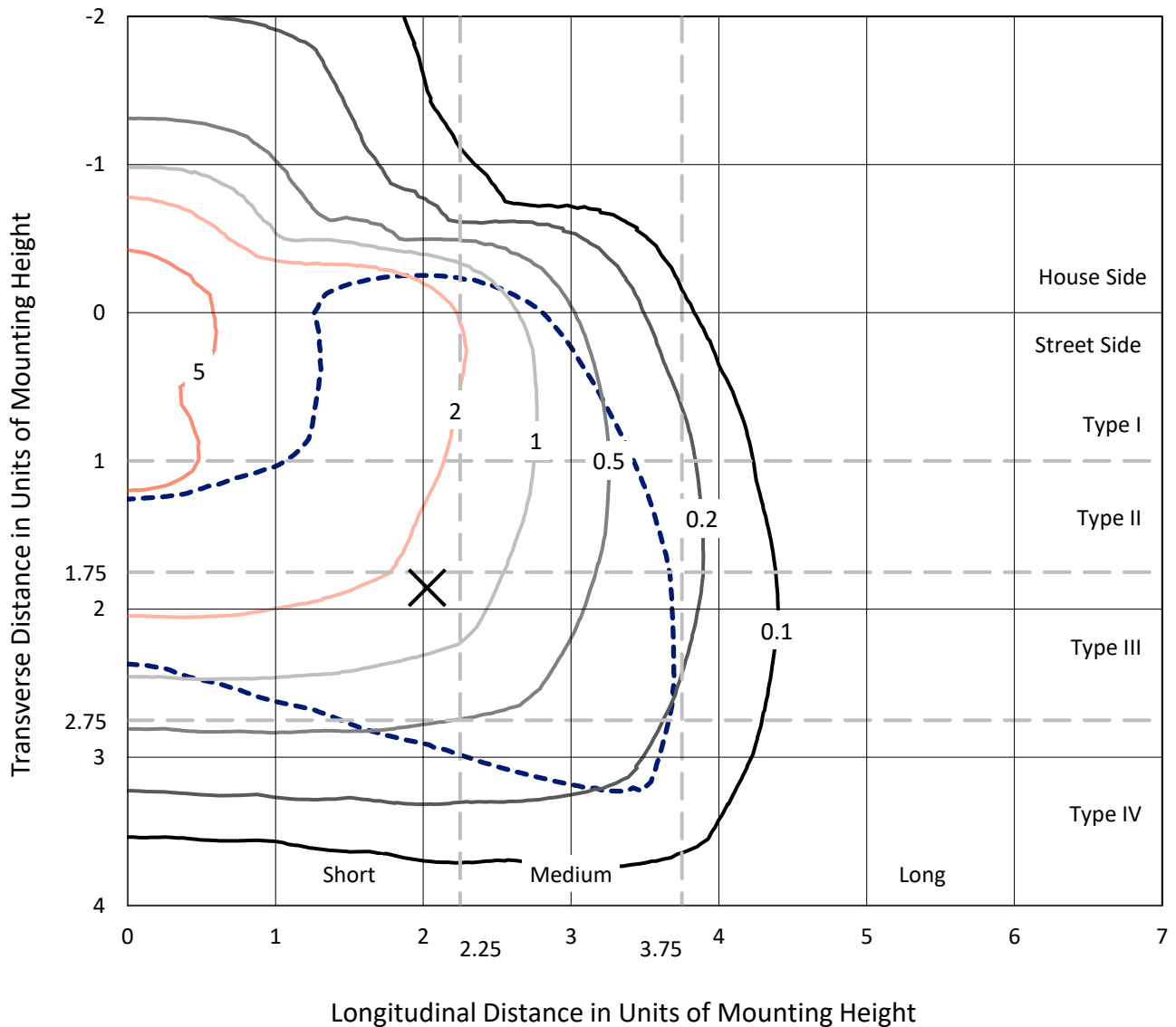
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

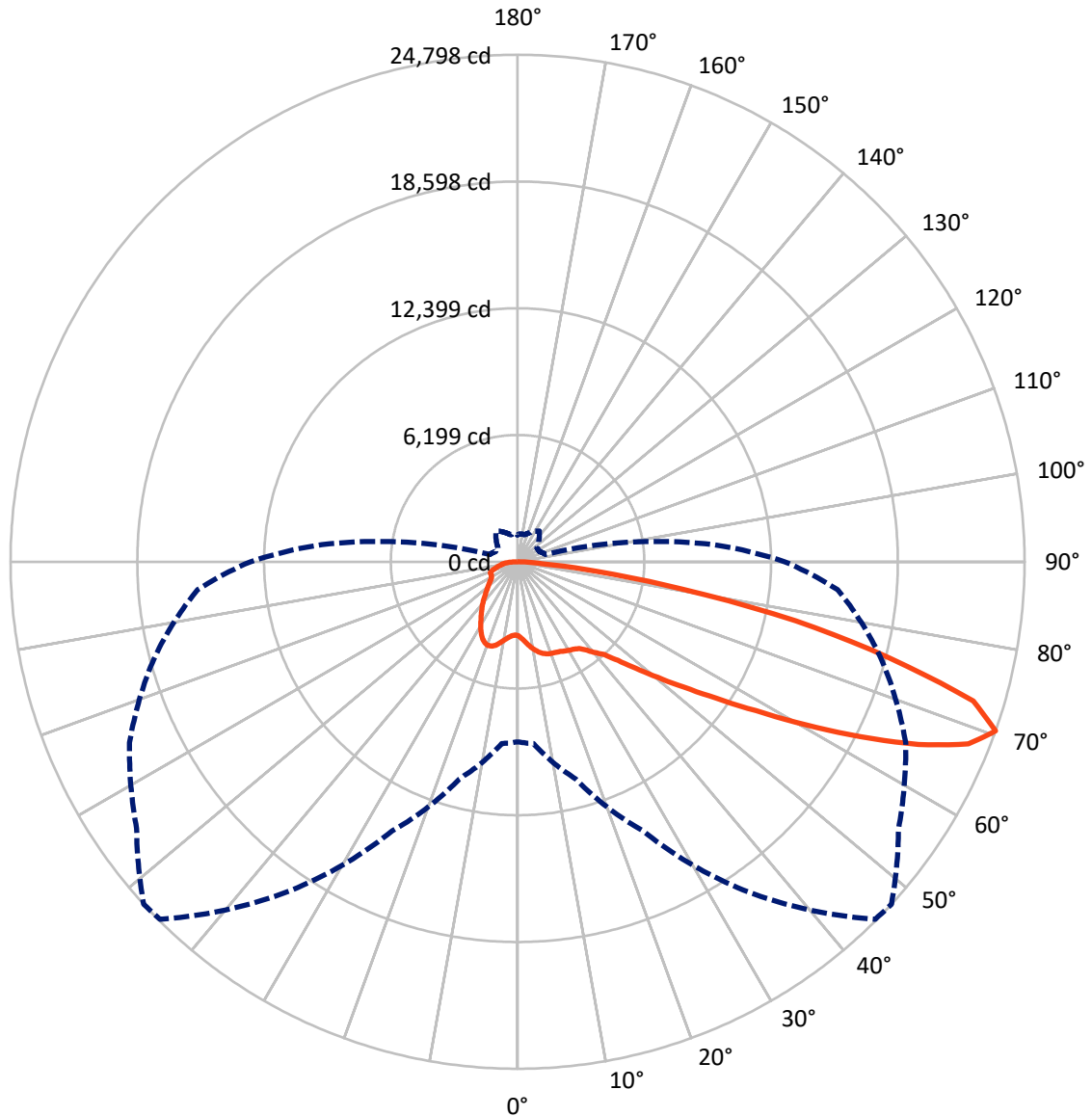
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8152.0 | 0.0 | 8152.0 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 27851.9 | 0.0 | 27851.9 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 36003.9 | 0.0 | 36003.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 372.6 | 1.0 |
| 10°-20° | 1245.5 | 3.5 |
| 20°-30° | 2071.3 | 5.8 |
| 30°-40° | 2935.7 | 8.2 |
| 40°-50° | 4333.7 | 12.0 |
| 50°-60° | 7506.2 | 20.8 |
| 60°-70° | 10602.8 | 29.4 |
| 70°-80° | 6095.1 | 16.9 |
| 80°-90° | 841.0 | 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° | 36003.9 | 100.0 |
| 0°-180° | 36003.9 | 100.0 |

Coefficient of Utilization

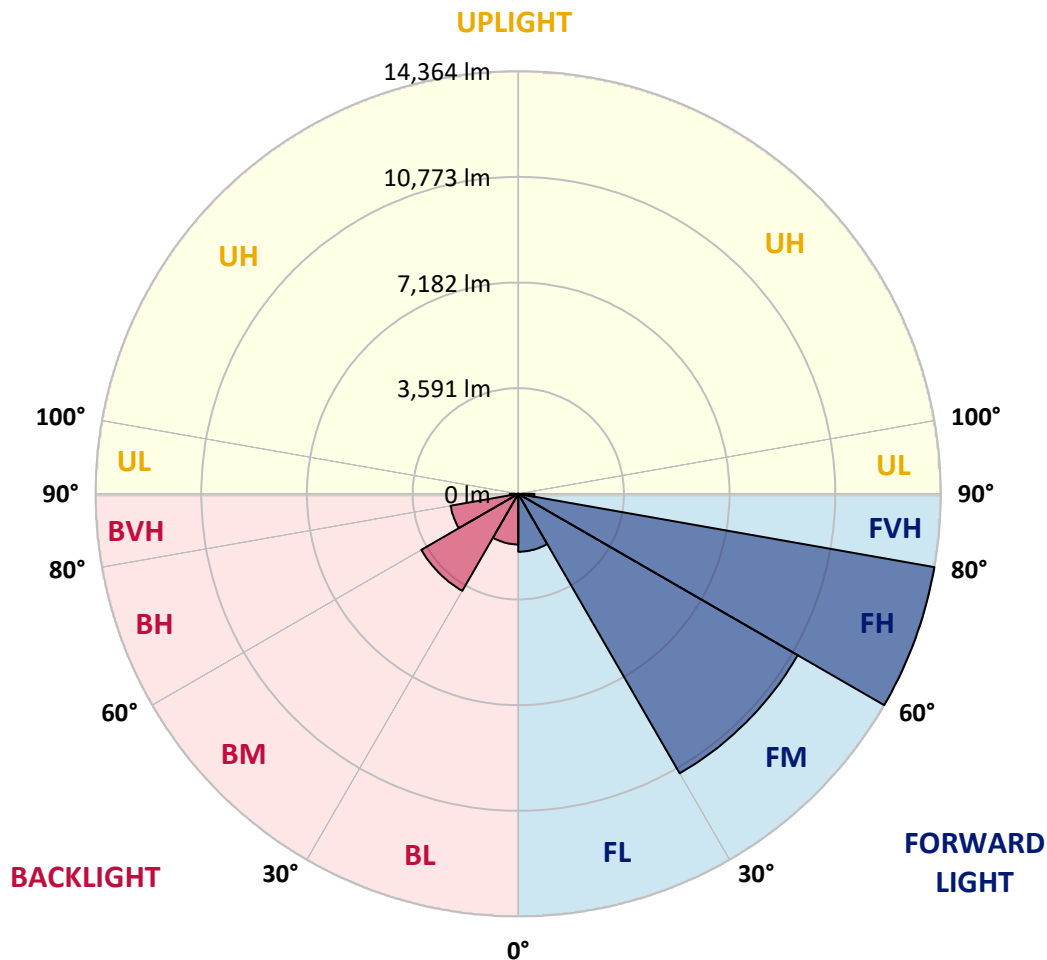


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1968.8 | 5.5 | | | |
| FM (30°-60°) | 10969.7 | 30.5 | | | |
| FH (60°-80°) | 14364.1 | 39.9 | | | G5 |
| FVH (80°-90°) | 549.3 | 1.5 | | | G4/750 |
| BL (0°-30°) | 1720.5 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 3806.0 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2333.8 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 291.6 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 |
| 2.5° | 3847.5 | 3834.0 | 3832.1 | 3803.2 | 3787.8 | 3758.9 | 3747.3 | 3720.3 | 3687.5 | 3654.8 | 3624.0 |
| 5° | 4150.0 | 4150.0 | 4136.5 | 4096.0 | 4032.4 | 3966.9 | 3938.0 | 3886.0 | 3793.6 | 3718.4 | 3654.8 |
| 7.5° | 4460.1 | 4464.0 | 4437.0 | 4377.3 | 4286.8 | 4180.8 | 4153.8 | 4076.8 | 3945.8 | 3835.9 | 3741.5 |
| 10° | 4728.0 | 4728.0 | 4691.3 | 4610.5 | 4496.8 | 4381.1 | 4354.2 | 4267.5 | 4121.1 | 3984.3 | 3861.0 |
| 12.5° | 4932.2 | 4932.2 | 4884.0 | 4778.0 | 4654.8 | 4550.7 | 4519.9 | 4437.0 | 4300.2 | 4148.0 | 3992.0 |
| 15° | 5065.1 | 5055.4 | 5001.6 | 4882.1 | 4762.6 | 4672.1 | 4650.9 | 4581.5 | 4456.3 | 4302.2 | 4126.9 |
| 17.5° | 5070.9 | 5067.0 | 5015.0 | 4914.8 | 4810.8 | 4749.1 | 4735.7 | 4689.4 | 4591.2 | 4444.7 | 4259.8 |
| 20° | 4959.1 | 4966.9 | 4932.2 | 4860.9 | 4810.8 | 4783.8 | 4778.0 | 4762.6 | 4693.3 | 4556.5 | 4371.5 |
| 22.5° | 4839.7 | 4853.2 | 4820.5 | 4781.9 | 4778.0 | 4805.0 | 4808.9 | 4812.7 | 4768.4 | 4635.4 | 4465.9 |
| 25° | 4810.8 | 4820.5 | 4787.7 | 4753.0 | 4774.2 | 4845.4 | 4860.9 | 4876.3 | 4841.6 | 4729.9 | 4577.7 |
| 27.5° | 4957.3 | 4949.5 | 4885.9 | 4810.8 | 4824.3 | 4920.6 | 4941.8 | 4959.1 | 4941.8 | 4845.4 | 4716.4 |
| 30° | 5371.5 | 5346.4 | 5219.2 | 4999.6 | 4930.2 | 4997.7 | 5018.9 | 5067.0 | 5067.0 | 4995.8 | 4866.7 |
| 32.5° | 6065.0 | 6016.9 | 5783.7 | 5352.2 | 5111.3 | 5070.9 | 5092.1 | 5171.1 | 5211.6 | 5155.7 | 5015.0 |
| 35° | 6907.0 | 6856.9 | 6523.6 | 5943.7 | 5442.7 | 5217.3 | 5211.6 | 5300.1 | 5408.0 | 5282.8 | 5099.8 |
| 37.5° | 7752.8 | 7700.7 | 7300.0 | 6648.8 | 5926.3 | 5525.6 | 5490.9 | 5521.7 | 5568.0 | 5338.7 | 5217.3 |
| 40° | 8598.5 | 8536.9 | 8186.3 | 7436.8 | 6517.8 | 5934.0 | 5843.5 | 5704.8 | 5685.5 | 5521.7 | 5444.7 |
| 42.5° | 9436.6 | 9380.7 | 9203.5 | 8321.1 | 7226.8 | 6332.8 | 6194.2 | 5955.2 | 6028.4 | 5930.2 | 5862.7 |
| 45° | 10282.4 | 10286.3 | 10097.5 | 9313.3 | 8082.2 | 7068.8 | 6881.9 | 6508.1 | 6681.6 | 6644.9 | 6683.5 |
| 47.5° | 11031.9 | 11022.3 | 10954.8 | 10276.6 | 9143.8 | 8016.7 | 7775.9 | 7342.4 | 7639.1 | 7773.9 | 8068.7 |
| 50° | 11758.2 | 11752.4 | 11756.3 | 11369.1 | 10376.9 | 9143.8 | 8877.9 | 8423.2 | 9091.8 | 9560.0 | 10087.9 |
| 52.5° | 12798.6 | 12831.3 | 12598.2 | 12496.1 | 11875.8 | 10475.1 | 10182.2 | 9712.2 | 10808.4 | 11546.3 | 12577.0 |
| 55° | 13842.8 | 13815.9 | 13632.8 | 13738.8 | 13444.0 | 12051.1 | 11744.8 | 11371.0 | 12719.6 | 13526.9 | 15075.9 |
| 57.5° | 14457.5 | 14467.1 | 14653.9 | 15172.2 | 15380.3 | 14016.2 | 13738.8 | 13449.8 | 14867.8 | 15440.1 | 17299.2 |
| 60° | 15010.3 | 15054.7 | 15592.2 | 16570.9 | 17135.5 | 16430.3 | 16183.7 | 15902.4 | 16838.7 | 17066.1 | 19229.7 |
| 62.5° | 15183.8 | 15320.6 | 16258.8 | 17723.0 | 18846.3 | 19154.5 | 18848.2 | 18227.8 | 18715.3 | 18626.6 | 20537.9 |
| 65° | 14318.7 | 14505.6 | 16187.6 | 18154.6 | 20374.1 | 21740.1 | 21545.5 | 20393.4 | 20314.4 | 19780.7 | 20751.8 |
| 67.5° | 12041.4 | 12228.3 | 14388.1 | 17249.1 | 21006.1 | 23978.8 | 23784.3 | 21973.3 | 21285.4 | 19888.6 | 19133.4 |
| 70° | 8810.5 | 8928.0 | 10993.3 | 14522.9 | 19736.4 | 24730.2 | 24797.7 | 22743.9 | 20938.6 | 18422.4 | 15709.7 |
| 72.5° | 5076.7 | 5336.8 | 6783.7 | 10216.9 | 16124.0 | 22830.6 | 23298.7 | 21140.9 | 18746.1 | 15368.7 | 10983.7 |
| 75° | 2182.8 | 2188.6 | 3136.5 | 5635.4 | 10920.1 | 18351.2 | 18803.9 | 17524.6 | 14721.4 | 10627.3 | 5864.7 |
| 77.5° | 1038.5 | 1057.8 | 1379.5 | 2516.2 | 6011.1 | 12679.1 | 13900.7 | 12380.6 | 9415.4 | 5105.6 | 2215.7 |
| 80° | 674.3 | 687.8 | 843.8 | 1248.5 | 2947.8 | 7352.1 | 8203.6 | 7142.1 | 4153.8 | 1824.5 | 955.6 |
| 82.5° | 408.4 | 412.3 | 564.5 | 763.0 | 1622.2 | 3329.2 | 3924.6 | 3100.0 | 1772.5 | 1092.4 | 562.6 |
| 85° | 248.5 | 250.5 | 343.0 | 472.0 | 984.5 | 1150.2 | 1181.0 | 1171.4 | 1040.4 | 714.8 | 300.5 |
| 87.5° | 119.5 | 123.3 | 177.3 | 223.5 | 387.3 | 356.4 | 337.2 | 391.1 | 491.3 | 385.3 | 129.1 |
| 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° | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 | 3614.3 |
| 2.5° | 3610.5 | 3604.7 | 3591.2 | 3585.4 | 3581.6 | 3583.6 | 3581.6 | 3581.6 | 3583.6 | 3583.6 | 3583.6 |
| 5° | 3627.9 | 3618.2 | 3597.0 | 3597.0 | 3608.6 | 3635.5 | 3660.6 | 3679.9 | 3701.1 | 3699.1 | 3699.1 |
| 7.5° | 3703.0 | 3685.7 | 3660.6 | 3668.3 | 3697.2 | 3739.6 | 3783.9 | 3826.3 | 3868.6 | 3872.6 | 3870.6 |
| 10° | 3812.8 | 3795.4 | 3768.5 | 3778.1 | 3824.3 | 3887.9 | 3943.8 | 4005.4 | 4051.7 | 4065.2 | 4061.3 |
| 12.5° | 3938.0 | 3903.3 | 3880.2 | 3907.2 | 3980.4 | 4065.2 | 4119.1 | 4165.4 | 4198.1 | 4217.4 | 4209.7 |
| 15° | 4065.2 | 4032.4 | 4005.4 | 4061.3 | 4150.0 | 4229.0 | 4255.9 | 4263.7 | 4269.4 | 4288.6 | 4284.8 |
| 17.5° | 4188.5 | 4144.2 | 4134.6 | 4207.8 | 4292.6 | 4327.2 | 4311.8 | 4279.0 | 4254.0 | 4269.4 | 4267.5 |
| 20° | 4298.3 | 4263.7 | 4259.8 | 4333.0 | 4365.8 | 4333.0 | 4267.5 | 4209.7 | 4165.4 | 4169.2 | 4167.3 |
| 22.5° | 4402.3 | 4375.4 | 4379.2 | 4410.1 | 4358.0 | 4246.3 | 4138.4 | 4059.4 | 4011.2 | 4020.9 | 4026.7 |
| 25° | 4517.9 | 4491.0 | 4500.6 | 4450.5 | 4279.0 | 4084.4 | 3928.4 | 3861.0 | 3841.7 | 3861.0 | 3874.4 |
| 27.5° | 4668.2 | 4650.9 | 4645.1 | 4452.5 | 4138.4 | 3845.5 | 3668.3 | 3643.2 | 3660.6 | 3703.0 | 3724.2 |
| 30° | 4830.1 | 4830.1 | 4799.2 | 4419.7 | 3945.8 | 3558.5 | 3404.3 | 3408.2 | 3467.9 | 3527.6 | 3548.9 |
| 32.5° | 4986.1 | 5018.9 | 4922.6 | 4331.1 | 3697.2 | 3279.1 | 3161.6 | 3165.4 | 3217.5 | 3290.7 | 3310.0 |
| 35° | 5115.2 | 5209.6 | 5028.5 | 4169.2 | 3404.3 | 3044.1 | 2955.4 | 2903.4 | 2905.3 | 2961.2 | 2976.7 |
| 37.5° | 5292.5 | 5467.8 | 5090.1 | 3928.4 | 3092.2 | 2843.7 | 2743.6 | 2653.0 | 2593.2 | 2570.1 | 2570.1 |
| 40° | 5600.7 | 5858.9 | 5105.6 | 3572.0 | 2797.5 | 2653.0 | 2510.4 | 2402.5 | 2286.9 | 2182.8 | 2163.6 |
| 42.5° | 6122.8 | 6448.4 | 5074.8 | 3161.6 | 2531.6 | 2443.0 | 2304.2 | 2171.3 | 2011.4 | 1864.9 | 1853.4 |
| 45° | 7047.6 | 7215.3 | 4991.9 | 2735.8 | 2294.6 | 2240.6 | 2105.8 | 1961.3 | 1791.7 | 1660.7 | 1651.1 |
| 47.5° | 8529.2 | 8292.2 | 4882.1 | 2358.2 | 2078.9 | 2063.4 | 1959.4 | 1791.7 | 1622.2 | 1531.7 | 1522.1 |
| 50° | 10692.8 | 9987.6 | 4866.7 | 2084.6 | 1905.4 | 1913.2 | 1828.4 | 1674.2 | 1525.9 | 1450.7 | 1439.2 |
| 52.5° | 13297.6 | 12035.6 | 4968.8 | 1892.0 | 1753.2 | 1782.1 | 1739.7 | 1597.2 | 1466.2 | 1402.6 | 1391.0 |
| 55° | 15825.4 | 13877.5 | 5030.5 | 1741.7 | 1610.6 | 1664.6 | 1670.4 | 1551.0 | 1431.5 | 1367.9 | 1360.2 |
| 57.5° | 17877.2 | 15264.7 | 4756.9 | 1604.9 | 1487.4 | 1570.2 | 1612.6 | 1524.0 | 1414.2 | 1365.9 | 1358.3 |
| 60° | 19304.9 | 15919.7 | 3978.5 | 1483.5 | 1396.8 | 1495.1 | 1591.4 | 1525.9 | 1456.5 | 1462.3 | 1466.2 |
| 62.5° | 19759.6 | 15628.8 | 2984.3 | 1393.0 | 1335.2 | 1470.0 | 1626.1 | 1604.9 | 1533.6 | 1577.9 | 1585.7 |
| 65° | 19006.2 | 14426.6 | 2163.6 | 1321.7 | 1281.2 | 1487.4 | 1730.1 | 1662.7 | 1506.6 | 1539.4 | 1539.4 |
| 67.5° | 16484.3 | 12428.7 | 1683.8 | 1256.2 | 1219.5 | 1520.1 | 1834.2 | 1656.9 | 1443.1 | 1481.6 | 1446.9 |
| 70° | 13076.0 | 9613.9 | 1402.6 | 1183.0 | 1154.1 | 1472.0 | 1843.8 | 1597.2 | 1367.9 | 1375.7 | 1310.1 |
| 72.5° | 8677.5 | 6321.2 | 1206.1 | 1113.6 | 1053.8 | 1323.6 | 1764.8 | 1520.1 | 1294.7 | 1250.4 | 1184.9 |
| 75° | 4252.1 | 3152.0 | 1052.0 | 1026.9 | 922.8 | 1152.1 | 1656.9 | 1446.9 | 1215.7 | 1146.3 | 1109.7 |
| 77.5° | 1647.3 | 1341.0 | 897.8 | 917.0 | 803.4 | 1015.3 | 1514.3 | 1342.8 | 1111.7 | 1017.3 | 988.4 |
| 80° | 799.5 | 761.0 | 735.9 | 764.8 | 660.9 | 865.1 | 1383.3 | 1252.3 | 1015.3 | 911.3 | 868.9 |
| 82.5° | 497.0 | 470.1 | 564.5 | 595.3 | 508.6 | 789.9 | 1312.1 | 1175.3 | 894.0 | 755.2 | 720.6 |
| 85° | 252.4 | 269.7 | 377.6 | 406.5 | 364.1 | 628.0 | 1080.9 | 882.4 | 645.4 | 535.6 | 539.5 |
| 87.5° | 96.3 | 129.1 | 198.4 | 213.8 | 194.6 | 331.4 | 595.3 | 514.4 | 414.2 | 281.3 | 260.1 |
| 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)