

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: P318688

Luminaire Tested: **GAN-SA4C-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26141 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

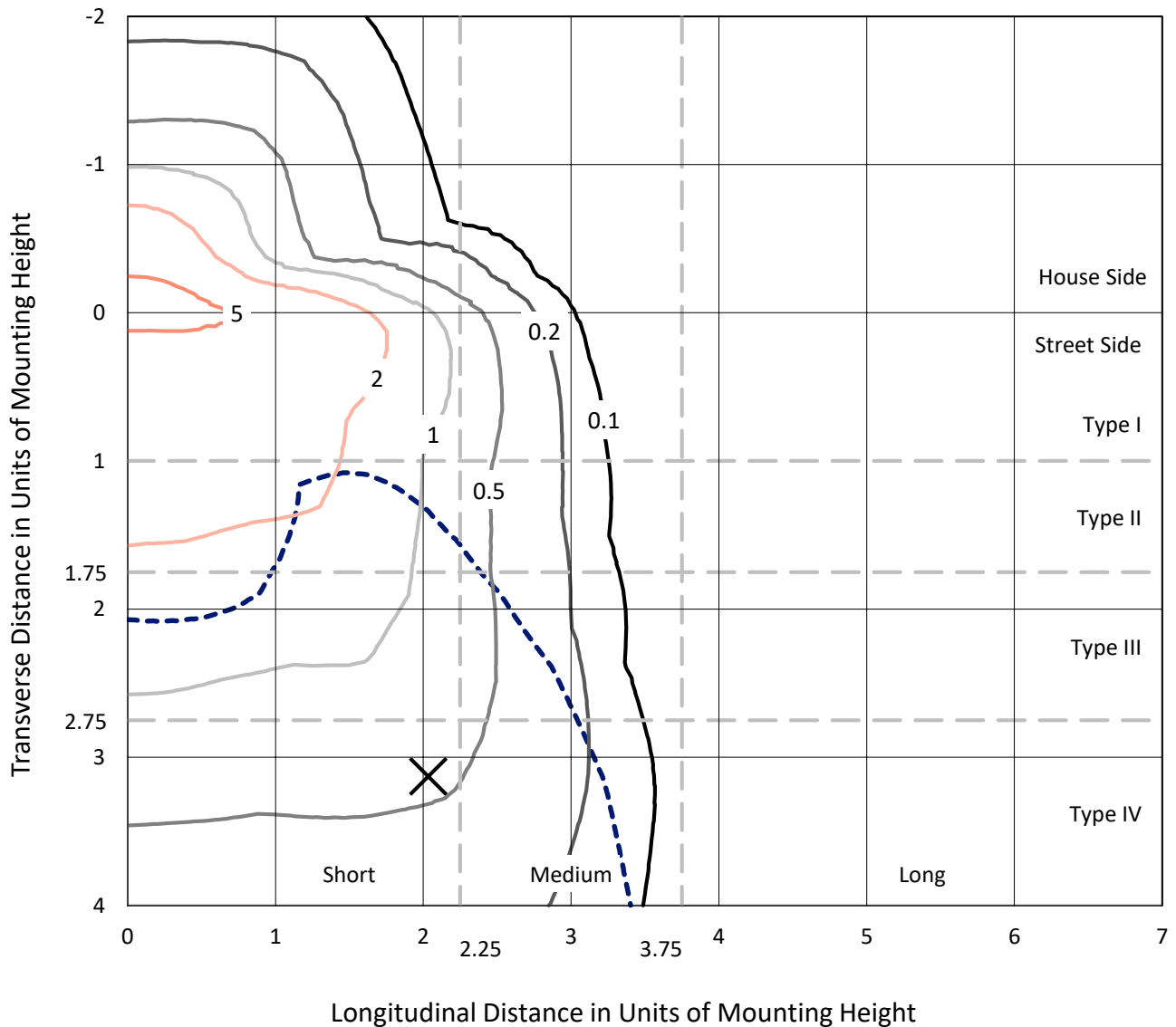
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

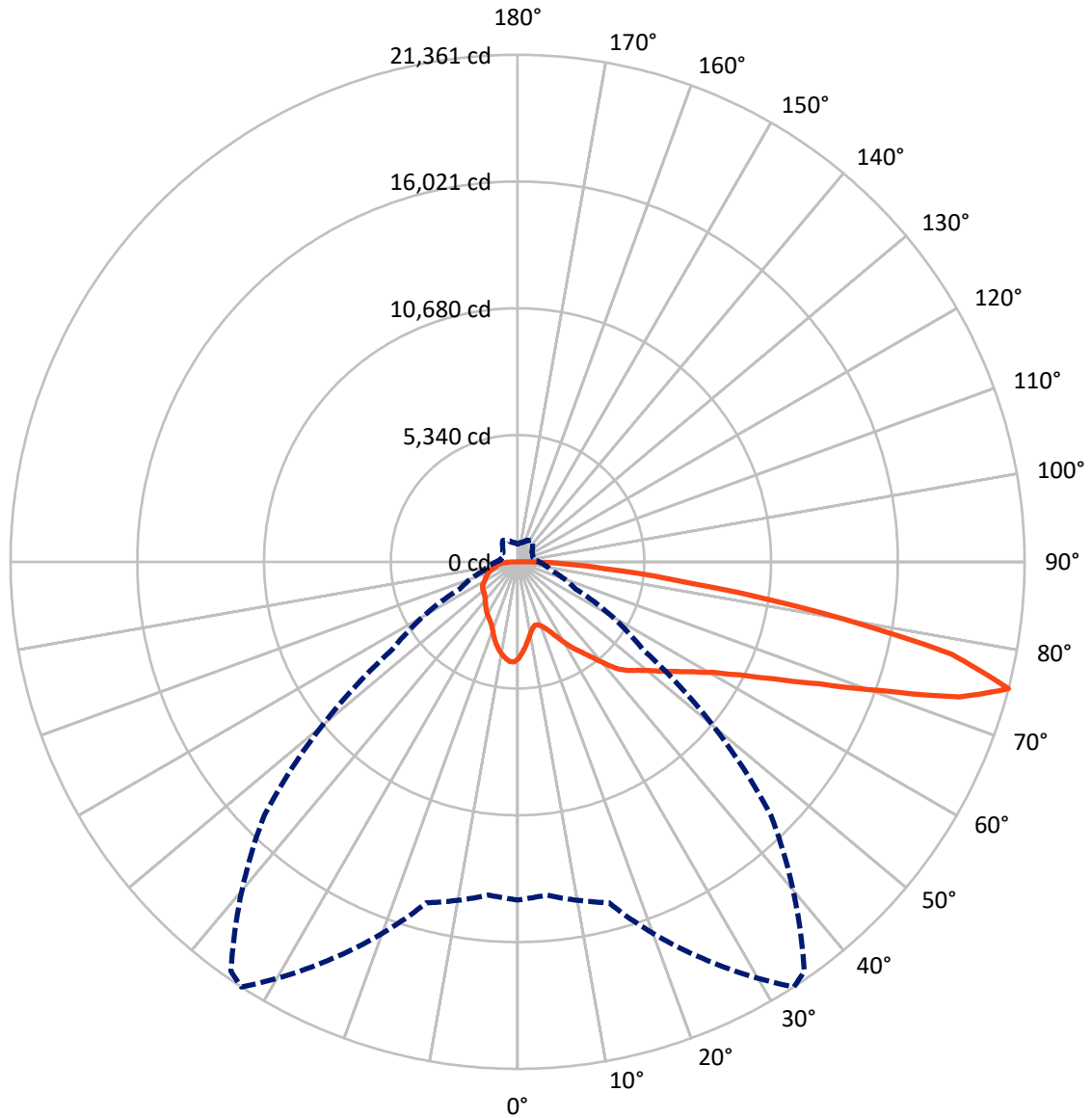
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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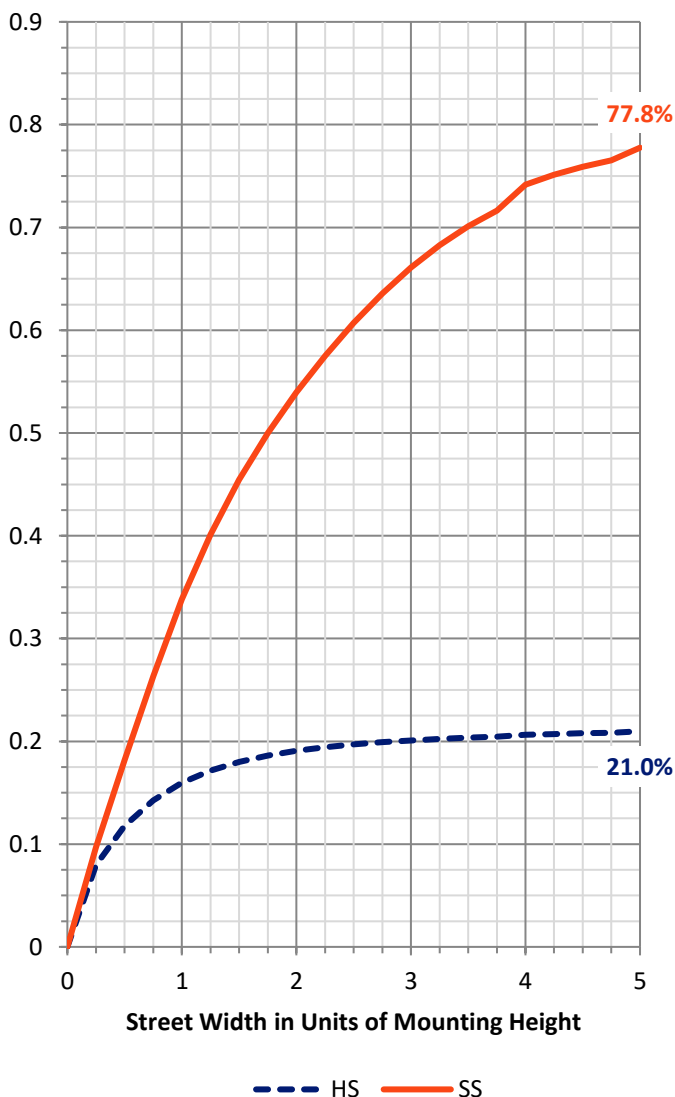
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5613.2 | 0.0 | 5613.2 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 20527.8 | 0.0 | 20527.8 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 26141.0 | 0.0 | 26141.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 369.5 | 1.4 |
| 10°-20° | 1000.8 | 3.8 |
| 20°-30° | 1634.5 | 6.3 |
| 30°-40° | 2434.2 | 9.3 |
| 40°-50° | 3491.2 | 13.4 |
| 50°-60° | 4792.9 | 18.3 |
| 60°-70° | 6000.6 | 23.0 |
| 70°-80° | 5428.4 | 20.8 |
| 80°-90° | 988.8 | 3.8 |
| 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° | 26141.0 | 100.0 |
| 0°-180° | 26141.0 | 100.0 |

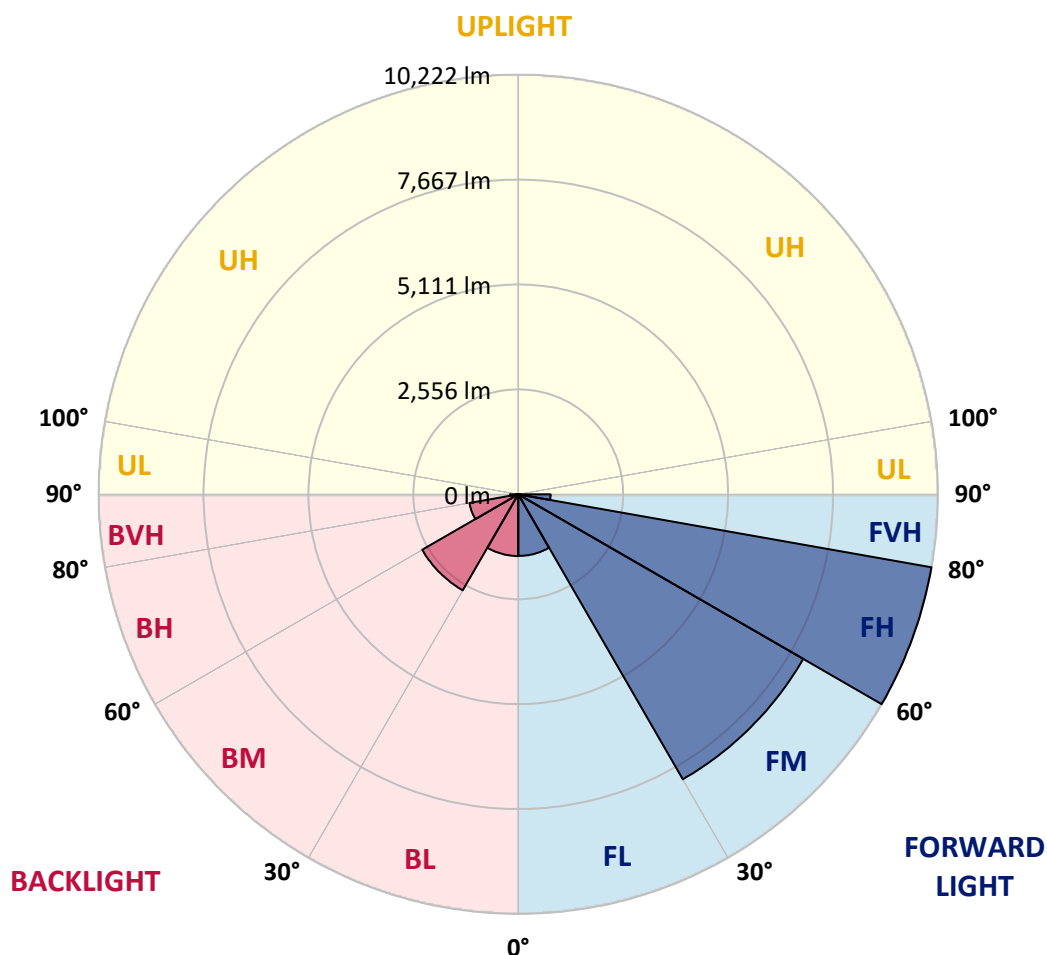


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1501.4 | 5.7 | | | |
| FM (30°-60°) | 8016.9 | 30.7 | | | |
| FH (60°-80°) | 10222.0 | 39.1 | | | G4/12000 |
| FVH (80°-90°) | 787.5 | 3.0 | | | G5 |
| BL (0°-30°) | 1503.5 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 2701.5 | 10.3 | B3/5000 | | |
| BH (60°-80°) | 1206.9 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 201.3 | 0.8 | | | G2/225 |
| 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° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0° | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 |
| 2.5° | 3794.3 | 3779.9 | 3807.0 | 3810.6 | 3834.1 | 3843.1 | 3875.6 | 3926.2 | 3967.7 | 4015.6 | 4058.9 |
| 5° | 3450.3 | 3440.4 | 3478.3 | 3505.4 | 3556.8 | 3578.5 | 3655.3 | 3762.7 | 3858.4 | 3966.8 | 4065.2 |
| 7.5° | 3123.4 | 3118.0 | 3160.4 | 3221.8 | 3281.4 | 3311.2 | 3444.0 | 3600.2 | 3760.0 | 3935.2 | 4086.0 |
| 10° | 2848.0 | 2846.2 | 2886.8 | 2947.3 | 3034.9 | 3068.3 | 3239.9 | 3445.8 | 3669.7 | 3910.8 | 4121.2 |
| 12.5° | 2693.6 | 2699.9 | 2718.9 | 2769.4 | 2850.7 | 2884.1 | 3074.6 | 3316.6 | 3593.9 | 3902.7 | 4172.7 |
| 15° | 2731.5 | 2741.4 | 2708.9 | 2707.1 | 2764.9 | 2791.1 | 2969.9 | 3224.5 | 3539.7 | 3916.2 | 4247.6 |
| 17.5° | 2893.1 | 2895.0 | 2809.2 | 2755.0 | 2790.2 | 2803.8 | 2937.4 | 3172.2 | 3508.1 | 3946.9 | 4341.5 |
| 20° | 3120.7 | 3116.2 | 2964.5 | 2874.2 | 2893.1 | 2896.8 | 2983.4 | 3173.1 | 3505.4 | 4000.2 | 4463.4 |
| 22.5° | 3422.3 | 3388.9 | 3184.8 | 3062.0 | 3057.5 | 3052.1 | 3101.7 | 3239.9 | 3545.1 | 4086.9 | 4608.8 |
| 25° | 3816.0 | 3784.4 | 3503.6 | 3335.6 | 3299.5 | 3285.9 | 3293.2 | 3382.6 | 3623.7 | 4179.9 | 4771.3 |
| 27.5° | 4253.9 | 4198.9 | 3928.0 | 3690.5 | 3615.5 | 3596.6 | 3553.2 | 3583.9 | 3709.4 | 4269.3 | 4964.6 |
| 30° | 4620.5 | 4590.8 | 4354.2 | 4072.4 | 3983.9 | 3956.9 | 3843.1 | 3809.7 | 3833.2 | 4391.2 | 5208.4 |
| 32.5° | 4825.5 | 4805.7 | 4662.1 | 4434.5 | 4352.4 | 4314.4 | 4153.7 | 4086.9 | 4031.8 | 4583.5 | 5538.9 |
| 35° | 5073.8 | 5061.2 | 4974.5 | 4809.3 | 4687.4 | 4647.6 | 4523.0 | 4453.5 | 4311.7 | 4848.1 | 5966.0 |
| 37.5° | 5389.9 | 5376.3 | 5378.1 | 5244.5 | 5099.1 | 5062.1 | 4979.9 | 4906.8 | 4674.7 | 5195.7 | 6430.1 |
| 40° | 5747.5 | 5721.3 | 5711.3 | 5705.0 | 5612.9 | 5592.2 | 5548.8 | 5449.5 | 5129.8 | 5611.1 | 6887.9 |
| 42.5° | 6285.6 | 6192.6 | 5994.0 | 6068.9 | 6160.1 | 6149.3 | 6184.5 | 6041.8 | 5635.5 | 6102.3 | 7334.9 |
| 45° | 6804.9 | 6652.3 | 6309.1 | 6325.4 | 6524.9 | 6585.4 | 6849.1 | 6748.0 | 6183.6 | 6640.5 | 7797.2 |
| 47.5° | 7041.4 | 6925.9 | 6634.2 | 6635.1 | 6832.9 | 6958.4 | 7536.3 | 7464.0 | 6759.7 | 7251.8 | 8361.6 |
| 50° | 7306.0 | 7190.4 | 6928.6 | 7027.0 | 7199.5 | 7333.1 | 8200.0 | 8162.9 | 7307.8 | 7920.9 | 9037.9 |
| 52.5° | 7595.0 | 7399.0 | 7232.9 | 7409.0 | 7651.0 | 7806.3 | 8864.6 | 8763.4 | 7810.8 | 8594.6 | 9815.4 |
| 55° | 7598.6 | 7545.3 | 7671.7 | 7800.8 | 8162.9 | 8353.5 | 9560.8 | 9293.5 | 8220.7 | 9256.4 | 10448.4 |
| 57.5° | 8031.1 | 7944.4 | 8212.6 | 8272.2 | 8745.4 | 8960.3 | 10253.3 | 9754.9 | 8637.9 | 9763.9 | 10789.7 |
| 60° | 8603.6 | 8529.5 | 8749.0 | 8906.1 | 9465.9 | 9753.1 | 10992.9 | 10229.0 | 8965.7 | 10146.8 | 10773.5 |
| 62.5° | 9592.4 | 9508.4 | 9505.7 | 9726.0 | 10480.0 | 10814.1 | 11822.7 | 10694.0 | 9095.7 | 10222.6 | 10313.8 |
| 65° | 11039.8 | 10906.2 | 10654.3 | 10759.0 | 11880.5 | 12213.7 | 12750.1 | 11030.8 | 8924.2 | 9816.3 | 9130.0 |
| 67.5° | 12448.5 | 12444.0 | 12134.2 | 12349.2 | 13729.8 | 13997.1 | 13806.6 | 11064.2 | 8388.7 | 8401.3 | 7029.7 |
| 70° | 13852.6 | 13870.7 | 13818.3 | 14566.0 | 16228.4 | 16506.5 | 14931.7 | 10615.4 | 7185.0 | 6067.1 | 4211.5 |
| 72.5° | 14965.1 | 14960.6 | 15224.2 | 17152.1 | 19471.0 | 19408.7 | 15879.8 | 9255.5 | 5158.7 | 3275.1 | 2012.7 |
| 75° | 14244.5 | 14087.4 | 14873.0 | 18432.5 | 21360.9 | 21056.6 | 15073.4 | 6456.3 | 2677.3 | 1490.8 | 1083.6 |
| 77.5° | 9290.8 | 9439.8 | 10592.9 | 15227.0 | 18684.5 | 18314.2 | 11058.8 | 3012.3 | 1261.5 | 977.9 | 785.6 |
| 80° | 3364.5 | 3521.6 | 4960.1 | 8625.3 | 12872.9 | 12812.4 | 5445.9 | 1238.0 | 853.3 | 738.6 | 572.5 |
| 82.5° | 1157.6 | 1215.4 | 1956.8 | 3830.4 | 7268.1 | 7539.0 | 2048.9 | 703.4 | 620.3 | 523.7 | 391.9 |
| 85° | 454.2 | 520.1 | 894.9 | 1843.0 | 3666.1 | 3693.2 | 829.8 | 420.8 | 431.6 | 343.1 | 214.9 |
| 87.5° | 172.5 | 209.5 | 428.0 | 856.0 | 1674.1 | 1537.8 | 297.1 | 200.5 | 245.6 | 204.1 | 102.0 |
| 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° | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 | 4086.0 |
| 2.5° | 4092.3 | 4111.3 | 4151.0 | 4178.1 | 4207.0 | 4215.1 | 4218.7 | 4225.9 | 4233.2 | 4230.5 | 4231.4 |
| 5° | 4117.6 | 4154.6 | 4218.7 | 4245.8 | 4258.5 | 4244.0 | 4216.0 | 4193.4 | 4177.2 | 4168.2 | 4165.4 |
| 7.5° | 4159.1 | 4211.5 | 4280.1 | 4275.6 | 4246.7 | 4182.6 | 4110.4 | 4056.2 | 4011.0 | 3994.8 | 3985.8 |
| 10° | 4214.2 | 4275.6 | 4323.5 | 4272.0 | 4188.0 | 4077.0 | 3968.6 | 3884.6 | 3816.9 | 3790.7 | 3786.2 |
| 12.5° | 4284.6 | 4346.9 | 4356.0 | 4246.7 | 4107.7 | 3956.0 | 3808.8 | 3697.7 | 3596.6 | 3564.1 | 3556.8 |
| 15° | 4375.8 | 4434.5 | 4378.6 | 4202.5 | 4008.3 | 3804.3 | 3613.7 | 3462.9 | 3356.4 | 3316.6 | 3302.2 |
| 17.5° | 4471.6 | 4527.5 | 4383.1 | 4129.3 | 3878.3 | 3624.6 | 3385.3 | 3230.9 | 3109.0 | 3062.9 | 3057.5 |
| 20° | 4586.2 | 4611.5 | 4364.1 | 4024.6 | 3699.5 | 3391.6 | 3139.7 | 2994.3 | 2929.3 | 2896.8 | 2893.1 |
| 22.5° | 4728.0 | 4700.9 | 4320.8 | 3882.8 | 3472.9 | 3122.5 | 2917.5 | 2849.8 | 2833.6 | 2826.3 | 2829.0 |
| 25° | 4877.9 | 4794.8 | 4256.6 | 3697.7 | 3186.6 | 2853.4 | 2755.0 | 2774.0 | 2795.6 | 2792.9 | 2792.9 |
| 27.5° | 5043.1 | 4890.5 | 4158.2 | 3452.1 | 2869.7 | 2633.1 | 2644.8 | 2714.4 | 2746.9 | 2746.0 | 2745.1 |
| 30° | 5255.3 | 4998.9 | 4032.7 | 3156.8 | 2573.5 | 2477.8 | 2549.1 | 2634.0 | 2678.2 | 2676.4 | 2677.3 |
| 32.5° | 5516.3 | 5118.1 | 3862.0 | 2827.2 | 2359.5 | 2363.1 | 2445.3 | 2529.2 | 2580.7 | 2576.2 | 2577.1 |
| 35° | 5821.5 | 5251.7 | 3630.9 | 2502.2 | 2217.7 | 2271.9 | 2336.9 | 2395.6 | 2444.4 | 2438.0 | 2431.7 |
| 37.5° | 6153.8 | 5382.7 | 3323.9 | 2211.4 | 2102.1 | 2187.0 | 2241.2 | 2251.1 | 2273.7 | 2257.5 | 2245.7 |
| 40° | 6469.9 | 5482.9 | 2928.4 | 1973.0 | 1985.7 | 2114.8 | 2150.0 | 2110.3 | 2069.6 | 2064.2 | 2048.0 |
| 42.5° | 6745.3 | 5516.3 | 2528.3 | 1782.5 | 1862.8 | 2038.9 | 2060.6 | 1977.5 | 1904.4 | 1870.1 | 1855.6 |
| 45° | 7036.0 | 5528.0 | 2155.4 | 1622.7 | 1744.6 | 1971.2 | 1994.7 | 1883.6 | 1780.7 | 1706.6 | 1682.3 |
| 47.5° | 7416.2 | 5612.9 | 1865.6 | 1504.4 | 1654.3 | 1926.1 | 1959.5 | 1808.7 | 1675.0 | 1569.4 | 1546.8 |
| 50° | 7913.7 | 5780.9 | 1629.9 | 1414.1 | 1595.6 | 1896.3 | 1934.2 | 1735.5 | 1588.3 | 1461.0 | 1438.4 |
| 52.5° | 8466.3 | 5935.3 | 1439.4 | 1340.9 | 1538.7 | 1843.9 | 1901.7 | 1683.2 | 1507.1 | 1360.8 | 1336.4 |
| 55° | 8852.8 | 5817.0 | 1285.8 | 1265.1 | 1464.6 | 1768.9 | 1856.5 | 1638.9 | 1390.6 | 1263.3 | 1241.6 |
| 57.5° | 8926.9 | 5412.5 | 1169.4 | 1186.5 | 1375.2 | 1675.0 | 1787.0 | 1540.5 | 1327.4 | 1220.8 | 1198.3 |
| 60° | 8724.6 | 4849.0 | 1082.7 | 1114.3 | 1279.5 | 1556.7 | 1657.0 | 1471.0 | 1266.9 | 1175.7 | 1156.7 |
| 62.5° | 8216.2 | 4272.0 | 1018.6 | 1049.3 | 1190.1 | 1436.6 | 1575.7 | 1397.8 | 1205.5 | 1124.2 | 1105.2 |
| 65° | 7189.5 | 3586.6 | 957.2 | 991.5 | 1107.1 | 1332.8 | 1502.6 | 1330.1 | 1145.0 | 1082.7 | 1064.6 |
| 67.5° | 5426.9 | 2686.4 | 899.4 | 930.1 | 1033.0 | 1242.5 | 1423.1 | 1263.3 | 1086.3 | 1046.6 | 1024.9 |
| 70° | 3195.6 | 1682.3 | 833.5 | 866.0 | 955.4 | 1148.6 | 1338.2 | 1190.1 | 1013.1 | 995.1 | 967.1 |
| 72.5° | 1487.2 | 1012.2 | 758.5 | 790.1 | 857.8 | 1023.1 | 1229.0 | 1094.4 | 926.5 | 886.7 | 848.8 |
| 75° | 887.6 | 740.4 | 670.0 | 698.0 | 745.9 | 889.4 | 1091.7 | 996.9 | 844.3 | 791.9 | 752.2 |
| 77.5° | 663.7 | 566.2 | 572.5 | 602.3 | 641.1 | 778.4 | 967.1 | 920.1 | 781.1 | 740.4 | 713.4 |
| 80° | 477.7 | 429.8 | 466.8 | 499.3 | 540.0 | 707.9 | 926.5 | 850.6 | 706.1 | 652.0 | 626.7 |
| 82.5° | 318.8 | 308.8 | 351.3 | 384.7 | 424.4 | 619.4 | 870.5 | 745.0 | 603.2 | 534.6 | 478.6 |
| 85° | 176.1 | 186.0 | 236.6 | 251.0 | 285.3 | 436.1 | 713.4 | 598.7 | 454.2 | 365.7 | 349.5 |
| 87.5° | 73.1 | 85.8 | 127.3 | 122.8 | 151.7 | 260.1 | 469.5 | 361.2 | 289.0 | 215.8 | 168.0 |
| 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)