

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: P416300

Luminaire Tested: **LXF.LXT-PA1-70-730-U-T2U**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-70-730-U-T2U
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7738 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

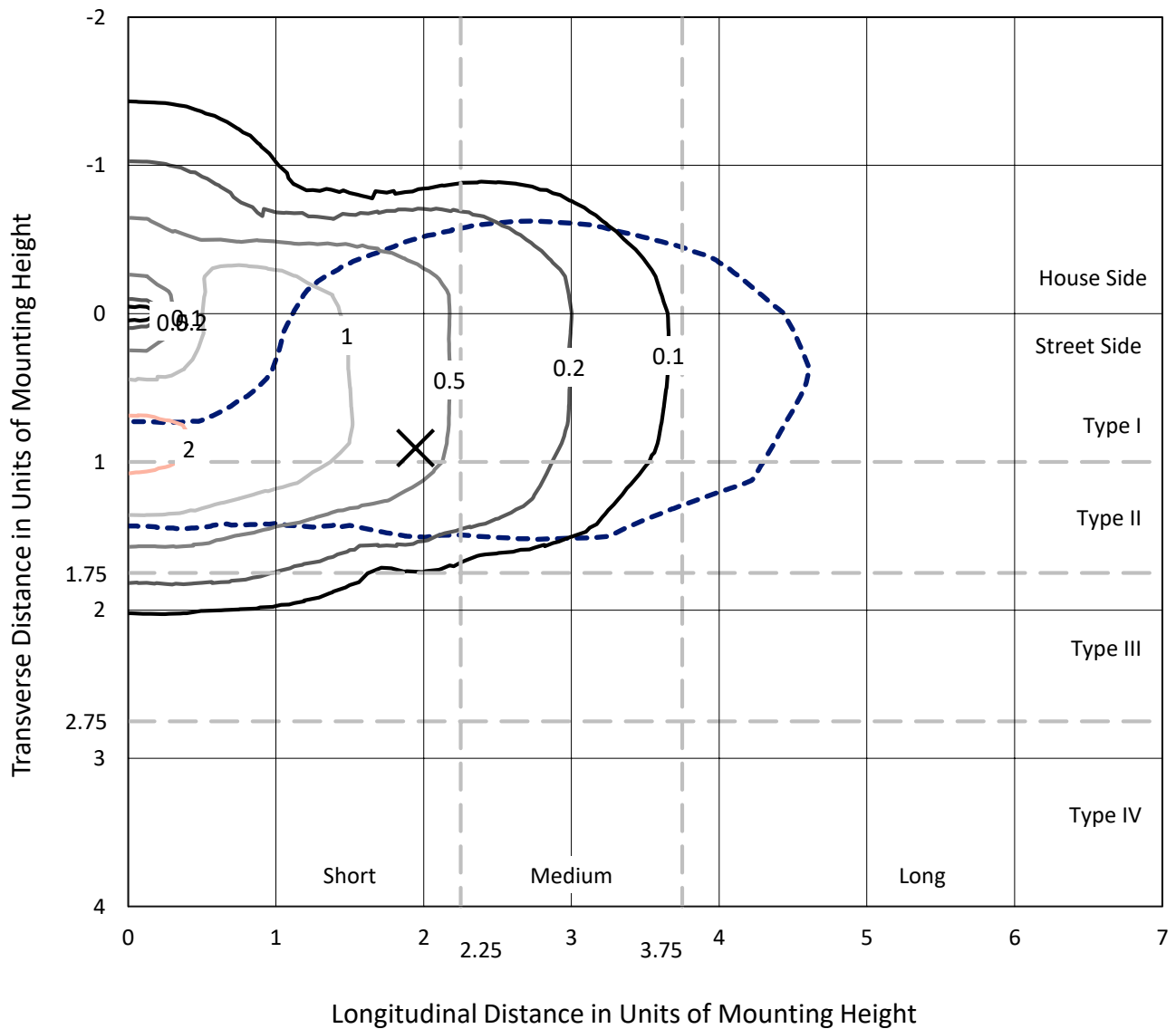
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

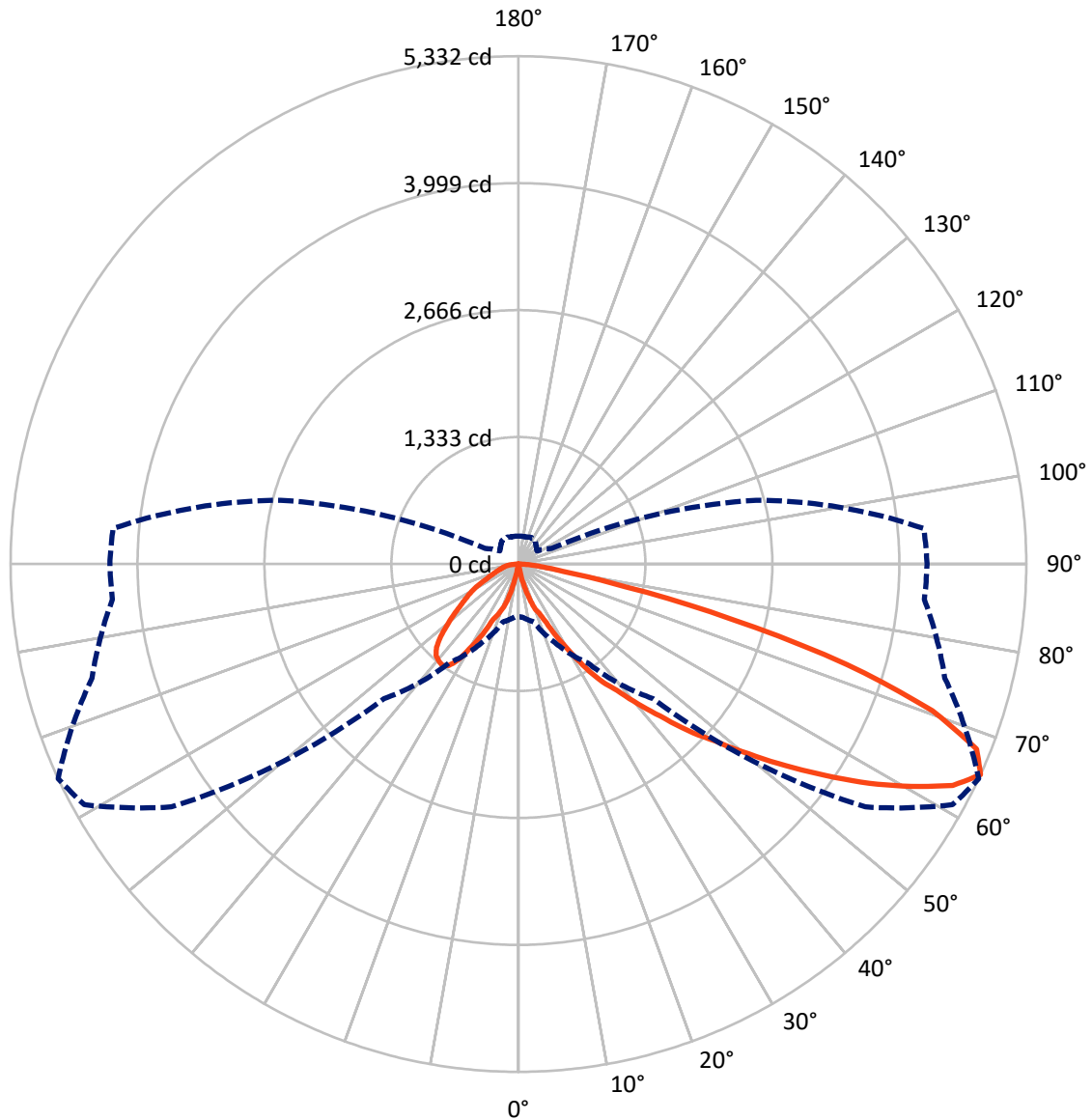
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2087.9 | 0.0 | 2087.9 |
| | % Fixture | 27.0 | 0.0 | 27.0 |
| Street Side | Lumens | 5650.1 | 0.0 | 5650.1 |
| | % Fixture | 73.0 | 0.0 | 73.0 |
| Total | Lumens | 7738.0 | 0.0 | 7738.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.6 | 0.1 |
| 10°-20° | 85.5 | 1.1 |
| 20°-30° | 329.1 | 4.3 |
| 30°-40° | 823.7 | 10.6 |
| 40°-50° | 1533.6 | 19.8 |
| 50°-60° | 2008.2 | 26.0 |
| 60°-70° | 1800.3 | 23.3 |
| 70°-80° | 990.2 | 12.8 |
| 80°-90° | 161.8 | 2.1 |
| 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° | 7738.0 | 100.0 |
| 0°-180° | 7738.0 | 100.0 |



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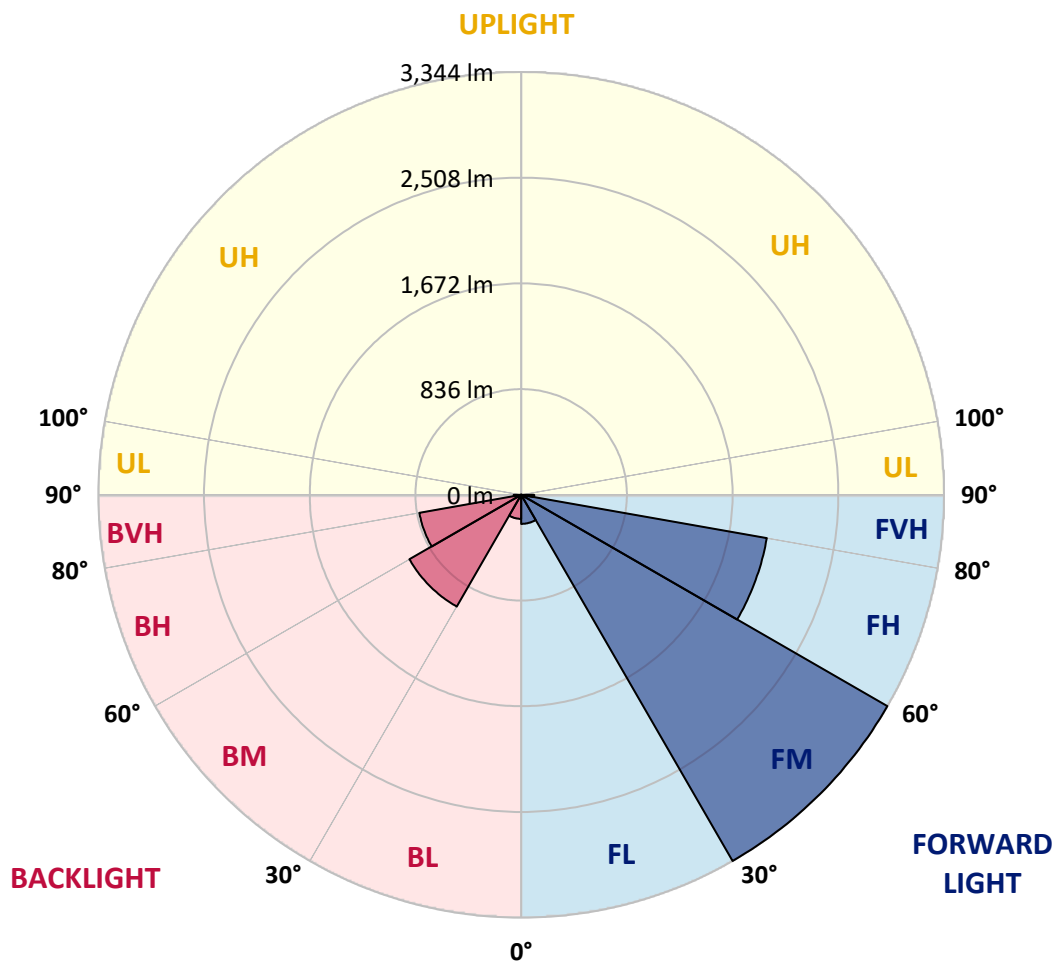
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 230.0 | 3.0 | | | |
| FM | (30°-60°) | 3344.5 | 43.2 | | | |
| FH | (60°-80°) | 1972.9 | 25.5 | | | G2/5000 |
| FVH | (80°-90°) | 102.7 | 1.3 | | | G2/225 |
| BL | (0°-30°) | 190.2 | 2.5 | B1/500 | | |
| BM | (30°-60°) | 1020.9 | 13.2 | B2/2500 | | |
| BH | (60°-80°) | 817.6 | 10.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 59.1 | 0.8 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 61° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 2.5° | 4.2 | 4.2 | 5.0 | 5.8 | 5.8 | 5.0 | 4.2 | 3.3 | 2.5 | 1.7 | 1.7 |
| 5° | 38.3 | 34.2 | 26.7 | 18.3 | 10.8 | 8.3 | 6.7 | 5.0 | 4.2 | 2.5 | 1.7 |
| 7.5° | 187.5 | 186.6 | 185.8 | 186.6 | 182.5 | 71.7 | 13.3 | 8.3 | 6.7 | 3.3 | 2.5 |
| 10° | 188.3 | 187.5 | 186.6 | 188.3 | 188.3 | 185.8 | 176.6 | 25.8 | 13.3 | 8.3 | 8.3 |
| 12.5° | 334.9 | 323.3 | 223.3 | 196.6 | 190.0 | 190.0 | 190.0 | 170.0 | 161.6 | 119.1 | 144.1 |
| 15° | 351.6 | 349.1 | 348.3 | 349.9 | 309.9 | 205.0 | 286.6 | 270.0 | 273.3 | 233.3 | 276.6 |
| 17.5° | 369.9 | 365.8 | 362.4 | 363.3 | 349.1 | 402.4 | 376.6 | 384.9 | 388.3 | 294.9 | 323.3 |
| 20° | 573.2 | 573.2 | 529.9 | 401.6 | 440.8 | 504.9 | 416.6 | 457.4 | 506.6 | 440.8 | 452.4 |
| 22.5° | 650.7 | 644.9 | 639.1 | 605.7 | 554.1 | 550.7 | 605.7 | 530.7 | 563.2 | 647.4 | 598.2 |
| 25° | 884.8 | 886.5 | 743.2 | 699.0 | 774.0 | 674.9 | 723.2 | 719.0 | 680.7 | 784.9 | 758.2 |
| 27.5° | 1119.8 | 1123.1 | 1107.3 | 985.7 | 884.8 | 868.2 | 823.2 | 887.3 | 877.4 | 870.7 | 933.2 |
| 30° | 1338.9 | 1338.1 | 1266.5 | 1215.6 | 1161.5 | 1064.8 | 1014.8 | 1028.2 | 1068.2 | 1031.5 | 1164.0 |
| 32.5° | 1863.0 | 1848.9 | 1772.2 | 1449.8 | 1366.4 | 1275.6 | 1261.5 | 1224.0 | 1303.9 | 1278.1 | 1400.6 |
| 35° | 2212.1 | 2208.8 | 2069.6 | 1888.0 | 1624.7 | 1523.9 | 1525.6 | 1455.6 | 1521.4 | 1554.7 | 1573.9 |
| 37.5° | 2992.0 | 2980.3 | 2768.7 | 2236.3 | 2028.8 | 1821.4 | 1783.0 | 1749.7 | 1681.4 | 1778.0 | 1777.2 |
| 40° | 3411.9 | 3378.6 | 3192.0 | 2841.2 | 2382.1 | 2132.1 | 2052.1 | 1980.5 | 1931.3 | 1988.0 | 1980.5 |
| 42.5° | 3738.5 | 3712.7 | 3581.1 | 3217.8 | 2842.8 | 2648.7 | 2350.4 | 2282.1 | 2183.0 | 2250.4 | 2215.5 |
| 45° | 3972.7 | 3959.3 | 3841.8 | 3571.9 | 3284.4 | 3142.0 | 2687.0 | 2580.4 | 2494.6 | 2485.4 | 2464.6 |
| 47.5° | 4017.6 | 3989.3 | 3954.3 | 3802.7 | 3680.2 | 3637.7 | 3103.6 | 2919.5 | 2777.9 | 2751.2 | 2716.2 |
| 50° | 3805.2 | 3796.9 | 3842.7 | 3815.2 | 3964.3 | 4063.5 | 3584.4 | 3329.4 | 3131.1 | 3037.0 | 2969.5 |
| 52.5° | 3312.8 | 3330.3 | 3506.1 | 3628.5 | 4000.1 | 4360.1 | 4036.0 | 3789.4 | 3518.6 | 3311.1 | 3220.3 |
| 55° | 2632.1 | 2695.4 | 2956.2 | 3211.1 | 3776.0 | 4488.4 | 4464.2 | 4270.1 | 3921.0 | 3617.7 | 3483.6 |
| 57.5° | 2021.3 | 2014.7 | 2350.4 | 2582.1 | 3321.1 | 4402.6 | 4742.5 | 4687.5 | 4344.3 | 3936.0 | 3735.2 |
| 60° | 1309.8 | 1303.9 | 1700.5 | 1997.2 | 2559.6 | 3962.7 | 4886.7 | 5030.8 | 4741.7 | 4210.9 | 3961.8 |
| 62.5° | 854.9 | 890.7 | 1041.5 | 1463.1 | 1828.0 | 3064.5 | 4838.3 | 5244.1 | 5120.0 | 4465.9 | 4179.3 |
| 65° | 549.9 | 563.2 | 629.1 | 911.5 | 1267.3 | 1998.8 | 4446.7 | 5212.4 | 5332.4 | 4635.9 | 4278.4 |
| 67.5° | 409.9 | 413.3 | 444.9 | 566.6 | 862.4 | 1044.8 | 3490.2 | 4772.5 | 5188.3 | 4647.5 | 4245.9 |
| 70° | 359.9 | 366.6 | 397.4 | 427.4 | 641.6 | 657.4 | 2040.5 | 3836.8 | 4610.0 | 4480.1 | 4081.8 |
| 72.5° | 307.4 | 314.1 | 354.9 | 398.3 | 490.7 | 493.2 | 763.2 | 2549.6 | 3609.4 | 4140.1 | 3818.5 |
| 75° | 250.8 | 255.0 | 290.8 | 349.1 | 409.1 | 395.8 | 441.6 | 1152.3 | 2310.4 | 3441.1 | 3406.1 |
| 77.5° | 202.5 | 205.8 | 231.6 | 278.3 | 362.4 | 303.3 | 329.1 | 494.1 | 1148.1 | 2484.6 | 2759.5 |
| 80° | 146.6 | 148.3 | 173.3 | 213.3 | 272.5 | 270.8 | 245.8 | 313.3 | 474.1 | 1451.4 | 1827.2 |
| 82.5° | 93.3 | 93.3 | 119.1 | 140.0 | 180.8 | 267.5 | 172.5 | 210.8 | 265.0 | 722.4 | 879.0 |
| 85° | 52.5 | 54.2 | 75.0 | 81.7 | 105.8 | 162.5 | 124.1 | 116.6 | 143.3 | 261.6 | 216.6 |
| 87.5° | 10.0 | 12.5 | 21.7 | 23.3 | 27.5 | 38.3 | 45.0 | 40.8 | 42.5 | 60.8 | 35.8 |
| 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° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 2.5° | 1.7 | 2.5 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 2.5 | 2.5 |
| 5° | 1.7 | 2.5 | 3.3 | 3.3 | 4.2 | 5.8 | 6.7 | 6.7 | 7.5 | 8.3 | 7.5 |
| 7.5° | 1.7 | 2.5 | 3.3 | 5.0 | 6.7 | 13.3 | 48.3 | 170.8 | 183.3 | 185.8 | 189.1 |
| 10° | 7.5 | 7.5 | 8.3 | 9.2 | 37.5 | 179.1 | 192.5 | 194.1 | 195.8 | 196.6 | 197.5 |
| 12.5° | 146.6 | 145.0 | 144.1 | 110.8 | 170.8 | 197.5 | 200.0 | 201.6 | 204.1 | 243.3 | 263.3 |
| 15° | 280.0 | 280.8 | 266.6 | 255.8 | 297.4 | 216.6 | 230.8 | 356.6 | 369.1 | 373.3 | 375.8 |
| 17.5° | 320.8 | 334.9 | 297.4 | 394.9 | 391.6 | 329.9 | 363.3 | 382.4 | 384.1 | 386.6 | 387.4 |
| 20° | 455.8 | 452.4 | 433.3 | 494.9 | 424.1 | 542.4 | 449.9 | 387.4 | 487.4 | 536.6 | 537.4 |
| 22.5° | 591.6 | 592.4 | 564.9 | 571.6 | 609.9 | 558.2 | 450.8 | 511.6 | 524.1 | 523.2 | 520.7 |
| 25° | 762.4 | 755.7 | 742.4 | 635.7 | 719.9 | 607.4 | 599.9 | 495.7 | 497.4 | 537.4 | 563.2 |
| 27.5° | 932.3 | 915.7 | 863.2 | 824.0 | 747.4 | 675.7 | 566.6 | 536.6 | 578.2 | 575.7 | 576.6 |
| 30° | 1167.3 | 1141.5 | 996.5 | 991.5 | 793.2 | 669.1 | 576.6 | 534.1 | 519.9 | 523.2 | 521.6 |
| 32.5° | 1402.3 | 1355.6 | 1224.8 | 1182.3 | 845.7 | 623.2 | 529.1 | 493.2 | 534.1 | 539.9 | 536.6 |
| 35° | 1547.2 | 1508.9 | 1463.9 | 1294.8 | 851.5 | 574.1 | 479.1 | 487.4 | 484.9 | 482.4 | 484.1 |
| 37.5° | 1716.4 | 1653.9 | 1614.7 | 1333.1 | 803.2 | 512.4 | 456.6 | 449.9 | 489.9 | 490.7 | 487.4 |
| 40° | 1905.5 | 1834.7 | 1747.2 | 1315.6 | 693.2 | 464.1 | 424.1 | 445.8 | 448.3 | 438.3 | 435.8 |
| 42.5° | 2118.8 | 2015.5 | 1885.5 | 1292.3 | 574.9 | 435.8 | 411.6 | 414.1 | 415.8 | 404.9 | 400.8 |
| 45° | 2333.8 | 2213.0 | 2003.8 | 1227.3 | 489.1 | 407.4 | 392.4 | 391.6 | 383.3 | 373.3 | 370.8 |
| 47.5° | 2574.6 | 2432.9 | 2101.3 | 1114.0 | 428.3 | 385.8 | 379.9 | 364.1 | 366.6 | 357.4 | 356.6 |
| 50° | 2822.9 | 2670.4 | 2157.1 | 978.2 | 388.3 | 367.4 | 357.4 | 352.4 | 359.1 | 348.3 | 346.6 |
| 52.5° | 3066.1 | 2938.7 | 2245.4 | 856.5 | 354.1 | 351.6 | 347.4 | 349.1 | 351.6 | 339.9 | 339.1 |
| 55° | 3330.3 | 3238.6 | 2326.3 | 740.7 | 324.1 | 329.9 | 344.1 | 343.3 | 342.4 | 331.6 | 331.6 |
| 57.5° | 3572.7 | 3527.7 | 2408.8 | 651.6 | 300.8 | 310.8 | 336.6 | 336.6 | 332.4 | 323.3 | 322.4 |
| 60° | 3854.3 | 3821.0 | 2487.1 | 571.6 | 280.8 | 293.3 | 327.4 | 328.3 | 320.8 | 314.1 | 312.4 |
| 62.5° | 4110.1 | 4085.1 | 2549.6 | 487.4 | 259.1 | 278.3 | 314.1 | 319.9 | 309.1 | 304.1 | 304.1 |
| 65° | 4290.1 | 4272.6 | 2583.7 | 383.3 | 238.3 | 263.3 | 299.9 | 308.3 | 294.1 | 293.3 | 293.3 |
| 67.5° | 4305.9 | 4295.1 | 2512.9 | 319.9 | 223.3 | 249.1 | 282.5 | 290.8 | 278.3 | 280.8 | 275.8 |
| 70° | 4158.5 | 4079.3 | 2312.1 | 266.6 | 208.3 | 230.8 | 261.6 | 271.6 | 259.1 | 260.0 | 251.6 |
| 72.5° | 3846.8 | 3618.5 | 1957.2 | 226.6 | 191.6 | 210.8 | 239.1 | 248.3 | 236.6 | 234.1 | 225.0 |
| 75° | 3322.8 | 2970.3 | 1362.3 | 196.6 | 174.1 | 189.1 | 211.6 | 220.8 | 213.3 | 200.8 | 198.3 |
| 77.5° | 2573.7 | 2177.1 | 834.9 | 170.0 | 158.3 | 166.6 | 183.3 | 188.3 | 180.8 | 165.8 | 163.3 |
| 80° | 1622.2 | 1305.6 | 402.4 | 147.5 | 137.5 | 141.6 | 152.5 | 156.6 | 150.8 | 135.8 | 127.5 |
| 82.5° | 743.2 | 564.1 | 212.5 | 119.1 | 111.6 | 111.6 | 122.5 | 119.1 | 114.1 | 100.0 | 80.8 |
| 85° | 173.3 | 178.3 | 98.3 | 73.3 | 70.8 | 63.3 | 73.3 | 72.5 | 65.0 | 50.0 | 41.7 |
| 87.5° | 28.3 | 31.7 | 25.0 | 22.5 | 18.3 | 14.2 | 15.8 | 13.3 | 11.7 | 5.8 | 2.5 |
| 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)