

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: P323501

Luminaire Tested: **GAN-SA7D-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42699 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

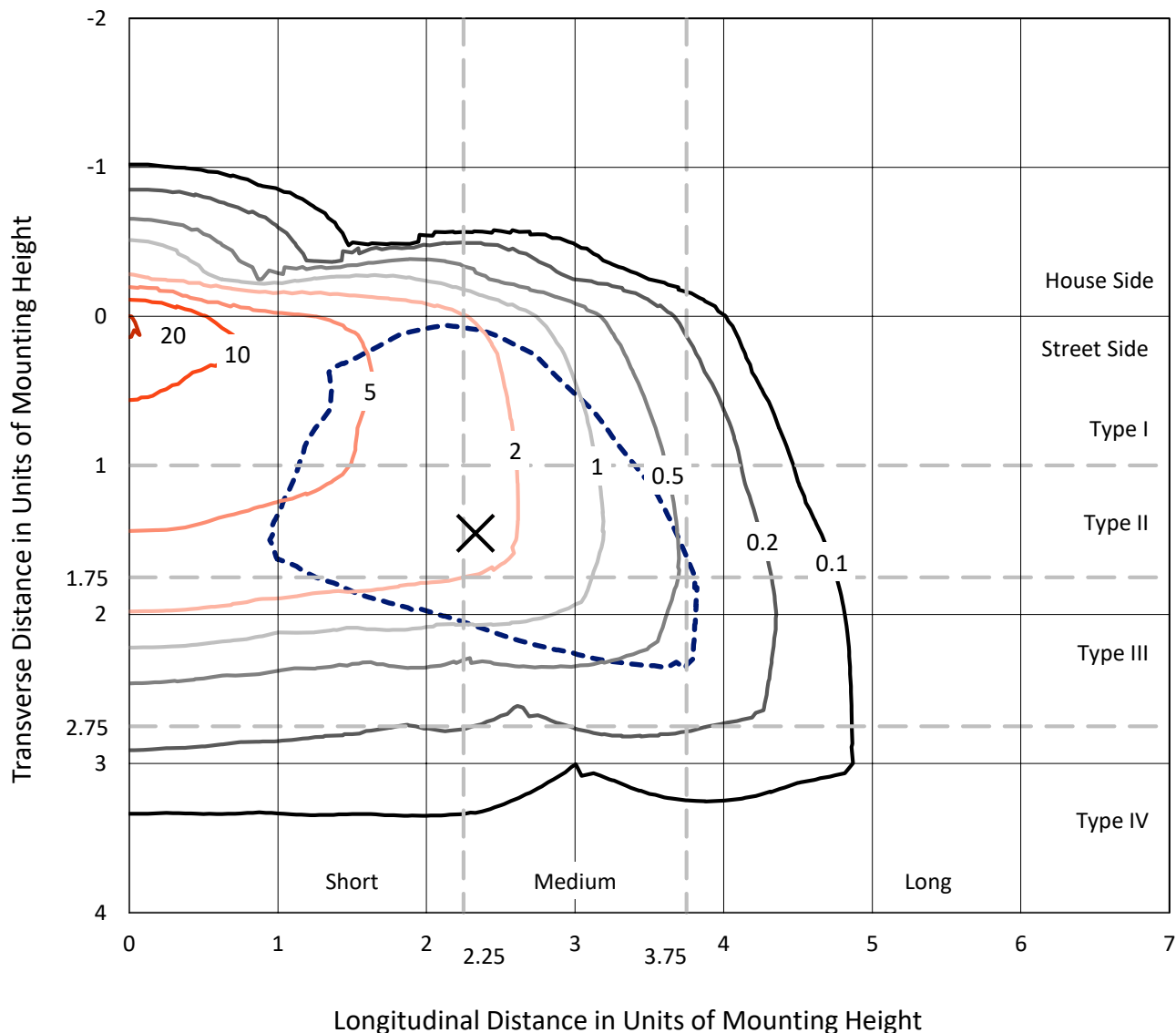
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

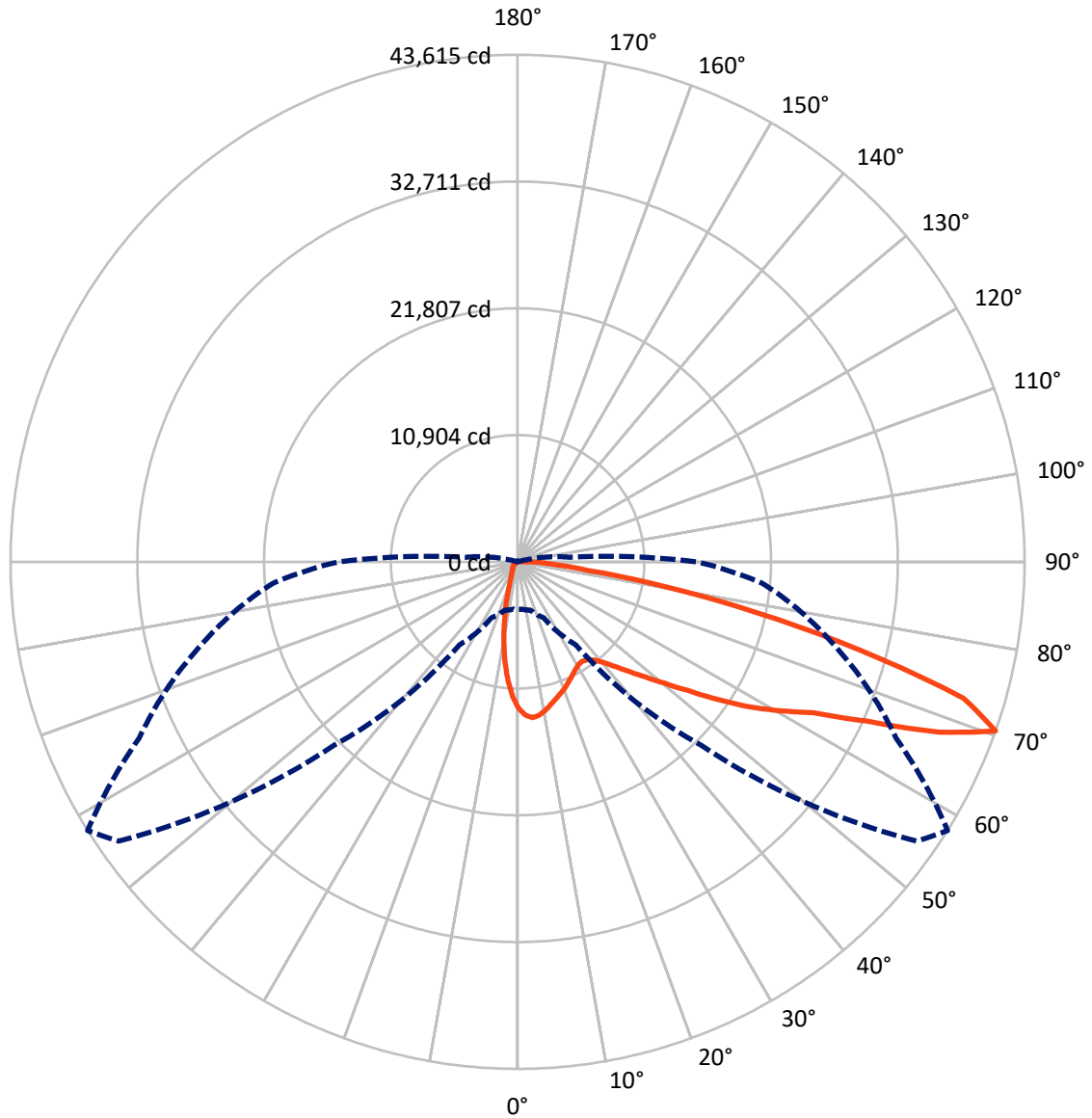
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3654.1 | 0.0 | 3654.1 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 39044.9 | 0.0 | 39044.9 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 42699.0 | 0.0 | 42699.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1031.4 | 2.4 |
| 10°-20° | 2164.7 | 5.1 |
| 20°-30° | 2845.9 | 6.7 |
| 30°-40° | 3769.0 | 8.8 |
| 40°-50° | 5633.5 | 13.2 |
| 50°-60° | 9024.7 | 21.1 |
| 60°-70° | 11375.6 | 26.6 |
| 70°-80° | 6135.9 | 14.4 |
| 80°-90° | 718.2 | 1.7 |
| 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° | 42699.0 | 100.0 |
| 0°-180° | 42699.0 | 100.0 |

Coefficient of Utilization

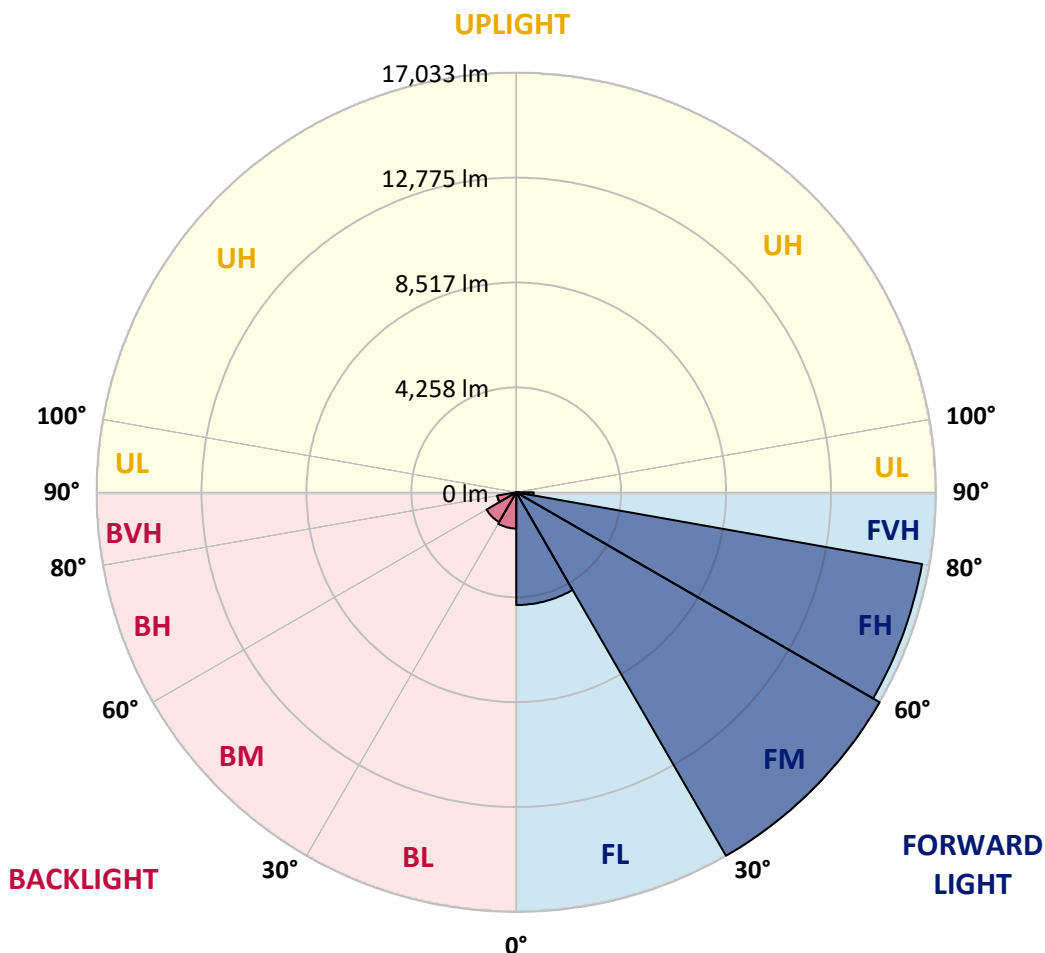


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4573.9 | 10.7 | | | |
| FM (30°-60°) | 17033.3 | 39.9 | | | |
| FH (60°-80°) | 16725.7 | 39.2 | | | G5 |
| FVH (80°-90°) | 712.0 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1468.1 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 1394.0 | 3.3 | B2/2500 | | |
| BH (60°-80°) | 785.8 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 |
| 2.5° | 13658.8 | 13625.1 | 13612.7 | 13591.4 | 13509.7 | 13429.8 | 13271.8 | 13227.4 | 13128.0 | 12891.8 | 12641.5 |
| 5° | 13669.5 | 13667.7 | 13705.0 | 13696.1 | 13667.7 | 13630.4 | 13516.8 | 13458.2 | 13289.5 | 12952.2 | 12494.1 |
| 7.5° | 13010.8 | 13044.5 | 13128.0 | 13195.4 | 13273.6 | 13374.8 | 13389.0 | 13332.2 | 13193.7 | 12829.7 | 12222.5 |
| 10° | 12126.6 | 12179.9 | 12297.0 | 12430.2 | 12634.4 | 12836.8 | 13017.9 | 13010.8 | 12962.9 | 12604.2 | 11895.8 |
| 12.5° | 11240.6 | 11302.8 | 11437.7 | 11634.8 | 11924.2 | 12254.4 | 12577.6 | 12622.0 | 12701.9 | 12401.8 | 11594.0 |
| 15° | 10464.7 | 10518.0 | 10651.2 | 10892.6 | 11251.3 | 11695.2 | 12169.2 | 12250.9 | 12456.8 | 12243.8 | 11341.8 |
| 17.5° | 9806.0 | 9839.8 | 9937.4 | 10205.5 | 10621.0 | 11159.0 | 11775.1 | 11934.8 | 12242.0 | 12119.5 | 11123.4 |
| 20° | 9346.2 | 9351.5 | 9415.4 | 9603.6 | 10019.1 | 10621.0 | 11366.7 | 11595.7 | 12014.7 | 12013.0 | 10898.0 |
| 22.5° | 9118.9 | 9101.2 | 9113.6 | 9221.9 | 9527.3 | 10107.9 | 10958.3 | 11230.0 | 11810.6 | 11922.4 | 10668.9 |
| 25° | 9076.3 | 9062.1 | 9026.6 | 9040.8 | 9225.4 | 9658.7 | 10546.4 | 10860.7 | 11631.2 | 11867.4 | 10470.1 |
| 27.5° | 9209.5 | 9223.7 | 9163.3 | 9099.4 | 9113.6 | 9367.5 | 10180.7 | 10544.6 | 11485.6 | 11867.4 | 10329.8 |
| 30° | 9477.6 | 9484.7 | 9440.3 | 9356.8 | 9245.0 | 9285.8 | 9926.8 | 10290.7 | 11412.9 | 11949.0 | 10241.0 |
| 32.5° | 9774.1 | 9813.1 | 9807.8 | 9740.3 | 9580.5 | 9415.4 | 9866.4 | 10198.4 | 11407.5 | 12130.1 | 10232.2 |
| 35° | 10141.6 | 10186.0 | 10260.6 | 10246.4 | 10079.5 | 9807.8 | 10072.4 | 10333.4 | 11512.3 | 12428.4 | 10328.0 |
| 37.5° | 10532.2 | 10599.7 | 10759.5 | 10835.8 | 10727.5 | 10420.4 | 10534.0 | 10720.4 | 11792.8 | 12911.4 | 10571.3 |
| 40° | 10910.4 | 10986.7 | 11277.9 | 11578.0 | 11496.3 | 11180.3 | 11233.5 | 11382.7 | 12291.7 | 13605.6 | 11032.9 |
| 42.5° | 11281.5 | 11395.1 | 11823.0 | 12316.6 | 12414.2 | 12162.1 | 12190.5 | 12309.5 | 13032.1 | 14560.8 | 11787.5 |
| 45° | 11725.3 | 11853.2 | 12487.0 | 13096.0 | 13357.0 | 13246.9 | 13367.7 | 13445.8 | 13999.7 | 15823.2 | 12804.8 |
| 47.5° | 12376.9 | 12524.3 | 13302.0 | 13996.2 | 14454.3 | 14525.3 | 14768.5 | 14820.0 | 15223.1 | 17293.3 | 14131.1 |
| 50° | 13648.2 | 13689.0 | 14392.1 | 15022.4 | 15682.9 | 16109.0 | 16386.0 | 16425.1 | 16703.8 | 18900.1 | 15787.7 |
| 52.5° | 15247.9 | 15274.5 | 15672.3 | 16094.8 | 16845.9 | 17715.8 | 18363.9 | 18418.9 | 18477.5 | 20466.1 | 17422.9 |
| 55° | 16837.0 | 16833.4 | 17096.2 | 17344.8 | 18204.1 | 19468.3 | 20874.4 | 20908.2 | 20487.4 | 21952.2 | 18672.8 |
| 57.5° | 17829.5 | 17925.3 | 18324.8 | 18644.4 | 19844.7 | 21465.7 | 23416.9 | 23541.2 | 22598.4 | 23053.0 | 19908.6 |
| 60° | 17513.4 | 17559.6 | 18445.6 | 19628.0 | 21888.2 | 24304.7 | 25989.6 | 26021.6 | 24185.7 | 24152.0 | 21471.0 |
| 62.5° | 14921.2 | 14946.1 | 16338.1 | 18775.8 | 22923.4 | 27987.1 | 29093.2 | 28573.0 | 26010.9 | 25677.1 | 23340.6 |
| 65° | 10226.8 | 10388.4 | 11551.3 | 14564.3 | 21021.8 | 30297.0 | 33897.7 | 33036.5 | 28793.1 | 27875.2 | 25030.9 |
| 67.5° | 6022.5 | 5988.7 | 6564.0 | 8783.4 | 15439.7 | 28762.9 | 39975.2 | 39119.4 | 32587.3 | 29347.1 | 24535.5 |
| 70° | 4113.8 | 4090.7 | 4310.9 | 5317.6 | 8715.9 | 22312.6 | 41887.4 | 43614.9 | 35937.7 | 28356.4 | 21115.9 |
| 72.5° | 2936.7 | 2949.1 | 3274.0 | 4131.6 | 5472.1 | 13000.1 | 36021.1 | 40110.1 | 34888.4 | 24720.2 | 16050.4 |
| 75° | 1993.9 | 2027.6 | 2492.8 | 3389.4 | 4797.4 | 6613.7 | 25561.7 | 30490.5 | 28409.6 | 17966.2 | 9225.4 |
| 77.5° | 1072.4 | 1109.7 | 1658.3 | 2730.7 | 4337.5 | 4595.0 | 16442.8 | 20984.5 | 17845.5 | 8076.7 | 2673.9 |
| 80° | 447.4 | 468.7 | 775.9 | 1985.0 | 3748.1 | 4035.7 | 9674.6 | 12724.9 | 7604.4 | 1592.6 | 596.6 |
| 82.5° | 193.5 | 204.2 | 323.1 | 1184.3 | 2801.7 | 3407.2 | 5122.3 | 6121.9 | 2304.6 | 349.8 | 300.1 |
| 85° | 37.3 | 39.1 | 133.2 | 626.7 | 1787.9 | 1922.9 | 3320.2 | 3254.5 | 1035.1 | 150.9 | 218.4 |
| 87.5° | 0.0 | 0.0 | 32.0 | 197.1 | 525.5 | 1047.5 | 2025.8 | 2001.0 | 351.5 | 72.8 | 81.7 |
| 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° | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 | 12613.1 |
| 2.5° | 12513.7 | 12391.1 | 12133.7 | 11815.9 | 11572.6 | 11304.5 | 11091.5 | 10821.6 | 10704.4 | 10709.8 | 10645.8 |
| 5° | 12233.1 | 11981.0 | 11411.1 | 10692.0 | 10138.0 | 9566.3 | 9074.5 | 8584.5 | 8295.1 | 8201.0 | 8112.2 |
| 7.5° | 11831.9 | 11432.4 | 10523.3 | 9415.4 | 8478.0 | 7561.8 | 6764.6 | 6063.3 | 5619.4 | 5402.8 | 5322.9 |
| 10° | 11379.1 | 10818.1 | 9502.4 | 8043.0 | 6704.3 | 5465.0 | 4431.6 | 3533.2 | 3174.6 | 2931.3 | 2869.2 |
| 12.5° | 10981.4 | 10221.5 | 8504.6 | 6635.0 | 5045.9 | 3551.0 | 2565.6 | 2006.3 | 1763.1 | 1667.2 | 1651.2 |
| 15° | 10606.8 | 9664.0 | 7544.1 | 5360.2 | 3494.2 | 2185.6 | 1631.7 | 1441.7 | 1384.9 | 1368.9 | 1368.9 |
| 17.5° | 10253.5 | 9133.1 | 6604.8 | 4104.9 | 2311.7 | 1532.2 | 1351.1 | 1308.5 | 1290.8 | 1289.0 | 1290.8 |
| 20° | 9884.2 | 8602.3 | 5681.6 | 3007.7 | 1613.9 | 1297.9 | 1248.2 | 1225.1 | 1219.8 | 1219.8 | 1219.8 |
| 22.5° | 9530.8 | 8071.4 | 4783.2 | 2148.3 | 1294.3 | 1184.3 | 1159.4 | 1143.4 | 1138.1 | 1136.3 | 1132.8 |
| 25° | 9191.7 | 7567.1 | 3906.1 | 1518.0 | 1136.3 | 1084.8 | 1063.5 | 1042.2 | 1026.2 | 1017.4 | 1012.0 |
| 27.5° | 8913.0 | 7117.9 | 3089.4 | 1218.0 | 1026.2 | 981.8 | 955.2 | 923.3 | 884.2 | 866.4 | 859.3 |
| 30° | 8691.0 | 6707.8 | 2380.9 | 1028.0 | 923.3 | 878.9 | 838.0 | 783.0 | 726.2 | 696.0 | 694.2 |
| 32.5° | 8517.0 | 6304.8 | 1807.4 | 909.1 | 830.9 | 775.9 | 717.3 | 648.1 | 582.4 | 548.6 | 546.9 |
| 35° | 8431.8 | 5949.7 | 1381.3 | 822.1 | 749.3 | 680.0 | 607.2 | 530.9 | 467.0 | 435.0 | 431.4 |
| 37.5° | 8488.6 | 5649.6 | 1077.7 | 749.3 | 680.0 | 600.1 | 514.9 | 435.0 | 378.2 | 349.8 | 348.0 |
| 40° | 8696.4 | 5457.9 | 875.3 | 687.1 | 621.4 | 523.8 | 431.4 | 356.9 | 308.9 | 285.9 | 284.1 |
| 42.5° | 9138.4 | 5386.8 | 747.5 | 635.6 | 564.6 | 452.8 | 358.6 | 294.7 | 250.3 | 234.4 | 230.8 |
| 45° | 9877.1 | 5491.6 | 660.5 | 585.9 | 506.0 | 385.3 | 296.5 | 241.5 | 202.4 | 190.0 | 188.2 |
| 47.5° | 10860.7 | 5766.8 | 598.3 | 538.0 | 452.8 | 324.9 | 246.8 | 195.3 | 165.1 | 152.7 | 150.9 |
| 50° | 12128.4 | 6203.6 | 546.9 | 490.0 | 403.0 | 275.2 | 204.2 | 154.5 | 127.8 | 119.0 | 119.0 |
| 52.5° | 13507.9 | 6723.8 | 500.7 | 445.6 | 353.3 | 229.0 | 165.1 | 119.0 | 101.2 | 90.6 | 90.6 |
| 55° | 14647.8 | 7178.3 | 451.0 | 411.9 | 293.0 | 190.0 | 126.1 | 90.6 | 74.6 | 69.2 | 69.2 |
| 57.5° | 15785.9 | 7663.0 | 394.2 | 353.3 | 234.4 | 154.5 | 95.9 | 67.5 | 55.0 | 51.5 | 51.5 |
| 60° | 17261.3 | 8256.0 | 339.1 | 287.6 | 184.7 | 117.2 | 71.0 | 47.9 | 40.8 | 39.1 | 39.1 |
| 62.5° | 18884.1 | 8604.0 | 289.4 | 230.8 | 143.8 | 87.0 | 51.5 | 32.0 | 30.2 | 30.2 | 28.4 |
| 65° | 19876.6 | 8112.2 | 243.2 | 184.7 | 111.9 | 65.7 | 33.7 | 23.1 | 26.6 | 24.9 | 21.3 |
| 67.5° | 18610.7 | 6350.9 | 198.9 | 143.8 | 87.0 | 49.7 | 21.3 | 16.0 | 28.4 | 23.1 | 17.8 |
| 70° | 15409.5 | 4445.8 | 154.5 | 101.2 | 69.2 | 42.6 | 14.2 | 10.7 | 30.2 | 23.1 | 14.2 |
| 72.5° | 11531.8 | 2975.7 | 122.5 | 67.5 | 51.5 | 37.3 | 12.4 | 5.3 | 26.6 | 19.5 | 12.4 |
| 75° | 6301.2 | 1198.5 | 97.7 | 42.6 | 32.0 | 26.6 | 8.9 | 3.6 | 17.8 | 14.2 | 8.9 |
| 77.5° | 1658.3 | 316.0 | 71.0 | 28.4 | 17.8 | 10.7 | 5.3 | 1.8 | 8.9 | 7.1 | 3.6 |
| 80° | 422.6 | 122.5 | 46.2 | 19.5 | 12.4 | 5.3 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 |
| 82.5° | 225.5 | 51.5 | 28.4 | 14.2 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 170.4 | 33.7 | 16.0 | 8.9 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 65.7 | 10.7 | 5.3 | 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)