

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: P965076

Luminaire Tested: **NVN-SB3D-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3D-730-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31233.8 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

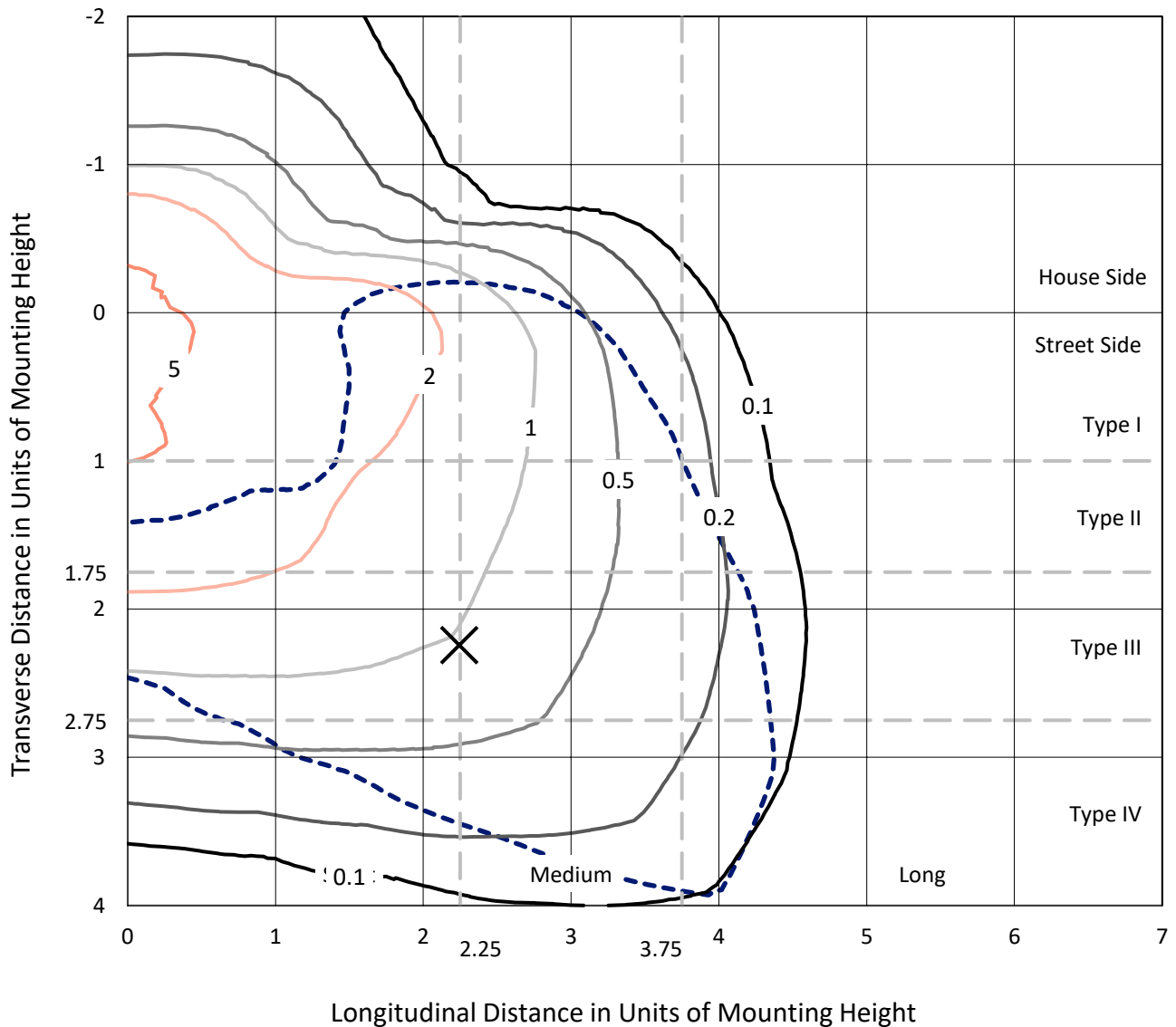
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

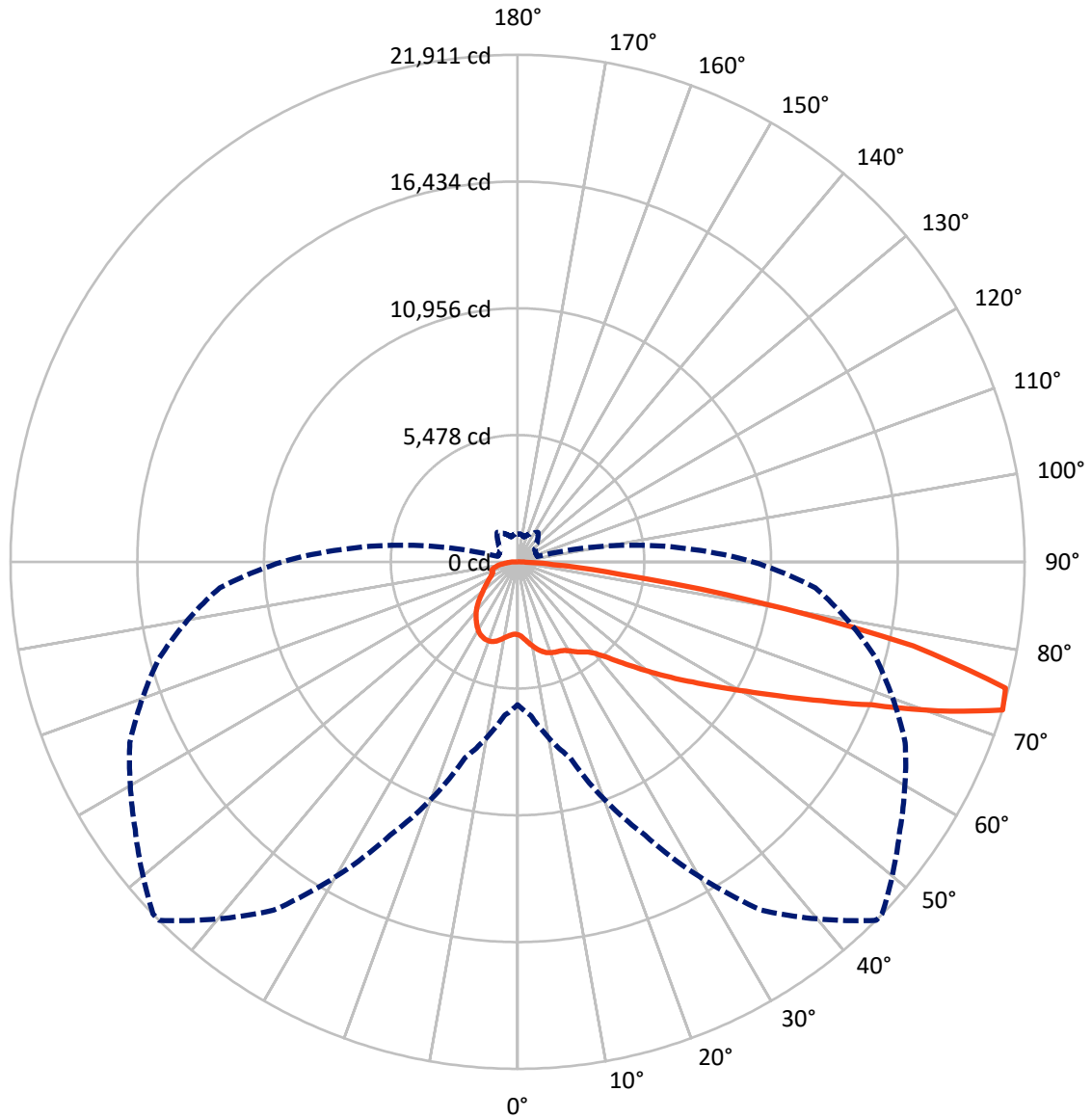
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7060.9 | 0.0 | 7060.9 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 24172.9 | 0.0 | 24172.9 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 31233.8 | 0.0 | 31233.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 320.7 | 1.0 |
| 10°-20° | 1069.2 | 3.4 |
| 20°-30° | 1860.0 | 6.0 |
| 30°-40° | 2666.4 | 8.5 |
| 40°-50° | 3754.5 | 12.0 |
| 50°-60° | 5750.8 | 18.4 |
| 60°-70° | 8330.9 | 26.7 |
| 70°-80° | 6652.7 | 21.3 |
| 80°-90° | 828.6 | 2.7 |
| 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° | 31233.8 | 100.0 |
| 0°-180° | 31233.8 | 100.0 |

Coefficient of Utilization

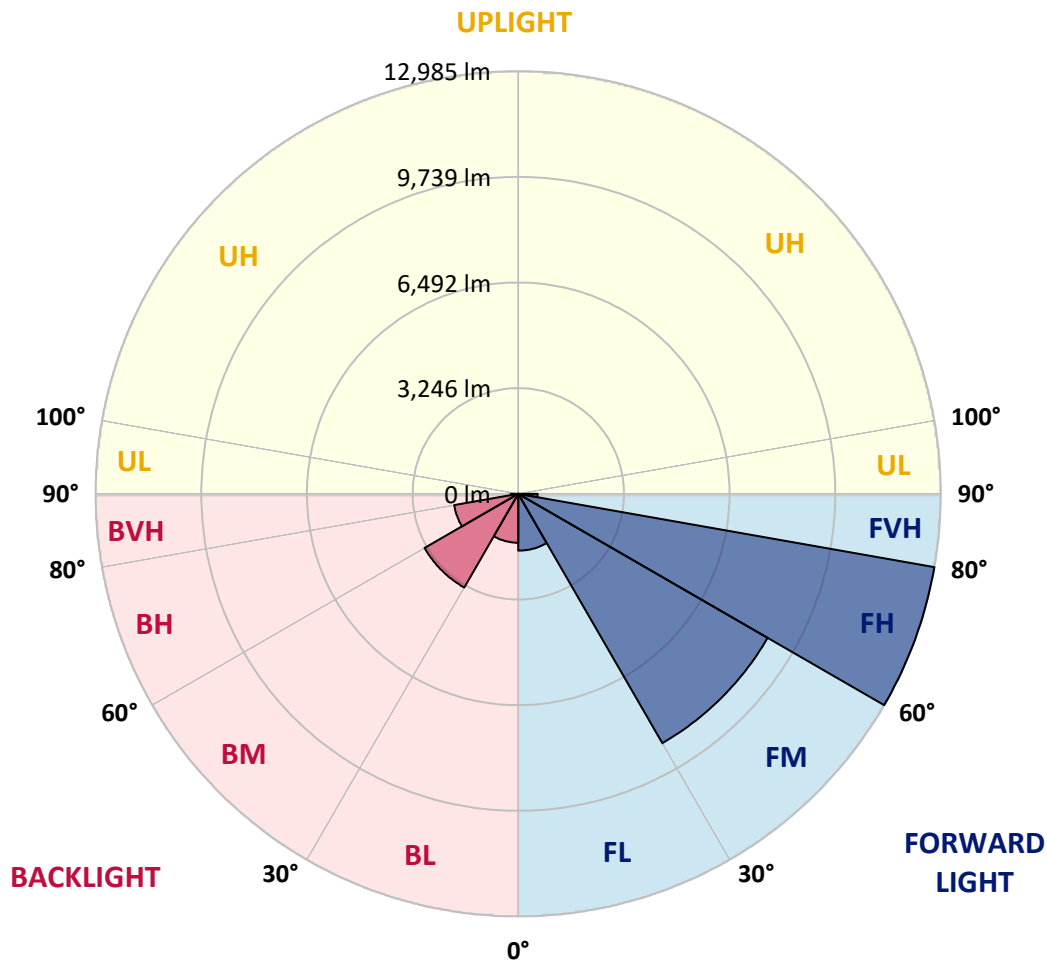


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1746.6 | 5.6 | | | |
| FM (30°-60°) | 8847.0 | 28.3 | | | |
| FH (60°-80°) | 12984.8 | 41.6 | | | G5 |
| FVH (80°-90°) | 594.4 | 1.9 | | | G4/750 |
| BL (0°-30°) | 1503.3 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 3324.7 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 1998.7 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 234.1 | 0.7 | | | G3/500 |
| 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° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 |
| 2.5° | 3274.3 | 3295.7 | 3275.9 | 3257.9 | 3249.6 | 3228.2 | 3226.6 | 3213.4 | 3205.2 | 3182.1 | 3175.6 |
| 5° | 3503.0 | 3530.9 | 3498.0 | 3461.8 | 3428.9 | 3376.2 | 3369.7 | 3331.9 | 3289.1 | 3239.7 | 3211.7 |
| 7.5° | 3761.3 | 3786.0 | 3748.1 | 3693.9 | 3636.3 | 3549.1 | 3547.4 | 3478.3 | 3410.9 | 3326.9 | 3279.2 |
| 10° | 3986.7 | 4019.6 | 3968.6 | 3894.6 | 3822.2 | 3723.5 | 3711.9 | 3633.0 | 3547.4 | 3438.8 | 3366.4 |
| 12.5° | 4185.8 | 4208.9 | 4159.4 | 4069.0 | 3985.1 | 3886.4 | 3871.5 | 3784.3 | 3688.9 | 3565.6 | 3473.4 |
| 15° | 4343.7 | 4373.4 | 4307.6 | 4210.5 | 4121.6 | 4024.6 | 4011.4 | 3932.4 | 3837.0 | 3707.0 | 3588.5 |
| 17.5° | 4447.5 | 4472.1 | 4404.6 | 4296.1 | 4210.5 | 4129.8 | 4120.0 | 4054.2 | 3970.2 | 3838.6 | 3711.9 |
| 20° | 4486.9 | 4513.3 | 4442.5 | 4332.3 | 4253.2 | 4190.7 | 4185.8 | 4138.1 | 4080.5 | 3960.4 | 3832.1 |
| 22.5° | 4526.4 | 4551.1 | 4459.0 | 4343.7 | 4274.7 | 4235.2 | 4233.6 | 4202.3 | 4179.2 | 4080.5 | 3955.5 |
| 25° | 4686.0 | 4692.6 | 4569.1 | 4403.0 | 4304.3 | 4269.7 | 4268.1 | 4266.5 | 4276.3 | 4199.0 | 4088.7 |
| 27.5° | 4824.3 | 4822.6 | 4717.3 | 4560.9 | 4407.9 | 4335.5 | 4333.9 | 4350.4 | 4381.7 | 4317.4 | 4227.0 |
| 30° | 5026.6 | 5008.5 | 4883.4 | 4720.5 | 4580.7 | 4468.8 | 4459.0 | 4444.1 | 4468.8 | 4417.9 | 4365.2 |
| 32.5° | 5456.1 | 5398.5 | 5196.0 | 4906.5 | 4723.8 | 4638.3 | 4625.1 | 4533.0 | 4542.9 | 4511.6 | 4485.3 |
| 35° | 6071.4 | 5995.7 | 5725.9 | 5258.6 | 4901.5 | 4779.8 | 4773.2 | 4656.4 | 4636.7 | 4608.7 | 4618.5 |
| 37.5° | 6803.6 | 6709.9 | 6395.6 | 5768.7 | 5207.6 | 4944.3 | 4934.5 | 4829.2 | 4748.5 | 4718.9 | 4774.9 |
| 40° | 7539.1 | 7420.6 | 7160.6 | 6390.6 | 5658.4 | 5219.1 | 5187.8 | 5028.2 | 4936.1 | 4886.8 | 5005.2 |
| 42.5° | 8253.2 | 8154.5 | 7932.4 | 7088.3 | 6214.6 | 5620.6 | 5551.5 | 5278.3 | 5209.3 | 5163.1 | 5377.0 |
| 45° | 8885.0 | 8796.1 | 8633.3 | 7833.6 | 6866.2 | 6166.8 | 6099.4 | 5653.5 | 5632.1 | 5632.1 | 5941.4 |
| 47.5° | 9398.3 | 9378.6 | 9205.8 | 8593.8 | 7634.5 | 6788.8 | 6671.9 | 6175.1 | 6232.6 | 6321.5 | 6742.8 |
| 50° | 9967.6 | 9913.4 | 9729.1 | 9342.4 | 8537.8 | 7501.3 | 7405.8 | 6815.1 | 7030.7 | 7274.2 | 7901.1 |
| 52.5° | 10490.9 | 10520.5 | 10314.8 | 10122.3 | 9557.9 | 8295.9 | 8128.1 | 7570.3 | 8036.0 | 8439.1 | 9258.5 |
| 55° | 11028.9 | 11030.5 | 10972.9 | 10946.7 | 10627.4 | 9174.6 | 8990.3 | 8478.6 | 9219.1 | 9719.2 | 10841.3 |
| 57.5° | 11534.0 | 11537.3 | 11622.9 | 11854.8 | 11868.1 | 10188.1 | 9979.2 | 9594.1 | 10533.6 | 11043.8 | 12473.5 |
| 60° | 11984.9 | 12007.9 | 12241.6 | 12784.5 | 12959.0 | 11349.7 | 11152.3 | 10912.0 | 11892.8 | 12406.1 | 14189.7 |
| 62.5° | 12136.2 | 12220.2 | 12740.1 | 13511.8 | 14036.7 | 12774.7 | 12580.5 | 12437.3 | 13320.9 | 13798.0 | 15624.4 |
| 65° | 11879.5 | 12072.0 | 13077.4 | 14112.3 | 15145.6 | 14467.8 | 14275.2 | 14119.0 | 14805.0 | 15254.3 | 16802.5 |
| 67.5° | 11249.4 | 11497.8 | 13057.7 | 14742.5 | 16491.5 | 16504.7 | 16325.4 | 15958.4 | 16396.1 | 16568.9 | 17185.9 |
| 70° | 9589.2 | 9961.1 | 11907.5 | 14977.8 | 18036.5 | 19290.3 | 19117.6 | 18173.1 | 17983.9 | 17148.0 | 16106.5 |
| 72.5° | 6178.4 | 6678.6 | 8768.2 | 13041.2 | 18380.4 | 21911.4 | 21901.5 | 20172.2 | 18485.8 | 16022.6 | 12917.8 |
| 75° | 2254.2 | 2560.2 | 4074.0 | 8185.8 | 15428.6 | 21778.1 | 21842.2 | 19830.0 | 16874.9 | 12376.5 | 8047.5 |
| 77.5° | 821.0 | 898.4 | 1329.4 | 3145.9 | 9488.8 | 17473.8 | 17607.1 | 15853.2 | 12011.2 | 6211.3 | 3188.8 |
| 80° | 431.1 | 473.9 | 681.2 | 1220.9 | 4065.7 | 10377.3 | 10586.3 | 9421.4 | 5645.3 | 1870.8 | 955.9 |
| 82.5° | 238.6 | 258.3 | 381.7 | 663.1 | 1831.3 | 4437.5 | 4562.6 | 3721.8 | 1985.9 | 793.0 | 394.9 |
| 85° | 128.3 | 136.5 | 179.4 | 362.0 | 895.0 | 1538.4 | 1573.0 | 1112.2 | 791.4 | 465.7 | 190.9 |
| 87.5° | 37.8 | 46.0 | 59.2 | 115.2 | 350.4 | 345.5 | 353.7 | 220.5 | 312.6 | 235.2 | 62.5 |
| 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° | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 | 3150.8 |
| 2.5° | 3165.7 | 3160.8 | 3142.6 | 3134.4 | 3124.5 | 3122.9 | 3131.2 | 3132.8 | 3134.4 | 3136.1 | 3142.6 |
| 5° | 3195.3 | 3178.8 | 3162.4 | 3152.5 | 3155.8 | 3157.5 | 3173.9 | 3185.4 | 3193.7 | 3200.3 | 3203.5 |
| 7.5° | 3252.9 | 3239.7 | 3211.7 | 3210.1 | 3215.0 | 3229.9 | 3251.3 | 3277.5 | 3292.4 | 3303.9 | 3307.2 |
| 10° | 3338.4 | 3313.8 | 3280.8 | 3285.8 | 3295.7 | 3317.1 | 3361.5 | 3382.9 | 3407.5 | 3428.9 | 3424.0 |
| 12.5° | 3425.7 | 3404.2 | 3366.4 | 3369.7 | 3386.2 | 3424.0 | 3466.8 | 3493.1 | 3509.6 | 3526.0 | 3532.6 |
| 15° | 3539.2 | 3501.3 | 3460.2 | 3460.2 | 3489.8 | 3530.9 | 3550.7 | 3572.1 | 3582.0 | 3600.1 | 3606.7 |
| 17.5° | 3656.0 | 3606.7 | 3552.3 | 3549.1 | 3585.2 | 3605.0 | 3616.5 | 3619.8 | 3623.1 | 3642.8 | 3649.4 |
| 20° | 3772.8 | 3718.5 | 3641.2 | 3634.6 | 3642.8 | 3639.6 | 3637.9 | 3634.6 | 3639.6 | 3664.3 | 3674.1 |
| 22.5° | 3888.0 | 3825.5 | 3718.5 | 3688.9 | 3665.9 | 3634.6 | 3633.0 | 3631.4 | 3634.6 | 3659.4 | 3675.8 |
| 25° | 4022.9 | 3947.3 | 3804.1 | 3715.2 | 3637.9 | 3595.1 | 3600.1 | 3601.7 | 3605.0 | 3624.7 | 3651.0 |
| 27.5° | 4169.4 | 4085.4 | 3883.1 | 3707.0 | 3567.2 | 3537.6 | 3529.3 | 3534.3 | 3545.8 | 3577.0 | 3608.3 |
| 30° | 4315.8 | 4217.1 | 3955.5 | 3674.1 | 3478.3 | 3437.1 | 3410.9 | 3422.4 | 3458.6 | 3489.8 | 3524.4 |
| 32.5° | 4449.1 | 4350.4 | 4013.1 | 3601.7 | 3364.8 | 3300.6 | 3266.1 | 3280.8 | 3317.1 | 3328.6 | 3369.7 |
| 35° | 4605.4 | 4493.5 | 4037.8 | 3486.5 | 3241.4 | 3142.6 | 3096.6 | 3075.2 | 3093.2 | 3081.8 | 3117.9 |
| 37.5° | 4779.8 | 4662.9 | 4034.4 | 3335.1 | 3096.6 | 2983.1 | 2918.9 | 2838.2 | 2800.4 | 2760.9 | 2785.6 |
| 40° | 5038.1 | 4870.3 | 3994.9 | 3152.5 | 2917.3 | 2813.6 | 2698.4 | 2561.9 | 2476.3 | 2398.9 | 2403.9 |
| 42.5° | 5390.3 | 5158.2 | 3922.6 | 2951.8 | 2714.8 | 2617.7 | 2461.4 | 2301.8 | 2167.0 | 2038.6 | 2027.1 |
| 45° | 5915.1 | 5535.0 | 3832.1 | 2737.9 | 2496.0 | 2400.5 | 2231.1 | 2051.7 | 1898.7 | 1734.2 | 1714.5 |
| 47.5° | 6671.9 | 6041.8 | 3746.5 | 2494.3 | 2265.7 | 2178.4 | 2025.4 | 1859.2 | 1678.2 | 1518.6 | 1500.6 |
| 50° | 7711.9 | 6769.1 | 3667.6 | 2257.5 | 2038.6 | 1972.8 | 1851.0 | 1681.6 | 1499.0 | 1370.6 | 1362.3 |
| 52.5° | 9034.8 | 7757.9 | 3634.6 | 2028.8 | 1826.3 | 1801.6 | 1704.6 | 1546.6 | 1373.9 | 1265.3 | 1257.1 |
| 55° | 10553.4 | 8941.0 | 3634.6 | 1809.9 | 1640.4 | 1648.6 | 1581.2 | 1434.8 | 1285.0 | 1188.0 | 1178.1 |
| 57.5° | 12103.3 | 10138.8 | 3568.8 | 1607.5 | 1482.5 | 1517.0 | 1474.3 | 1345.9 | 1211.0 | 1110.6 | 1094.2 |
| 60° | 13531.5 | 11142.5 | 3302.2 | 1423.2 | 1342.6 | 1396.9 | 1369.0 | 1258.7 | 1094.2 | 1010.2 | 997.1 |
| 62.5° | 14629.0 | 11708.5 | 2788.9 | 1276.8 | 1227.4 | 1290.0 | 1275.2 | 1143.5 | 1072.8 | 1038.2 | 1026.7 |
| 65° | 15178.5 | 11616.3 | 2132.4 | 1146.9 | 1130.4 | 1227.4 | 1196.2 | 1191.3 | 1135.3 | 1095.8 | 1082.6 |
| 67.5° | 14841.3 | 10823.3 | 1546.6 | 1051.3 | 1074.4 | 1169.8 | 1290.0 | 1309.7 | 1206.0 | 1128.7 | 1115.6 |
| 70° | 13362.0 | 9388.5 | 1151.8 | 960.9 | 1003.7 | 1171.5 | 1471.0 | 1370.6 | 1183.1 | 1092.5 | 1077.7 |
| 72.5° | 10165.1 | 7001.1 | 893.4 | 865.5 | 911.5 | 1179.8 | 1551.5 | 1342.6 | 1117.2 | 1207.7 | 1197.8 |
| 75° | 5813.1 | 3843.5 | 717.4 | 748.7 | 796.3 | 1102.4 | 1510.4 | 1270.2 | 1066.2 | 1108.9 | 1108.9 |
| 77.5° | 2216.4 | 1477.5 | 592.3 | 633.4 | 640.0 | 962.6 | 1444.6 | 1265.3 | 1015.2 | 990.6 | 903.3 |
| 80° | 768.3 | 577.5 | 490.4 | 503.5 | 495.3 | 855.6 | 1385.4 | 1100.7 | 830.9 | 743.7 | 719.0 |
| 82.5° | 314.3 | 287.9 | 388.3 | 371.9 | 352.1 | 664.7 | 1118.9 | 900.1 | 679.6 | 600.5 | 594.0 |
| 85° | 136.5 | 182.7 | 256.7 | 225.4 | 204.0 | 460.7 | 896.8 | 761.8 | 574.2 | 495.3 | 493.6 |
| 87.5° | 28.0 | 69.1 | 108.5 | 102.0 | 105.3 | 307.7 | 636.7 | 541.3 | 406.4 | 304.4 | 238.6 |
| 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)