

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: P319333

Luminaire Tested: **GAN-SA9C-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56412 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

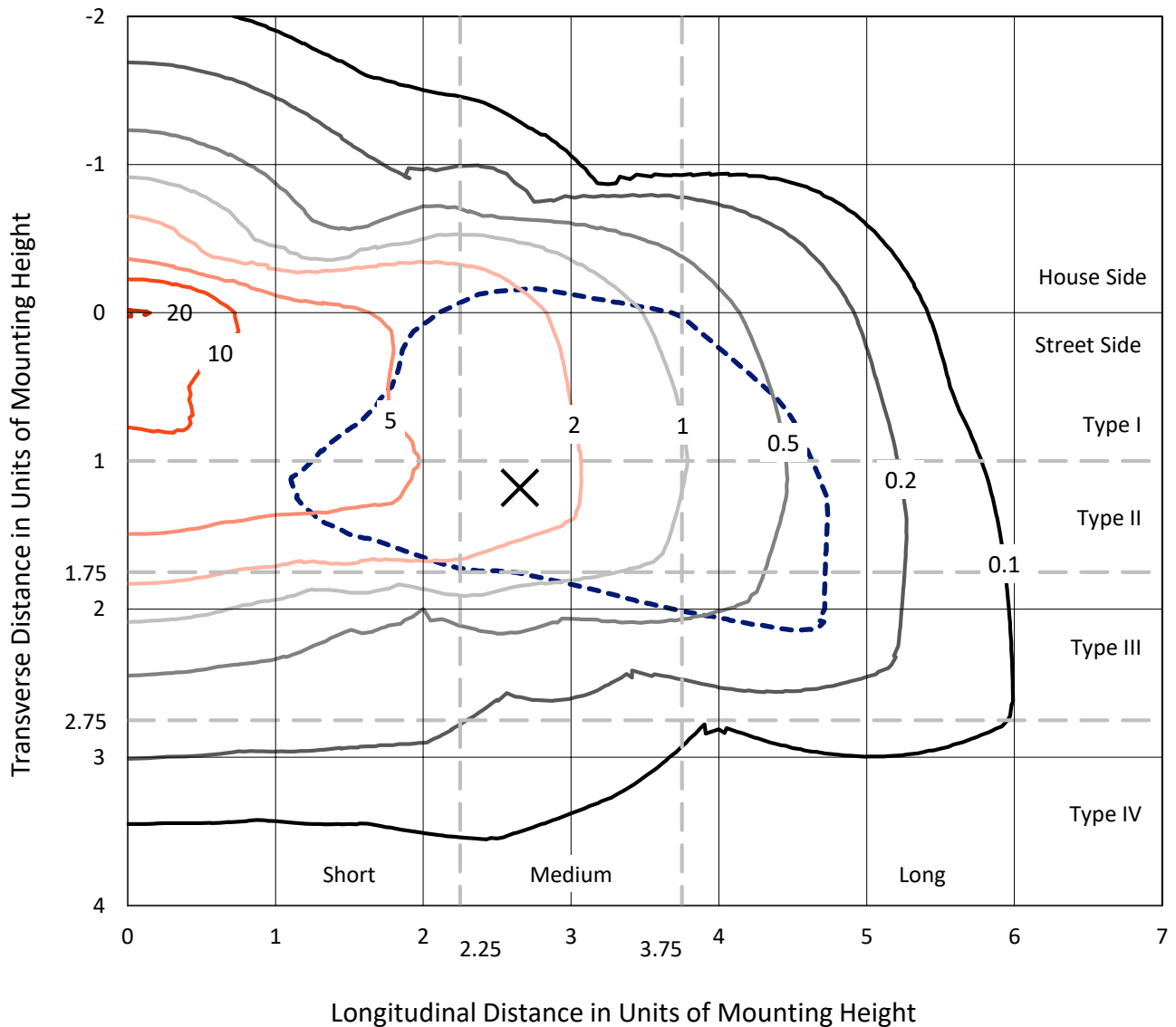
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

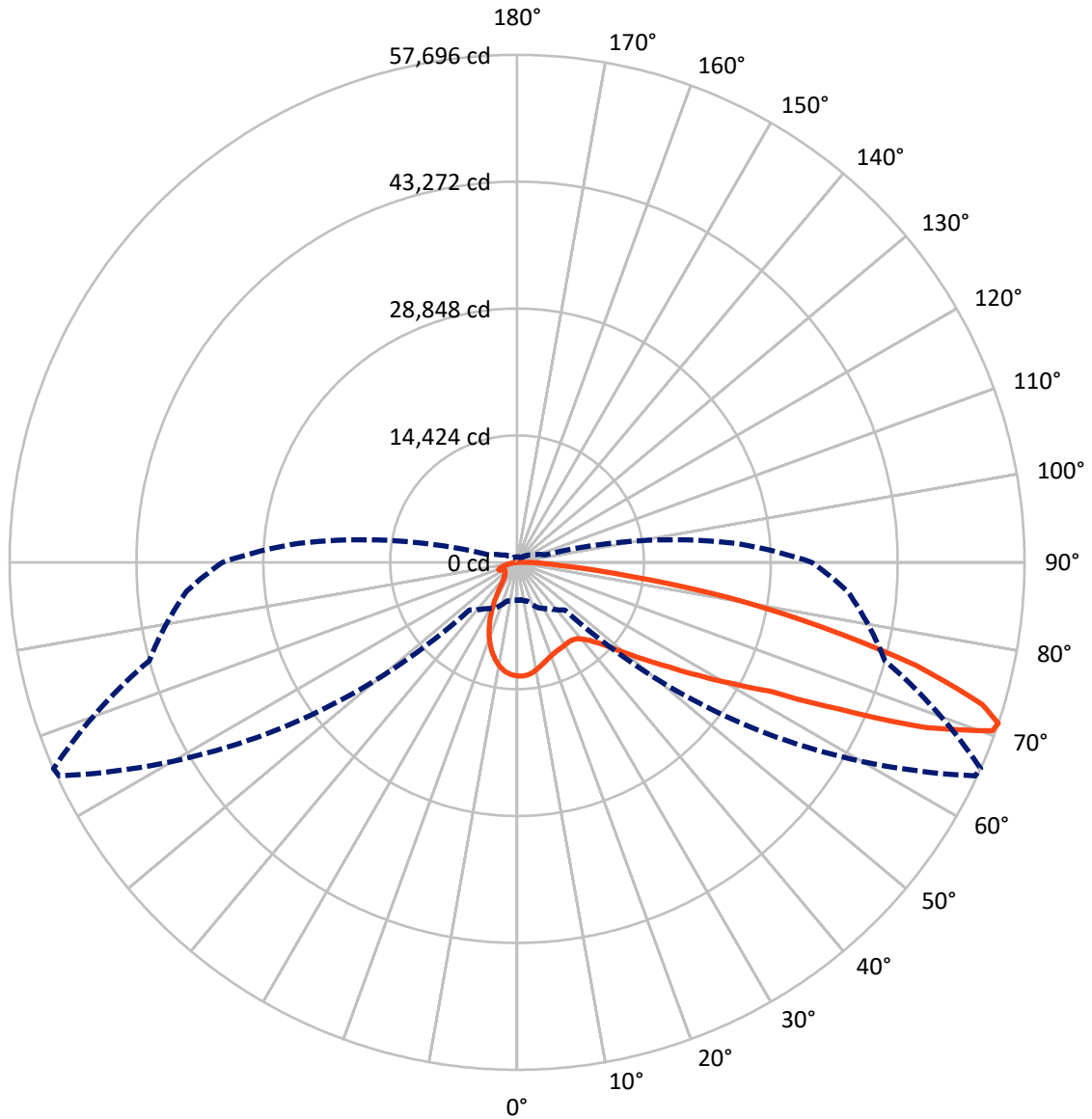
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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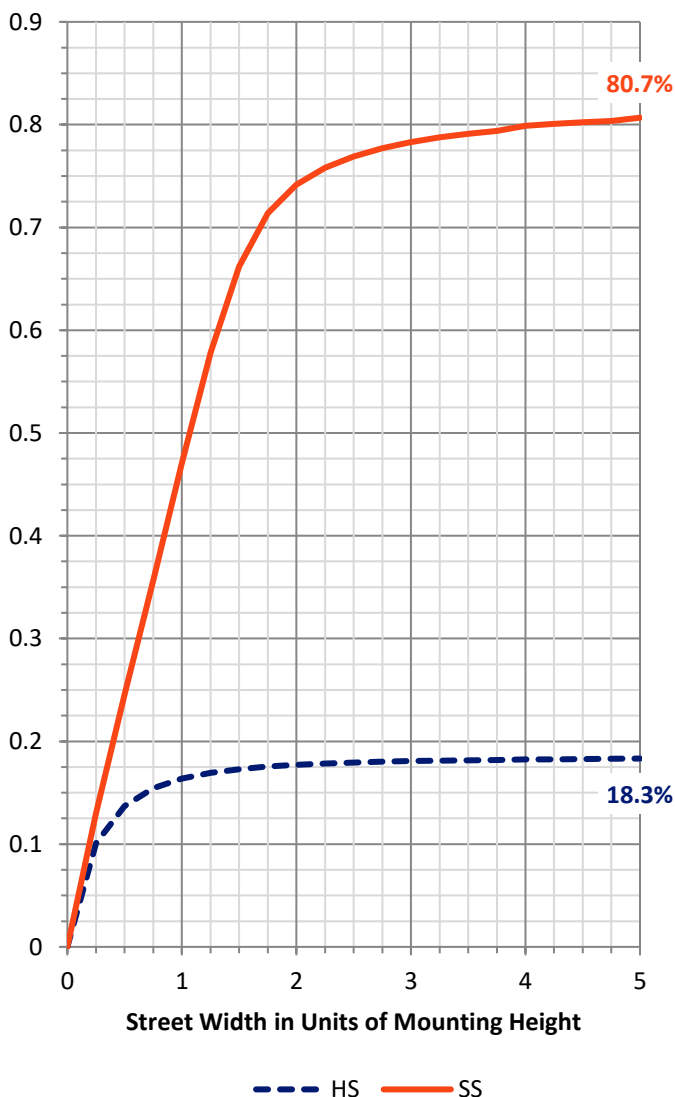
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10454.7 | 0.0 | 10454.7 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 45957.3 | 0.0 | 45957.3 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 56412.0 | 0.0 | 56412.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1137.5 | 2.0 |
| 10°-20° | 2728.3 | 4.8 |
| 20°-30° | 3664.8 | 6.5 |
| 30°-40° | 4820.9 | 8.5 |
| 40°-50° | 7013.2 | 12.4 |
| 50°-60° | 10955.3 | 19.4 |
| 60°-70° | 13723.3 | 24.3 |
| 70°-80° | 10467.8 | 18.6 |
| 80°-90° | 1900.9 | 3.4 |
| 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° | 56412.0 | 100.0 |
| 0°-180° | 56412.0 | 100.0 |

Coefficient of Utilization

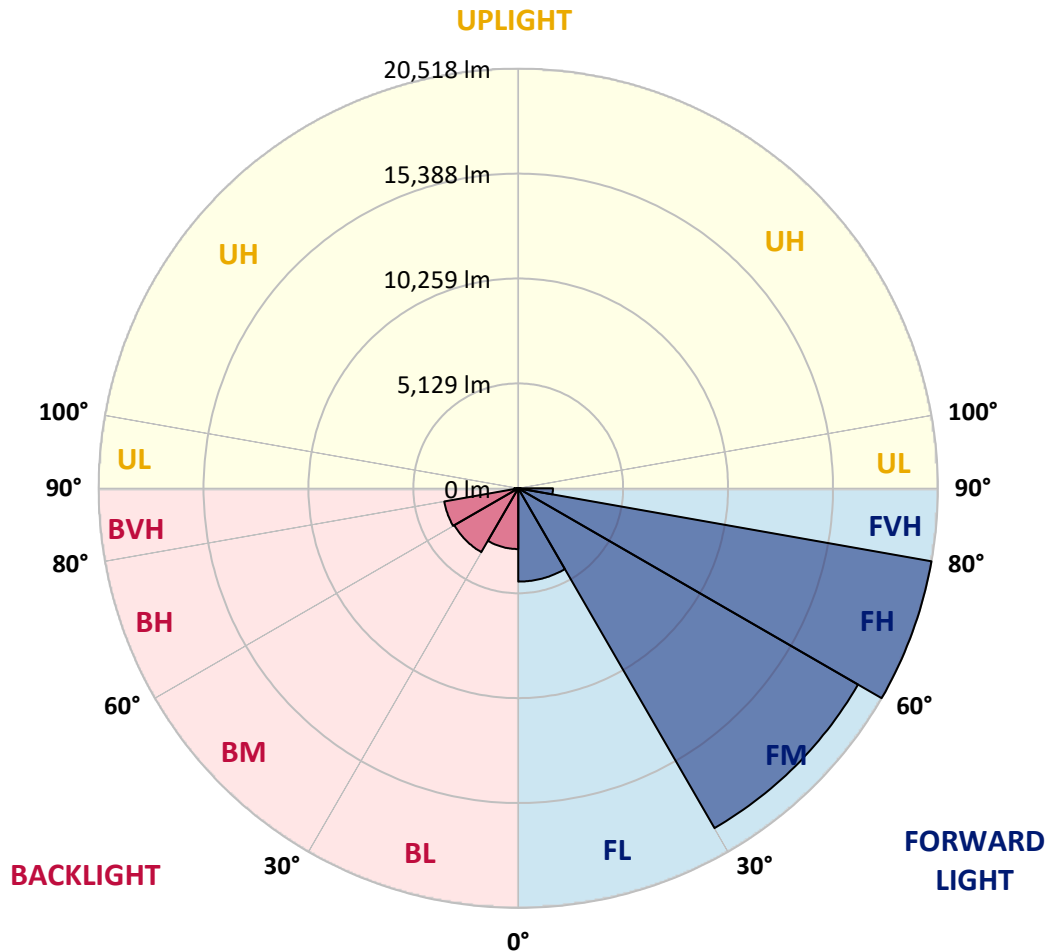


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4561.7 | 8.1 | | | |
| FM (30°-60°) | 19182.9 | 34.0 | | | |
| FH (60°-80°) | 20517.6 | 36.4 | | | G5 |
| FVH (80°-90°) | 1695.1 | 3.0 | | | G5 |
| BL (0°-30°) | 2968.9 | 5.3 | B4/5000 | | |
| BM (30°-60°) | 3606.5 | 6.4 | B3/5000 | | |
| BH (60°-80°) | 3673.5 | 6.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 205.8 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 |
| 2.5° | 12683.3 | 12663.9 | 12722.3 | 12782.7 | 12806.0 | 12845.0 | 12903.4 | 12936.5 | 12934.6 | 12940.4 | 12920.9 |
| 5° | 11841.9 | 11816.6 | 11933.5 | 12028.9 | 12212.0 | 12418.4 | 12669.7 | 12848.9 | 12852.8 | 12954.1 | 12981.3 |
| 7.5° | 11045.3 | 11027.8 | 11162.2 | 11316.1 | 11528.4 | 11843.9 | 12250.9 | 12636.6 | 12660.0 | 12934.6 | 13030.0 |
| 10° | 10406.5 | 10402.6 | 10533.1 | 10700.6 | 10947.9 | 11300.5 | 11767.9 | 12332.7 | 12367.8 | 12841.1 | 13037.8 |
| 12.5° | 9907.9 | 9915.7 | 10028.6 | 10219.5 | 10480.5 | 10848.6 | 11355.0 | 11991.9 | 12048.4 | 12693.1 | 12993.0 |
| 15° | 9539.8 | 9570.9 | 9662.5 | 9855.3 | 10112.4 | 10486.3 | 11006.4 | 11676.4 | 11762.1 | 12527.5 | 12967.7 |
| 17.5° | 9329.4 | 9364.5 | 9428.7 | 9588.5 | 9830.0 | 10190.3 | 10683.1 | 11417.3 | 11495.2 | 12400.9 | 12969.6 |
| 20° | 9267.1 | 9296.3 | 9333.3 | 9430.7 | 9635.2 | 9962.4 | 10427.9 | 11183.6 | 11267.4 | 12299.6 | 12989.1 |
| 22.5° | 9389.8 | 9411.2 | 9415.1 | 9407.3 | 9532.0 | 9798.8 | 10242.9 | 11012.2 | 11101.8 | 12233.4 | 13002.8 |
| 25° | 9652.7 | 9681.9 | 9660.5 | 9588.5 | 9547.6 | 9711.2 | 10147.4 | 10899.3 | 10988.8 | 12184.7 | 12975.5 |
| 27.5° | 10048.1 | 10052.0 | 10034.5 | 9941.0 | 9748.2 | 9720.9 | 10118.2 | 10833.0 | 10918.7 | 12128.2 | 12919.0 |
| 30° | 10585.7 | 10611.0 | 10579.8 | 10453.2 | 10137.7 | 9876.7 | 10153.3 | 10768.8 | 10846.7 | 12056.2 | 12827.5 |
| 32.5° | 11214.8 | 11277.1 | 11275.2 | 11142.7 | 10690.8 | 10225.4 | 10297.4 | 10729.8 | 10790.2 | 11980.2 | 12716.4 |
| 35° | 11867.3 | 11952.9 | 12112.7 | 12056.2 | 11497.2 | 10776.5 | 10574.0 | 10792.1 | 10833.0 | 11970.5 | 12638.5 |
| 37.5° | 12545.0 | 12630.7 | 12959.9 | 13111.8 | 12457.4 | 11565.4 | 11010.3 | 11012.2 | 11031.7 | 12089.3 | 12632.7 |
| 40° | 13254.0 | 13345.5 | 13840.3 | 14235.6 | 13702.0 | 12564.5 | 11713.4 | 11471.9 | 11450.4 | 12381.4 | 12747.6 |
| 42.5° | 14247.3 | 14329.1 | 14923.2 | 15427.6 | 15082.9 | 13844.2 | 12685.3 | 12180.8 | 12136.0 | 12954.1 | 13115.7 |
| 45° | 15503.6 | 15573.7 | 16204.7 | 16744.3 | 16567.0 | 15304.9 | 13906.5 | 13156.6 | 13148.8 | 13908.4 | 13861.7 |
| 47.5° | 16997.5 | 17052.0 | 17618.8 | 18140.7 | 18205.0 | 16985.8 | 15441.3 | 14662.2 | 14535.6 | 15217.3 | 15016.7 |
| 50° | 18553.7 | 18614.0 | 18999.7 | 19560.6 | 20037.8 | 19235.3 | 17416.2 | 16506.6 | 16337.2 | 16944.9 | 16652.7 |
| 52.5° | 19584.0 | 19663.8 | 19998.8 | 20709.7 | 22098.4 | 21701.1 | 19751.5 | 18742.6 | 18485.5 | 19038.6 | 18814.6 |
| 55° | 19124.3 | 19303.5 | 19815.8 | 20955.2 | 23746.2 | 25467.9 | 22632.1 | 21350.5 | 21060.3 | 21520.0 | 21387.5 |
| 57.5° | 17034.5 | 17279.9 | 17979.1 | 19737.9 | 23978.0 | 28786.8 | 26987.1 | 24422.0 | 24217.5 | 24085.1 | 24145.5 |
| 60° | 13215.0 | 13450.7 | 14317.4 | 16609.9 | 22363.3 | 31209.7 | 33541.1 | 28208.3 | 27912.3 | 26659.9 | 26714.5 |
| 62.5° | 9352.8 | 9234.0 | 9828.0 | 11505.0 | 18171.9 | 31494.1 | 40998.8 | 33272.3 | 32298.5 | 29378.9 | 29139.3 |
| 65° | 7132.4 | 7105.2 | 7372.0 | 7905.7 | 11006.4 | 28091.5 | 45441.5 | 41783.7 | 40262.6 | 32577.0 | 32012.2 |
| 67.5° | 5860.6 | 5811.9 | 6074.8 | 6852.0 | 7087.6 | 18123.2 | 45538.8 | 51658.5 | 50164.6 | 36558.1 | 35334.9 |
| 70° | 4818.6 | 4764.0 | 5009.4 | 6012.5 | 6550.1 | 9191.1 | 38326.6 | 57441.2 | 57361.3 | 41598.7 | 37843.5 |
| 71° | 4320.0 | 4281.0 | 4575.1 | 5689.2 | 6435.2 | 7660.2 | 33091.2 | 57456.7 | 57696.3 | 43304.9 | 37695.5 |
| 72.5° | 3517.5 | 3531.2 | 3842.8 | 5064.0 | 6349.5 | 6764.3 | 24320.8 | 54778.7 | 55285.1 | 44931.2 | 36349.7 |
| 75° | 2337.2 | 2348.9 | 2757.9 | 3895.4 | 6156.6 | 6618.2 | 13367.0 | 45965.4 | 46896.4 | 43957.3 | 33169.1 |
| 77.5° | 1569.8 | 1565.9 | 1844.5 | 2672.2 | 5363.9 | 6618.2 | 7837.5 | 34378.6 | 35401.1 | 34976.5 | 25571.2 |
| 80° | 1081.0 | 1073.2 | 1269.9 | 1844.5 | 4060.9 | 6698.1 | 6059.3 | 24092.9 | 24402.6 | 18888.7 | 10392.9 |
| 82.5° | 662.2 | 668.1 | 829.7 | 1303.0 | 2763.8 | 6028.1 | 5720.4 | 13137.1 | 12800.2 | 5297.7 | 2596.3 |
| 85° | 379.8 | 377.9 | 529.8 | 882.3 | 1774.3 | 5087.4 | 5578.2 | 5654.1 | 5186.7 | 1595.2 | 938.8 |
| 87.5° | 136.3 | 146.1 | 284.4 | 488.9 | 1016.7 | 3542.8 | 4732.9 | 2941.0 | 2650.8 | 720.6 | 424.6 |
| 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° | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 | 12922.9 |
| 2.5° | 12907.3 | 12919.0 | 12905.4 | 12827.5 | 12761.2 | 12654.1 | 12593.7 | 12510.0 | 12484.7 | 12473.0 | 12504.1 |
| 5° | 12956.0 | 12959.9 | 12845.0 | 12640.5 | 12410.7 | 12139.9 | 11945.2 | 11705.6 | 11592.6 | 11543.9 | 11575.1 |
| 7.5° | 13000.8 | 12983.3 | 12732.0 | 12340.5 | 11915.9 | 11444.6 | 11025.9 | 10642.2 | 10418.2 | 10326.6 | 10334.4 |
| 10° | 13006.6 | 12932.6 | 12529.5 | 11923.7 | 11265.4 | 10574.0 | 9931.3 | 9339.2 | 8965.2 | 8721.7 | 8795.8 |
| 12.5° | 12946.3 | 12821.6 | 12231.5 | 11384.2 | 10470.8 | 9528.1 | 8659.4 | 7771.3 | 7237.6 | 6990.2 | 6998.0 |
| 15° | 12899.5 | 12673.6 | 11865.3 | 10749.3 | 9522.2 | 8273.8 | 7087.6 | 6043.7 | 5474.9 | 5221.7 | 5102.9 |
| 17.5° | 12860.6 | 12513.9 | 11440.7 | 10034.5 | 8402.3 | 6818.8 | 5393.1 | 4462.1 | 4150.5 | 4076.5 | 4045.3 |
| 20° | 12806.0 | 12344.4 | 10967.4 | 9206.7 | 7126.6 | 5190.6 | 3938.2 | 3478.6 | 3480.5 | 3566.2 | 3577.9 |
| 22.5° | 12730.1 | 12151.6 | 10463.0 | 8277.7 | 5757.4 | 3780.5 | 3087.1 | 2954.6 | 3089.0 | 3252.6 | 3281.9 |
| 25° | 12617.1 | 11923.7 | 9902.0 | 7251.2 | 4390.1 | 2905.9 | 2637.2 | 2631.3 | 2794.9 | 2966.3 | 2991.6 |
| 27.5° | 12457.4 | 11625.7 | 9278.8 | 6148.8 | 3235.1 | 2469.7 | 2362.5 | 2403.4 | 2524.2 | 2648.9 | 2658.6 |
| 30° | 12243.2 | 11279.1 | 8591.2 | 4986.1 | 2535.9 | 2198.9 | 2187.3 | 2224.3 | 2298.3 | 2385.9 | 2393.7 |
| 32.5° | 12007.5 | 10926.5 | 7857.0 | 3860.3 | 2171.7 | 2052.9 | 2064.5 | 2082.1 | 2117.1 | 2152.2 | 2160.0 |
| 35° | 11793.2 | 10566.2 | 7105.2 | 2933.2 | 1998.3 | 1957.4 | 1949.6 | 1945.7 | 1949.6 | 1937.9 | 1939.9 |
| 37.5° | 11655.0 | 10268.2 | 6322.2 | 2335.3 | 1899.0 | 1873.7 | 1850.3 | 1821.1 | 1788.0 | 1768.5 | 1772.4 |
| 40° | 11604.3 | 10046.2 | 5529.5 | 2017.8 | 1817.2 | 1799.7 | 1754.9 | 1692.5 | 1653.6 | 1641.9 | 1641.9 |
| 42.5° | 11740.7 | 9931.3 | 4764.0 | 1858.1 | 1749.0 | 1719.8 | 1645.8 | 1573.7 | 1544.5 | 1542.6 | 1540.6 |
| 45° | 12157.5 | 9978.0 | 4035.6 | 1770.4 | 1686.7 | 1630.2 | 1532.8 | 1472.5 | 1453.0 | 1456.9 | 1454.9 |
| 47.5° | 12905.4 | 10272.1 | 3412.3 | 1712.0 | 1624.4 | 1550.4 | 1441.3 | 1392.6 | 1369.2 | 1369.2 | 1371.2 |
| 50° | 14177.2 | 10959.6 | 2915.7 | 1663.3 | 1571.8 | 1476.3 | 1375.1 | 1314.7 | 1283.5 | 1281.6 | 1281.6 |
| 52.5° | 16029.5 | 12190.6 | 2606.0 | 1622.4 | 1513.4 | 1410.1 | 1308.8 | 1232.9 | 1195.9 | 1188.1 | 1184.2 |
| 55° | 18351.1 | 13955.2 | 2520.3 | 1595.2 | 1435.4 | 1338.1 | 1229.0 | 1153.0 | 1112.1 | 1094.6 | 1092.7 |
| 57.5° | 20947.4 | 16101.5 | 2689.8 | 1562.0 | 1355.6 | 1252.4 | 1141.3 | 1069.3 | 1026.4 | 1005.0 | 1003.1 |
| 60° | 23574.8 | 18444.6 | 3381.2 | 1515.3 | 1289.4 | 1158.9 | 1051.8 | 985.5 | 942.7 | 919.3 | 915.4 |
| 62.5° | 26206.1 | 20914.3 | 4793.3 | 1511.4 | 1242.6 | 1069.3 | 960.2 | 903.7 | 862.8 | 837.5 | 831.7 |
| 65° | 29174.4 | 23617.6 | 6398.1 | 1614.6 | 1227.0 | 987.5 | 866.7 | 821.9 | 786.9 | 763.5 | 761.5 |
| 67.5° | 32582.8 | 26669.7 | 6244.3 | 1826.9 | 1279.6 | 913.5 | 779.1 | 744.0 | 718.7 | 699.2 | 697.3 |
| 70° | 34181.9 | 26192.5 | 3881.7 | 1976.9 | 1353.6 | 841.4 | 695.3 | 670.0 | 650.5 | 636.9 | 631.1 |
| 71° | 33511.9 | 24870.0 | 3254.6 | 1959.4 | 1345.9 | 810.2 | 662.2 | 642.7 | 623.3 | 611.6 | 605.7 |
| 72.5° | 31685.0 | 22680.8 | 2715.1 | 1823.0 | 1258.2 | 753.8 | 619.4 | 599.9 | 582.4 | 568.7 | 564.8 |
| 75° | 28432.3 | 20255.9 | 2173.6 | 1456.9 | 1003.1 | 636.9 | 543.4 | 522.0 | 508.3 | 500.6 | 492.8 |
| 77.5° | 20900.6 | 14455.7 | 1680.9 | 1151.1 | 738.2 | 520.0 | 463.5 | 448.0 | 434.3 | 422.6 | 416.8 |
| 80° | 8006.9 | 5599.6 | 1131.6 | 858.9 | 541.5 | 411.0 | 374.0 | 366.2 | 352.5 | 344.7 | 344.7 |
| 82.5° | 2156.1 | 1673.1 | 603.8 | 520.0 | 362.3 | 299.9 | 286.3 | 282.4 | 270.7 | 255.1 | 257.1 |
| 85° | 872.6 | 738.2 | 338.9 | 286.3 | 222.0 | 177.2 | 192.8 | 194.8 | 181.1 | 161.7 | 163.6 |
| 87.5° | 383.7 | 313.6 | 188.9 | 126.6 | 97.4 | 68.2 | 87.6 | 87.6 | 79.9 | 66.2 | 60.4 |
| 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)