

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: P383476

Luminaire Tested: **GAN-SA7D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41493 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

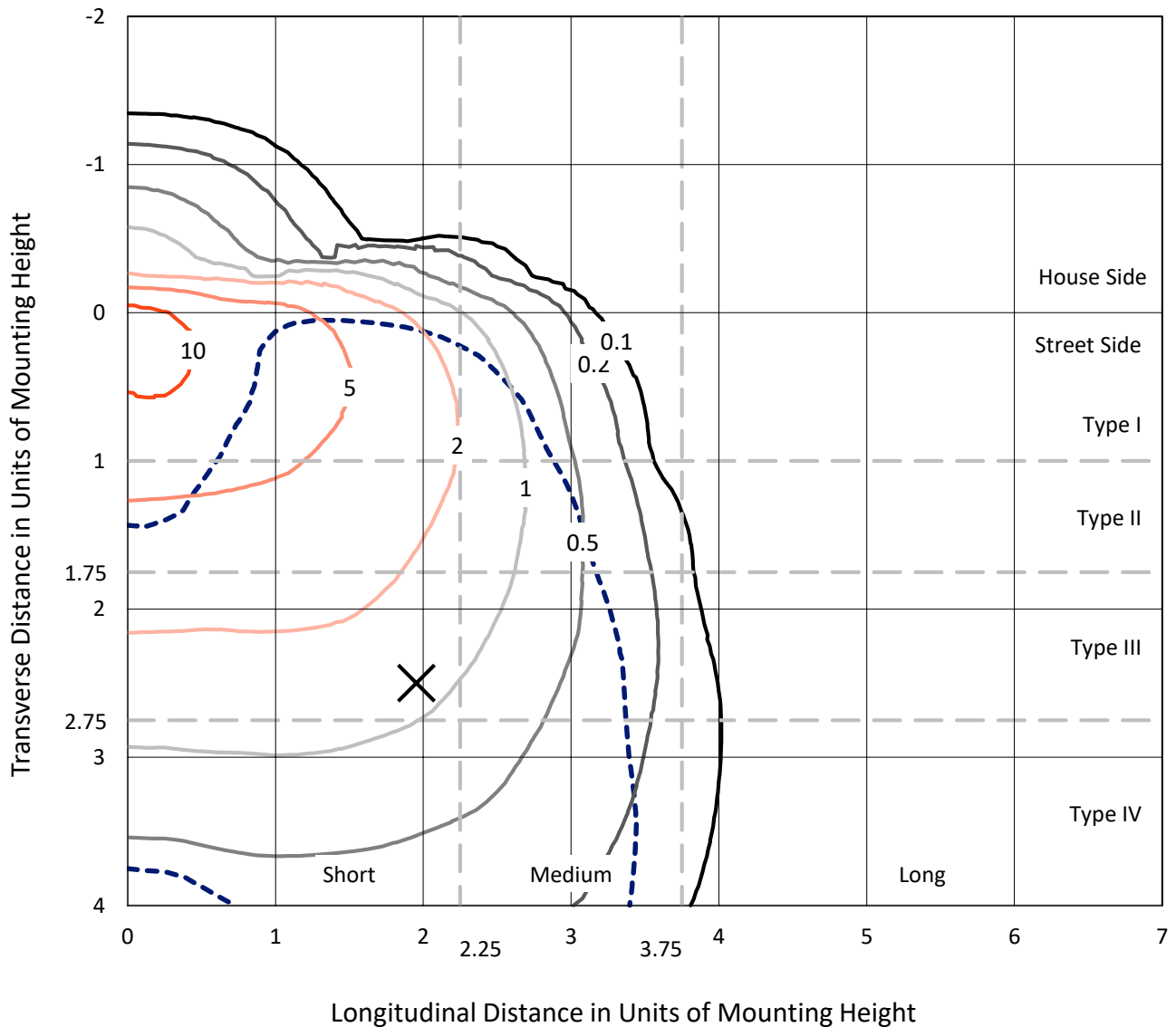
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

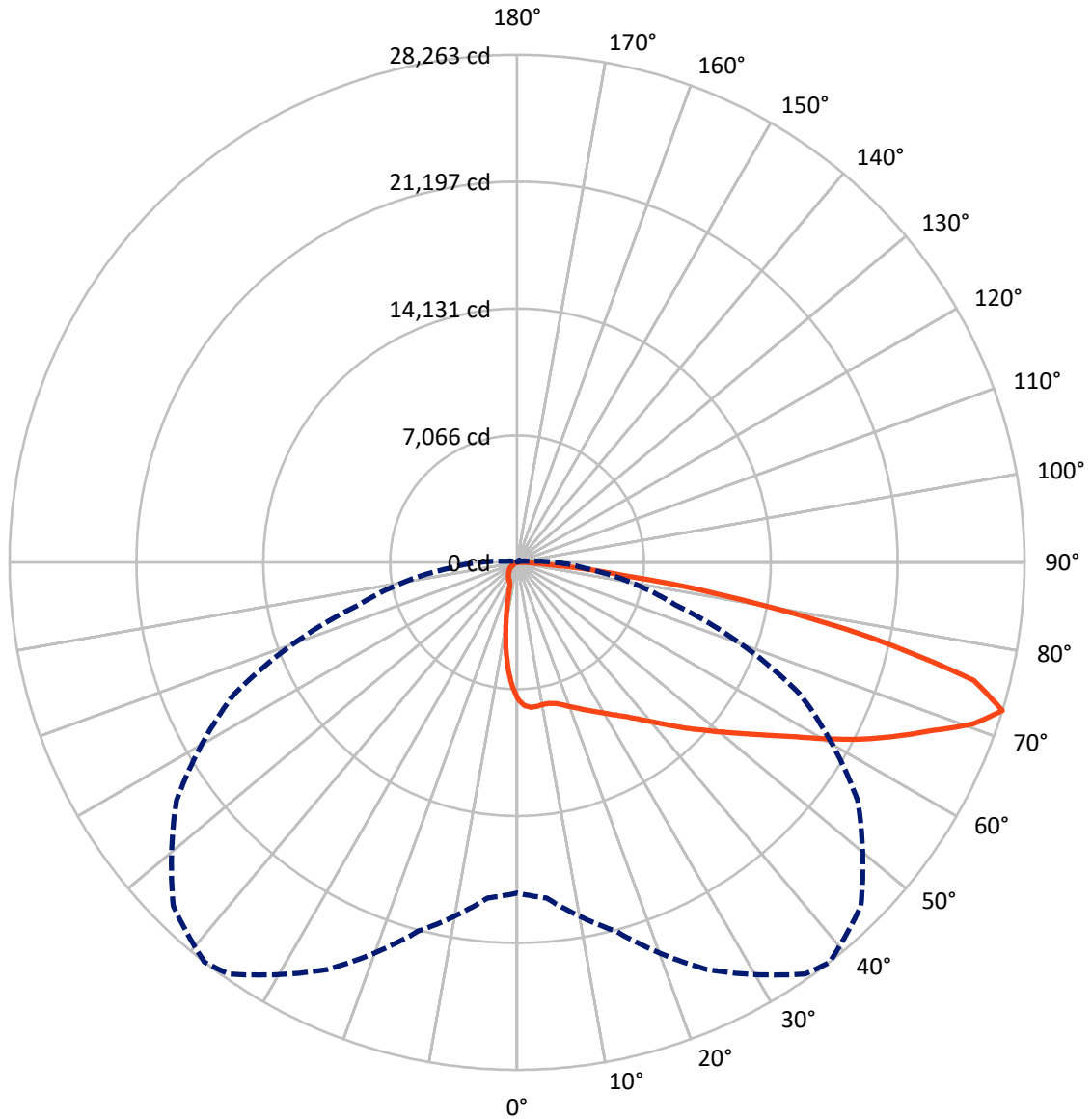
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3491.8 | 0.0 | 3491.8 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 38001.2 | 0.0 | 38001.2 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 41493.0 | 0.0 | 41493.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 650.3 | 1.6 |
| 10°-20° | 1590.0 | 3.8 |
| 20°-30° | 2528.9 | 6.1 |
| 30°-40° | 3801.9 | 9.2 |
| 40°-50° | 5800.1 | 14.0 |
| 50°-60° | 8197.5 | 19.8 |
| 60°-70° | 10282.5 | 24.8 |
| 70°-80° | 7688.4 | 18.5 |
| 80°-90° | 953.3 | 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° | 41493.0 | 100.0 |
| 0°-180° | 41493.0 | 100.0 |

Coefficient of Utilization



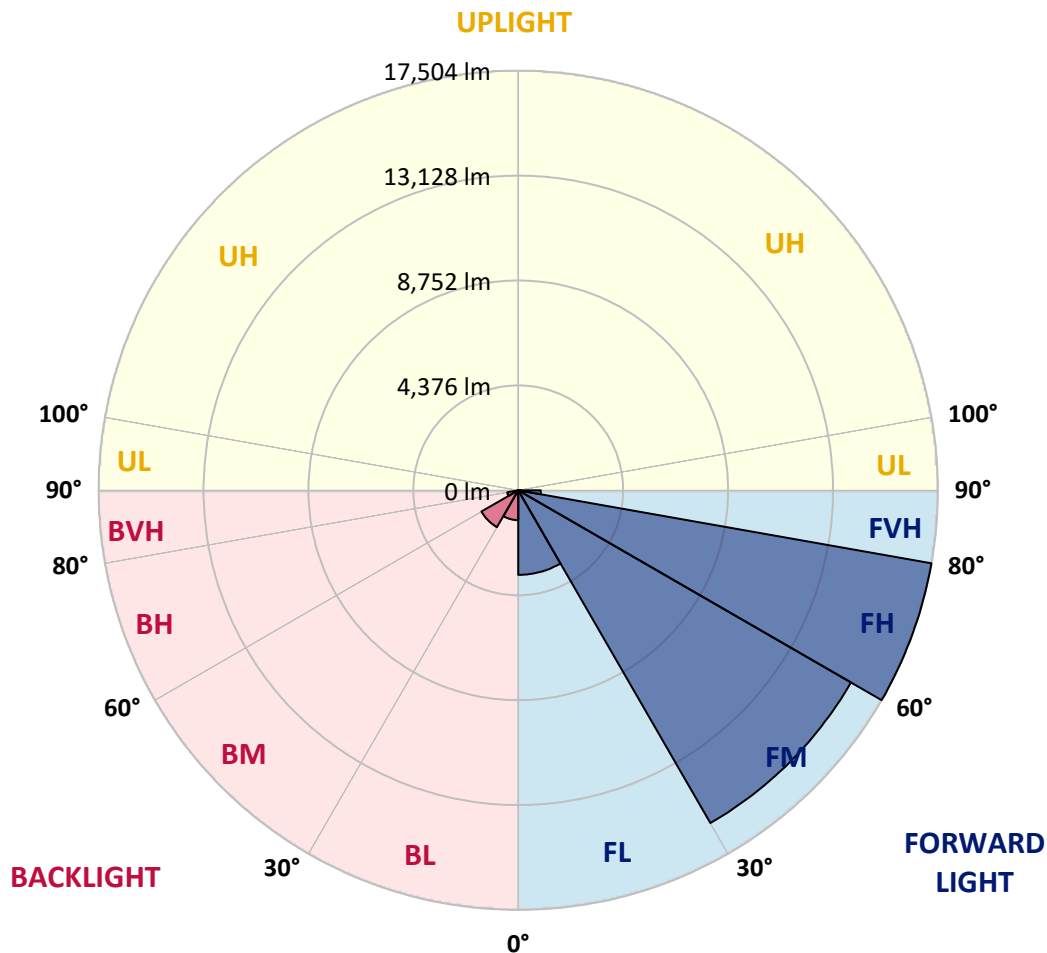
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3525.9 | 8.5 | | | |
| FM (30°-60°) | 16026.4 | 38.6 | | | |
| FH (60°-80°) | 17504.4 | 42.2 | | | G5 |
| FVH (80°-90°) | 944.4 | 2.3 | | | G5 |
| BL (0°-30°) | 1243.3 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 1773.2 | 4.3 | B2/2500 | | |
| BH (60°-80°) | 466.4 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.9 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 |
| 2.5° | 8099.2 | 8100.8 | 8081.9 | 8050.9 | 8011.2 | 7990.5 | 7956.1 | 7901.0 | 7842.4 | 7737.2 | 7623.5 |
| 5° | 8264.6 | 8264.6 | 8240.5 | 8199.1 | 8135.3 | 8116.4 | 8050.9 | 7963.0 | 7842.4 | 7671.8 | 7480.5 |
| 7.5° | 8247.4 | 8250.8 | 8218.0 | 8175.0 | 8111.2 | 8093.9 | 8014.7 | 7916.5 | 7766.6 | 7559.8 | 7315.1 |
| 10° | 8157.7 | 8166.3 | 8140.5 | 8119.8 | 8061.2 | 8042.2 | 7968.2 | 7870.0 | 7720.0 | 7499.4 | 7218.6 |
| 12.5° | 8066.4 | 8075.0 | 8083.6 | 8102.6 | 8066.4 | 8059.5 | 8000.9 | 7918.2 | 7775.2 | 7546.0 | 7228.9 |
| 15° | 8007.8 | 8025.0 | 8087.0 | 8161.2 | 8169.8 | 8162.9 | 8125.0 | 8047.5 | 7902.7 | 7664.9 | 7303.1 |
| 17.5° | 8007.8 | 8035.3 | 8164.6 | 8306.0 | 8355.9 | 8361.1 | 8328.3 | 8219.8 | 8047.5 | 7792.4 | 7371.9 |
| 20° | 8075.0 | 8112.9 | 8314.5 | 8514.4 | 8597.2 | 8597.2 | 8533.3 | 8381.8 | 8180.1 | 7907.9 | 7418.5 |
| 22.5° | 8247.4 | 8297.3 | 8550.6 | 8781.5 | 8869.5 | 8850.4 | 8764.3 | 8543.7 | 8318.0 | 8038.8 | 7477.1 |
| 25° | 8586.8 | 8624.7 | 8888.4 | 9121.0 | 9174.4 | 9131.3 | 9022.8 | 8740.2 | 8493.8 | 8216.3 | 7583.9 |
| 27.5° | 9024.6 | 9029.7 | 9302.0 | 9498.4 | 9465.6 | 9436.4 | 9300.2 | 8986.6 | 8747.0 | 8469.6 | 7768.3 |
| 30° | 9505.3 | 9505.3 | 9744.8 | 9894.7 | 9794.8 | 9770.6 | 9634.5 | 9284.7 | 9071.0 | 8814.3 | 8030.2 |
| 32.5° | 9970.5 | 9991.2 | 10186.0 | 10280.7 | 10168.8 | 10144.6 | 10011.9 | 9662.1 | 9501.9 | 9339.9 | 8438.6 |
| 35° | 10420.3 | 10435.8 | 10620.2 | 10671.9 | 10565.1 | 10571.9 | 10477.2 | 10180.8 | 10120.5 | 10099.8 | 9053.8 |
| 37.5° | 10856.3 | 10859.7 | 11047.6 | 11080.3 | 11026.9 | 11085.5 | 11094.1 | 10832.1 | 10944.2 | 11111.3 | 9920.6 |
| 40° | 11254.4 | 11257.8 | 11443.9 | 11528.4 | 11619.7 | 11695.5 | 11762.7 | 11623.1 | 11993.6 | 12381.4 | 10952.8 |
| 42.5° | 11573.2 | 11609.3 | 11845.5 | 12005.7 | 12247.0 | 12391.7 | 12574.3 | 12567.4 | 13243.0 | 13825.4 | 12200.4 |
| 45° | 11854.0 | 11916.1 | 12245.2 | 12526.1 | 12939.7 | 13170.6 | 13456.7 | 13680.6 | 14649.1 | 15433.1 | 13463.6 |
| 47.5° | 12224.5 | 12283.1 | 12658.8 | 13118.9 | 13670.3 | 13973.6 | 14447.5 | 14931.7 | 16194.9 | 17011.6 | 14697.4 |
| 50° | 12746.6 | 12720.8 | 13091.3 | 13751.3 | 14459.6 | 14857.6 | 15533.1 | 16258.6 | 17728.5 | 18386.8 | 15422.8 |
| 52.5° | 13303.2 | 13292.9 | 13567.0 | 14438.9 | 15390.1 | 15855.4 | 16748.0 | 17630.3 | 19195.0 | 19334.5 | 15755.5 |
| 55° | 13992.6 | 13918.4 | 14149.4 | 15223.0 | 16494.6 | 16994.4 | 18045.6 | 18988.2 | 20363.4 | 19868.7 | 15922.6 |
| 57.5° | 14714.6 | 14592.2 | 14812.8 | 16096.6 | 17740.6 | 18331.6 | 19482.8 | 20311.7 | 21140.4 | 20234.1 | 15920.8 |
| 60° | 15460.7 | 15315.9 | 15577.9 | 17189.1 | 19288.0 | 19972.1 | 21040.5 | 21205.9 | 21865.9 | 20418.4 | 15803.7 |
| 62.5° | 16084.6 | 15998.4 | 16387.9 | 18357.4 | 21016.4 | 21688.5 | 22217.5 | 22019.4 | 22477.7 | 20561.5 | 15529.6 |
| 65° | 16744.6 | 16749.7 | 17378.7 | 19720.6 | 22853.4 | 23306.6 | 23351.4 | 23074.0 | 22989.5 | 20532.1 | 14602.6 |
| 67.5° | 17637.2 | 17719.9 | 18769.3 | 21571.3 | 24640.4 | 24990.2 | 24986.7 | 24216.4 | 23363.4 | 19367.2 | 12546.7 |
| 70° | 18581.5 | 18776.2 | 20371.9 | 23689.2 | 26591.0 | 26946.0 | 26763.4 | 24943.6 | 21998.7 | 15660.6 | 8879.8 |
| 72.5° | 18422.9 | 18760.7 | 21262.9 | 25024.6 | 27992.0 | 28262.6 | 27075.2 | 23156.7 | 17387.3 | 9102.1 | 3780.8 |
| 75° | 14213.1 | 14604.3 | 19496.5 | 23701.2 | 26522.1 | 26279.1 | 23263.4 | 18019.8 | 9501.9 | 2540.1 | 851.2 |
| 77.5° | 7508.1 | 7716.6 | 12879.4 | 18055.9 | 20680.4 | 20172.0 | 16387.9 | 9996.4 | 2896.7 | 629.0 | 382.6 |
| 80° | 3932.4 | 3980.6 | 5612.6 | 10244.5 | 12763.9 | 12767.3 | 9712.0 | 4390.8 | 1194.2 | 322.2 | 256.7 |
| 82.5° | 2105.8 | 2147.1 | 2965.7 | 4733.7 | 6687.9 | 6062.3 | 3718.7 | 2416.0 | 694.5 | 182.7 | 246.4 |
| 85° | 506.7 | 515.2 | 1681.9 | 2162.7 | 2629.7 | 1878.3 | 1104.6 | 2028.3 | 187.8 | 106.8 | 199.9 |
| 87.5° | 194.7 | 198.1 | 623.8 | 935.7 | 670.3 | 434.3 | 517.0 | 756.5 | 24.1 | 41.4 | 31.0 |
| 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° | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 | 7630.4 |
| 2.5° | 7554.6 | 7509.8 | 7399.5 | 7259.9 | 7135.8 | 7046.2 | 6911.8 | 6824.0 | 6765.4 | 6763.7 | 6741.2 |
| 5° | 7363.3 | 7272.0 | 7034.2 | 6751.6 | 6494.8 | 6263.9 | 5991.6 | 5776.2 | 5616.0 | 5590.1 | 5535.0 |
| 7.5° | 7158.3 | 7008.3 | 6643.1 | 6201.9 | 5771.0 | 5333.4 | 4825.0 | 4509.7 | 4239.1 | 4109.9 | 4096.1 |
| 10° | 7032.4 | 6822.2 | 6303.5 | 5666.0 | 4990.5 | 4278.8 | 3613.6 | 3153.5 | 2820.9 | 2726.2 | 2655.5 |
| 12.5° | 7006.6 | 6729.2 | 6041.6 | 5162.7 | 4197.7 | 3256.9 | 2521.0 | 2031.7 | 1766.3 | 1681.9 | 1659.5 |
| 15° | 7032.4 | 6686.1 | 5821.1 | 4664.7 | 3394.7 | 2310.8 | 1692.2 | 1407.8 | 1307.9 | 1283.8 | 1282.1 |
| 17.5° | 7048.0 | 6634.4 | 5571.2 | 4111.6 | 2615.9 | 1650.9 | 1295.9 | 1213.2 | 1197.6 | 1195.9 | 1199.4 |
| 20° | 7046.2 | 6555.1 | 5273.0 | 3494.7 | 1945.5 | 1297.6 | 1171.8 | 1154.6 | 1151.1 | 1152.8 | 1151.1 |
| 22.5° | 7034.2 | 6462.1 | 4945.7 | 2858.8 | 1469.9 | 1159.7 | 1118.4 | 1108.1 | 1106.3 | 1106.3 | 1106.3 |
| 25° | 7056.6 | 6388.0 | 4585.4 | 2250.5 | 1211.4 | 1096.0 | 1070.2 | 1061.5 | 1059.8 | 1059.8 | 1056.4 |
| 27.5° | 7137.6 | 6346.6 | 4190.8 | 1731.8 | 1094.3 | 1039.1 | 1018.5 | 1016.7 | 1011.6 | 1009.8 | 1013.2 |
| 30° | 7268.6 | 6346.6 | 3758.3 | 1347.6 | 1023.6 | 980.5 | 965.0 | 961.5 | 959.9 | 958.1 | 959.9 |
| 32.5° | 7499.4 | 6394.9 | 3286.2 | 1120.1 | 956.4 | 915.1 | 904.7 | 909.8 | 904.7 | 904.7 | 904.7 |
| 35° | 7916.5 | 6539.7 | 2791.7 | 977.1 | 885.7 | 851.2 | 840.9 | 847.8 | 844.4 | 844.4 | 842.7 |
| 37.5° | 8524.8 | 6808.4 | 2293.6 | 890.9 | 823.7 | 787.5 | 773.7 | 784.1 | 780.6 | 780.6 | 778.9 |
| 40° | 9265.7 | 7199.7 | 1819.7 | 825.4 | 763.4 | 725.5 | 713.4 | 718.6 | 709.9 | 709.9 | 713.4 |
| 42.5° | 10180.8 | 7695.9 | 1406.2 | 761.6 | 703.0 | 666.9 | 660.0 | 654.8 | 639.3 | 630.7 | 632.4 |
| 45° | 11197.5 | 8212.9 | 1096.0 | 699.6 | 646.2 | 616.9 | 606.5 | 592.7 | 566.9 | 549.7 | 551.5 |
| 47.5° | 12105.6 | 8610.9 | 890.9 | 639.3 | 594.5 | 572.1 | 556.6 | 530.8 | 492.9 | 472.2 | 473.9 |
| 50° | 12583.0 | 8671.2 | 758.2 | 579.0 | 546.3 | 523.9 | 501.5 | 461.9 | 417.1 | 394.6 | 392.9 |
| 52.5° | 12705.3 | 8388.7 | 660.0 | 523.9 | 498.0 | 472.2 | 442.9 | 389.5 | 339.5 | 315.3 | 311.9 |
| 55° | 12750.1 | 7957.8 | 572.1 | 472.2 | 446.3 | 417.1 | 379.1 | 318.8 | 272.3 | 248.2 | 246.4 |
| 57.5° | 12601.9 | 7315.1 | 503.2 | 425.6 | 394.6 | 358.5 | 311.9 | 255.1 | 210.3 | 191.2 | 191.2 |
| 60° | 12272.8 | 6444.8 | 449.8 | 375.7 | 341.2 | 299.9 | 251.6 | 198.1 | 156.8 | 141.3 | 141.3 |
| 62.5° | 11616.2 | 5317.8 | 399.8 | 324.0 | 291.2 | 248.2 | 203.4 | 149.9 | 110.3 | 101.6 | 103.4 |
| 65° | 10377.3 | 4034.1 | 349.8 | 277.4 | 248.2 | 205.0 | 158.5 | 106.8 | 74.1 | 74.1 | 77.5 |
| 67.5° | 8462.7 | 2802.0 | 298.1 | 236.1 | 213.7 | 167.1 | 120.6 | 74.1 | 51.7 | 58.6 | 65.5 |
| 70° | 5602.2 | 1571.6 | 255.1 | 194.7 | 182.7 | 132.7 | 89.6 | 49.9 | 41.4 | 55.1 | 67.2 |
| 72.5° | 2114.4 | 611.7 | 213.7 | 156.8 | 158.5 | 101.6 | 63.7 | 37.9 | 37.9 | 60.3 | 79.3 |
| 75° | 589.3 | 299.9 | 153.3 | 115.4 | 124.1 | 74.1 | 46.5 | 32.7 | 36.1 | 68.9 | 93.1 |
| 77.5° | 346.3 | 220.6 | 100.0 | 67.2 | 84.4 | 51.7 | 31.0 | 25.8 | 31.0 | 58.6 | 89.6 |
| 80° | 279.2 | 117.2 | 58.6 | 34.5 | 46.5 | 29.3 | 20.7 | 15.5 | 8.6 | 22.4 | 46.5 |
| 82.5° | 279.2 | 70.6 | 27.6 | 24.1 | 24.1 | 15.5 | 10.3 | 6.9 | 1.7 | 0.0 | 12.0 |
| 85° | 187.8 | 29.3 | 17.2 | 15.5 | 12.0 | 5.1 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 31.0 | 12.0 | 6.9 | 3.4 | 1.7 | 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)