

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: P163460

Luminaire Tested: **OVH-F04-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163460
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVH-F04-LED-E-U-SL2-HSS-8030
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4956.7 lumens
Efficiency: N/A
Efficacy: 48.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

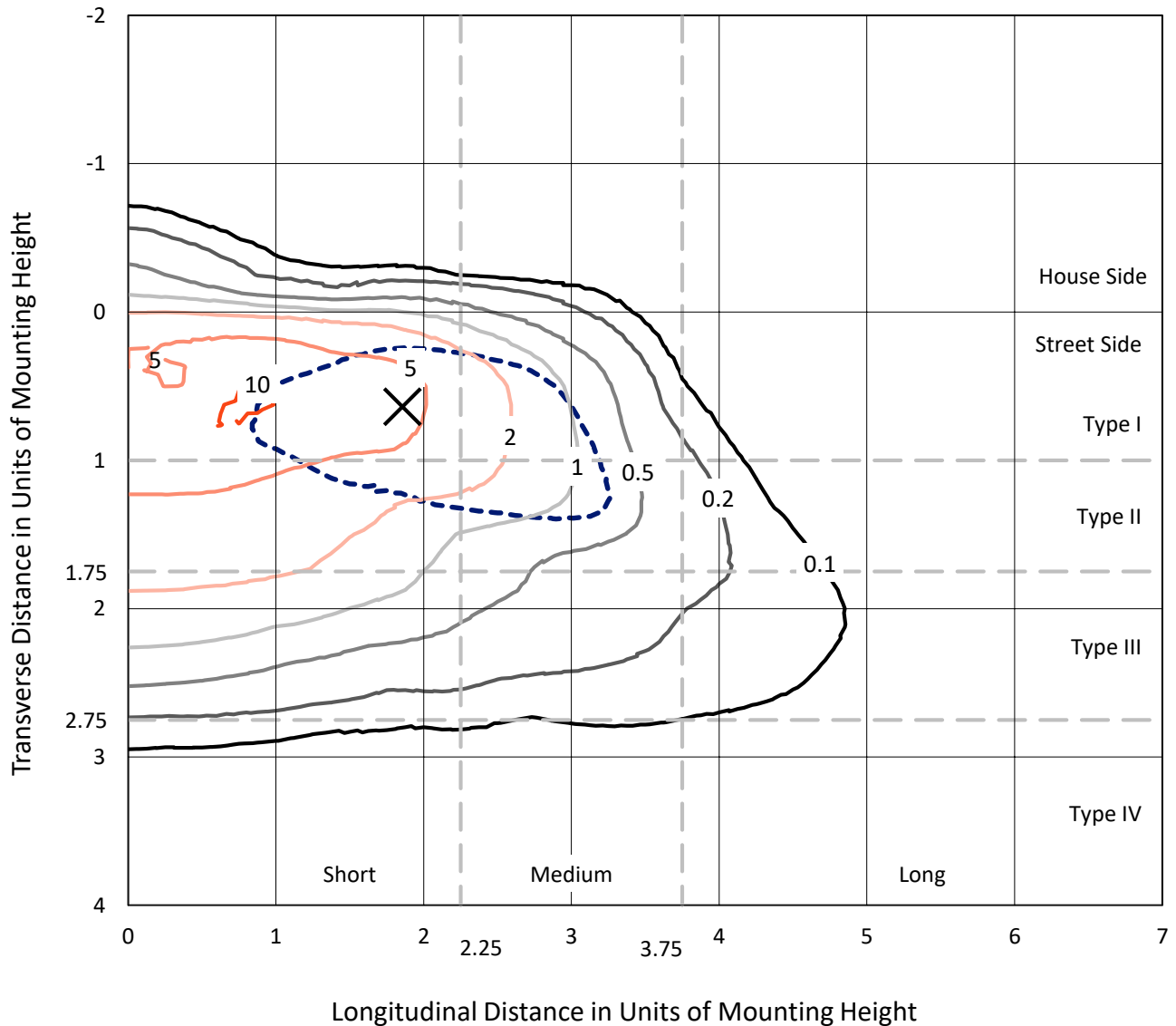
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

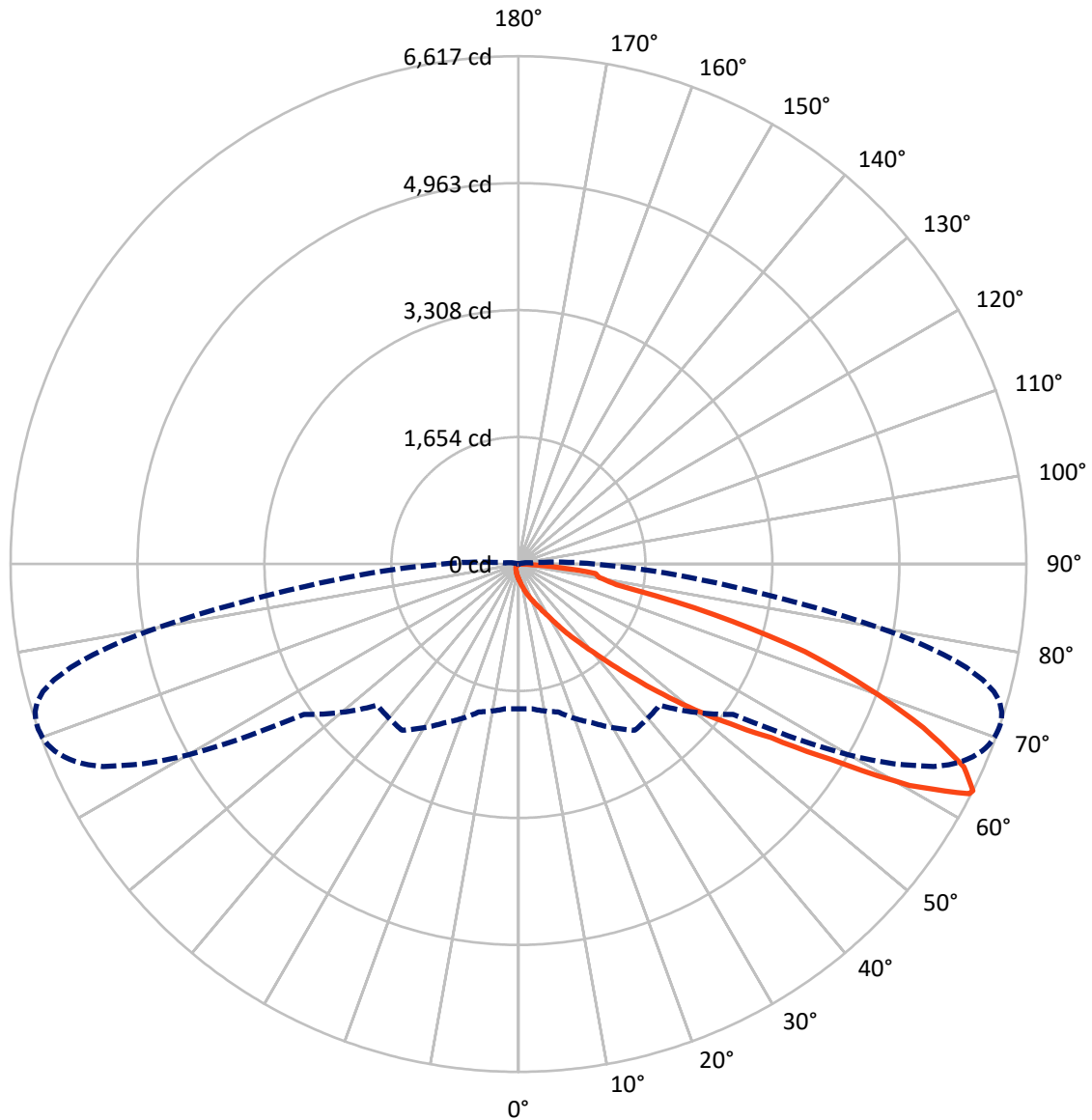
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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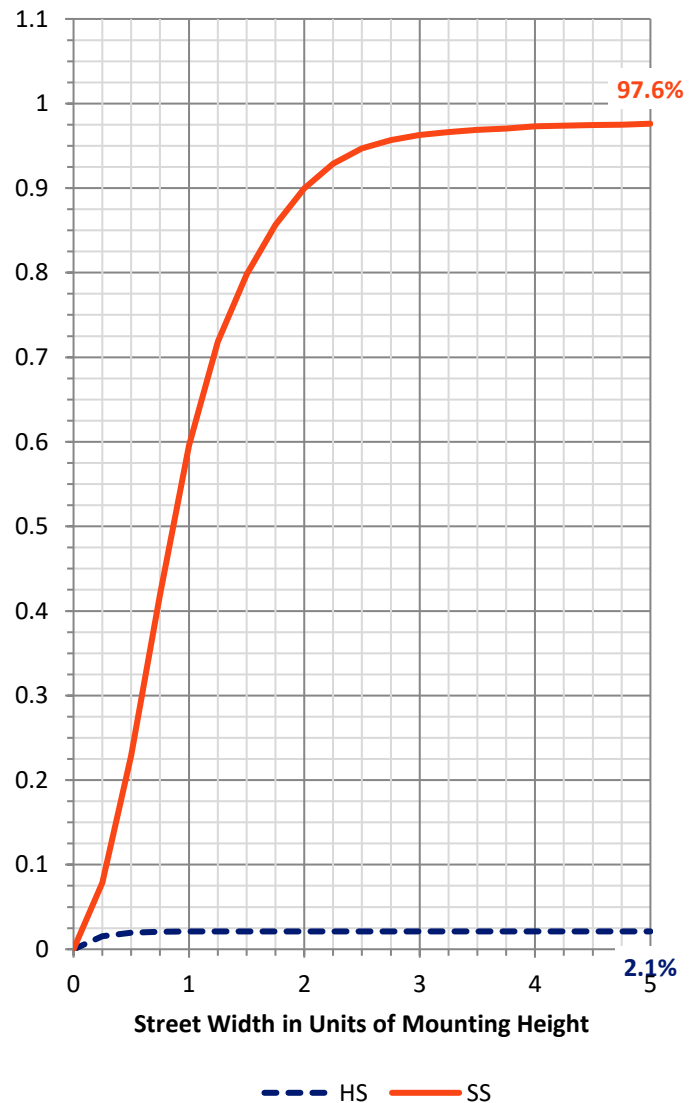
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 105.2 | 0.0 | 105.2 |
| | % Fixture | 2.1 | 0.0 | 2.1 |
| Street Side | Lumens | 4851.5 | 0.0 | 4851.5 |
| | % Fixture | 97.9 | 0.0 | 97.9 |
| Total | Lumens | 4956.7 | 0.0 | 4956.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.0 | 0.4 |
| 10°-20° | 81.5 | 1.6 |
| 20°-30° | 165.5 | 3.3 |
| 30°-40° | 404.4 | 8.2 |
| 40°-50° | 904.5 | 18.2 |
| 50°-60° | 1271.8 | 25.7 |
| 60°-70° | 1495.6 | 30.2 |
| 70°-80° | 540.0 | 10.9 |
| 80°-90° | 72.2 | 1.5 |
| 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° | 4956.7 | 100.0 |
| 0°-180° | 4956.7 | 100.0 |



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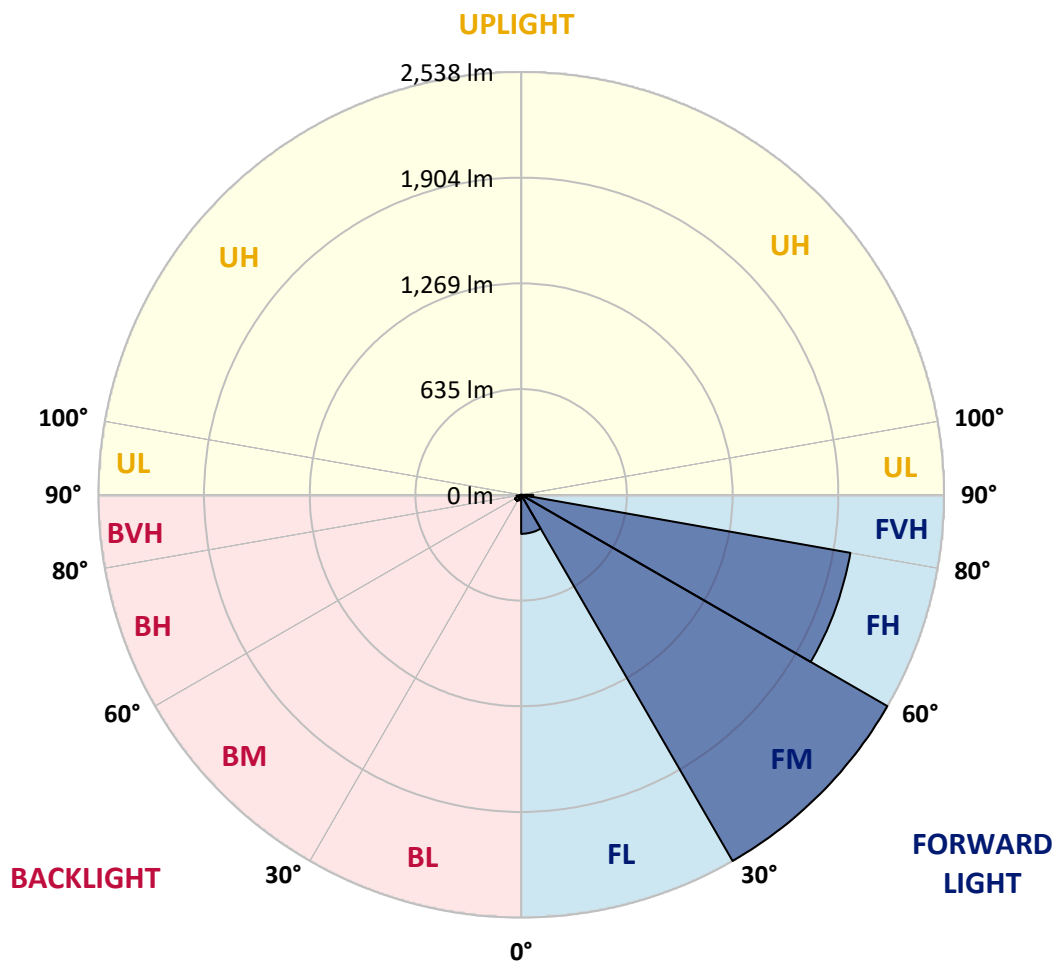
CATALOG NUMBER: OVH-F04-LED-E-U-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 234.2 | 4.7 | | | |
| FM | (30°-60°) | 2538.4 | 51.2 | | | |
| FH | (60°-80°) | 2006.8 | 40.5 | | | G2/5000 |
| FVH | (80°-90°) | 72.1 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 33.8 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 42.4 | 0.9 | B0/220 | | |
| BH | (60°-80°) | 28.9 | 0.6 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 |
| 2.5° | 248.7 | 251.4 | 249.6 | 245.1 | 239.7 | 232.5 | 226.2 | 226.2 | 225.3 | 222.6 | 223.5 |
| 5° | 326.2 | 327.1 | 323.5 | 312.7 | 302.8 | 287.4 | 270.3 | 268.5 | 266.7 | 264.0 | 263.1 |
| 7.5° | 401.9 | 405.5 | 401.9 | 390.2 | 370.3 | 346.9 | 319.9 | 317.2 | 311.8 | 311.8 | 308.2 |
| 10° | 479.4 | 479.4 | 475.8 | 462.2 | 444.2 | 410.9 | 376.7 | 372.2 | 365.9 | 364.0 | 358.6 |
| 12.5° | 534.4 | 534.4 | 532.5 | 525.3 | 510.9 | 481.2 | 439.7 | 435.2 | 427.1 | 424.4 | 418.1 |
| 15° | 556.0 | 556.0 | 556.9 | 563.2 | 564.1 | 550.6 | 507.3 | 503.7 | 495.6 | 488.4 | 485.7 |
| 17.5° | 569.5 | 568.6 | 568.6 | 577.6 | 593.8 | 602.8 | 574.9 | 571.3 | 562.3 | 558.7 | 549.7 |
| 20° | 599.2 | 597.4 | 592.0 | 592.0 | 607.3 | 638.9 | 638.9 | 638.0 | 628.1 | 625.4 | 620.9 |
| 22.5° | 643.4 | 641.6 | 625.4 | 611.8 | 619.0 | 658.7 | 695.7 | 693.8 | 690.3 | 686.6 | 683.9 |
| 25° | 715.5 | 709.2 | 681.2 | 641.6 | 635.3 | 677.6 | 738.9 | 743.4 | 746.1 | 746.1 | 747.9 |
| 27.5° | 824.5 | 816.4 | 766.9 | 692.9 | 665.0 | 708.3 | 786.6 | 795.7 | 803.8 | 805.6 | 813.7 |
| 30° | 975.9 | 961.5 | 890.3 | 782.2 | 718.2 | 753.3 | 856.9 | 866.9 | 878.6 | 882.2 | 894.8 |
| 32.5° | 1224.6 | 1216.5 | 1148.0 | 985.8 | 848.8 | 841.7 | 955.1 | 967.8 | 983.1 | 989.4 | 1004.7 |
| 35° | 1603.0 | 1604.9 | 1549.0 | 1403.0 | 1213.8 | 1114.7 | 1130.9 | 1141.7 | 1147.1 | 1166.0 | 1174.1 |
| 37.5° | 1859.9 | 1864.4 | 1877.0 | 1819.3 | 1684.1 | 1583.3 | 1456.2 | 1467.9 | 1440.0 | 1442.7 | 1443.6 |
| 40° | 2000.5 | 2014.8 | 2088.8 | 2144.6 | 2133.8 | 2075.2 | 1973.4 | 1979.7 | 1927.4 | 1915.7 | 1858.9 |
| 42.5° | 2094.2 | 2113.1 | 2231.1 | 2404.1 | 2492.5 | 2545.6 | 2522.2 | 2519.5 | 2478.9 | 2463.6 | 2415.8 |
| 45° | 2152.7 | 2169.9 | 2318.5 | 2573.6 | 2777.2 | 2932.2 | 2996.2 | 3003.4 | 2969.2 | 2953.8 | 2914.1 |
| 47.5° | 2150.0 | 2169.9 | 2329.3 | 2636.6 | 2936.7 | 3184.5 | 3364.7 | 3373.7 | 3394.4 | 3381.0 | 3383.6 |
| 50° | 2031.1 | 2050.0 | 2210.4 | 2529.4 | 2889.8 | 3299.9 | 3629.7 | 3658.5 | 3691.8 | 3714.3 | 3725.1 |
| 52.5° | 1886.9 | 1900.4 | 2042.8 | 2345.5 | 2689.8 | 3252.1 | 3786.5 | 3836.0 | 3885.6 | 3927.9 | 3957.6 |
| 55° | 1833.8 | 1849.1 | 1960.8 | 2212.2 | 2529.4 | 3052.0 | 3859.4 | 3932.4 | 4002.7 | 4072.1 | 4128.9 |
| 57.5° | 1861.7 | 1876.1 | 1956.3 | 2149.1 | 2433.9 | 2841.2 | 3880.1 | 3993.7 | 4109.0 | 4221.7 | 4333.4 |
| 60° | 1964.4 | 1979.7 | 2048.2 | 2207.7 | 2408.6 | 2719.5 | 3799.0 | 3987.4 | 4179.3 | 4375.8 | 4560.5 |
| 62.5° | 1923.8 | 1930.2 | 2031.1 | 2310.4 | 2588.8 | 2615.9 | 3504.4 | 3767.5 | 4060.4 | 4363.1 | 4661.4 |
| 63° | 1885.1 | 1892.3 | 1995.1 | 2282.5 | 2643.9 | 2600.6 | 3413.4 | 3690.9 | 4000.0 | 4326.2 | 4650.6 |
| 65° | 1709.4 | 1710.3 | 1788.7 | 2015.7 | 2582.5 | 2627.6 | 3007.9 | 3272.8 | 3627.8 | 4018.9 | 4428.9 |
| 67.5° | 1276.0 | 1269.7 | 1345.4 | 1518.4 | 2027.5 | 2628.5 | 2581.7 | 2730.3 | 2977.2 | 3324.2 | 3691.8 |
| 70° | 452.4 | 442.5 | 565.0 | 804.7 | 1263.3 | 2150.0 | 2218.5 | 2228.4 | 2296.9 | 2484.3 | 2715.0 |
| 72.5° | 146.9 | 149.6 | 180.2 | 294.6 | 582.1 | 1447.1 | 2008.5 | 1977.9 | 1959.9 | 1959.0 | 1989.7 |
| 75° | 58.6 | 59.5 | 72.1 | 130.7 | 261.3 | 697.5 | 1759.0 | 1776.1 | 1782.4 | 1791.4 | 1801.3 |
| 77.5° | 27.9 | 30.7 | 40.5 | 73.0 | 129.8 | 345.1 | 1258.9 | 1403.9 | 1486.8 | 1550.8 | 1589.6 |
| 80° | 9.9 | 11.7 | 22.5 | 45.0 | 60.4 | 158.6 | 663.2 | 800.2 | 921.8 | 1078.6 | 1213.8 |
| 82.5° | 0.0 | 0.0 | 4.5 | 31.5 | 33.3 | 64.0 | 272.1 | 319.0 | 364.9 | 473.1 | 607.3 |
| 85° | 0.0 | 0.0 | 0.0 | 9.0 | 9.9 | 10.8 | 91.9 | 110.8 | 124.4 | 145.1 | 167.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 2.7 | 5.4 | 13.5 | 20.7 |
| 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):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 |
| 2.5° | 221.7 | 220.8 | 220.8 | 218.9 | 218.1 | 216.3 | 215.4 | 212.6 | 211.8 | 211.8 | 211.8 |
| 5° | 262.2 | 258.6 | 256.8 | 252.3 | 249.6 | 248.7 | 244.2 | 242.4 | 239.7 | 240.6 | 236.1 |
| 7.5° | 307.3 | 301.0 | 298.3 | 292.0 | 290.2 | 283.8 | 282.0 | 277.5 | 274.8 | 269.4 | 267.6 |
| 10° | 356.8 | 348.7 | 344.2 | 334.3 | 331.6 | 327.1 | 321.7 | 316.3 | 311.8 | 306.4 | 303.7 |
| 12.5° | 413.6 | 406.4 | 402.8 | 389.3 | 383.0 | 376.7 | 369.4 | 362.2 | 355.1 | 350.5 | 344.2 |
| 15° | 480.3 | 468.6 | 465.0 | 452.4 | 441.6 | 433.4 | 423.5 | 414.5 | 409.1 | 400.1 | 393.8 |
| 17.5° | 546.1 | 534.4 | 531.6 | 512.7 | 501.0 | 495.6 | 484.8 | 473.1 | 463.2 | 454.2 | 444.2 |
| 20° | 611.8 | 603.8 | 596.5 | 578.5 | 565.9 | 556.9 | 542.5 | 530.7 | 522.7 | 510.0 | 497.4 |
| 22.5° | 677.6 | 669.5 | 664.1 | 645.2 | 633.5 | 620.9 | 608.2 | 595.6 | 583.9 | 568.6 | 554.2 |
| 25° | 745.2 | 739.8 | 737.1 | 720.0 | 709.2 | 697.5 | 684.9 | 670.4 | 656.0 | 638.9 | 623.6 |
| 27.5° | 815.5 | 817.3 | 811.9 | 808.3 | 796.6 | 788.5 | 768.6 | 758.7 | 747.9 | 727.2 | 708.3 |
| 30° | 904.7 | 910.1 | 908.3 | 911.0 | 903.8 | 898.4 | 883.1 | 870.5 | 857.9 | 838.0 | 816.4 |
| 32.5° | 1017.3 | 1024.5 | 1028.2 | 1038.1 | 1034.5 | 1032.7 | 1028.2 | 1010.2 | 1001.1 | 966.9 | 957.9 |
| 35° | 1191.3 | 1187.6 | 1203.0 | 1211.1 | 1207.5 | 1205.7 | 1200.3 | 1190.4 | 1179.5 | 1155.2 | 1132.7 |
| 37.5° | 1417.4 | 1421.1 | 1426.5 | 1410.2 | 1399.4 | 1398.5 | 1382.3 | 1372.4 | 1357.1 | 1330.0 | 1303.0 |
| 40° | 1831.9 | 1809.4 | 1784.2 | 1715.7 | 1686.0 | 1668.8 | 1621.1 | 1607.6 | 1581.4 | 1544.5 | 1516.5 |
| 42.5° | 2370.8 | 2348.3 | 2272.6 | 2158.2 | 2096.8 | 2012.2 | 1973.4 | 1925.7 | 1888.7 | 1828.3 | 1795.9 |
| 45° | 2906.1 | 2841.2 | 2832.1 | 2698.8 | 2623.1 | 2511.4 | 2442.0 | 2361.8 | 2278.0 | 2198.7 | 2141.0 |
| 47.5° | 3357.5 | 3343.1 | 3299.0 | 3217.9 | 3147.6 | 3053.8 | 2964.6 | 2841.2 | 2754.7 | 2642.0 | 2538.4 |
| 50° | 3718.8 | 3717.9 | 3701.7 | 3654.9 | 3596.3 | 3520.6 | 3442.2 | 3337.7 | 3239.5 | 3101.6 | 2990.8 |
| 52.5° | 3989.2 | 4003.6 | 4009.0 | 3994.6 | 3972.1 | 3905.4 | 3865.7 | 3778.3 | 3695.4 | 3578.3 | 3458.4 |
| 55° | 4187.4 | 4240.6 | 4267.6 | 4298.2 | 4291.9 | 4268.5 | 4266.7 | 4210.0 | 4172.1 | 4079.3 | 3994.6 |
| 57.5° | 4432.5 | 4519.9 | 4603.7 | 4752.4 | 4757.8 | 4810.1 | 4837.1 | 4864.2 | 4871.4 | 4834.4 | 4806.5 |
| 60° | 4744.3 | 4922.7 | 5081.3 | 5392.2 | 5473.3 | 5601.3 | 5684.1 | 5774.3 | 5850.9 | 5857.1 | 5855.4 |
| 62.5° | 4964.2 | 5239.0 | 5494.9 | 5956.3 | 6114.0 | 6261.8 | 6372.6 | 6460.0 | 6513.1 | 6567.2 | 6592.5 |
| 63° | 4970.5 | 5271.4 | 5543.6 | 6019.3 | 6185.2 | 6325.7 | 6431.1 | 6512.2 | 6568.2 | 6600.6 | 6616.8 |
| 65° | 4818.2 | 5183.2 | 5507.6 | 5981.5 | 6137.4 | 6278.9 | 6333.8 | 6387.0 | 6414.0 | 6426.6 | 6378.9 |
| 67.5° | 4083.8 | 4440.7 | 4819.1 | 5348.9 | 5482.3 | 5651.7 | 5696.8 | 5723.8 | 5736.4 | 5733.7 | 5693.2 |
| 70° | 3053.8 | 3353.0 | 3773.8 | 4379.3 | 4556.0 | 4721.7 | 4824.5 | 4868.7 | 4883.1 | 4878.5 | 4818.2 |
| 72.5° | 2132.0 | 2307.7 | 2654.7 | 3328.7 | 3569.3 | 3781.9 | 3909.0 | 3974.7 | 3988.3 | 3961.2 | 3905.4 |
| 75° | 1790.5 | 1799.5 | 1877.9 | 2246.4 | 2471.7 | 2698.8 | 2842.1 | 2883.5 | 2856.5 | 2774.5 | 2632.1 |
| 77.5° | 1598.5 | 1618.4 | 1618.4 | 1673.3 | 1717.5 | 1780.6 | 1794.1 | 1693.2 | 1576.0 | 1424.6 | 1302.1 |
| 80° | 1340.9 | 1410.2 | 1458.9 | 1499.4 | 1503.9 | 1491.3 | 1458.0 | 1401.2 | 1311.1 | 1195.8 | 1067.8 |
| 82.5° | 814.6 | 951.6 | 1007.4 | 1216.5 | 1319.2 | 1388.6 | 1383.2 | 1307.5 | 1239.0 | 1119.2 | 1010.2 |
| 85° | 205.5 | 221.7 | 240.6 | 312.7 | 350.5 | 428.0 | 476.7 | 499.2 | 507.3 | 465.9 | 421.7 |
| 87.5° | 19.8 | 13.5 | 22.5 | 17.1 | 24.3 | 18.0 | 24.3 | 22.5 | 27.9 | 29.7 | 32.4 |
| 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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 CATALOG NUMBER: OVH-F04-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 |
| 2.5° | 210.0 | 209.1 | 208.1 | 207.2 | 206.3 | 205.5 | 203.7 | 203.7 | 201.8 | 200.9 | 200.0 |
| 5° | 233.4 | 231.6 | 230.7 | 228.9 | 226.2 | 224.3 | 221.7 | 218.1 | 215.4 | 214.5 | 212.6 |
| 7.5° | 263.1 | 258.6 | 256.8 | 254.1 | 250.5 | 245.1 | 241.5 | 238.8 | 234.3 | 231.6 | 226.2 |
| 10° | 296.5 | 292.0 | 286.6 | 281.1 | 275.7 | 269.4 | 264.9 | 261.3 | 254.1 | 250.5 | 244.2 |
| 12.5° | 338.8 | 330.7 | 324.4 | 317.2 | 310.0 | 302.8 | 297.4 | 286.6 | 280.3 | 272.1 | 266.7 |
| 15° | 382.1 | 374.8 | 367.7 | 358.6 | 347.8 | 336.1 | 330.7 | 320.8 | 312.7 | 300.0 | 292.9 |
| 17.5° | 434.3 | 420.8 | 410.0 | 399.2 | 389.3 | 378.5 | 367.7 | 352.3 | 340.6 | 329.8 | 315.4 |
| 20° | 485.7 | 469.5 | 457.8 | 443.3 | 428.9 | 411.8 | 399.2 | 388.4 | 372.2 | 357.7 | 342.4 |
| 22.5° | 540.7 | 524.4 | 505.5 | 491.1 | 471.3 | 457.8 | 440.6 | 422.6 | 406.4 | 387.5 | 368.5 |
| 25° | 607.3 | 590.2 | 568.6 | 549.7 | 527.1 | 508.2 | 487.5 | 466.8 | 447.0 | 425.3 | 401.0 |
| 27.5° | 689.3 | 671.3 | 647.9 | 625.4 | 595.6 | 572.2 | 552.4 | 524.4 | 499.2 | 472.2 | 444.2 |
| 30° | 793.0 | 773.2 | 744.3 | 711.9 | 682.1 | 656.0 | 628.1 | 591.1 | 563.2 | 530.7 | 494.7 |
| 32.5° | 928.1 | 904.7 | 866.0 | 835.3 | 798.4 | 764.1 | 725.4 | 688.4 | 648.8 | 606.4 | 565.0 |
| 35° | 1098.4 | 1076.8 | 1031.8 | 986.7 | 946.2 | 905.6 | 856.9 | 814.6 | 758.7 | 707.4 | 654.2 |
| 37.5° | 1275.1 | 1236.3 | 1194.9 | 1146.2 | 1095.7 | 1047.1 | 987.6 | 929.1 | 865.1 | 809.2 | 742.5 |
| 40° | 1476.9 | 1430.0 | 1395.8 | 1343.5 | 1272.4 | 1203.0 | 1148.0 | 1075.0 | 994.8 | 920.0 | 841.7 |
| 42.5° | 1753.5 | 1701.3 | 1640.0 | 1560.7 | 1509.4 | 1428.3 | 1357.1 | 1270.6 | 1165.1 | 1081.3 | 986.7 |
| 45° | 2073.4 | 2002.3 | 1942.8 | 1866.2 | 1804.0 | 1703.1 | 1620.2 | 1504.8 | 1399.4 | 1289.5 | 1174.1 |
| 47.5° | 2438.4 | 2350.1 | 2263.6 | 2187.9 | 2088.8 | 1989.7 | 1884.2 | 1761.7 | 1626.5 | 1505.7 | 1368.8 |
| 50° | 2857.4 | 2732.2 | 2612.3 | 2515.0 | 2378.9 | 2264.4 | 2150.0 | 2012.2 | 1862.6 | 1723.8 | 1567.9 |
| 52.5° | 3323.3 | 3178.2 | 3019.6 | 2870.0 | 2712.3 | 2565.4 | 2427.6 | 2269.0 | 2102.2 | 1932.9 | 1759.0 |
| 55° | 3885.6 | 3776.5 | 3590.0 | 3399.8 | 3189.0 | 2992.6 | 2815.0 | 2618.6 | 2415.8 | 2193.3 | 2010.3 |
| 57.5° | 4765.9 | 4712.8 | 4556.9 | 4366.7 | 4091.9 | 3853.1 | 3552.1 | 3311.6 | 3017.8 | 2711.4 | 2475.3 |
| 60° | 5959.0 | 5893.2 | 5805.8 | 5651.7 | 5433.6 | 5109.2 | 4777.7 | 4403.7 | 3956.7 | 3532.3 | 3129.5 |
| 62.5° | 6595.2 | 6571.7 | 6500.5 | 6394.2 | 6190.6 | 5934.7 | 5600.4 | 5189.5 | 4684.8 | 4169.4 | 3655.7 |
| 63° | 6614.1 | 6584.4 | 6523.1 | 6414.9 | 6235.6 | 5987.8 | 5659.8 | 5260.6 | 4766.8 | 4241.5 | 3717.1 |
| 65° | 6358.2 | 6346.5 | 6284.3 | 6166.2 | 6043.7 | 5854.5 | 5600.4 | 5257.0 | 4842.5 | 4346.0 | 3824.3 |
| 67.5° | 5639.1 | 5603.9 | 5508.4 | 5472.4 | 5386.8 | 5255.2 | 5061.5 | 4825.4 | 4528.9 | 4138.8 | 3688.2 |
| 70° | 4769.5 | 4717.3 | 4597.4 | 4533.5 | 4428.9 | 4346.0 | 4228.0 | 4059.5 | 3876.5 | 3604.4 | 3268.3 |
| 72.5° | 3847.7 | 3739.6 | 3629.7 | 3462.9 | 3317.0 | 3169.2 | 3038.5 | 2919.5 | 2718.6 | 2608.7 | 2353.7 |
| 75° | 2498.8 | 2302.3 | 2114.0 | 1861.7 | 1634.6 | 1433.7 | 1238.1 | 1139.0 | 932.6 | 848.8 | 729.0 |
| 77.5° | 1185.8 | 1075.9 | 928.1 | 813.7 | 667.7 | 545.2 | 445.1 | 334.3 | 262.2 | 205.5 | 156.8 |
| 80° | 957.0 | 864.2 | 774.9 | 671.3 | 561.4 | 447.9 | 343.3 | 256.8 | 182.0 | 126.1 | 89.2 |
| 82.5° | 853.4 | 752.4 | 642.5 | 571.3 | 496.5 | 406.4 | 333.4 | 272.1 | 200.9 | 146.9 | 100.0 |
| 85° | 331.6 | 279.4 | 215.4 | 175.7 | 137.0 | 112.6 | 101.8 | 70.3 | 55.0 | 43.3 | 33.3 |
| 87.5° | 28.8 | 23.4 | 18.9 | 12.6 | 13.5 | 7.2 | 8.1 | 5.4 | 4.5 | 4.5 | 3.6 |
| 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):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 |
| 2.5° | 199.2 | 198.3 | 197.3 | 195.5 | 195.5 | 193.7 | 192.9 | 191.9 | 187.4 | 177.5 | 169.4 |
| 5° | 209.1 | 207.2 | 205.5 | 202.7 | 200.9 | 198.3 | 196.4 | 193.7 | 183.8 | 164.9 | 148.7 |
| 7.5° | 223.5 | 219.9 | 217.2 | 211.8 | 209.1 | 205.5 | 202.7 | 198.3 | 182.0 | 153.2 | 130.7 |
| 10° | 240.6 | 234.3 | 229.8 | 223.5 | 218.1 | 213.5 | 209.1 | 202.7 | 180.2 | 140.6 | 114.4 |
| 12.5° | 261.3 | 254.1 | 245.1 | 237.9 | 230.7 | 224.3 | 218.1 | 210.0 | 177.5 | 129.8 | 101.8 |
| 15° | 282.0 | 271.2 | 264.9 | 255.0 | 245.1 | 236.1 | 227.1 | 219.9 | 178.4 | 118.1 | 91.0 |
| 17.5° | 305.4 | 294.6 | 281.1 | 270.3 | 259.5 | 247.8 | 237.0 | 222.6 | 173.9 | 109.0 | 82.9 |
| 20° | 328.0 | 312.7 | 300.0 | 286.6 | 271.2 | 256.8 | 243.3 | 230.7 | 170.3 | 100.0 | 75.7 |
| 22.5° | 352.3 | 334.3 | 318.1 | 301.0 | 282.0 | 265.8 | 249.6 | 233.4 | 164.0 | 91.9 | 69.4 |
| 25° | 382.1 | 361.4 | 337.9 | 317.2 | 297.4 | 277.5 | 256.8 | 237.0 | 157.7 | 84.7 | 64.9 |
| 27.5° | 418.1 | 391.1 | 367.7 | 341.5 | 313.6 | 288.3 | 265.8 | 244.2 | 151.4 | 79.3 | 60.4 |
| 30° | 464.1 | 432.5 | 399.2 | 365.9 | 336.1 | 307.3 | 275.7 | 248.7 | 145.1 | 73.9 | 55.9 |
| 32.5° | 525.3 | 485.7 | 445.1 | 406.4 | 366.8 | 329.8 | 296.5 | 261.3 | 141.5 | 69.4 | 51.3 |
| 35° | 606.4 | 555.1 | 505.5 | 456.8 | 409.1 | 364.0 | 320.8 | 281.1 | 141.5 | 64.0 | 45.9 |
| 37.5° | 683.0 | 623.6 | 560.5 | 500.1 | 443.3 | 391.1 | 339.7 | 292.0 | 134.3 | 59.5 | 41.5 |
| 40° | 766.0 | 694.7 | 620.9 | 549.7 | 481.2 | 416.3 | 357.7 | 302.8 | 128.0 | 54.1 | 37.0 |
| 42.5° | 893.0 | 802.9 | 706.5 | 623.6 | 541.6 | 461.4 | 388.4 | 323.5 | 119.8 | 48.7 | 32.4 |
| 45° | 1059.7 | 945.3 | 831.7 | 730.8 | 626.3 | 528.1 | 441.6 | 361.4 | 118.1 | 44.1 | 27.9 |
| 47.5° | 1238.1 | 1103.0 | 969.6 | 840.7 | 718.2 | 603.8 | 500.1 | 403.7 | 118.1 | 39.6 | 24.3 |
| 50° | 1415.7 | 1246.2 | 1103.9 | 954.2 | 816.4 | 681.2 | 557.8 | 447.9 | 118.9 | 36.1 | 19.8 |
| 52.5° | 1576.0 | 1394.9 | 1235.4 | 1062.4 | 910.1 | 753.3 | 619.0 | 491.1 | 117.2 | 31.5 | 16.2 |
| 55° | 1798.6 | 1585.9 | 1401.2 | 1210.2 | 1031.8 | 855.1 | 702.9 | 556.0 | 118.1 | 27.9 | 13.5 |
| 57.5° | 2208.6 | 1959.0 | 1736.4 | 1485.9 | 1280.5 | 1052.5 | 867.7 | 689.3 | 128.9 | 23.4 | 9.9 |
| 60° | 2797.0 | 2472.6 | 2159.9 | 1854.5 | 1593.1 | 1321.9 | 1082.2 | 872.3 | 151.4 | 18.9 | 7.2 |
| 62.5° | 3192.6 | 2768.2 | 2395.2 | 2058.1 | 1754.4 | 1470.6 | 1209.3 | 970.5 | 166.7 | 15.3 | 4.5 |
| 63° | 3233.1 | 2794.3 | 2419.5 | 2071.6 | 1761.7 | 1477.8 | 1214.7 | 977.7 | 167.6 | 14.4 | 4.5 |
| 65° | 3309.8 | 2839.4 | 2433.0 | 2074.3 | 1754.4 | 1467.9 | 1211.1 | 976.8 | 169.4 | 11.7 | 3.6 |
| 67.5° | 3222.3 | 2770.0 | 2354.6 | 1996.8 | 1691.4 | 1409.3 | 1166.0 | 940.8 | 168.5 | 8.1 | 2.7 |
| 70° | 2881.7 | 2506.9 | 2141.9 | 1808.5 | 1531.0 | 1276.0 | 1061.5 | 857.9 | 155.0 | 5.4 | 1.8 |
| 72.5° | 2115.8 | 1860.8 | 1577.9 | 1337.2 | 1153.4 | 957.9 | 817.3 | 644.3 | 119.8 | 3.6 | 0.9 |
| 75° | 627.2 | 571.3 | 480.3 | 423.5 | 374.0 | 309.1 | 274.8 | 214.5 | 61.3 | 1.8 | 0.0 |
| 77.5° | 125.2 | 113.5 | 101.8 | 92.8 | 87.4 | 74.8 | 71.2 | 58.6 | 25.2 | 0.9 | 0.0 |
| 80° | 65.8 | 54.1 | 45.9 | 40.5 | 35.1 | 28.8 | 24.3 | 19.8 | 4.5 | 0.0 | 0.0 |
| 82.5° | 63.1 | 42.4 | 30.7 | 25.2 | 21.6 | 17.1 | 13.5 | 9.9 | 2.7 | 0.0 | 0.0 |
| 85° | 23.4 | 18.0 | 13.5 | 10.8 | 9.0 | 8.1 | 6.3 | 5.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.6 | 2.7 | 2.7 | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 | 190.1 |
| 2.5° | 161.3 | 154.1 | 150.5 | 146.0 | 146.0 | 145.1 | 146.9 |
| 5° | 134.3 | 124.4 | 117.2 | 111.8 | 112.6 | 109.9 | 110.8 |
| 7.5° | 113.5 | 103.6 | 97.3 | 93.7 | 92.8 | 91.9 | 91.9 |
| 10° | 98.2 | 89.2 | 83.8 | 81.1 | 80.2 | 80.2 | 80.2 |
| 12.5° | 87.4 | 78.4 | 73.9 | 72.1 | 72.1 | 71.2 | 71.2 |
| 15° | 78.4 | 71.2 | 66.7 | 64.9 | 64.9 | 64.0 | 64.9 |
| 17.5° | 71.2 | 64.0 | 60.4 | 58.6 | 58.6 | 57.7 | 57.7 |
| 20° | 64.9 | 58.6 | 55.0 | 52.3 | 52.3 | 51.3 | 52.3 |
| 22.5° | 59.5 | 53.2 | 48.7 | 46.9 | 45.9 | 45.0 | 45.9 |
| 25° | 54.1 | 47.8 | 43.3 | 40.5 | 39.6 | 39.6 | 38.7 |
| 27.5° | 49.6 | 43.3 | 37.8 | 35.1 | 34.2 | 34.2 | 33.3 |
| 30° | 45.0 | 37.8 | 32.4 | 29.7 | 28.8 | 28.8 | 28.8 |
| 32.5° | 40.5 | 32.4 | 27.9 | 25.2 | 24.3 | 24.3 | 24.3 |
| 35° | 36.1 | 27.9 | 23.4 | 20.7 | 19.8 | 19.8 | 19.8 |
| 37.5° | 30.7 | 23.4 | 18.0 | 16.2 | 15.3 | 14.4 | 14.4 |
| 40° | 26.1 | 18.0 | 13.5 | 11.7 | 9.9 | 9.9 | 9.9 |
| 42.5° | 21.6 | 14.4 | 9.9 | 7.2 | 6.3 | 5.4 | 6.3 |
| 45° | 18.0 | 10.8 | 6.3 | 3.6 | 2.7 | 2.7 | 2.7 |
| 47.5° | 14.4 | 7.2 | 2.7 | 0.9 | 0.9 | 0.9 | 0.9 |
| 50° | 10.8 | 4.5 | 0.9 | 0.0 | 0.0 | 0.9 | 0.9 |
| 52.5° | 8.1 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 4.5 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 63° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 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 |

(END OF REPORT)