

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: P884100

Luminaire Tested: **NVN-SB4D-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4D-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30737 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

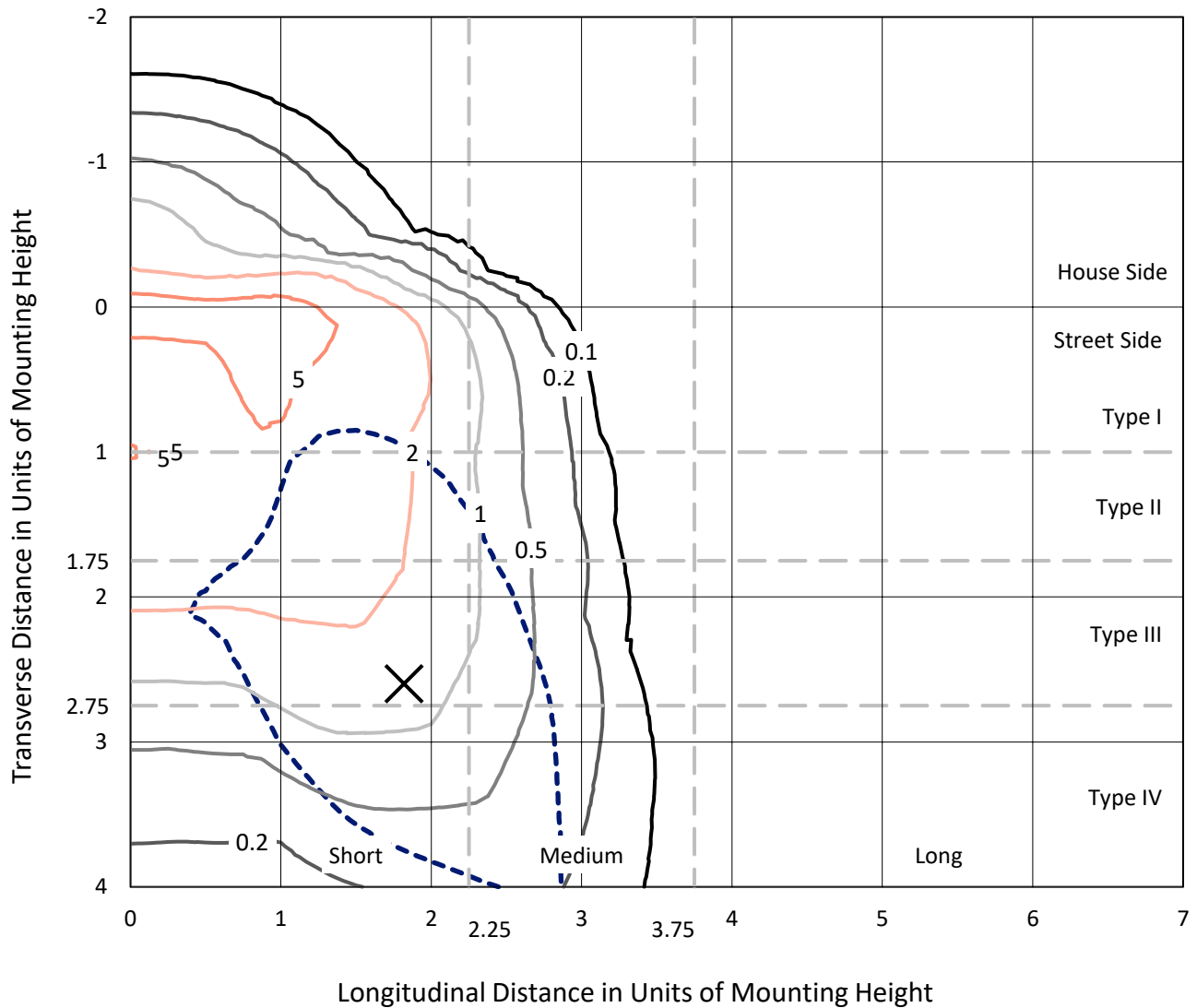
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

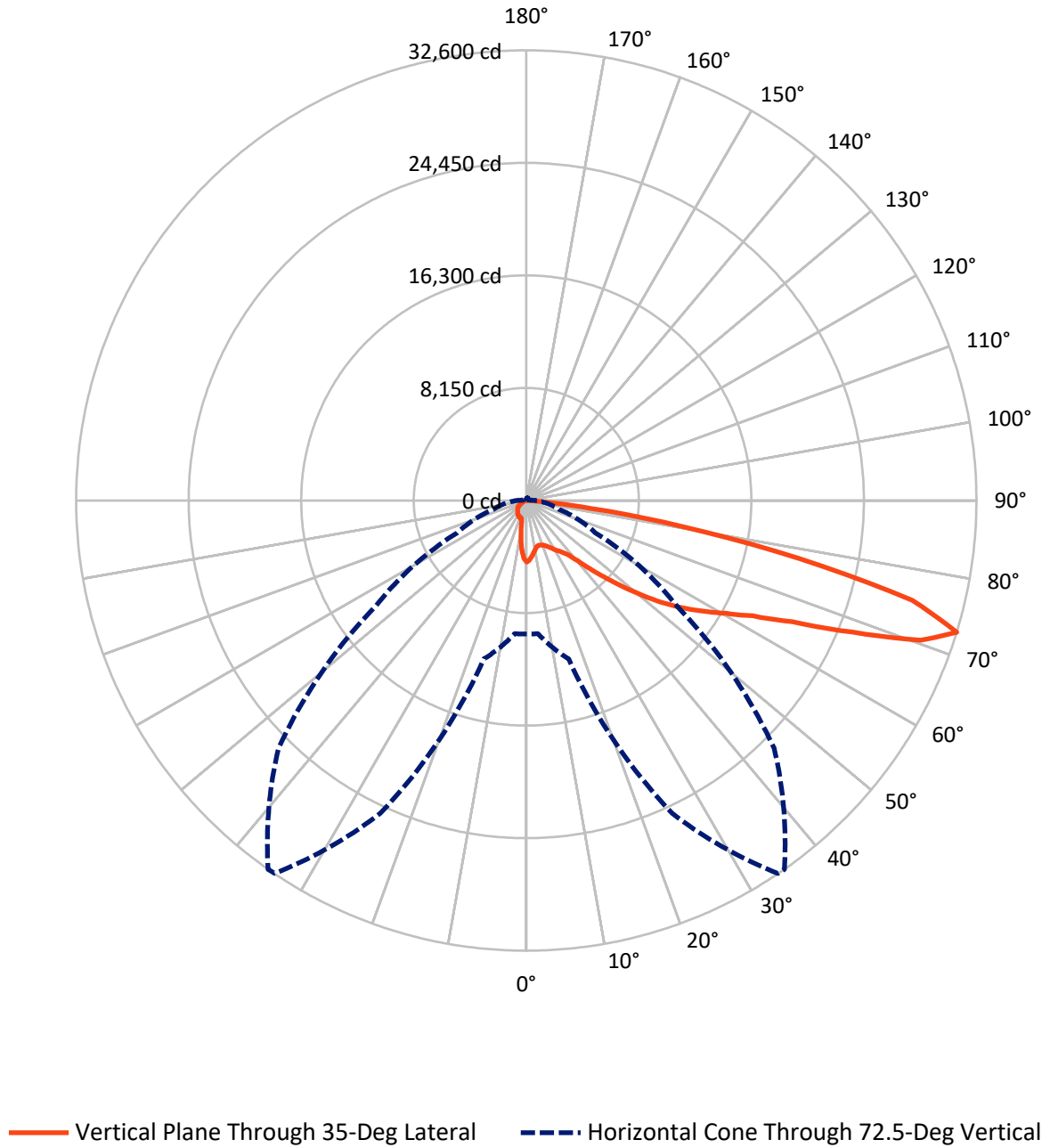
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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 | 3459.3 | 0.0 | 3459.3 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 27277.7 | 0.0 | 27277.7 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 30737.0 | 0.0 | 30737.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 366.1 | 1.2 |
| 10°-20° | 856.4 | 2.8 |
| 20°-30° | 1391.2 | 4.5 |
| 30°-40° | 2321.1 | 7.6 |
| 40°-50° | 4391.6 | 14.3 |
| 50°-60° | 6978.3 | 22.7 |
| 60°-70° | 8632.6 | 28.1 |
| 70°-80° | 5366.1 | 17.5 |
| 80°-90° | 433.7 | 1.4 |
| 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° | 30737.0 | 100.0 |
| 0°-180° | 30737.0 | 100.0 |

Coefficient of Utilization

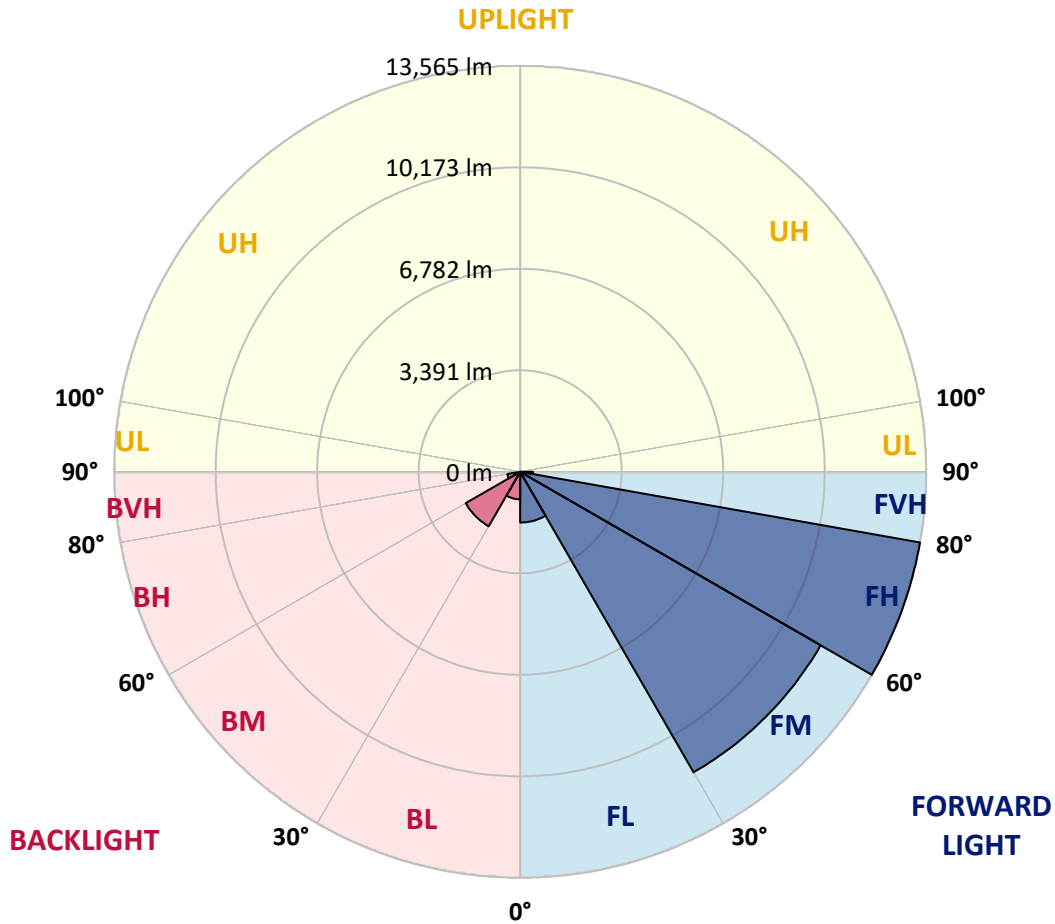


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1694.4 | 5.5 | | | |
| FM (30°-60°) | 11590.9 | 37.7 | | | |
| FH (60°-80°) | 13564.6 | 44.1 | | | G5 |
| FVH (80°-90°) | 427.8 | 1.4 | | | G3/500 |
| BL (0°-30°) | 919.2 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 2100.1 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 434.1 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 |
| 2.5° | 4256.6 | 4292.7 | 4299.4 | 4310.7 | 4310.7 | 4324.2 | 4346.7 | 4378.2 | 4430.0 | 4457.1 | 4475.1 |
| 5° | 3923.3 | 3950.3 | 3984.1 | 4011.1 | 4062.9 | 4069.7 | 4157.5 | 4243.1 | 4362.5 | 4452.6 | 4515.6 |
| 7.5° | 3587.7 | 3619.3 | 3664.3 | 3729.6 | 3797.2 | 3817.5 | 3950.3 | 4094.5 | 4283.7 | 4452.6 | 4558.4 |
| 10° | 3351.3 | 3353.5 | 3394.0 | 3459.4 | 3567.5 | 3592.2 | 3754.4 | 3959.3 | 4195.8 | 4425.5 | 4599.0 |
| 12.5° | 3218.4 | 3234.1 | 3252.2 | 3301.7 | 3405.3 | 3421.1 | 3594.5 | 3835.5 | 4108.0 | 4409.8 | 4646.3 |
| 15° | 3218.4 | 3229.6 | 3240.9 | 3265.7 | 3349.0 | 3362.5 | 3515.7 | 3756.6 | 4062.9 | 4416.5 | 4722.8 |
| 17.5° | 3252.2 | 3270.2 | 3261.2 | 3290.4 | 3378.3 | 3387.3 | 3522.4 | 3734.1 | 4060.7 | 4459.3 | 4839.9 |
| 20° | 3333.2 | 3346.7 | 3328.7 | 3346.7 | 3434.6 | 3452.6 | 3592.2 | 3776.9 | 4099.0 | 4533.6 | 4986.3 |
| 22.5° | 3461.6 | 3468.4 | 3425.6 | 3439.1 | 3529.2 | 3551.7 | 3713.9 | 3898.5 | 4191.3 | 4653.0 | 5182.3 |
| 25° | 3623.8 | 3637.3 | 3572.0 | 3587.7 | 3673.3 | 3700.3 | 3887.3 | 4081.0 | 4337.7 | 4817.4 | 5432.3 |
| 27.5° | 3810.7 | 3817.5 | 3761.1 | 3758.9 | 3869.3 | 3907.5 | 4096.7 | 4306.2 | 4533.6 | 5024.6 | 5747.6 |
| 30° | 4024.7 | 4044.9 | 3990.9 | 3981.9 | 4121.5 | 4153.0 | 4340.0 | 4583.2 | 4821.9 | 5335.4 | 6195.8 |
| 32.5° | 4193.6 | 4209.3 | 4177.8 | 4200.3 | 4342.2 | 4367.0 | 4635.0 | 4975.1 | 5274.6 | 5776.9 | 6806.1 |
| 35° | 4436.8 | 4445.8 | 4373.7 | 4414.3 | 4576.4 | 4639.5 | 5038.1 | 5524.6 | 5844.4 | 6330.9 | 7603.4 |
| 37.5° | 5317.4 | 5317.4 | 5011.1 | 4810.7 | 4966.1 | 5022.4 | 5589.9 | 6216.0 | 6547.1 | 7074.1 | 8607.9 |
| 40° | 6535.8 | 6515.6 | 6067.4 | 5657.5 | 5637.2 | 5747.6 | 6375.9 | 7087.6 | 7454.7 | 7966.0 | 9738.4 |
| 42.5° | 7835.4 | 7803.8 | 7193.5 | 6788.1 | 6720.5 | 6758.8 | 7283.6 | 8161.9 | 8535.8 | 9053.8 | 10954.6 |
| 45° | 8988.5 | 8979.5 | 8420.9 | 7875.9 | 7754.3 | 7875.9 | 8416.4 | 9418.6 | 9686.6 | 10231.7 | 12168.6 |
| 47.5° | 9954.7 | 9954.7 | 9547.0 | 9191.2 | 9128.1 | 9200.2 | 9950.2 | 10812.7 | 10788.0 | 11486.1 | 13351.0 |
| 50° | 11067.2 | 11058.2 | 10670.9 | 10517.7 | 10583.0 | 10684.4 | 11715.9 | 12281.2 | 11927.6 | 12718.1 | 14407.2 |
| 52.5° | 11846.5 | 11900.5 | 11767.7 | 11742.9 | 12076.2 | 12251.9 | 13508.6 | 13718.1 | 12947.8 | 13887.0 | 15197.7 |
| 55° | 12463.6 | 12526.7 | 12679.8 | 12853.2 | 13495.1 | 13724.8 | 15245.0 | 15080.6 | 13801.4 | 14900.5 | 15652.7 |
| 57.5° | 13337.4 | 13247.4 | 13483.8 | 13826.2 | 14864.4 | 15141.4 | 16927.4 | 16366.6 | 14488.3 | 15722.5 | 15702.2 |
| 60° | 14398.2 | 14411.7 | 14452.3 | 14884.7 | 16231.5 | 16587.3 | 18585.0 | 17582.8 | 14929.7 | 16227.0 | 15152.7 |
| 62.5° | 15673.0 | 15693.2 | 15776.6 | 16441.0 | 18067.0 | 18402.6 | 20350.7 | 18578.3 | 15132.4 | 16085.1 | 13733.8 |
| 65° | 15585.1 | 15670.7 | 16600.9 | 18873.3 | 20857.5 | 21188.6 | 22411.5 | 19276.5 | 14826.1 | 14787.8 | 11182.1 |
| 67.5° | 14197.8 | 14337.4 | 15893.7 | 21778.6 | 25064.6 | 25433.9 | 24902.4 | 19413.8 | 13504.1 | 11499.7 | 7294.8 |
| 70° | 12378.0 | 12427.6 | 14299.1 | 24391.2 | 29936.0 | 30309.9 | 27132.1 | 17902.6 | 10247.4 | 6414.2 | 3267.9 |
| 72.5° | 9666.4 | 9677.6 | 11873.5 | 24997.0 | 32580.1 | 32600.4 | 25382.1 | 13290.1 | 5511.1 | 2463.9 | 1135.1 |
| 75° | 6905.2 | 6837.6 | 7952.5 | 20271.9 | 28663.6 | 28893.3 | 19028.7 | 6234.0 | 2105.8 | 1164.4 | 565.3 |
| 77.5° | 3702.6 | 3776.9 | 4499.9 | 12022.2 | 19801.2 | 20193.1 | 10382.6 | 1797.2 | 1072.0 | 792.8 | 373.9 |
| 80° | 1144.1 | 1207.2 | 1844.5 | 5504.3 | 11215.9 | 11452.4 | 3849.0 | 799.5 | 747.7 | 565.3 | 245.5 |
| 82.5° | 360.3 | 373.9 | 860.3 | 2313.0 | 4655.3 | 4763.4 | 1114.8 | 452.7 | 511.2 | 373.9 | 144.1 |
| 85° | 103.6 | 105.9 | 382.9 | 862.6 | 1150.9 | 1173.4 | 313.1 | 175.7 | 292.8 | 232.0 | 74.3 |
| 87.5° | 11.3 | 36.0 | 144.1 | 144.1 | 101.3 | 99.1 | 33.8 | 38.3 | 83.3 | 29.3 | 13.5 |
| 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° | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 | 4454.8 |
| 2.5° | 4463.8 | 4466.1 | 4436.8 | 4387.3 | 4333.2 | 4288.2 | 4231.9 | 4186.8 | 4155.3 | 4146.3 | 4162.0 |
| 5° | 4495.4 | 4479.6 | 4396.3 | 4245.4 | 4065.2 | 3909.8 | 3736.4 | 3599.0 | 3508.9 | 3470.6 | 3484.1 |
| 7.5° | 4542.7 | 4497.6 | 4315.2 | 4017.9 | 3673.3 | 3367.0 | 3056.2 | 2815.2 | 2662.1 | 2585.5 | 2596.8 |
| 10° | 4583.2 | 4493.1 | 4180.1 | 3689.1 | 3162.1 | 2698.1 | 2279.2 | 1988.7 | 1826.5 | 1749.9 | 1752.2 |
| 12.5° | 4621.5 | 4490.9 | 4004.4 | 3299.5 | 2585.5 | 2018.0 | 1628.3 | 1484.2 | 1439.1 | 1423.4 | 1418.9 |
| 15° | 4693.6 | 4497.6 | 3783.7 | 2853.5 | 2011.2 | 1524.7 | 1382.8 | 1380.6 | 1389.6 | 1385.1 | 1382.8 |
| 17.5° | 4792.6 | 4504.4 | 3533.7 | 2380.6 | 1551.8 | 1344.6 | 1337.8 | 1358.1 | 1371.6 | 1364.8 | 1362.6 |
| 20° | 4921.0 | 4531.4 | 3267.9 | 1912.1 | 1333.3 | 1299.5 | 1315.3 | 1333.3 | 1344.6 | 1333.3 | 1331.0 |
| 22.5° | 5101.2 | 4578.7 | 2977.4 | 1536.0 | 1263.5 | 1272.5 | 1286.0 | 1306.3 | 1317.5 | 1301.8 | 1299.5 |
| 25° | 5321.9 | 4653.0 | 2691.4 | 1335.5 | 1229.7 | 1241.0 | 1261.2 | 1283.7 | 1297.3 | 1281.5 | 1279.2 |
| 27.5° | 5607.9 | 4772.4 | 2427.9 | 1290.5 | 1195.9 | 1202.7 | 1231.9 | 1265.7 | 1283.7 | 1263.5 | 1263.5 |
| 30° | 6022.3 | 4968.3 | 2200.4 | 1310.8 | 1175.6 | 1159.9 | 1200.4 | 1247.7 | 1268.0 | 1250.0 | 1247.7 |
| 32.5° | 6571.9 | 5245.3 | 2060.7 | 1342.3 | 1166.6 | 1110.3 | 1148.6 | 1209.4 | 1243.2 | 1231.9 | 1231.9 |
| 35° | 7292.6 | 5666.5 | 2006.7 | 1378.3 | 1159.9 | 1058.5 | 1085.6 | 1150.9 | 1209.4 | 1220.7 | 1220.7 |
| 37.5° | 8166.4 | 6252.1 | 2022.5 | 1394.1 | 1139.6 | 1015.7 | 1029.2 | 1085.6 | 1162.1 | 1198.2 | 1207.2 |
| 40° | 9159.6 | 6934.5 | 2112.5 | 1378.3 | 1117.1 | 979.7 | 982.0 | 1024.7 | 1092.3 | 1146.4 | 1164.4 |
| 42.5° | 10184.4 | 7731.8 | 2279.2 | 1319.8 | 1096.8 | 948.2 | 941.4 | 970.7 | 1015.7 | 1054.0 | 1069.8 |
| 45° | 11159.6 | 8551.5 | 2443.6 | 1238.7 | 1072.0 | 916.6 | 900.9 | 912.1 | 921.1 | 936.9 | 945.9 |
| 47.5° | 12010.9 | 9128.1 | 2396.3 | 1164.4 | 1038.3 | 880.6 | 853.6 | 849.1 | 822.0 | 819.8 | 817.5 |
| 50° | 12598.7 | 9254.2 | 2128.3 | 1090.1 | 988.7 | 840.1 | 797.3 | 770.2 | 723.0 | 700.4 | 702.7 |
| 52.5° | 12785.7 | 8756.5 | 1738.7 | 1015.7 | 907.6 | 786.0 | 725.2 | 682.4 | 623.9 | 603.6 | 601.3 |
| 55° | 12537.9 | 7781.3 | 1389.6 | 925.6 | 795.0 | 713.9 | 646.4 | 590.1 | 542.8 | 518.0 | 518.0 |
| 57.5° | 11932.1 | 6540.3 | 1099.1 | 819.8 | 675.7 | 632.9 | 565.3 | 509.0 | 468.5 | 443.7 | 439.2 |
| 60° | 10927.6 | 5193.5 | 869.3 | 693.7 | 576.6 | 545.0 | 475.2 | 439.2 | 403.1 | 373.9 | 367.1 |
| 62.5° | 9402.9 | 3707.1 | 682.4 | 549.5 | 482.0 | 445.9 | 405.4 | 378.4 | 335.6 | 295.0 | 288.3 |
| 65° | 7337.6 | 2268.0 | 527.0 | 403.1 | 387.4 | 369.4 | 344.6 | 319.8 | 268.0 | 227.5 | 220.7 |
| 67.5° | 4628.2 | 1074.3 | 376.1 | 304.0 | 306.3 | 297.3 | 286.0 | 265.8 | 227.5 | 191.4 | 186.9 |
| 70° | 2038.2 | 520.3 | 247.7 | 232.0 | 227.5 | 227.5 | 236.5 | 229.7 | 193.7 | 159.9 | 153.1 |
| 72.5° | 693.7 | 279.3 | 184.7 | 175.7 | 164.4 | 162.2 | 198.2 | 191.4 | 155.4 | 123.9 | 117.1 |
| 75° | 362.6 | 186.9 | 135.1 | 126.1 | 99.1 | 119.4 | 157.7 | 148.6 | 110.4 | 81.1 | 74.3 |
| 77.5° | 236.5 | 132.9 | 92.3 | 81.1 | 56.3 | 78.8 | 117.1 | 103.6 | 65.3 | 40.5 | 36.0 |
| 80° | 148.6 | 87.8 | 54.1 | 38.3 | 27.0 | 42.8 | 63.1 | 45.0 | 24.8 | 9.0 | 6.8 |
| 82.5° | 78.8 | 45.0 | 20.3 | 13.5 | 11.3 | 13.5 | 15.8 | 11.3 | 4.5 | 0.0 | 0.0 |
| 85° | 31.5 | 15.8 | 6.8 | 4.5 | 2.3 | 0.0 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.3 | 2.3 | 0.0 | 0.0 | 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 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)