

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: P965138

Luminaire Tested: **NVN-SB3D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965138
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-740-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33045 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

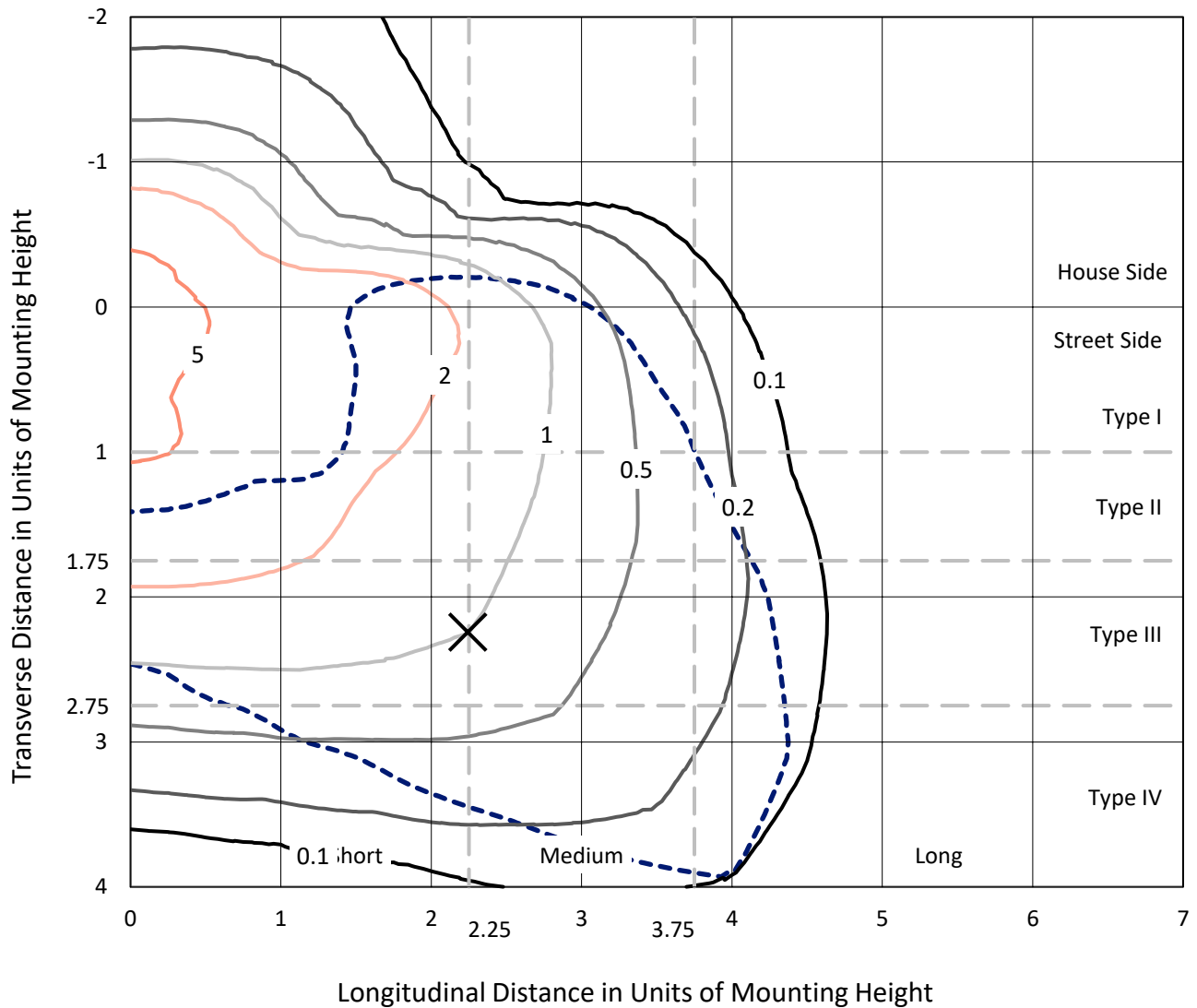
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

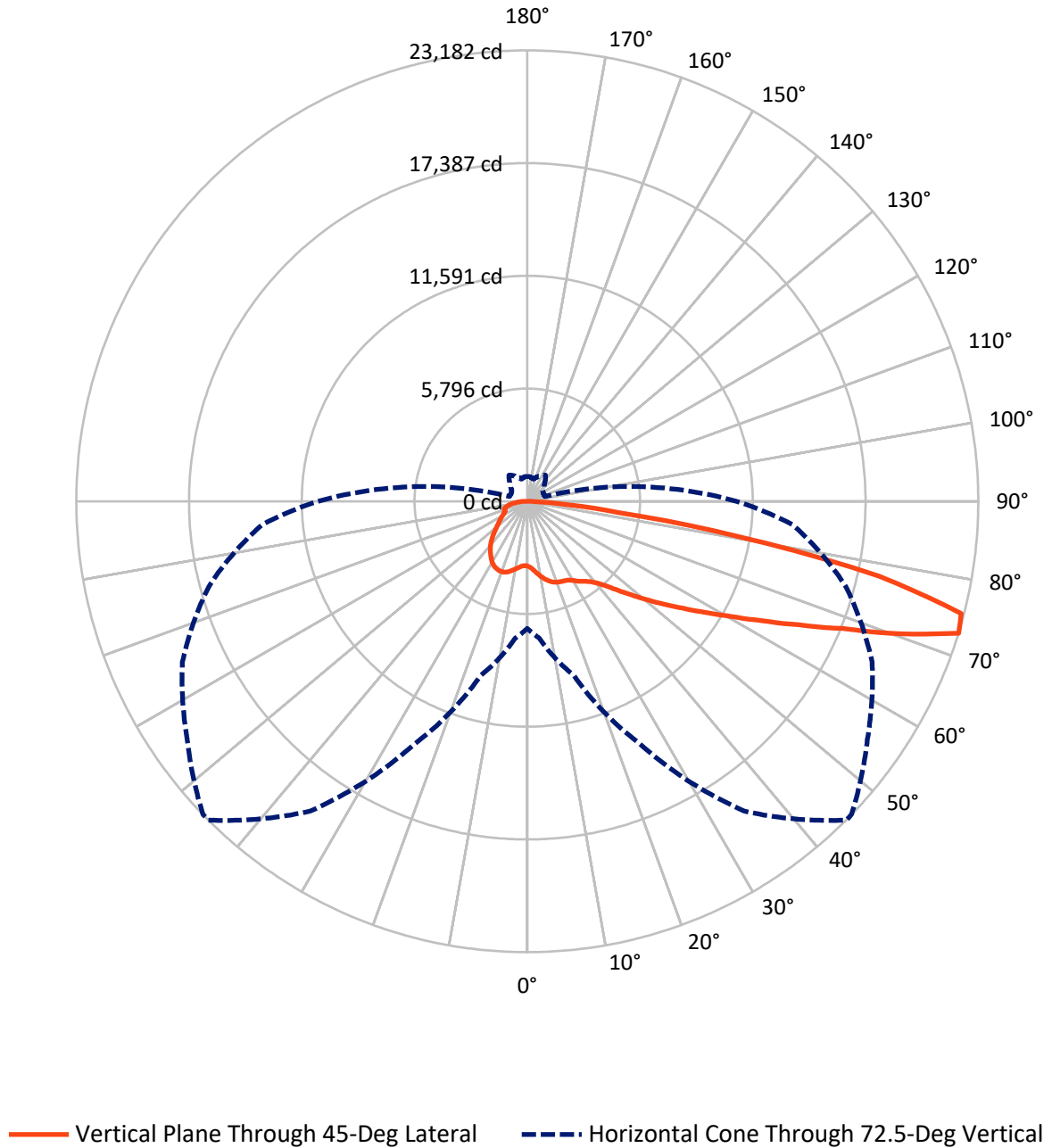
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7470.3 | 0.0 | 7470.3 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 25574.6 | 0.0 | 25574.6 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 33045.0 | 0.0 | 33045.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 339.3 | 1.0 |
| 10°-20° | 1131.3 | 3.4 |
| 20°-30° | 1967.9 | 6.0 |
| 30°-40° | 2821.1 | 8.5 |
| 40°-50° | 3972.2 | 12.0 |
| 50°-60° | 6084.3 | 18.4 |
| 60°-70° | 8814.0 | 26.7 |
| 70°-80° | 7038.5 | 21.3 |
| 80°-90° | 876.6 | 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° | 33045.0 | 100.0 |
| 0°-180° | 33045.0 | 100.0 |



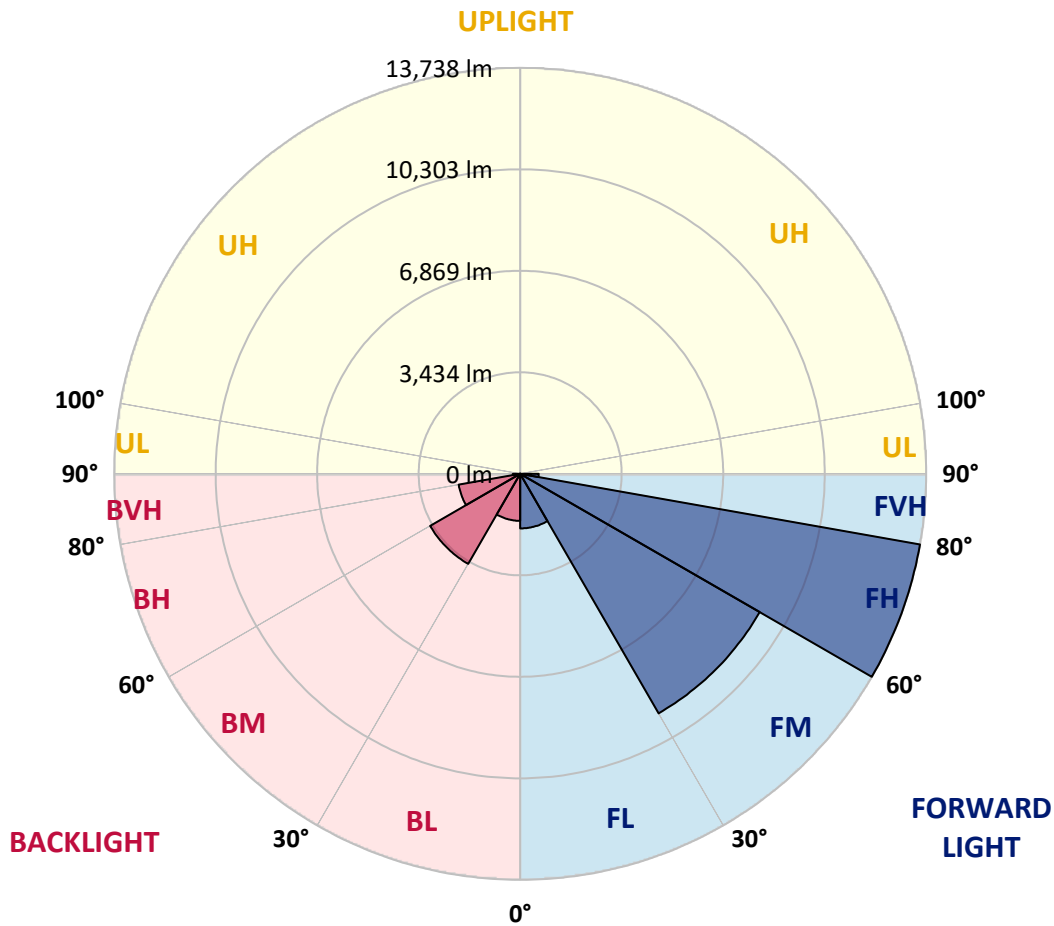
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1847.9 | 5.6 | | | |
| FM (30°-60°) | 9360.1 | 28.3 | | | |
| FH (60°-80°) | 13737.8 | 41.6 | | | G5 |
| FVH (80°-90°) | 628.9 | 1.9 | | | G4/750 |
| BL (0°-30°) | 1590.5 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 3517.5 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2114.7 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 247.7 | 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° | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 |
| 2.5° | 3464.2 | 3486.7 | 3465.9 | 3446.8 | 3438.1 | 3415.4 | 3413.7 | 3399.7 | 3391.0 | 3366.7 | 3359.7 |
| 5° | 3706.1 | 3735.7 | 3700.9 | 3662.6 | 3627.8 | 3572.1 | 3565.2 | 3525.1 | 3479.8 | 3427.6 | 3398.0 |
| 7.5° | 3979.5 | 4005.5 | 3965.5 | 3908.0 | 3847.1 | 3754.9 | 3753.1 | 3680.1 | 3608.6 | 3519.8 | 3469.4 |
| 10° | 4217.9 | 4252.7 | 4198.8 | 4120.4 | 4043.8 | 3939.4 | 3927.2 | 3843.6 | 3753.1 | 3638.2 | 3561.7 |
| 12.5° | 4428.5 | 4452.9 | 4400.7 | 4305.0 | 4216.1 | 4111.7 | 4096.1 | 4003.8 | 3902.8 | 3772.3 | 3674.8 |
| 15° | 4595.7 | 4627.0 | 4557.4 | 4454.6 | 4360.7 | 4258.0 | 4244.0 | 4160.5 | 4059.5 | 3922.0 | 3796.6 |
| 17.5° | 4705.4 | 4731.4 | 4660.1 | 4545.2 | 4454.6 | 4369.4 | 4358.9 | 4289.3 | 4200.6 | 4061.3 | 3927.2 |
| 20° | 4747.1 | 4775.0 | 4700.1 | 4583.5 | 4500.0 | 4433.7 | 4428.5 | 4378.1 | 4317.1 | 4190.1 | 4054.3 |
| 22.5° | 4788.9 | 4815.0 | 4717.6 | 4595.7 | 4522.5 | 4480.8 | 4479.0 | 4445.9 | 4421.5 | 4317.1 | 4184.9 |
| 25° | 4957.7 | 4964.7 | 4834.1 | 4658.3 | 4553.9 | 4517.3 | 4515.5 | 4513.9 | 4524.2 | 4442.5 | 4325.8 |
| 27.5° | 5104.0 | 5102.2 | 4990.8 | 4825.5 | 4663.5 | 4587.0 | 4585.2 | 4602.7 | 4635.7 | 4567.8 | 4472.1 |
| 30° | 5318.1 | 5298.9 | 5166.6 | 4994.3 | 4846.3 | 4727.9 | 4717.6 | 4701.9 | 4727.9 | 4674.0 | 4618.2 |
| 32.5° | 5772.4 | 5711.5 | 5497.4 | 5191.0 | 4997.8 | 4907.3 | 4893.3 | 4795.9 | 4806.3 | 4773.2 | 4745.3 |
| 35° | 6423.5 | 6343.4 | 6058.0 | 5563.5 | 5185.8 | 5056.9 | 5050.0 | 4926.5 | 4905.5 | 4875.9 | 4886.4 |
| 37.5° | 7198.2 | 7098.9 | 6766.4 | 6103.2 | 5509.6 | 5231.1 | 5220.6 | 5109.2 | 5023.9 | 4992.6 | 5051.7 |
| 40° | 7976.2 | 7850.9 | 7575.9 | 6761.2 | 5986.5 | 5521.8 | 5488.7 | 5319.9 | 5222.4 | 5170.1 | 5295.5 |
| 42.5° | 8731.8 | 8627.3 | 8392.3 | 7499.3 | 6575.0 | 5946.5 | 5873.4 | 5584.4 | 5511.3 | 5462.5 | 5688.9 |
| 45° | 9400.2 | 9306.2 | 9133.9 | 8287.8 | 7264.3 | 6524.4 | 6453.1 | 5981.3 | 5958.7 | 5958.7 | 6285.9 |
| 47.5° | 9943.3 | 9922.4 | 9739.7 | 9092.1 | 8077.2 | 7182.5 | 7058.9 | 6533.1 | 6594.0 | 6688.1 | 7133.7 |
| 50° | 10545.6 | 10488.2 | 10293.3 | 9884.2 | 9032.9 | 7936.3 | 7835.2 | 7210.4 | 7438.3 | 7696.0 | 8359.2 |
| 52.5° | 11099.2 | 11130.6 | 10913.0 | 10709.3 | 10112.2 | 8777.0 | 8599.4 | 8009.4 | 8502.0 | 8928.5 | 9795.4 |
| 55° | 11668.5 | 11670.2 | 11609.3 | 11581.4 | 11243.7 | 9706.5 | 9511.6 | 8970.3 | 9753.6 | 10282.8 | 11470.0 |
| 57.5° | 12202.8 | 12206.3 | 12296.9 | 12542.3 | 12556.2 | 10778.9 | 10557.8 | 10150.5 | 11144.5 | 11684.1 | 13196.9 |
| 60° | 12679.9 | 12704.3 | 12951.4 | 13525.9 | 13710.4 | 12007.9 | 11799.0 | 11544.9 | 12582.4 | 13125.5 | 15012.5 |
| 62.5° | 12840.0 | 12928.7 | 13478.9 | 14295.3 | 14850.6 | 13515.4 | 13310.0 | 13158.5 | 14093.3 | 14598.2 | 16530.5 |
| 65° | 12568.4 | 12772.1 | 13835.8 | 14930.7 | 16023.9 | 15306.6 | 15103.0 | 14937.6 | 15663.5 | 16138.7 | 17776.9 |
| 67.5° | 11901.7 | 12164.6 | 13814.8 | 15597.4 | 17447.9 | 17461.8 | 17272.1 | 16883.8 | 17346.9 | 17529.7 | 18182.5 |
| 70° | 10145.2 | 10538.6 | 12598.1 | 15846.3 | 19082.4 | 20408.9 | 20226.1 | 19226.9 | 19026.8 | 18142.4 | 17040.5 |
| 72.5° | 6536.6 | 7065.8 | 9276.7 | 13797.4 | 19446.3 | 23182.0 | 23171.6 | 21341.9 | 19557.7 | 16951.8 | 13666.8 |
| 75° | 2384.9 | 2708.7 | 4310.1 | 8660.4 | 16323.3 | 23041.0 | 23108.8 | 20979.9 | 17853.4 | 13094.2 | 8514.2 |
| 77.5° | 868.7 | 950.5 | 1406.5 | 3328.4 | 10039.1 | 18487.1 | 18628.0 | 16772.4 | 12707.7 | 6571.5 | 3373.6 |
| 80° | 456.1 | 501.3 | 720.7 | 1291.7 | 4301.5 | 10979.1 | 11200.2 | 9967.7 | 5972.6 | 1979.3 | 1011.4 |
| 82.5° | 252.5 | 273.3 | 403.8 | 701.5 | 1937.5 | 4694.9 | 4827.1 | 3937.6 | 2101.1 | 839.1 | 417.8 |
| 85° | 135.8 | 144.5 | 189.7 | 382.9 | 947.0 | 1627.6 | 1664.2 | 1176.8 | 837.3 | 492.6 | 201.9 |
| 87.5° | 40.1 | 48.8 | 62.6 | 121.9 | 370.7 | 365.5 | 374.2 | 233.3 | 330.8 | 249.0 | 66.1 |
| 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° | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 | 3333.6 |
| 2.5° | 3349.3 | 3344.1 | 3324.9 | 3316.2 | 3305.7 | 3304.0 | 3312.7 | 3314.4 | 3316.2 | 3317.9 | 3324.9 |
| 5° | 3380.6 | 3363.2 | 3345.8 | 3335.4 | 3338.8 | 3340.6 | 3358.0 | 3370.2 | 3378.8 | 3385.8 | 3389.3 |
| 7.5° | 3441.5 | 3427.6 | 3398.0 | 3396.2 | 3401.5 | 3417.1 | 3439.8 | 3467.7 | 3483.3 | 3495.5 | 3498.9 |
| 10° | 3532.0 | 3505.9 | 3471.2 | 3476.4 | 3486.7 | 3509.4 | 3556.4 | 3579.1 | 3605.1 | 3627.8 | 3622.6 |
| 12.5° | 3624.3 | 3601.6 | 3561.7 | 3565.2 | 3582.5 | 3622.6 | 3667.9 | 3695.6 | 3713.1 | 3730.5 | 3737.5 |
| 15° | 3744.4 | 3704.3 | 3660.9 | 3660.9 | 3692.2 | 3735.7 | 3756.6 | 3779.3 | 3789.6 | 3808.8 | 3815.8 |
| 17.5° | 3868.0 | 3815.8 | 3758.4 | 3754.9 | 3793.1 | 3814.0 | 3826.2 | 3829.7 | 3833.2 | 3854.1 | 3861.1 |
| 20° | 3991.7 | 3934.2 | 3852.4 | 3845.4 | 3854.1 | 3850.6 | 3848.9 | 3845.4 | 3850.6 | 3876.8 | 3887.2 |
| 22.5° | 4113.4 | 4047.3 | 3934.2 | 3902.8 | 3878.5 | 3845.4 | 3843.6 | 3841.9 | 3845.4 | 3871.5 | 3889.0 |
| 25° | 4256.2 | 4176.2 | 4024.7 | 3930.7 | 3848.9 | 3803.6 | 3808.8 | 3810.5 | 3814.0 | 3834.9 | 3862.8 |
| 27.5° | 4411.1 | 4322.3 | 4108.2 | 3922.0 | 3774.0 | 3742.7 | 3734.0 | 3739.2 | 3751.4 | 3784.5 | 3817.5 |
| 30° | 4566.1 | 4461.6 | 4184.9 | 3887.2 | 3680.1 | 3636.5 | 3608.6 | 3620.8 | 3659.1 | 3692.2 | 3728.7 |
| 32.5° | 4707.1 | 4602.7 | 4245.8 | 3810.5 | 3559.9 | 3492.0 | 3455.5 | 3471.2 | 3509.4 | 3521.6 | 3565.2 |
| 35° | 4872.4 | 4754.1 | 4271.9 | 3688.7 | 3429.3 | 3324.9 | 3276.1 | 3253.6 | 3272.6 | 3260.5 | 3298.8 |
| 37.5° | 5056.9 | 4933.3 | 4268.4 | 3528.6 | 3276.1 | 3156.1 | 3088.1 | 3002.8 | 2962.8 | 2921.0 | 2947.2 |
| 40° | 5330.3 | 5152.7 | 4226.6 | 3335.4 | 3086.4 | 2976.7 | 2854.8 | 2710.4 | 2619.9 | 2538.1 | 2543.2 |
| 42.5° | 5702.8 | 5457.3 | 4150.0 | 3123.0 | 2872.3 | 2769.5 | 2604.2 | 2435.4 | 2292.6 | 2156.8 | 2144.6 |
| 45° | 6258.1 | 5856.0 | 4054.3 | 2896.6 | 2640.8 | 2539.8 | 2360.5 | 2170.7 | 2008.9 | 1834.7 | 1813.9 |
| 47.5° | 7058.9 | 6392.1 | 3963.8 | 2639.1 | 2397.1 | 2304.8 | 2142.9 | 1967.1 | 1775.6 | 1606.8 | 1587.6 |
| 50° | 8159.0 | 7161.6 | 3880.2 | 2388.4 | 2156.8 | 2087.2 | 1958.4 | 1779.1 | 1585.9 | 1450.1 | 1441.4 |
| 52.5° | 9558.6 | 8207.8 | 3845.4 | 2146.4 | 1932.2 | 1906.2 | 1803.5 | 1636.3 | 1453.6 | 1338.6 | 1329.9 |
| 55° | 11165.3 | 9459.4 | 3845.4 | 1914.9 | 1735.5 | 1744.2 | 1672.9 | 1517.9 | 1359.6 | 1256.9 | 1246.4 |
| 57.5° | 12805.2 | 10726.7 | 3775.8 | 1700.8 | 1568.5 | 1605.0 | 1559.7 | 1423.9 | 1281.2 | 1175.1 | 1157.6 |
| 60° | 14316.2 | 11788.5 | 3493.7 | 1505.7 | 1420.4 | 1477.9 | 1448.3 | 1331.7 | 1157.6 | 1068.9 | 1054.9 |
| 62.5° | 15477.3 | 12387.4 | 2950.7 | 1350.8 | 1298.6 | 1364.8 | 1349.1 | 1209.8 | 1135.0 | 1098.4 | 1086.3 |
| 65° | 16058.7 | 12290.0 | 2256.0 | 1213.3 | 1195.9 | 1298.6 | 1265.6 | 1260.3 | 1201.1 | 1159.4 | 1145.4 |
| 67.5° | 15701.9 | 11450.9 | 1636.3 | 1112.3 | 1136.7 | 1237.7 | 1364.8 | 1385.7 | 1276.0 | 1194.1 | 1180.3 |
| 70° | 14136.9 | 9932.9 | 1218.5 | 1016.6 | 1061.9 | 1239.4 | 1556.3 | 1450.1 | 1251.6 | 1155.9 | 1140.2 |
| 72.5° | 10754.5 | 7407.1 | 945.3 | 915.6 | 964.4 | 1248.1 | 1641.5 | 1420.4 | 1182.0 | 1277.8 | 1267.3 |
| 75° | 6150.2 | 4066.5 | 759.0 | 792.0 | 842.6 | 1166.3 | 1598.1 | 1343.9 | 1128.0 | 1173.3 | 1173.3 |
| 77.5° | 2344.8 | 1563.2 | 626.7 | 670.2 | 677.1 | 1018.3 | 1528.4 | 1338.6 | 1074.1 | 1048.0 | 955.7 |
| 80° | 812.9 | 611.0 | 518.8 | 532.7 | 524.0 | 905.2 | 1465.7 | 1164.6 | 879.1 | 786.8 | 760.8 |
| 82.5° | 332.5 | 304.6 | 410.8 | 393.4 | 372.5 | 703.3 | 1183.8 | 952.2 | 718.9 | 635.4 | 628.4 |
| 85° | 144.5 | 193.2 | 271.5 | 238.5 | 215.9 | 487.4 | 948.7 | 806.0 | 607.5 | 524.0 | 522.2 |
| 87.5° | 29.6 | 73.1 | 114.9 | 107.9 | 111.4 | 325.5 | 673.7 | 572.7 | 430.0 | 322.1 | 252.5 |
| 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)