

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: P450791

Luminaire Tested: **GLAN-SA1C-760-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5223 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

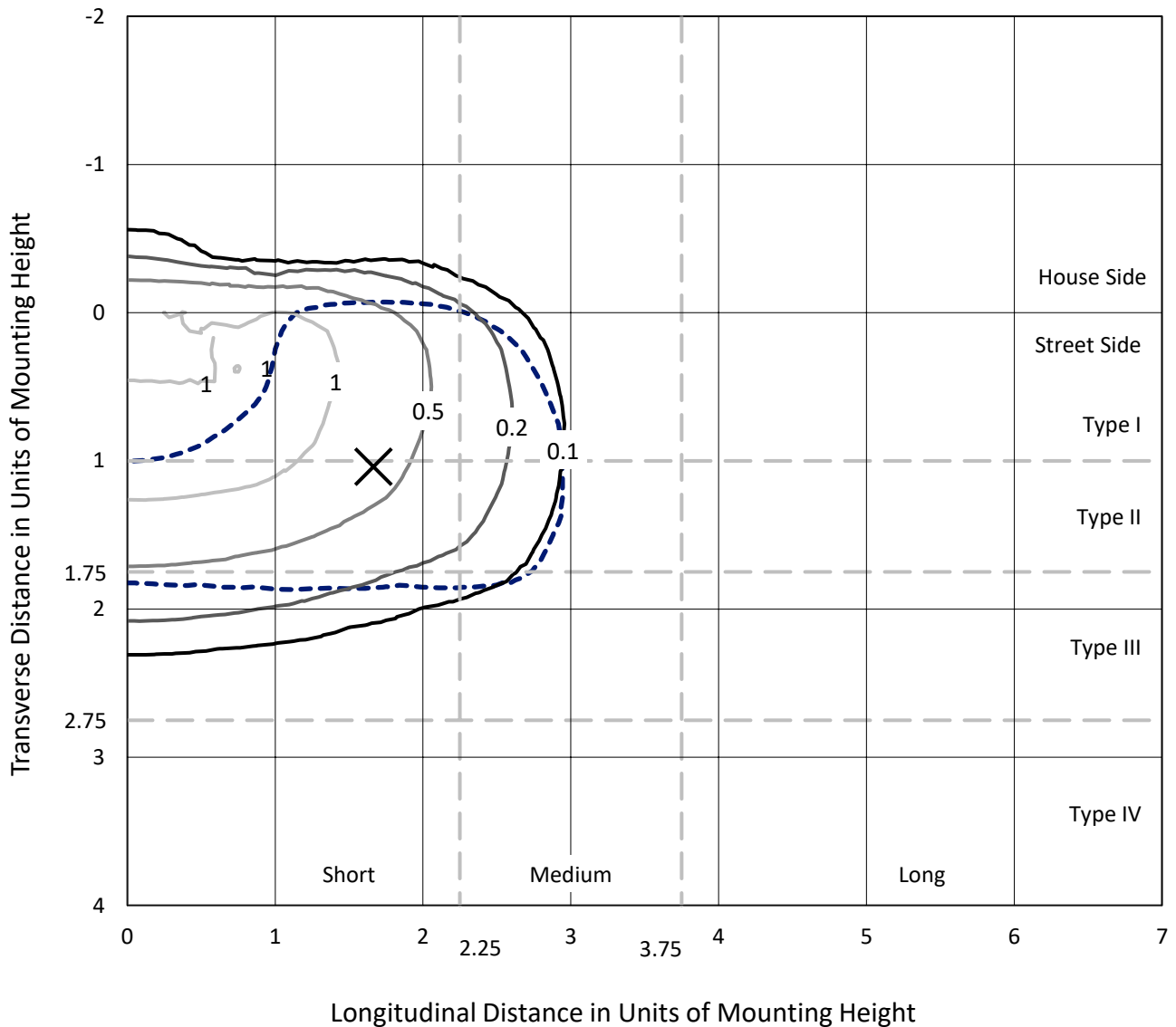
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

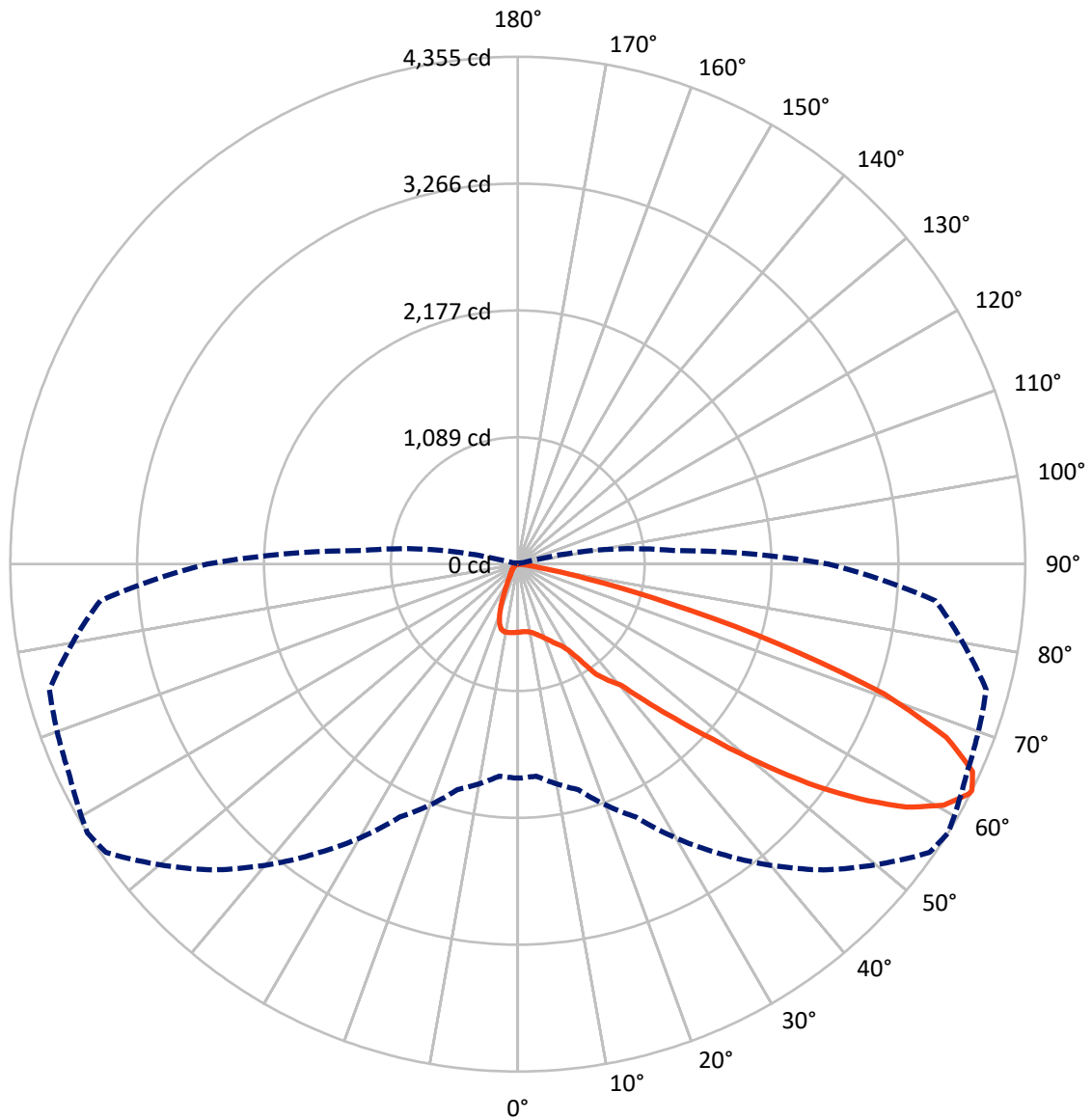
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 540.8 | 0.0 | 540.8 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 4682.2 | 0.0 | 4682.2 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 5223.0 | 0.0 | 5223.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.7 | 1.0 |
| 10°-20° | 149.1 | 2.9 |
| 20°-30° | 258.8 | 5.0 |
| 30°-40° | 475.5 | 9.1 |
| 40°-50° | 895.1 | 17.1 |
| 50°-60° | 1531.0 | 29.3 |
| 60°-70° | 1465.9 | 28.1 |
| 70°-80° | 373.8 | 7.2 |
| 80°-90° | 19.1 | 0.4 |
| 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° | 5223.0 | 100.0 |
| 0°-180° | 5223.0 | 100.0 |



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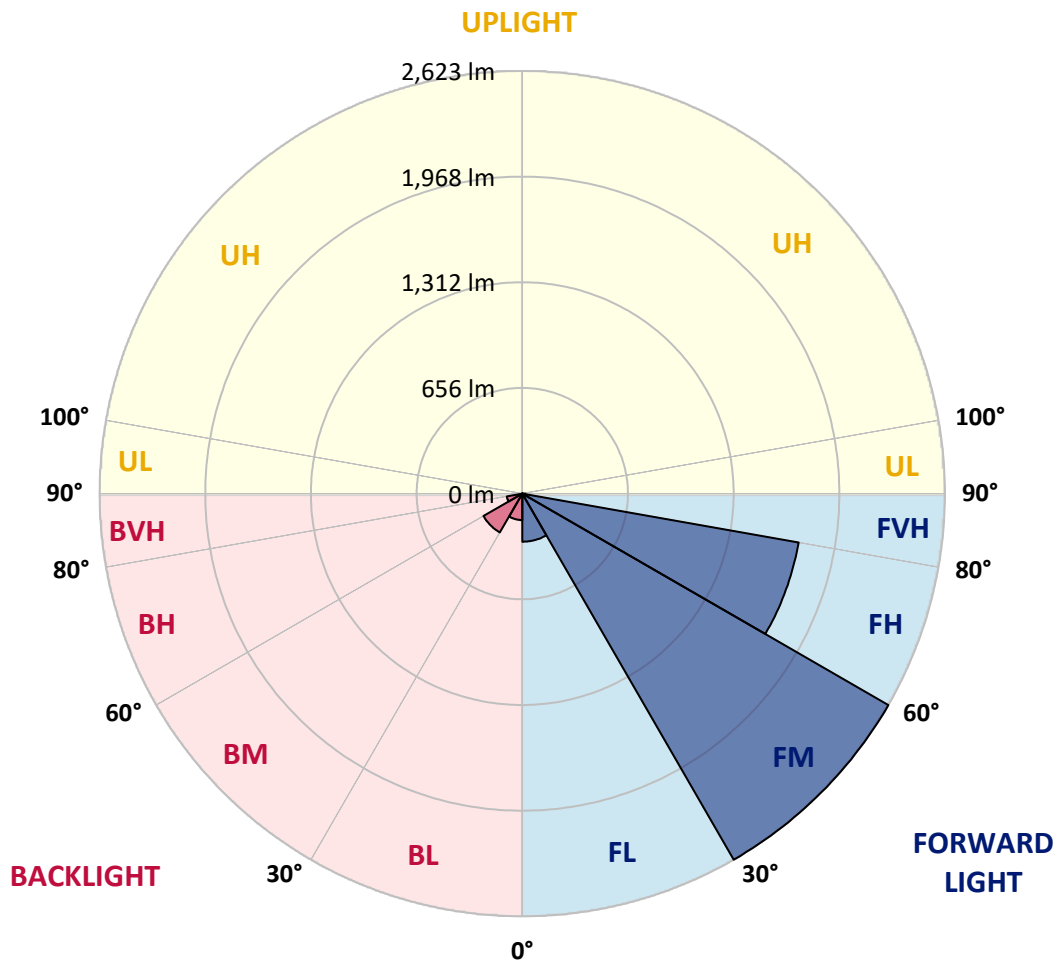
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 298.6 | 5.7 | | | |
| FM (30°-60°) | 2623.4 | 50.2 | | | |
| FH (60°-80°) | 1741.8 | 33.3 | | | G1/1800 |
| FVH (80°-90°) | 18.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 164.0 | 3.1 | B1/500 | | |
| BM (30°-60°) | 278.2 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 97.9 | 1.9 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 |
| 2.5° | 570.2 | 572.2 | 574.1 | 574.9 | 577.7 | 580.4 | 582.4 | 582.0 | 585.1 | 586.7 | 586.7 |
| 5° | 547.4 | 547.4 | 552.5 | 557.2 | 565.1 | 572.9 | 580.4 | 582.0 | 587.9 | 593.4 | 595.4 |
| 7.5° | 528.1 | 529.3 | 533.2 | 541.9 | 552.5 | 566.3 | 581.2 | 584.7 | 595.0 | 607.1 | 612.3 |
| 10° | 519.1 | 519.9 | 525.0 | 534.0 | 547.4 | 566.3 | 587.1 | 593.8 | 609.5 | 628.8 | 635.9 |
| 12.5° | 517.1 | 518.3 | 523.4 | 533.6 | 549.0 | 571.8 | 600.1 | 607.1 | 630.0 | 654.7 | 665.3 |
| 15° | 520.6 | 521.4 | 526.5 | 537.5 | 554.5 | 581.6 | 617.4 | 627.2 | 654.3 | 683.0 | 696.8 |
| 17.5° | 533.2 | 532.4 | 536.0 | 545.0 | 563.9 | 593.8 | 638.2 | 650.0 | 681.9 | 721.2 | 730.2 |
| 20° | 586.7 | 581.6 | 578.4 | 570.6 | 578.1 | 611.1 | 663.4 | 680.7 | 720.0 | 760.1 | 766.4 |
| 22.5° | 701.9 | 690.5 | 668.1 | 637.4 | 613.8 | 634.7 | 693.7 | 713.7 | 764.4 | 803.8 | 803.8 |
| 25° | 848.6 | 834.0 | 811.6 | 744.8 | 687.0 | 673.6 | 727.9 | 753.0 | 812.8 | 852.5 | 839.5 |
| 27.5° | 1032.2 | 1020.8 | 977.2 | 899.3 | 810.8 | 741.6 | 767.6 | 790.8 | 855.7 | 903.6 | 876.5 |
| 30° | 1181.7 | 1176.2 | 1140.4 | 1070.8 | 973.2 | 872.2 | 841.5 | 856.9 | 912.7 | 968.1 | 940.2 |
| 32.5° | 1307.9 | 1307.9 | 1271.3 | 1206.4 | 1115.2 | 1025.5 | 967.0 | 978.0 | 1031.4 | 1095.5 | 1043.6 |
| 35° | 1446.7 | 1442.0 | 1412.5 | 1350.7 | 1248.5 | 1169.5 | 1145.5 | 1160.4 | 1208.8 | 1256.4 | 1128.6 |
| 37.5° | 1592.6 | 1591.0 | 1560.3 | 1500.6 | 1417.2 | 1317.7 | 1261.5 | 1265.4 | 1290.2 | 1319.3 | 1228.1 |
| 40° | 1751.1 | 1753.4 | 1713.3 | 1676.3 | 1597.7 | 1495.9 | 1388.1 | 1363.3 | 1386.5 | 1468.7 | 1411.7 |
| 42.5° | 1938.2 | 1932.7 | 1915.4 | 1865.1 | 1801.8 | 1740.8 | 1611.5 | 1602.4 | 1622.9 | 1710.9 | 1649.2 |
| 45° | 2155.7 | 2163.6 | 2133.7 | 2105.8 | 2063.3 | 2012.6 | 1904.4 | 1888.7 | 1911.1 | 2047.9 | 1960.3 |
| 47.5° | 2373.5 | 2366.1 | 2385.3 | 2380.2 | 2403.0 | 2365.3 | 2269.7 | 2237.5 | 2291.4 | 2421.1 | 2292.1 |
| 50° | 2539.5 | 2547.7 | 2587.9 | 2646.4 | 2744.4 | 2765.6 | 2674.0 | 2663.0 | 2686.9 | 2770.3 | 2589.0 |
| 52.5° | 2647.2 | 2674.8 | 2737.7 | 2888.3 | 3064.8 | 3202.1 | 3132.5 | 3126.6 | 3116.8 | 3139.2 | 2872.9 |
| 55° | 2717.6 | 2745.5 | 2827.7 | 3049.5 | 3353.5 | 3576.4 | 3580.0 | 3554.8 | 3489.9 | 3473.8 | 3138.4 |
| 57.5° | 2674.4 | 2679.9 | 2797.1 | 3093.6 | 3513.5 | 3843.4 | 3959.1 | 3933.9 | 3814.0 | 3753.0 | 3372.7 |
| 60° | 2403.8 | 2415.2 | 2578.4 | 2926.8 | 3443.9 | 3930.7 | 4210.3 | 4198.9 | 4067.6 | 3998.8 | 3555.2 |
| 62.5° | 1924.5 | 1957.5 | 2125.4 | 2513.9 | 3120.3 | 3783.7 | 4312.2 | 4344.4 | 4242.2 | 4147.4 | 3612.6 |
| 63° | 1836.4 | 1825.8 | 2003.1 | 2393.6 | 3034.6 | 3710.9 | 4313.7 | 4354.6 | 4250.0 | 4161.6 | 3596.9 |
| 65° | 1359.4 | 1391.3 | 1506.5 | 1887.5 | 2525.3 | 3372.4 | 4216.6 | 4289.0 | 4220.9 | 4099.0 | 3422.7 |
| 67.5° | 763.3 | 761.7 | 889.1 | 1235.1 | 1767.6 | 2645.3 | 3812.8 | 3965.7 | 3951.6 | 3678.3 | 2837.2 |
| 70° | 373.6 | 379.5 | 431.8 | 640.2 | 1025.2 | 1825.0 | 3168.3 | 3333.4 | 3338.5 | 2889.1 | 1961.8 |
| 72.5° | 169.1 | 171.8 | 209.2 | 311.8 | 526.9 | 971.7 | 2183.2 | 2340.9 | 2311.8 | 1841.1 | 1083.4 |
| 75° | 89.3 | 95.2 | 115.2 | 156.9 | 254.0 | 400.7 | 1187.6 | 1340.1 | 1279.2 | 841.1 | 398.7 |
| 77.5° | 66.1 | 68.0 | 78.3 | 99.9 | 136.1 | 156.1 | 512.4 | 609.5 | 571.0 | 304.4 | 132.1 |
| 80° | 48.4 | 49.9 | 58.2 | 70.8 | 85.7 | 79.4 | 193.1 | 221.4 | 198.6 | 103.4 | 40.5 |
| 82.5° | 29.5 | 29.9 | 42.5 | 52.7 | 53.9 | 44.4 | 63.7 | 68.4 | 71.6 | 58.2 | 22.0 |
| 85° | 10.6 | 13.4 | 28.7 | 38.1 | 31.9 | 22.4 | 26.7 | 29.5 | 32.2 | 37.0 | 13.0 |
| 87.5° | 1.2 | 1.6 | 13.8 | 18.5 | 9.0 | 8.3 | 9.8 | 11.0 | 11.8 | 13.8 | 6.3 |
| 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° | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 | 584.7 |
| 2.5° | 588.3 | 589.8 | 588.7 | 586.7 | 586.3 | 585.1 | 582.8 | 582.8 | 582.8 | 583.6 | 582.8 |
| 5° | 596.9 | 598.1 | 595.4 | 591.4 | 587.1 | 581.6 | 575.7 | 572.2 | 571.8 | 571.0 | 569.0 |
| 7.5° | 613.4 | 615.0 | 608.7 | 599.3 | 587.5 | 574.1 | 561.5 | 549.7 | 544.2 | 539.9 | 539.9 |
| 10° | 637.4 | 639.0 | 626.4 | 609.5 | 585.9 | 558.8 | 528.9 | 501.8 | 480.5 | 470.7 | 468.3 |
| 12.5° | 666.1 | 666.9 | 646.1 | 616.6 | 577.7 | 525.4 | 461.7 | 402.3 | 361.0 | 342.1 | 340.1 |
| 15° | 697.6 | 692.1 | 664.6 | 619.3 | 554.1 | 456.5 | 346.4 | 273.7 | 230.8 | 218.2 | 223.0 |
| 17.5° | 729.4 | 719.2 | 678.7 | 615.0 | 501.0 | 346.4 | 232.8 | 186.8 | 173.4 | 169.9 | 169.9 |
| 20° | 759.3 | 745.2 | 688.9 | 596.1 | 409.0 | 238.7 | 172.6 | 161.6 | 159.3 | 156.9 | 157.3 |
| 22.5° | 789.2 | 767.6 | 698.0 | 554.1 | 304.8 | 170.7 | 154.5 | 151.0 | 147.9 | 144.7 | 144.3 |
| 25° | 818.3 | 788.4 | 701.5 | 476.2 | 207.6 | 146.7 | 141.2 | 136.5 | 130.2 | 126.6 | 125.8 |
| 27.5° | 848.6 | 813.6 | 699.2 | 377.9 | 151.4 | 131.3 | 125.8 | 119.1 | 111.7 | 105.4 | 105.4 |
| 30° | 906.8 | 861.6 | 690.9 | 271.7 | 127.4 | 115.6 | 108.5 | 97.9 | 89.7 | 83.4 | 83.0 |
| 32.5° | 986.2 | 924.1 | 662.6 | 191.1 | 113.3 | 101.8 | 91.2 | 79.4 | 70.8 | 66.1 | 66.1 |
| 35° | 1057.0 | 987.0 | 609.5 | 140.8 | 101.8 | 88.5 | 75.5 | 64.1 | 57.4 | 54.3 | 53.1 |
| 37.5° | 1164.8 | 1079.0 | 536.4 | 114.4 | 90.8 | 76.7 | 63.3 | 52.7 | 47.2 | 44.8 | 44.8 |
| 40° | 1326.4 | 1191.5 | 446.7 | 100.3 | 80.2 | 65.3 | 52.7 | 44.4 | 40.1 | 37.4 | 37.4 |
| 42.5° | 1526.9 | 1329.1 | 355.9 | 90.0 | 70.4 | 56.2 | 44.0 | 37.8 | 33.8 | 31.9 | 31.5 |
| 45° | 1779.4 | 1474.2 | 274.1 | 80.6 | 62.5 | 48.0 | 37.4 | 31.9 | 27.9 | 26.7 | 27.1 |
| 47.5° | 2042.8 | 1602.0 | 212.3 | 72.4 | 54.3 | 40.5 | 31.9 | 27.5 | 24.8 | 23.2 | 23.2 |
| 50° | 2267.8 | 1690.1 | 161.2 | 62.9 | 48.0 | 34.2 | 27.9 | 24.8 | 22.4 | 21.6 | 21.2 |
| 52.5° | 2455.7 | 1715.7 | 123.5 | 54.7 | 42.1 | 29.5 | 24.8 | 22.4 | 20.4 | 19.3 | 19.3 |
| 55° | 2615.8 | 1693.3 | 96.7 | 46.0 | 35.4 | 25.6 | 22.0 | 20.1 | 17.7 | 16.5 | 16.1 |
| 57.5° | 2709.4 | 1621.3 | 73.9 | 38.1 | 28.7 | 21.2 | 19.3 | 16.9 | 14.2 | 12.2 | 12.2 |
| 60° | 2756.6 | 1516.7 | 56.6 | 31.5 | 22.0 | 16.9 | 15.7 | 12.6 | 9.8 | 8.3 | 7.9 |
| 62.5° | 2699.9 | 1377.9 | 42.9 | 24.8 | 16.5 | 12.6 | 10.6 | 9.0 | 6.3 | 4.7 | 4.7 |
| 63° | 2664.9 | 1337.8 | 41.3 | 23.6 | 15.3 | 11.8 | 9.8 | 8.3 | 5.5 | 4.3 | 3.9 |
| 65° | 2429.4 | 1162.8 | 33.8 | 18.9 | 12.2 | 8.3 | 6.7 | 5.9 | 3.9 | 2.0 | 1.6 |
| 67.5° | 1929.2 | 889.5 | 26.7 | 14.2 | 8.7 | 5.9 | 3.9 | 3.5 | 1.2 | 0.0 | 0.0 |
| 70° | 1304.3 | 574.5 | 20.8 | 10.2 | 5.9 | 3.5 | 2.0 | 1.6 | 0.4 | 0.0 | 0.0 |
| 72.5° | 680.3 | 294.5 | 16.1 | 7.5 | 3.5 | 2.4 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 |
| 75° | 240.7 | 100.3 | 11.8 | 4.7 | 2.4 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 72.7 | 37.4 | 7.5 | 3.5 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 25.6 | 13.8 | 4.3 | 2.4 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 12.6 | 6.7 | 2.8 | 2.0 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 7.1 | 4.3 | 2.4 | 2.0 | 1.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.1 | 3.1 | 2.4 | 2.0 | 1.6 | 0.8 | 0.4 | 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)