

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: P970563

Luminaire Tested: **NVN-SB6B-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970563
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-SB6B-835-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32401.3 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

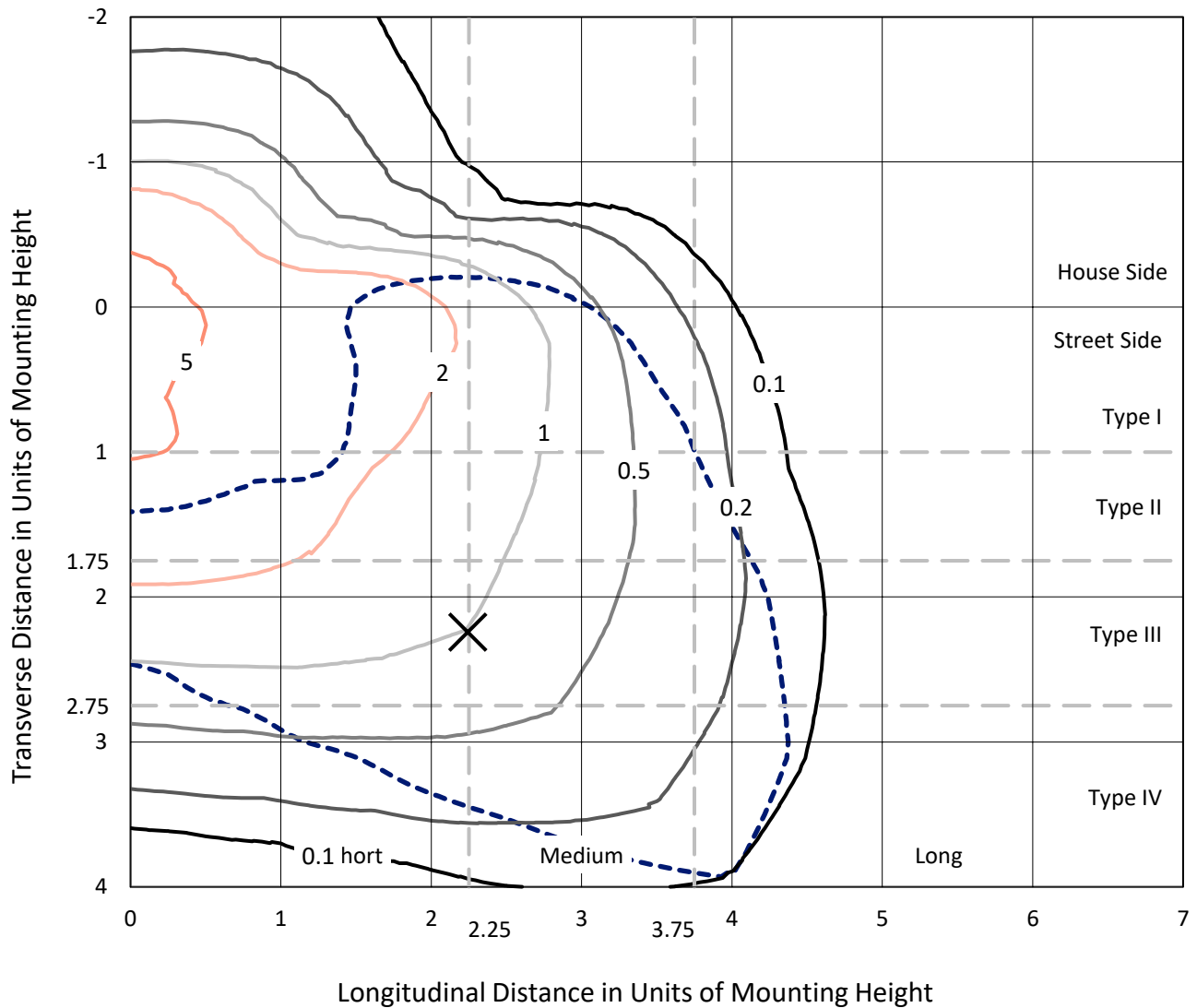
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

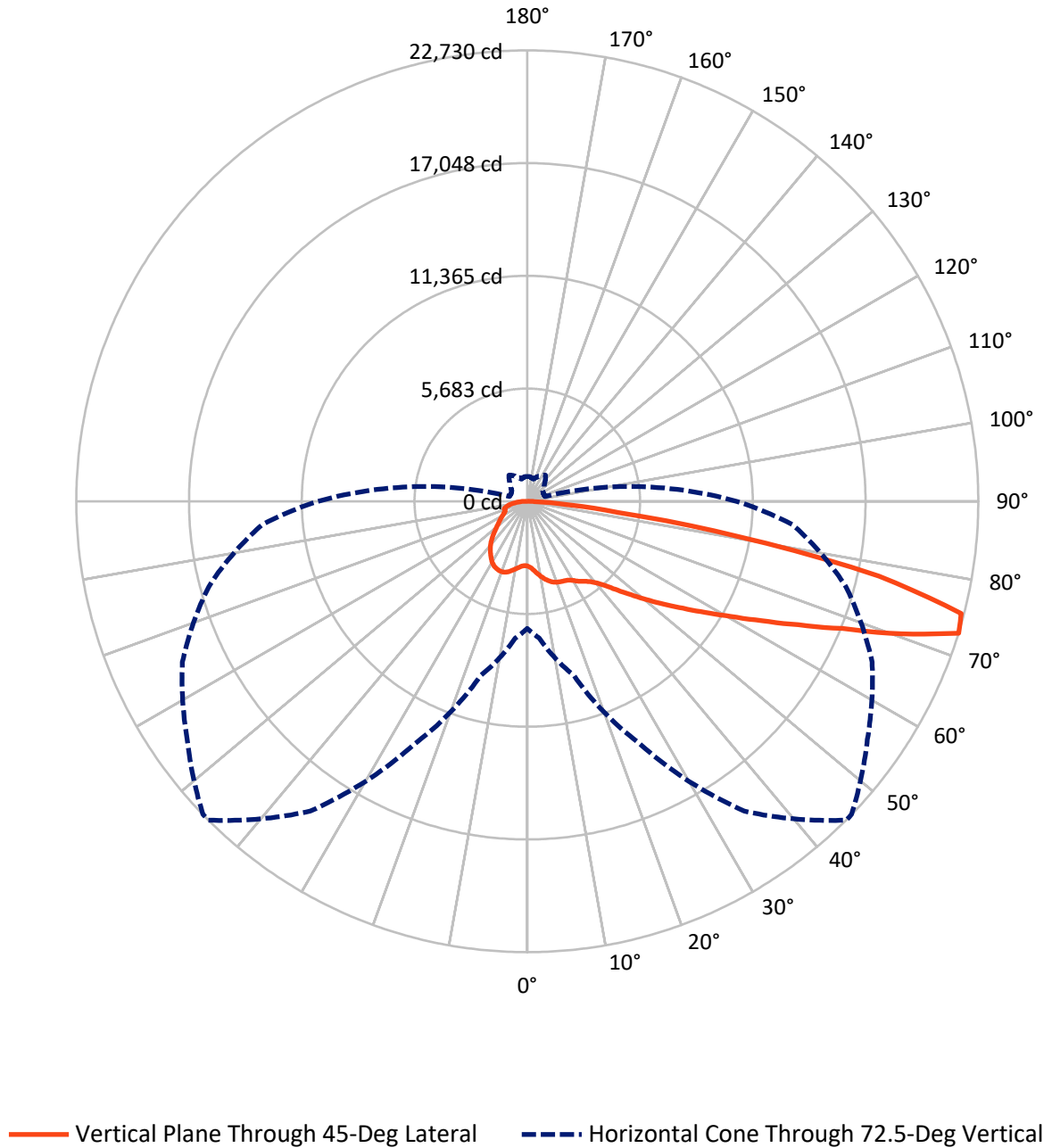
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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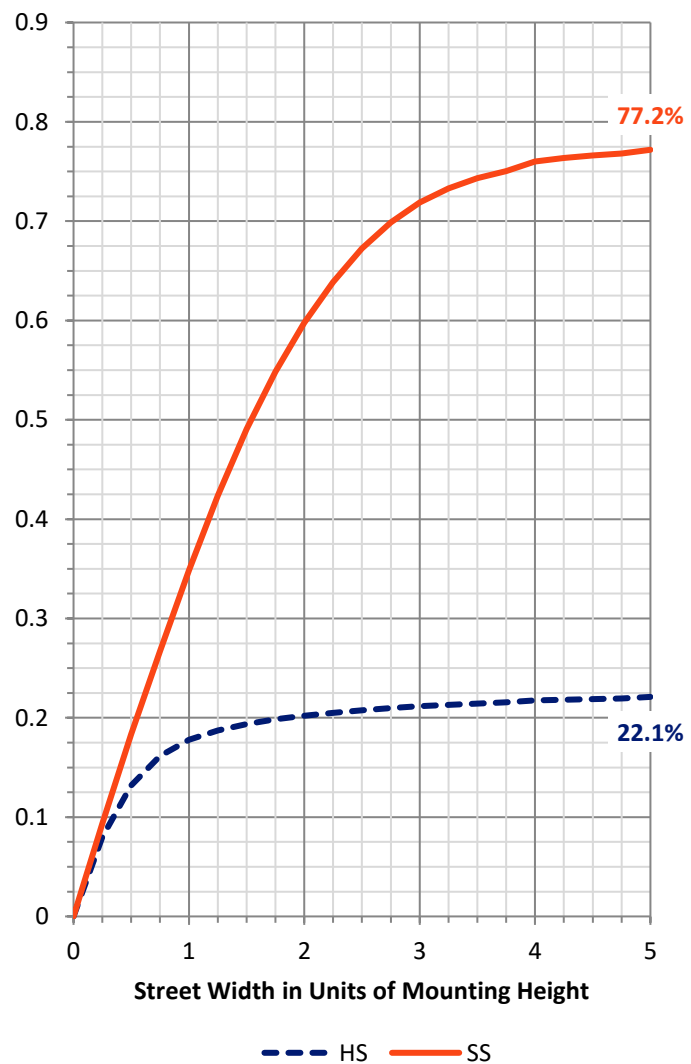
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7324.8 | 0.0 | 7324.8 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 25076.5 | 0.0 | 25076.5 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 32401.3 | 0.0 | 32401.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 332.7 | 1.0 |
| 10°-20° | 1109.2 | 3.4 |
| 20°-30° | 1929.5 | 6.0 |
| 30°-40° | 2766.1 | 8.5 |
| 40°-50° | 3894.8 | 12.0 |
| 50°-60° | 5965.7 | 18.4 |
| 60°-70° | 8642.3 | 26.7 |
| 70°-80° | 6901.4 | 21.3 |
| 80°-90° | 859.5 | 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° | 32401.3 | 100.0 |
| 0°-180° | 32401.3 | 100.0 |

Coefficient of Utilization



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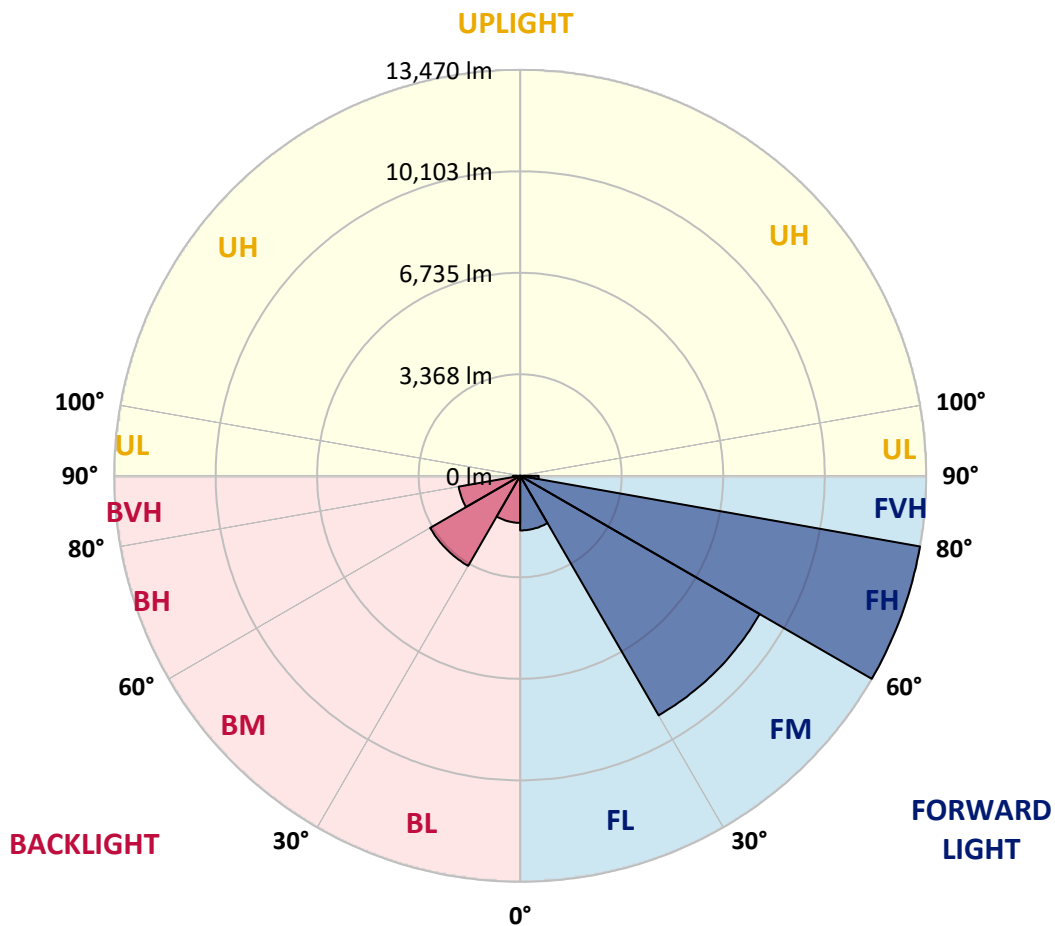
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1811.9 | 5.6 | | | |
| FM (30°-60°) | 9177.7 | 28.3 | | | |
| FH (60°-80°) | 13470.2 | 41.6 | | | G5 |
| FVH (80°-90°) | 616.6 | 1.9 | | | G4/750 |
| BL (0°-30°) | 1559.5 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 3448.9 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2073.5 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 242.9 | 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° | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 |
| 2.5° | 3396.6 | 3418.9 | 3398.4 | 3379.6 | 3371.0 | 3348.9 | 3347.1 | 3333.5 | 3325.0 | 3301.1 | 3294.2 |
| 5° | 3633.9 | 3662.9 | 3628.8 | 3591.3 | 3557.2 | 3502.5 | 3495.7 | 3456.4 | 3412.0 | 3360.9 | 3331.8 |
| 7.5° | 3901.9 | 3927.5 | 3888.2 | 3832.0 | 3772.2 | 3681.7 | 3680.1 | 3608.3 | 3538.3 | 3451.3 | 3401.8 |
| 10° | 4135.8 | 4169.9 | 4117.0 | 4040.1 | 3965.1 | 3862.6 | 3850.7 | 3768.7 | 3680.1 | 3567.4 | 3492.3 |
| 12.5° | 4342.3 | 4366.2 | 4314.9 | 4221.1 | 4134.0 | 4031.6 | 4016.3 | 3925.9 | 3826.8 | 3698.8 | 3603.2 |
| 15° | 4506.1 | 4536.9 | 4468.6 | 4367.8 | 4275.7 | 4175.0 | 4161.4 | 4079.4 | 3980.4 | 3845.6 | 3722.7 |
| 17.5° | 4613.6 | 4639.3 | 4569.2 | 4456.6 | 4367.8 | 4284.3 | 4274.0 | 4205.8 | 4118.7 | 3982.1 | 3850.7 |
| 20° | 4654.6 | 4682.0 | 4608.5 | 4494.2 | 4412.2 | 4347.4 | 4342.3 | 4292.8 | 4233.0 | 4108.4 | 3975.3 |
| 22.5° | 4695.6 | 4721.3 | 4625.6 | 4506.1 | 4434.5 | 4393.5 | 4391.8 | 4359.3 | 4335.4 | 4233.0 | 4103.3 |
| 25° | 4861.2 | 4868.0 | 4740.0 | 4567.6 | 4465.2 | 4429.3 | 4427.6 | 4426.0 | 4436.2 | 4355.9 | 4241.6 |
| 27.5° | 5004.6 | 5002.8 | 4893.6 | 4731.4 | 4572.7 | 4497.6 | 4495.9 | 4513.0 | 4545.4 | 4478.8 | 4385.0 |
| 30° | 5214.5 | 5195.7 | 5066.0 | 4897.0 | 4751.9 | 4635.9 | 4625.6 | 4610.2 | 4635.9 | 4583.0 | 4528.3 |
| 32.5° | 5659.9 | 5600.3 | 5390.3 | 5089.8 | 4900.4 | 4811.7 | 4798.0 | 4702.4 | 4712.6 | 4680.3 | 4652.9 |
| 35° | 6298.3 | 6219.8 | 5939.9 | 5455.2 | 5084.8 | 4958.4 | 4951.7 | 4830.4 | 4809.9 | 4780.9 | 4791.2 |
| 37.5° | 7057.9 | 6960.6 | 6634.6 | 5984.3 | 5402.3 | 5129.1 | 5119.0 | 5009.7 | 4926.0 | 4895.3 | 4953.3 |
| 40° | 7820.9 | 7698.0 | 7428.3 | 6629.5 | 5870.0 | 5414.2 | 5381.8 | 5216.2 | 5120.6 | 5069.4 | 5192.3 |
| 42.5° | 8561.6 | 8459.2 | 8228.8 | 7353.2 | 6446.8 | 5830.7 | 5759.0 | 5475.7 | 5403.9 | 5356.1 | 5578.0 |
| 45° | 9217.1 | 9125.0 | 8955.9 | 8126.4 | 7122.7 | 6397.3 | 6327.3 | 5864.8 | 5842.6 | 5842.6 | 6163.5 |
| 47.5° | 9749.7 | 9729.2 | 9549.9 | 8914.9 | 7919.9 | 7042.6 | 6921.3 | 6405.8 | 6465.6 | 6557.8 | 6994.8 |
| 50° | 10340.2 | 10283.9 | 10092.8 | 9691.6 | 8856.9 | 7781.6 | 7682.6 | 7069.8 | 7293.5 | 7546.0 | 8196.4 |
| 52.5° | 10883.0 | 10913.7 | 10700.4 | 10500.7 | 9915.2 | 8606.0 | 8432.0 | 7853.3 | 8336.3 | 8754.5 | 9604.6 |
| 55° | 11441.2 | 11442.9 | 11383.1 | 11355.8 | 11024.7 | 9517.5 | 9326.4 | 8795.5 | 9563.6 | 10082.5 | 11246.6 |
| 57.5° | 11965.1 | 11968.6 | 12057.4 | 12298.1 | 12311.7 | 10569.0 | 10352.2 | 9952.8 | 10927.4 | 11456.5 | 12939.8 |
| 60° | 12432.8 | 12456.7 | 12699.1 | 13262.4 | 13443.3 | 11774.0 | 11569.2 | 11320.0 | 12337.3 | 12869.8 | 14720.0 |
| 62.5° | 12589.9 | 12676.9 | 13216.4 | 14016.9 | 14561.4 | 13252.1 | 13050.7 | 12902.2 | 13818.8 | 14313.8 | 16208.4 |
| 65° | 12323.6 | 12523.3 | 13566.2 | 14639.9 | 15711.7 | 15008.6 | 14808.8 | 14646.6 | 15358.4 | 15824.4 | 17430.5 |
| 67.5° | 11669.8 | 11927.6 | 13545.7 | 15293.6 | 17108.0 | 17121.6 | 16935.6 | 16555.0 | 17009.0 | 17188.2 | 17828.2 |
| 70° | 9947.6 | 10333.4 | 12352.6 | 15537.7 | 18710.8 | 20011.4 | 19832.1 | 18852.4 | 18656.1 | 17789.0 | 16708.5 |
| 72.5° | 6409.3 | 6928.2 | 9096.0 | 13528.7 | 19067.5 | 22730.4 | 22720.1 | 20926.2 | 19176.7 | 16621.5 | 13400.6 |
| 75° | 2338.4 | 2655.9 | 4226.2 | 8491.7 | 16005.4 | 22592.1 | 22658.8 | 20571.2 | 17505.7 | 12839.0 | 8348.3 |
| 77.5° | 851.8 | 931.9 | 1379.1 | 3263.5 | 9843.5 | 18126.9 | 18265.2 | 16445.7 | 12460.2 | 6443.5 | 3307.9 |
| 80° | 447.2 | 491.6 | 706.6 | 1266.5 | 4217.7 | 10765.3 | 10982.1 | 9773.6 | 5856.2 | 1940.7 | 991.7 |
| 82.5° | 247.5 | 267.9 | 396.0 | 687.9 | 1899.7 | 4603.5 | 4733.1 | 3861.0 | 2060.1 | 822.7 | 409.7 |
| 85° | 133.1 | 141.7 | 186.0 | 375.6 | 928.5 | 1595.9 | 1631.8 | 1153.8 | 821.0 | 483.1 | 198.0 |
| 87.5° | 39.3 | 47.8 | 61.4 | 119.5 | 363.6 | 358.4 | 367.0 | 228.7 | 324.3 | 244.1 | 64.9 |
| 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° | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 | 3268.6 |
| 2.5° | 3284.0 | 3278.9 | 3260.1 | 3251.6 | 3241.4 | 3239.6 | 3248.2 | 3249.9 | 3251.6 | 3253.2 | 3260.1 |
| 5° | 3314.7 | 3297.6 | 3280.6 | 3270.4 | 3273.7 | 3275.5 | 3292.5 | 3304.5 | 3313.0 | 3319.9 | 3323.3 |
| 7.5° | 3374.5 | 3360.9 | 3331.8 | 3330.1 | 3335.2 | 3350.6 | 3372.8 | 3400.1 | 3415.4 | 3427.4 | 3430.8 |
| 10° | 3463.3 | 3437.6 | 3403.5 | 3408.6 | 3418.9 | 3441.0 | 3487.2 | 3509.3 | 3534.9 | 3557.2 | 3552.0 |
| 12.5° | 3553.7 | 3531.5 | 3492.3 | 3495.7 | 3512.8 | 3552.0 | 3596.4 | 3623.7 | 3640.8 | 3657.8 | 3664.7 |
| 15° | 3671.4 | 3632.2 | 3589.6 | 3589.6 | 3620.3 | 3662.9 | 3683.4 | 3705.6 | 3715.8 | 3734.6 | 3741.5 |
| 17.5° | 3792.7 | 3741.5 | 3685.2 | 3681.7 | 3719.3 | 3739.7 | 3751.7 | 3755.1 | 3758.6 | 3779.0 | 3785.8 |
| 20° | 3913.9 | 3857.5 | 3777.3 | 3770.5 | 3779.0 | 3775.6 | 3773.8 | 3770.5 | 3775.6 | 3801.2 | 3811.5 |
| 22.5° | 4033.4 | 3968.5 | 3857.5 | 3826.8 | 3803.0 | 3770.5 | 3768.7 | 3767.1 | 3770.5 | 3796.1 | 3813.1 |
| 25° | 4173.3 | 4094.8 | 3946.2 | 3854.1 | 3773.8 | 3729.5 | 3734.6 | 3736.3 | 3739.7 | 3760.2 | 3787.6 |
| 27.5° | 4325.2 | 4238.2 | 4028.2 | 3845.6 | 3700.5 | 3669.8 | 3661.2 | 3666.3 | 3678.3 | 3710.7 | 3743.2 |
| 30° | 4477.1 | 4374.7 | 4103.3 | 3811.5 | 3608.3 | 3565.7 | 3538.3 | 3550.3 | 3587.8 | 3620.3 | 3656.1 |
| 32.5° | 4615.4 | 4513.0 | 4163.0 | 3736.3 | 3490.5 | 3424.0 | 3388.1 | 3403.5 | 3441.0 | 3453.0 | 3495.7 |
| 35° | 4777.5 | 4661.5 | 4188.7 | 3616.8 | 3362.5 | 3260.1 | 3212.4 | 3190.1 | 3209.0 | 3197.0 | 3234.5 |
| 37.5° | 4958.4 | 4837.3 | 4185.3 | 3459.8 | 3212.4 | 3094.6 | 3028.0 | 2944.3 | 2905.1 | 2864.2 | 2889.8 |
| 40° | 5226.5 | 5052.3 | 4144.3 | 3270.4 | 3026.3 | 2918.8 | 2799.3 | 2657.6 | 2568.9 | 2488.6 | 2493.7 |
| 42.5° | 5591.7 | 5351.0 | 4069.1 | 3062.1 | 2816.3 | 2715.6 | 2553.5 | 2387.9 | 2247.9 | 2114.8 | 2102.9 |
| 45° | 6136.2 | 5741.9 | 3975.3 | 2840.3 | 2589.4 | 2490.3 | 2314.6 | 2128.5 | 1969.7 | 1799.1 | 1778.6 |
| 47.5° | 6921.3 | 6267.7 | 3886.6 | 2587.6 | 2350.3 | 2259.9 | 2101.1 | 1928.7 | 1741.0 | 1575.4 | 1556.7 |
| 50° | 8000.1 | 7022.1 | 3804.6 | 2341.8 | 2114.8 | 2046.5 | 1920.2 | 1744.4 | 1554.9 | 1421.8 | 1413.3 |
| 52.5° | 9372.4 | 8047.9 | 3770.5 | 2104.5 | 1894.6 | 1869.0 | 1768.3 | 1604.4 | 1425.3 | 1312.6 | 1304.0 |
| 55° | 10947.8 | 9275.1 | 3770.5 | 1877.6 | 1701.7 | 1710.3 | 1640.3 | 1488.4 | 1333.1 | 1232.4 | 1222.1 |
| 57.5° | 12555.7 | 10517.7 | 3702.2 | 1667.6 | 1537.9 | 1573.8 | 1529.4 | 1396.3 | 1256.2 | 1152.1 | 1135.1 |
| 60° | 14037.3 | 11558.9 | 3425.7 | 1476.4 | 1392.8 | 1449.1 | 1420.1 | 1305.7 | 1135.1 | 1048.1 | 1034.3 |
| 62.5° | 15175.7 | 12146.0 | 2893.2 | 1324.5 | 1273.4 | 1338.1 | 1322.9 | 1186.2 | 1112.8 | 1077.1 | 1065.1 |
| 65° | 15745.8 | 12050.5 | 2212.2 | 1189.7 | 1172.6 | 1273.4 | 1240.9 | 1235.7 | 1177.7 | 1136.7 | 1123.1 |
| 67.5° | 15396.0 | 11227.7 | 1604.4 | 1090.7 | 1114.6 | 1213.6 | 1338.1 | 1358.6 | 1251.1 | 1171.0 | 1157.2 |
| 70° | 13861.5 | 9739.4 | 1194.8 | 996.8 | 1041.2 | 1215.3 | 1525.9 | 1421.8 | 1227.2 | 1133.3 | 1118.0 |
| 72.5° | 10545.1 | 7262.7 | 926.8 | 897.8 | 945.6 | 1223.8 | 1609.6 | 1392.8 | 1159.0 | 1252.9 | 1242.6 |
| 75° | 6030.4 | 3987.2 | 744.2 | 776.6 | 826.2 | 1143.6 | 1566.9 | 1317.7 | 1106.1 | 1150.5 | 1150.5 |
| 77.5° | 2299.2 | 1532.8 | 614.5 | 657.1 | 664.0 | 998.6 | 1498.7 | 1312.6 | 1053.2 | 1027.6 | 937.1 |
| 80° | 797.1 | 599.1 | 508.6 | 522.3 | 513.7 | 887.5 | 1437.2 | 1141.8 | 861.9 | 771.5 | 745.9 |
| 82.5° | 326.1 | 298.7 | 402.8 | 385.7 | 365.3 | 689.6 | 1160.7 | 933.7 | 704.9 | 623.0 | 616.2 |
| 85° | 141.7 | 189.4 | 266.3 | 233.8 | 211.7 | 478.0 | 930.3 | 790.3 | 595.7 | 513.7 | 512.1 |
| 87.5° | 29.0 | 71.6 | 112.6 | 105.8 | 109.3 | 319.2 | 660.5 | 561.6 | 421.6 | 315.8 | 247.5 |
| 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)