

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: LUMARK

Report Number: P962418

Luminaire Tested: **NAV-SB2C-730-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-730-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15258.2 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

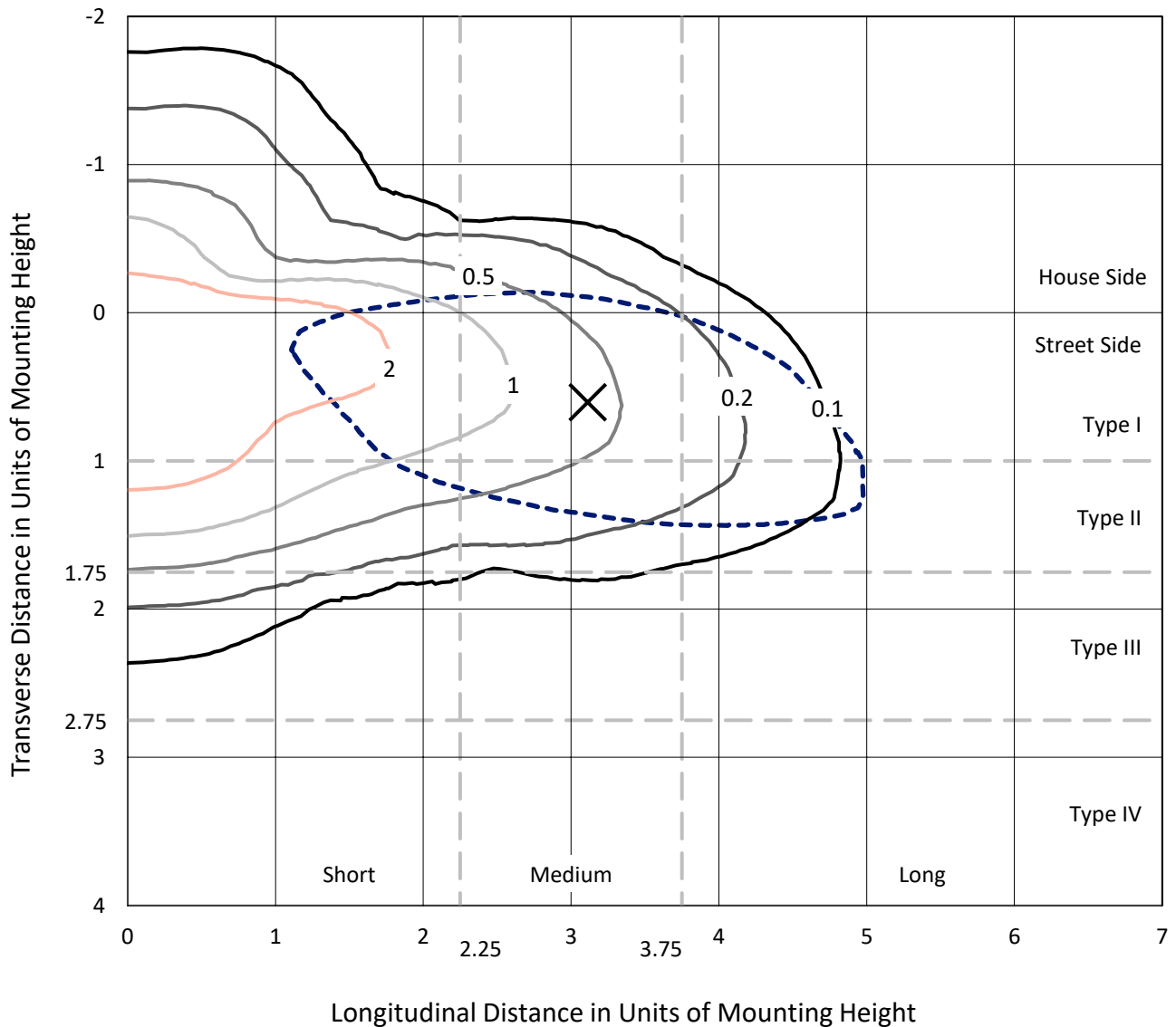
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

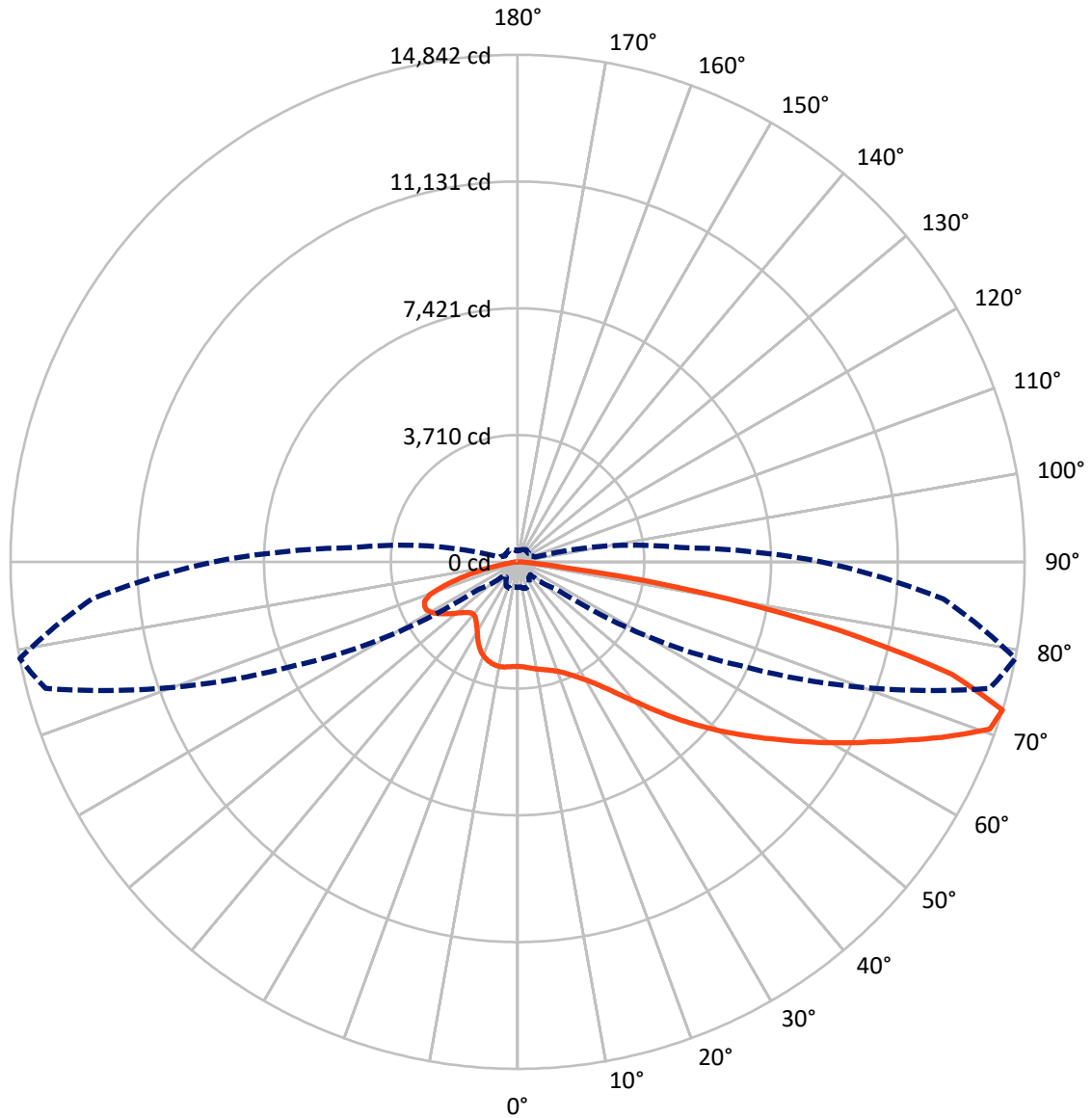
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3357.6 | 0.0 | 3357.6 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 11900.5 | 0.0 | 11900.5 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 15258.2 | 0.0 | 15258.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 278.0 | 1.8 |
| 10°-20° | 726.9 | 4.8 |
| 20°-30° | 1172.9 | 7.7 |
| 30°-40° | 1760.4 | 11.5 |
| 40°-50° | 2497.2 | 16.4 |
| 50°-60° | 3153.6 | 20.7 |
| 60°-70° | 3202.9 | 21.0 |
| 70°-80° | 2182.9 | 14.3 |
| 80°-90° | 283.2 | 1.9 |
| 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° | 15258.2 | 100.0 |
| 0°-180° | 15258.2 | 100.0 |

Coefficient of Utilization

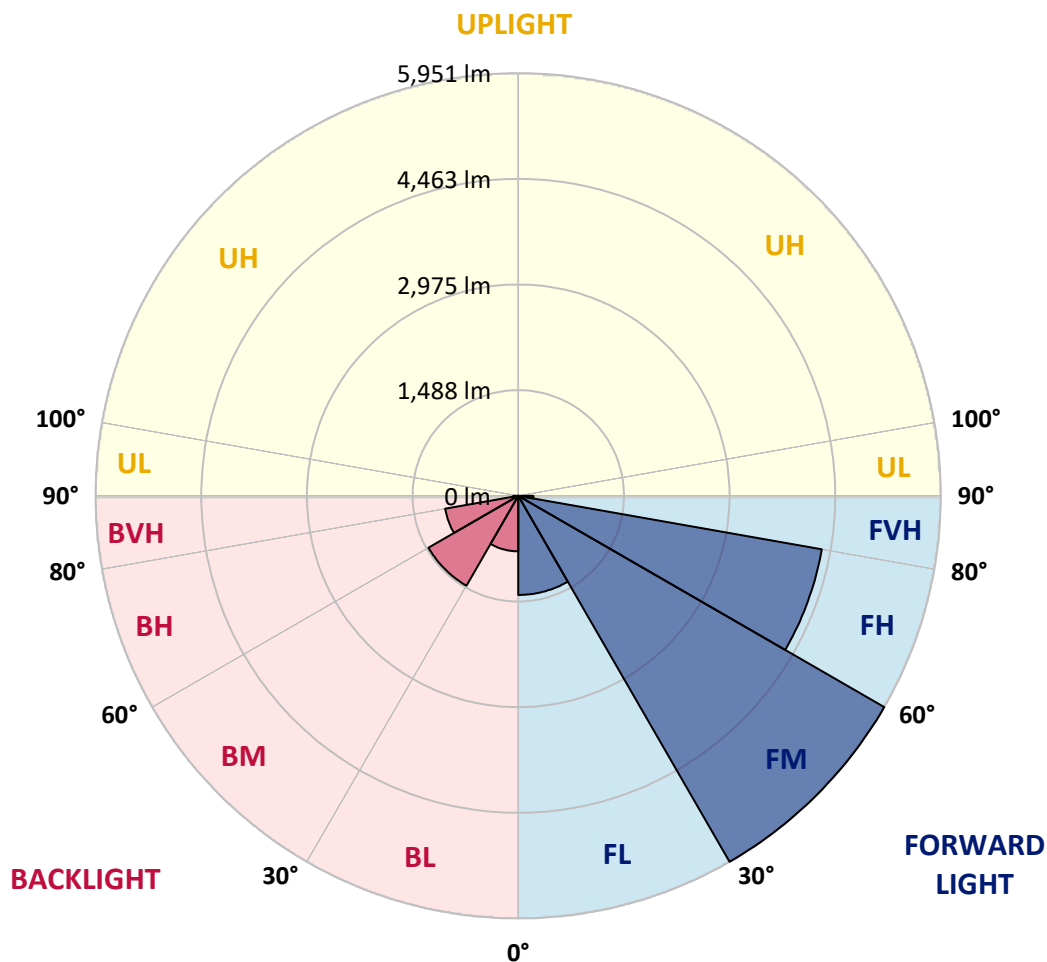


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1395.8 | 9.1 | | | |
| FM (30°-60°) | 5951.0 | 39.0 | | | |
| FH (60°-80°) | 4340.4 | 28.4 | | | G2/5000 |
| FVH (80°-90°) | 213.3 | 1.4 | | | G2/225 |
| BL (0°-30°) | 782.1 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1460.2 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 1045.5 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 69.9 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 |
| 2.5° | 3064.5 | 3050.0 | 3058.9 | 3055.6 | 3059.7 | 3064.5 | 3066.2 | 3068.5 | 3076.6 | 3075.8 | 3075.0 |
| 5° | 3058.1 | 3043.5 | 3055.6 | 3051.6 | 3062.1 | 3073.5 | 3083.1 | 3092.0 | 3104.9 | 3110.6 | 3102.5 |
| 7.5° | 3044.4 | 3034.7 | 3046.8 | 3058.9 | 3078.3 | 3095.2 | 3108.9 | 3129.1 | 3147.7 | 3151.0 | 3156.6 |
| 10° | 2964.5 | 2957.2 | 2985.4 | 3016.9 | 3070.2 | 3116.2 | 3146.0 | 3169.5 | 3189.6 | 3192.9 | 3201.0 |
| 12.5° | 2881.4 | 2872.5 | 2903.9 | 2946.7 | 3033.1 | 3116.2 | 3179.1 | 3209.8 | 3227.6 | 3238.1 | 3250.2 |
| 15° | 2867.6 | 2860.4 | 2878.1 | 2915.2 | 2987.1 | 3094.4 | 3201.8 | 3258.3 | 3273.5 | 3285.6 | 3290.6 |
| 17.5° | 2933.8 | 2920.1 | 2927.3 | 2940.2 | 2982.2 | 3074.2 | 3219.5 | 3313.1 | 3336.6 | 3349.5 | 3349.5 |
| 20° | 3087.1 | 3067.7 | 3056.4 | 3030.6 | 3023.3 | 3077.5 | 3217.9 | 3379.3 | 3410.0 | 3426.2 | 3430.2 |
| 22.5° | 3291.4 | 3278.5 | 3254.2 | 3188.9 | 3117.8 | 3117.0 | 3248.5 | 3464.1 | 3521.4 | 3536.7 | 3527.0 |
| 25° | 3538.3 | 3518.9 | 3488.3 | 3399.5 | 3263.1 | 3195.3 | 3300.2 | 3572.2 | 3668.3 | 3672.3 | 3644.1 |
| 27.5° | 3822.4 | 3793.3 | 3751.4 | 3634.3 | 3450.4 | 3317.9 | 3379.3 | 3696.5 | 3836.9 | 3835.3 | 3777.2 |
| 30° | 4121.8 | 4092.8 | 4048.4 | 3906.4 | 3674.7 | 3483.5 | 3489.1 | 3830.5 | 4037.1 | 4028.2 | 3928.9 |
| 32.5° | 4340.6 | 4318.7 | 4309.9 | 4200.1 | 3933.0 | 3678.7 | 3615.0 | 3978.9 | 4284.1 | 4276.0 | 4137.2 |
| 35° | 4508.5 | 4480.2 | 4490.7 | 4435.0 | 4214.7 | 3897.5 | 3769.1 | 4155.8 | 4584.3 | 4583.5 | 4410.8 |
| 37.5° | 4674.7 | 4649.7 | 4658.5 | 4621.4 | 4475.4 | 4175.1 | 3957.2 | 4372.0 | 4956.4 | 4974.1 | 4741.6 |
| 40° | 4826.4 | 4799.8 | 4835.3 | 4800.6 | 4677.9 | 4470.5 | 4171.0 | 4616.6 | 5387.4 | 5421.2 | 5142.0 |
| 42.5° | 4917.6 | 4896.6 | 4955.6 | 4956.4 | 4853.9 | 4719.9 | 4406.0 | 4886.2 | 5886.2 | 5962.0 | 5634.3 |
| 45° | 4949.1 | 4941.8 | 5030.6 | 5049.2 | 5009.7 | 4864.3 | 4617.4 | 5179.9 | 6423.7 | 6559.3 | 6195.3 |
| 47.5° | 4915.2 | 4901.4 | 5024.1 | 5092.8 | 5124.3 | 4932.2 | 4792.5 | 5497.9 | 6972.5 | 7171.0 | 6807.0 |
| 50° | 4744.1 | 4717.5 | 4899.9 | 5044.3 | 5156.6 | 4976.6 | 4969.3 | 5865.2 | 7596.4 | 7813.5 | 7422.0 |
| 52.5° | 4436.6 | 4416.4 | 4623.9 | 4874.9 | 5085.5 | 4998.3 | 5167.8 | 6266.3 | 8188.8 | 8469.7 | 8052.4 |
| 55° | 4043.5 | 4016.9 | 4245.3 | 4573.0 | 4908.7 | 4991.0 | 5366.4 | 6715.1 | 8887.8 | 9172.6 | 8703.7 |
| 57.5° | 3420.4 | 3367.2 | 3656.2 | 4043.5 | 4620.6 | 4982.2 | 5573.0 | 7161.4 | 9598.0 | 9939.4 | 9398.6 |
| 60° | 2511.7 | 2432.6 | 2786.9 | 3246.2 | 4057.3 | 4895.8 | 5828.9 | 7661.8 | 10450.3 | 10757.8 | 10157.3 |
| 62.5° | 1462.5 | 1416.4 | 1648.1 | 2076.6 | 3058.1 | 4387.4 | 5972.5 | 8243.7 | 11288.0 | 11610.9 | 10903.0 |
| 65° | 1135.6 | 1122.7 | 1142.9 | 1176.0 | 1702.1 | 3284.9 | 5529.4 | 8811.1 | 12353.4 | 12579.4 | 11680.3 |
| 67.5° | 1038.7 | 1029.0 | 1037.9 | 975.8 | 863.6 | 1829.7 | 4374.5 | 8954.7 | 13494.6 | 13631.9 | 12360.7 |
| 70° | 923.3 | 912.0 | 941.1 | 887.9 | 679.6 | 832.1 | 2826.4 | 8433.4 | 14402.6 | 14660.1 | 12878.0 |
| 72.5° | 752.2 | 739.3 | 807.1 | 782.9 | 572.3 | 534.3 | 1419.7 | 7194.5 | 14307.4 | 14841.7 | 12507.6 |
| 75° | 577.9 | 570.6 | 651.3 | 671.5 | 466.5 | 420.5 | 681.2 | 5347.8 | 12590.7 | 13129.0 | 10779.6 |
| 77.5° | 448.7 | 443.1 | 484.2 | 557.7 | 376.1 | 326.1 | 418.9 | 3392.2 | 9488.2 | 9582.6 | 7428.5 |
| 80° | 336.6 | 320.4 | 358.3 | 431.8 | 292.9 | 238.1 | 284.1 | 1978.1 | 5997.5 | 5436.6 | 3233.3 |
| 82.5° | 210.6 | 202.5 | 234.0 | 288.1 | 206.6 | 163.8 | 184.8 | 1092.9 | 2403.5 | 1415.6 | 623.9 |
| 85° | 120.2 | 117.1 | 127.5 | 164.6 | 112.2 | 94.4 | 105.8 | 482.7 | 439.1 | 301.9 | 188.1 |
| 87.5° | 48.4 | 46.8 | 58.1 | 73.5 | 41.2 | 34.7 | 37.1 | 116.2 | 96.9 | 89.6 | 62.1 |
| 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° | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 | 3062.9 |
| 2.5° | 3071.8 | 3071.8 | 3060.5 | 3042.7 | 3022.6 | 3009.7 | 2988.7 | 2983.1 | 2961.2 | 2954.8 | 2965.2 |
| 5° | 3108.9 | 3102.5 | 3067.7 | 3017.7 | 2949.1 | 2886.2 | 2816.8 | 2773.1 | 2711.8 | 2690.0 | 2706.2 |
| 7.5° | 3155.8 | 3138.0 | 3078.3 | 2968.5 | 2824.8 | 2683.6 | 2536.7 | 2425.4 | 2318.8 | 2280.8 | 2285.6 |
| 10° | 3198.5 | 3173.5 | 3071.8 | 2879.7 | 2631.2 | 2386.6 | 2152.5 | 1988.7 | 1864.4 | 1813.5 | 1824.8 |
| 12.5° | 3241.3 | 3195.3 | 3029.1 | 2732.0 | 2356.0 | 2024.2 | 1774.8 | 1647.3 | 1570.6 | 1509.3 | 1529.4 |
| 15° | 3281.6 | 3217.1 | 2962.9 | 2534.3 | 2054.1 | 1717.5 | 1533.5 | 1431.8 | 1370.4 | 1330.1 | 1337.3 |
| 17.5° | 3328.5 | 3235.6 | 2863.5 | 2283.3 | 1766.7 | 1505.2 | 1355.2 | 1293.8 | 1281.7 | 1276.8 | 1280.0 |
| 20° | 3393.9 | 3252.6 | 2732.9 | 2002.4 | 1555.2 | 1335.8 | 1258.3 | 1252.7 | 1251.8 | 1249.4 | 1257.5 |
| 22.5° | 3464.1 | 3272.7 | 2560.1 | 1747.3 | 1375.2 | 1230.0 | 1216.3 | 1205.0 | 1197.7 | 1196.9 | 1205.8 |
| 25° | 3547.2 | 3279.2 | 2343.8 | 1538.3 | 1221.9 | 1180.0 | 1163.8 | 1146.9 | 1142.1 | 1142.1 | 1146.9 |
| 27.5° | 3627.9 | 3257.4 | 2092.0 | 1356.7 | 1135.6 | 1134.0 | 1112.9 | 1107.3 | 1106.5 | 1108.9 | 1115.4 |
| 30° | 3708.7 | 3216.2 | 1841.8 | 1188.9 | 1085.6 | 1085.6 | 1078.3 | 1082.3 | 1085.6 | 1093.6 | 1099.3 |
| 32.5° | 3817.6 | 3172.7 | 1632.7 | 1064.6 | 1041.9 | 1033.9 | 1041.2 | 1049.2 | 1052.5 | 1062.9 | 1071.8 |
| 35° | 3977.4 | 3142.0 | 1466.5 | 996.8 | 996.8 | 986.3 | 990.4 | 988.7 | 981.4 | 976.6 | 987.9 |
| 37.5° | 4188.9 | 3140.4 | 1329.3 | 965.2 | 958.8 | 957.2 | 958.1 | 947.5 | 919.3 | 885.4 | 886.2 |
| 40° | 4443.1 | 3184.0 | 1223.5 | 943.5 | 938.7 | 948.3 | 943.5 | 915.2 | 837.7 | 778.9 | 777.3 |
| 42.5° | 4784.5 | 3308.3 | 1155.8 | 916.9 | 931.4 | 943.5 | 924.1 | 826.5 | 774.0 | 734.4 | 732.9 |
| 45° | 5186.4 | 3510.0 | 1121.0 | 888.6 | 917.7 | 932.2 | 838.6 | 795.8 | 753.8 | 706.2 | 702.9 |
| 47.5° | 5641.6 | 3764.3 | 1112.9 | 862.0 | 887.0 | 895.8 | 802.3 | 782.9 | 735.2 | 683.6 | 679.6 |
| 50° | 6137.2 | 4065.4 | 1134.8 | 830.5 | 842.7 | 811.9 | 790.2 | 772.4 | 723.1 | 672.3 | 666.7 |
| 52.5° | 6649.7 | 4397.0 | 1178.3 | 787.7 | 798.2 | 764.3 | 785.4 | 770.0 | 715.9 | 647.3 | 642.5 |
| 55° | 7153.3 | 4731.2 | 1220.4 | 737.7 | 753.1 | 721.5 | 771.6 | 760.2 | 682.8 | 605.4 | 601.3 |
| 57.5° | 7664.9 | 5063.7 | 1261.5 | 693.3 | 709.4 | 680.4 | 749.8 | 734.4 | 645.6 | 566.6 | 565.0 |
| 60° | 8196.8 | 5386.6 | 1280.8 | 650.6 | 661.8 | 642.5 | 716.7 | 690.0 | 603.7 | 527.1 | 524.6 |
| 62.5° | 8694.9 | 5655.3 | 1249.4 | 607.7 | 615.0 | 606.9 | 673.1 | 637.7 | 561.7 | 482.7 | 481.9 |
| 65° | 9194.5 | 5815.1 | 1152.5 | 565.8 | 567.3 | 563.3 | 611.8 | 581.1 | 512.5 | 443.9 | 439.1 |
| 67.5° | 9647.2 | 5904.7 | 998.4 | 520.6 | 516.5 | 515.0 | 554.5 | 519.8 | 464.8 | 405.2 | 400.4 |
| 70° | 9743.2 | 5677.1 | 762.7 | 467.3 | 467.3 | 463.3 | 491.5 | 456.0 | 412.5 | 364.0 | 362.3 |
| 72.5° | 8899.0 | 4775.6 | 541.6 | 406.8 | 413.3 | 405.2 | 428.6 | 398.7 | 359.2 | 326.9 | 317.2 |
| 75° | 7175.9 | 3502.0 | 393.9 | 344.6 | 355.9 | 342.2 | 364.0 | 343.0 | 309.1 | 308.3 | 277.7 |
| 77.5° | 4930.6 | 2165.4 | 285.7 | 284.1 | 292.1 | 274.4 | 299.4 | 288.1 | 257.5 | 243.7 | 228.4 |
| 80° | 2104.1 | 863.6 | 208.3 | 219.6 | 219.6 | 203.4 | 232.5 | 235.6 | 209.0 | 202.5 | 202.5 |
| 82.5° | 418.9 | 245.4 | 146.1 | 150.9 | 142.1 | 137.2 | 164.6 | 182.4 | 251.8 | 280.0 | 280.8 |
| 85° | 125.9 | 90.4 | 87.9 | 82.3 | 72.7 | 73.5 | 96.9 | 183.2 | 226.0 | 129.1 | 111.4 |
| 87.5° | 34.7 | 22.5 | 23.4 | 18.6 | 15.4 | 20.2 | 33.1 | 138.8 | 75.8 | 32.3 | 27.5 |
| 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)