

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: P301105

Luminaire Tested: **GAA-AF-05-LED-U-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-T3R-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29319.5 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

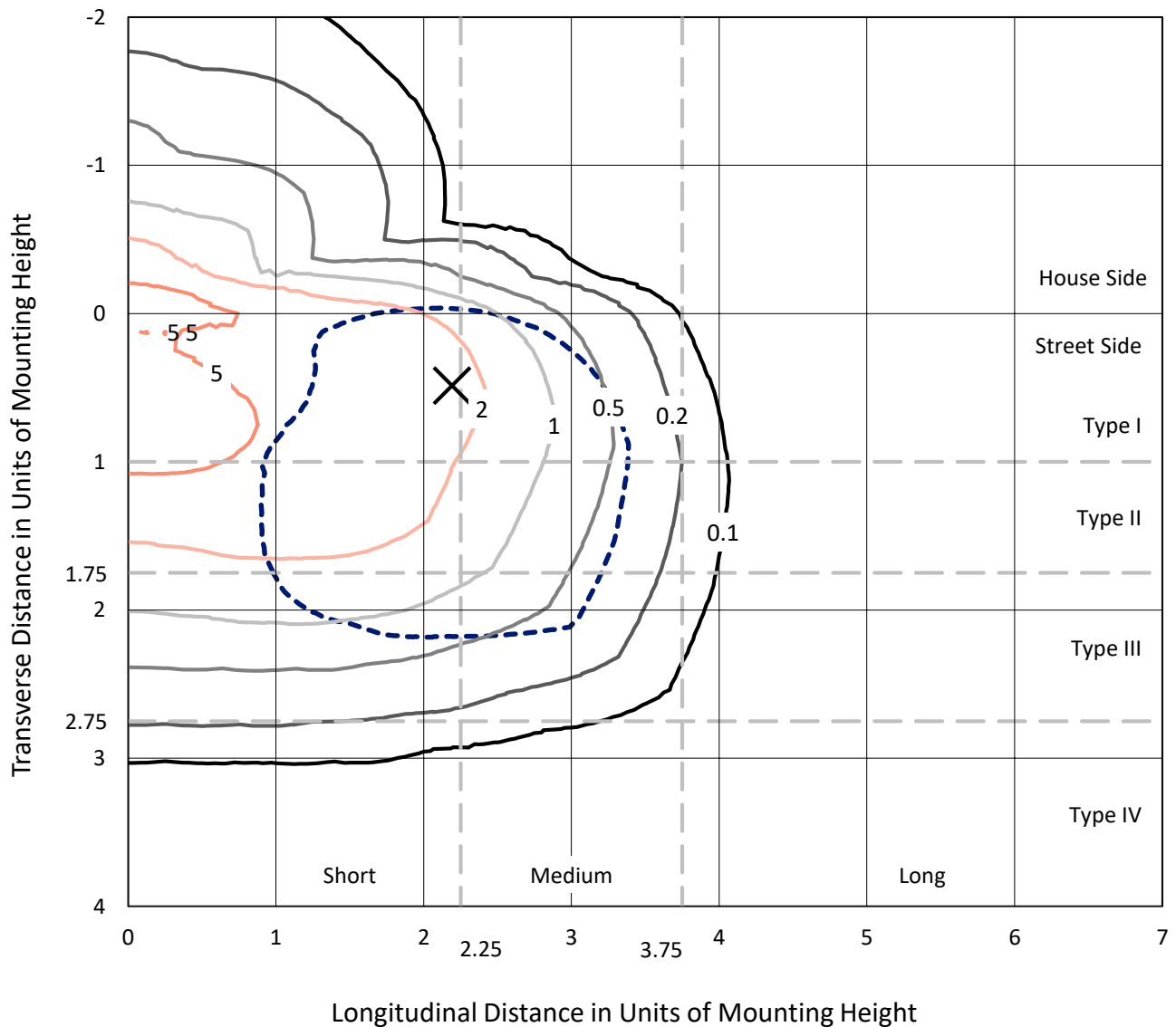
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

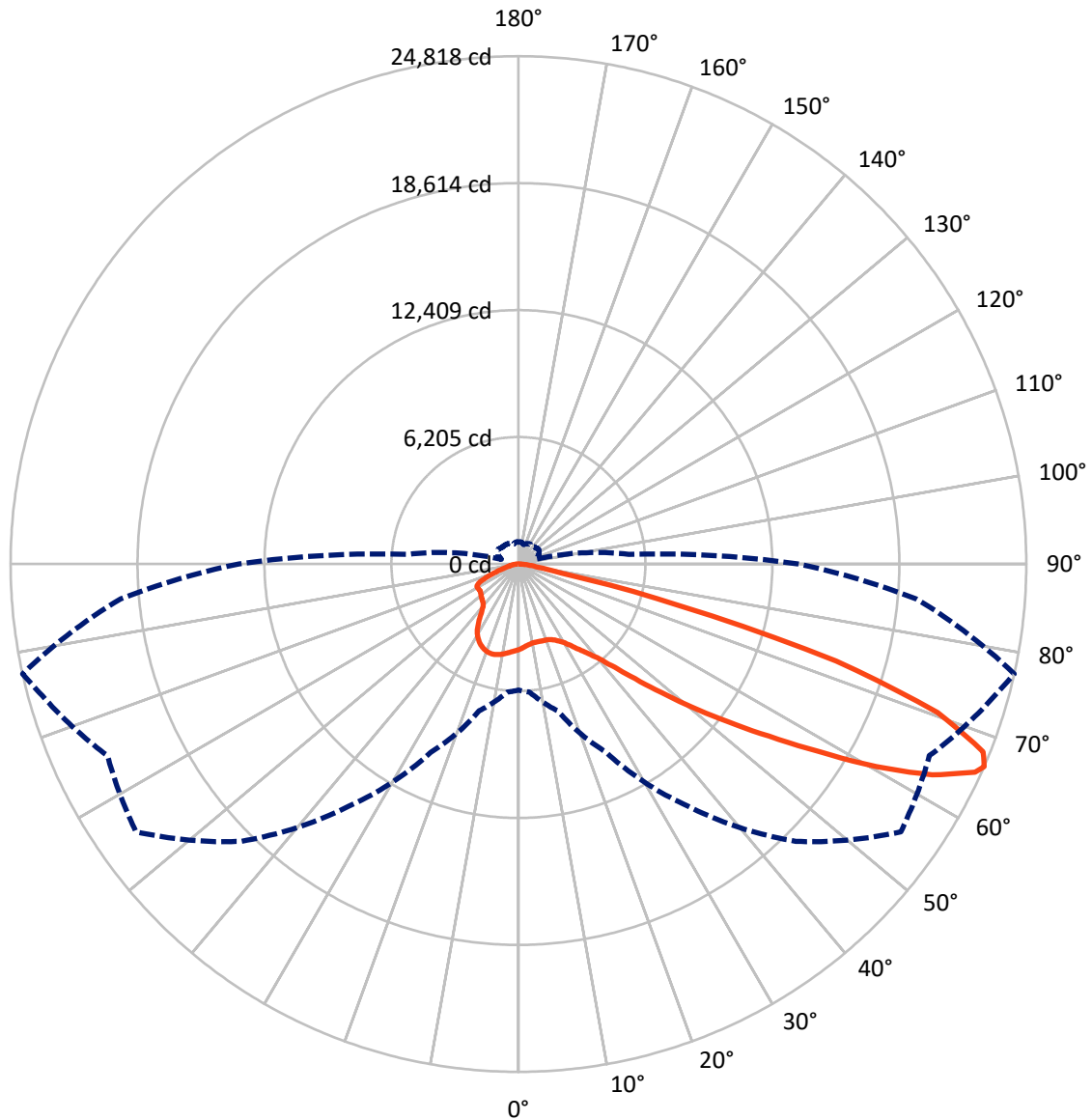
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5009.1 | 0.0 | 5009.1 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 24310.4 | 0.0 | 24310.4 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 29319.5 | 0.0 | 29319.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 373.3 | 1.3 |
| 10°-20° | 1053.1 | 3.6 |
| 20°-30° | 1797.3 | 6.1 |
| 30°-40° | 2877.1 | 9.8 |
| 40°-50° | 4444.9 | 15.2 |
| 50°-60° | 6304.4 | 21.5 |
| 60°-70° | 8433.5 | 28.8 |
| 70°-80° | 3662.5 | 12.5 |
| 80°-90° | 373.5 | 1.3 |
| 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° | 29319.5 | 100.0 |
| 0°-180° | 29319.5 | 100.0 |



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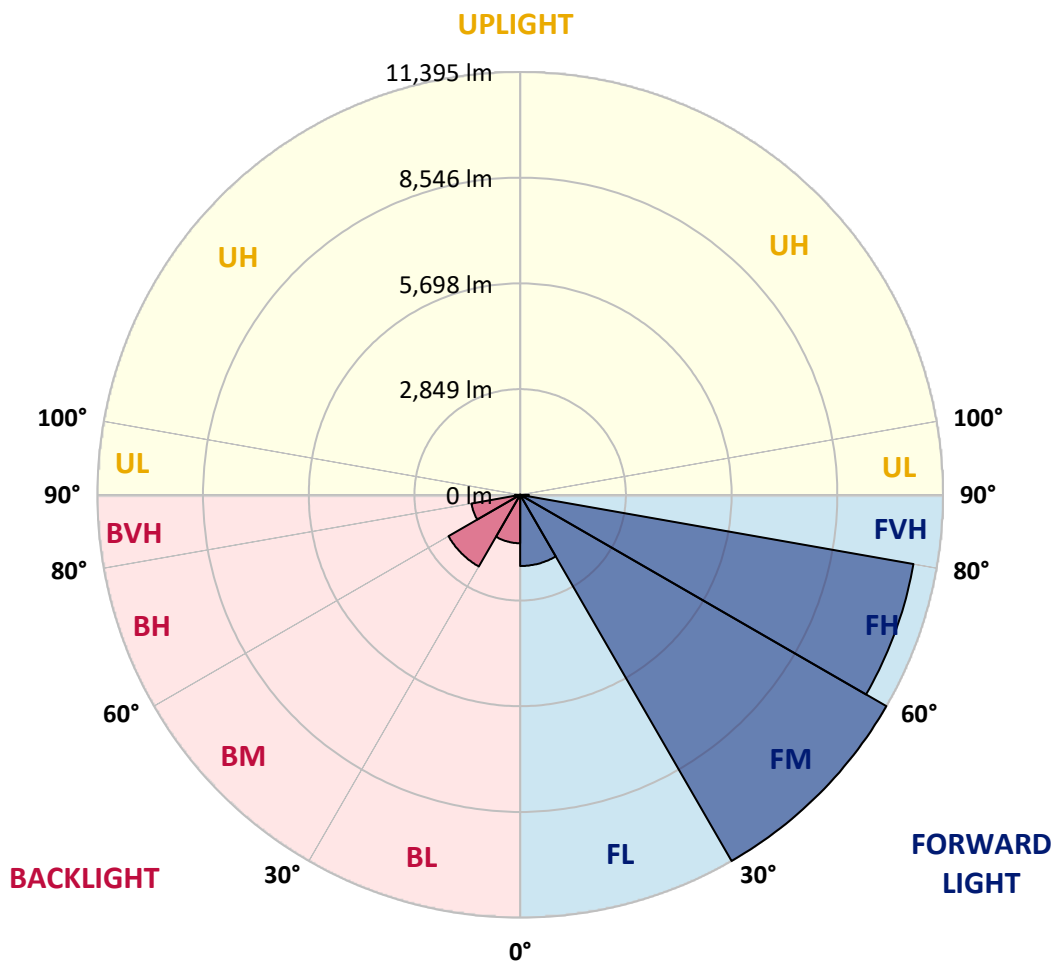
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1919.1 | 6.5 | | | |
| FM | (30°-60°) | 11395.1 | 38.9 | | | |
| FH | (60°-80°) | 10762.0 | 36.7 | | | G4/12000 |
| FVH | (80°-90°) | 234.2 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1304.6 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 2231.3 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1334.0 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 139.2 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 |
| 2.5° | 3696.2 | 3720.9 | 3741.9 | 3761.2 | 3799.8 | 3863.5 | 3936.9 | 3996.5 | 4082.5 | 4099.3 | 4145.0 |
| 5° | 3356.8 | 3356.8 | 3373.2 | 3402.6 | 3455.0 | 3550.6 | 3650.5 | 3783.4 | 3970.5 | 4014.5 | 4136.6 |
| 7.5° | 3192.0 | 3193.3 | 3202.9 | 3227.7 | 3273.4 | 3360.6 | 3470.1 | 3627.0 | 3880.3 | 3953.7 | 4161.3 |
| 10° | 3252.8 | 3239.0 | 3218.0 | 3205.8 | 3212.6 | 3263.7 | 3367.8 | 3542.2 | 3825.0 | 3918.9 | 4217.1 |
| 12.5° | 3593.4 | 3567.4 | 3495.3 | 3399.6 | 3308.2 | 3270.9 | 3331.7 | 3502.0 | 3801.5 | 3910.9 | 4290.5 |
| 15° | 4150.4 | 4139.5 | 4004.9 | 3806.9 | 3585.4 | 3399.6 | 3358.1 | 3486.9 | 3804.0 | 3920.6 | 4377.8 |
| 17.5° | 4848.8 | 4833.3 | 4656.3 | 4368.1 | 4006.6 | 3645.0 | 3450.8 | 3499.5 | 3813.6 | 3936.9 | 4462.1 |
| 20° | 5553.9 | 5506.5 | 5315.7 | 4972.1 | 4507.8 | 3978.5 | 3604.7 | 3531.3 | 3826.2 | 3955.0 | 4551.0 |
| 22.5° | 6080.3 | 6041.3 | 5869.8 | 5535.9 | 5001.1 | 4365.2 | 3811.1 | 3586.7 | 3866.5 | 4007.8 | 4660.1 |
| 25° | 6543.0 | 6545.5 | 6375.2 | 6052.6 | 5499.8 | 4775.4 | 4077.0 | 3734.8 | 3968.8 | 4115.6 | 4809.8 |
| 27.5° | 7115.1 | 7082.0 | 6922.6 | 6602.5 | 5993.1 | 5189.4 | 4398.3 | 3938.6 | 4121.5 | 4269.6 | 5006.5 |
| 30° | 7799.2 | 7775.7 | 7591.6 | 7228.8 | 6540.0 | 5634.0 | 4765.4 | 4175.2 | 4318.2 | 4471.7 | 5264.1 |
| 32.5° | 8604.1 | 8593.2 | 8402.0 | 7935.1 | 7171.7 | 6157.9 | 5196.5 | 4488.5 | 4611.8 | 4771.2 | 5634.0 |
| 35° | 9549.2 | 9550.4 | 9324.8 | 8763.5 | 7863.0 | 6767.4 | 5685.2 | 4891.6 | 4969.2 | 5135.3 | 6074.9 |
| 37.5° | 10130.9 | 10201.4 | 10117.1 | 9545.0 | 8645.7 | 7449.0 | 6319.8 | 5426.4 | 5376.5 | 5544.3 | 6547.2 |
| 40° | 10255.5 | 10341.5 | 10608.7 | 10318.0 | 9521.5 | 8199.8 | 6882.3 | 5940.2 | 5878.2 | 6082.8 | 7155.4 |
| 42.5° | 10081.0 | 10200.2 | 10765.6 | 10970.3 | 10451.0 | 9125.1 | 7638.6 | 6703.6 | 6624.8 | 6900.3 | 7911.6 |
| 45° | 9977.0 | 10065.9 | 10719.8 | 11310.0 | 11257.2 | 10171.2 | 8601.6 | 7662.1 | 7633.1 | 7994.7 | 8784.5 |
| 47.5° | 9797.1 | 9877.6 | 10506.3 | 11388.9 | 11731.1 | 11129.6 | 9758.5 | 8834.4 | 8891.1 | 9365.0 | 9769.4 |
| 50° | 9894.0 | 9927.1 | 10268.1 | 11188.0 | 11868.3 | 11832.2 | 11050.8 | 10191.8 | 10386.0 | 10977.4 | 10884.7 |
| 52.5° | 9880.1 | 9966.1 | 10240.4 | 10858.3 | 11886.3 | 12265.9 | 12323.8 | 11706.0 | 12114.9 | 12793.6 | 12121.6 |
| 55° | 7988.0 | 8145.7 | 9914.9 | 10775.2 | 11949.7 | 12690.8 | 13457.2 | 13302.0 | 14063.7 | 14854.8 | 13518.0 |
| 57.5° | 7627.7 | 7727.5 | 8708.2 | 10949.7 | 12287.7 | 13502.9 | 14717.6 | 15058.6 | 16332.9 | 17251.5 | 15219.3 |
| 60° | 7556.8 | 7680.1 | 8695.6 | 11163.2 | 12973.5 | 14825.8 | 16586.7 | 17185.2 | 19094.1 | 20100.0 | 17191.9 |
| 62.5° | 7336.6 | 7469.5 | 8613.8 | 11135.1 | 13947.5 | 16655.9 | 18979.2 | 19446.1 | 21712.3 | 22690.5 | 18842.1 |
| 65° | 6638.6 | 6763.2 | 7947.7 | 10688.0 | 14604.4 | 18609.3 | 21810.5 | 21518.6 | 23779.4 | 24514.7 | 19664.6 |
| 66° | 6160.4 | 6282.5 | 7422.6 | 10161.6 | 14451.7 | 19163.3 | 22813.8 | 22159.9 | 24242.0 | 24818.4 | 19503.9 |
| 67.5° | 5286.3 | 5381.9 | 6402.9 | 8982.5 | 13641.3 | 19318.5 | 23657.3 | 22641.8 | 24290.3 | 24494.1 | 18585.8 |
| 70° | 3340.1 | 3367.8 | 4161.3 | 6200.7 | 10326.4 | 16754.0 | 22373.0 | 21445.1 | 22287.4 | 21735.8 | 15580.8 |
| 72.5° | 1449.2 | 1439.5 | 1997.8 | 3154.3 | 5846.3 | 11242.1 | 18097.9 | 17694.9 | 17483.0 | 16225.1 | 10906.9 |
| 75° | 806.2 | 817.5 | 1037.7 | 1464.3 | 2375.8 | 5522.0 | 11838.9 | 11329.3 | 9565.5 | 8162.5 | 4945.7 |
| 77.5° | 646.8 | 662.3 | 860.3 | 1039.0 | 1066.7 | 1925.7 | 5540.1 | 4507.8 | 2713.8 | 2177.8 | 1374.1 |
| 80° | 511.3 | 539.0 | 750.8 | 809.1 | 718.9 | 793.6 | 1789.8 | 1431.2 | 1073.8 | 984.9 | 712.2 |
| 82.5° | 404.3 | 424.1 | 644.3 | 612.4 | 502.9 | 534.8 | 857.4 | 835.5 | 698.4 | 635.9 | 411.5 |
| 85° | 291.1 | 326.8 | 529.3 | 461.4 | 329.7 | 360.3 | 569.2 | 545.7 | 400.2 | 326.8 | 181.6 |
| 87.5° | 119.1 | 155.2 | 374.1 | 306.2 | 184.1 | 167.8 | 284.0 | 267.2 | 189.6 | 138.4 | 90.2 |
| 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° | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 | 4178.1 |
| 2.5° | 4173.9 | 4207.1 | 4250.3 | 4276.7 | 4290.5 | 4300.2 | 4315.3 | 4314.0 | 4318.2 | 4319.5 | 4324.9 |
| 5° | 4201.6 | 4257.0 | 4319.5 | 4336.3 | 4336.3 | 4320.7 | 4305.6 | 4280.5 | 4270.8 | 4268.3 | 4270.8 |
| 7.5° | 4273.8 | 4334.6 | 4388.7 | 4369.4 | 4327.9 | 4266.6 | 4187.8 | 4118.6 | 4081.2 | 4068.7 | 4066.1 |
| 10° | 4365.2 | 4438.6 | 4460.8 | 4387.4 | 4265.4 | 4118.6 | 3962.1 | 3848.4 | 3783.4 | 3765.4 | 3759.9 |
| 12.5° | 4475.9 | 4545.1 | 4514.9 | 4359.7 | 4133.7 | 3897.1 | 3680.7 | 3499.5 | 3363.6 | 3320.8 | 3317.8 |
| 15° | 4598.0 | 4652.1 | 4545.1 | 4273.8 | 3936.9 | 3588.0 | 3202.9 | 2890.0 | 2721.0 | 2666.9 | 2662.7 |
| 17.5° | 4711.7 | 4739.3 | 4527.1 | 4124.0 | 3647.5 | 3082.5 | 2571.2 | 2330.0 | 2272.2 | 2286.0 | 2288.5 |
| 20° | 4808.6 | 4808.6 | 4466.3 | 3909.3 | 3192.0 | 2416.0 | 2093.0 | 2089.3 | 2130.8 | 2172.3 | 2180.7 |
| 22.5° | 4915.1 | 4851.3 | 4359.7 | 3606.0 | 2546.1 | 1976.9 | 1929.9 | 1968.5 | 2015.5 | 2061.2 | 2068.3 |
| 25° | 5046.8 | 4886.2 | 4211.3 | 3146.3 | 2001.6 | 1795.2 | 1813.3 | 1845.2 | 1868.6 | 1898.0 | 1902.2 |
| 27.5° | 5193.6 | 4930.2 | 4016.2 | 2512.9 | 1737.4 | 1682.0 | 1695.8 | 1706.7 | 1703.8 | 1715.1 | 1717.6 |
| 30° | 5369.4 | 4981.8 | 3748.6 | 1964.3 | 1627.9 | 1584.7 | 1559.9 | 1550.3 | 1550.3 | 1568.3 | 1575.0 |
| 32.5° | 5605.1 | 5057.7 | 3364.8 | 1683.2 | 1575.0 | 1515.5 | 1435.4 | 1399.3 | 1413.1 | 1473.9 | 1487.8 |
| 35° | 5864.3 | 5139.5 | 2845.5 | 1587.6 | 1564.1 | 1483.6 | 1359.0 | 1292.3 | 1294.0 | 1350.6 | 1368.7 |
| 37.5° | 6146.6 | 5243.5 | 2275.9 | 1569.6 | 1588.9 | 1485.3 | 1318.7 | 1227.3 | 1190.0 | 1190.0 | 1197.1 |
| 40° | 6508.2 | 5350.1 | 1842.6 | 1582.2 | 1641.7 | 1501.6 | 1298.2 | 1176.1 | 1070.9 | 1073.8 | 1079.2 |
| 42.5° | 6979.2 | 5441.5 | 1609.8 | 1608.2 | 1705.5 | 1523.9 | 1296.5 | 1108.2 | 1016.7 | 1079.2 | 1135.9 |
| 45° | 7503.1 | 5487.2 | 1507.1 | 1632.1 | 1756.7 | 1537.7 | 1274.7 | 1097.3 | 1023.9 | 1209.3 | 1317.5 |
| 47.5° | 8105.4 | 5460.8 | 1450.5 | 1640.0 | 1769.2 | 1537.7 | 1249.5 | 1123.7 | 1072.1 | 1400.5 | 1526.8 |
| 50° | 8766.5 | 5384.9 | 1395.1 | 1623.7 | 1765.0 | 1534.8 | 1273.0 | 1149.7 | 1090.1 | 1433.7 | 1520.9 |
| 52.5° | 9543.7 | 5321.1 | 1336.8 | 1587.6 | 1735.7 | 1519.7 | 1300.7 | 1138.8 | 1033.5 | 1303.6 | 1364.5 |
| 55° | 10430.0 | 5339.2 | 1271.8 | 1536.4 | 1690.0 | 1490.7 | 1291.1 | 1094.3 | 974.0 | 1148.5 | 1185.8 |
| 57.5° | 11563.4 | 5553.9 | 1194.2 | 1471.4 | 1627.9 | 1442.1 | 1256.7 | 1073.8 | 955.9 | 1041.9 | 1064.1 |
| 60° | 12828.0 | 5927.6 | 1097.3 | 1406.0 | 1550.3 | 1364.5 | 1230.2 | 1083.4 | 964.3 | 1033.5 | 1044.4 |
| 62.5° | 13756.2 | 6145.3 | 1014.2 | 1310.4 | 1445.0 | 1278.5 | 1197.1 | 1095.6 | 986.5 | 1062.5 | 1059.9 |
| 65° | 14008.3 | 5788.0 | 910.2 | 1170.7 | 1302.4 | 1188.7 | 1155.2 | 1109.4 | 996.2 | 1086.0 | 1073.8 |
| 66° | 13655.1 | 5402.9 | 864.5 | 1105.7 | 1230.2 | 1144.3 | 1134.6 | 1108.2 | 992.0 | 1088.9 | 1067.9 |
| 67.5° | 12797.8 | 4613.1 | 785.6 | 1010.0 | 1115.3 | 1078.0 | 1101.5 | 1095.6 | 980.7 | 1086.0 | 1057.0 |
| 70° | 10437.1 | 3147.5 | 672.0 | 841.0 | 928.2 | 948.8 | 1037.7 | 1051.6 | 944.6 | 1037.7 | 974.0 |
| 72.5° | 7292.5 | 1917.3 | 594.4 | 652.7 | 750.8 | 809.1 | 950.5 | 990.3 | 896.4 | 906.0 | 845.2 |
| 75° | 3524.2 | 1018.4 | 539.0 | 505.9 | 583.0 | 676.2 | 845.2 | 907.3 | 820.0 | 757.9 | 735.7 |
| 77.5° | 1098.5 | 622.0 | 457.2 | 407.3 | 457.2 | 545.7 | 706.4 | 795.3 | 730.3 | 634.6 | 626.2 |
| 80° | 590.2 | 457.2 | 351.9 | 326.8 | 361.6 | 428.3 | 555.3 | 663.6 | 627.5 | 569.2 | 508.4 |
| 82.5° | 389.2 | 296.6 | 260.5 | 253.3 | 275.6 | 326.8 | 412.7 | 549.9 | 549.9 | 487.8 | 354.9 |
| 85° | 200.9 | 181.6 | 178.7 | 178.7 | 192.5 | 217.7 | 281.0 | 424.1 | 451.7 | 257.5 | 213.5 |
| 87.5° | 99.8 | 104.0 | 96.9 | 101.1 | 108.2 | 106.5 | 134.2 | 213.5 | 255.0 | 156.5 | 130.0 |
| 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)