

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: P969943

Luminaire Tested: **NAV-SB6A-760-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P969943  
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: LUMARK  
Catalog Number: NAV-SB6A-760-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

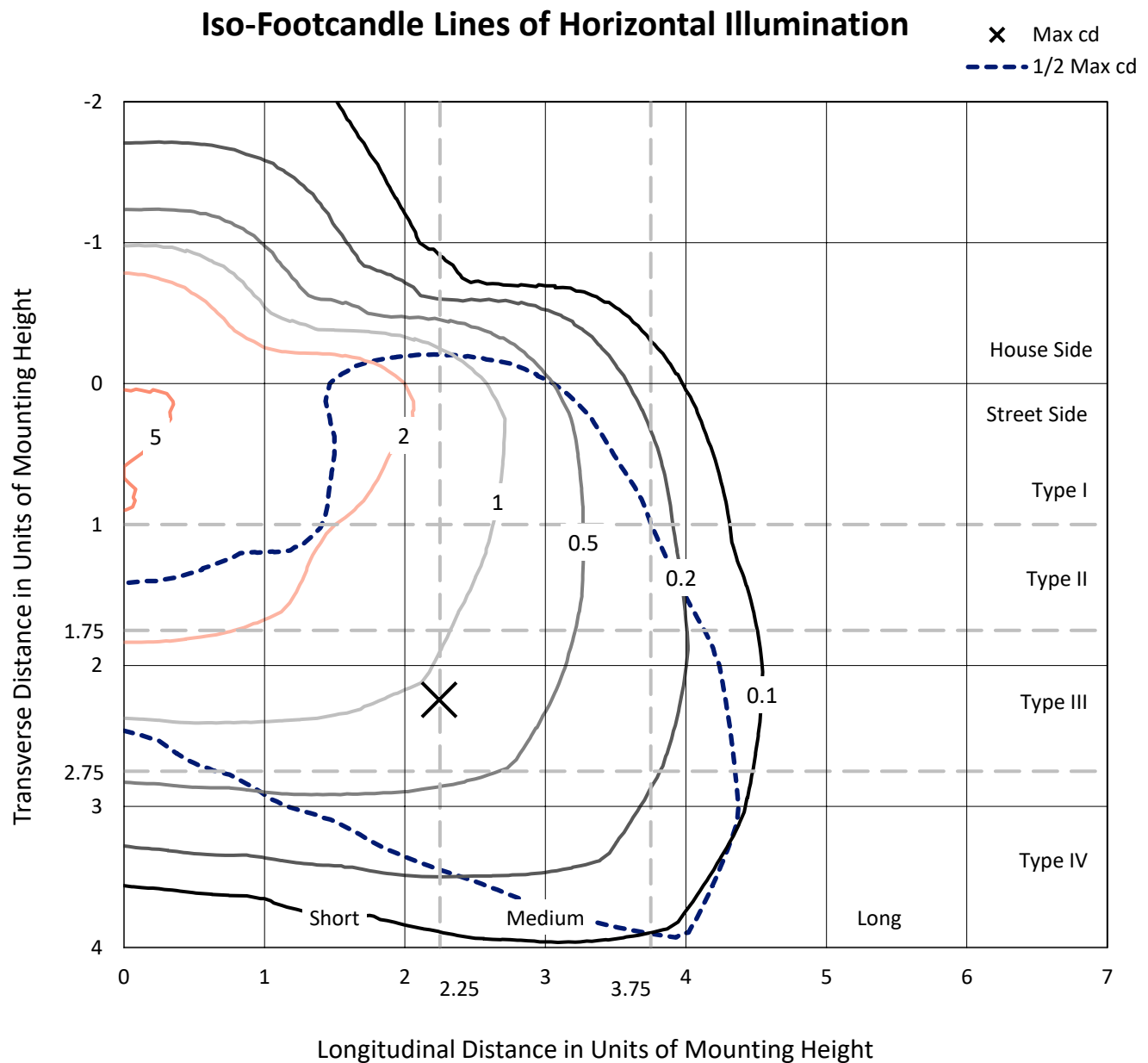
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29441.1 lumens  
Efficiency: N/A  
Efficacy: 172.3 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): 170.9  
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



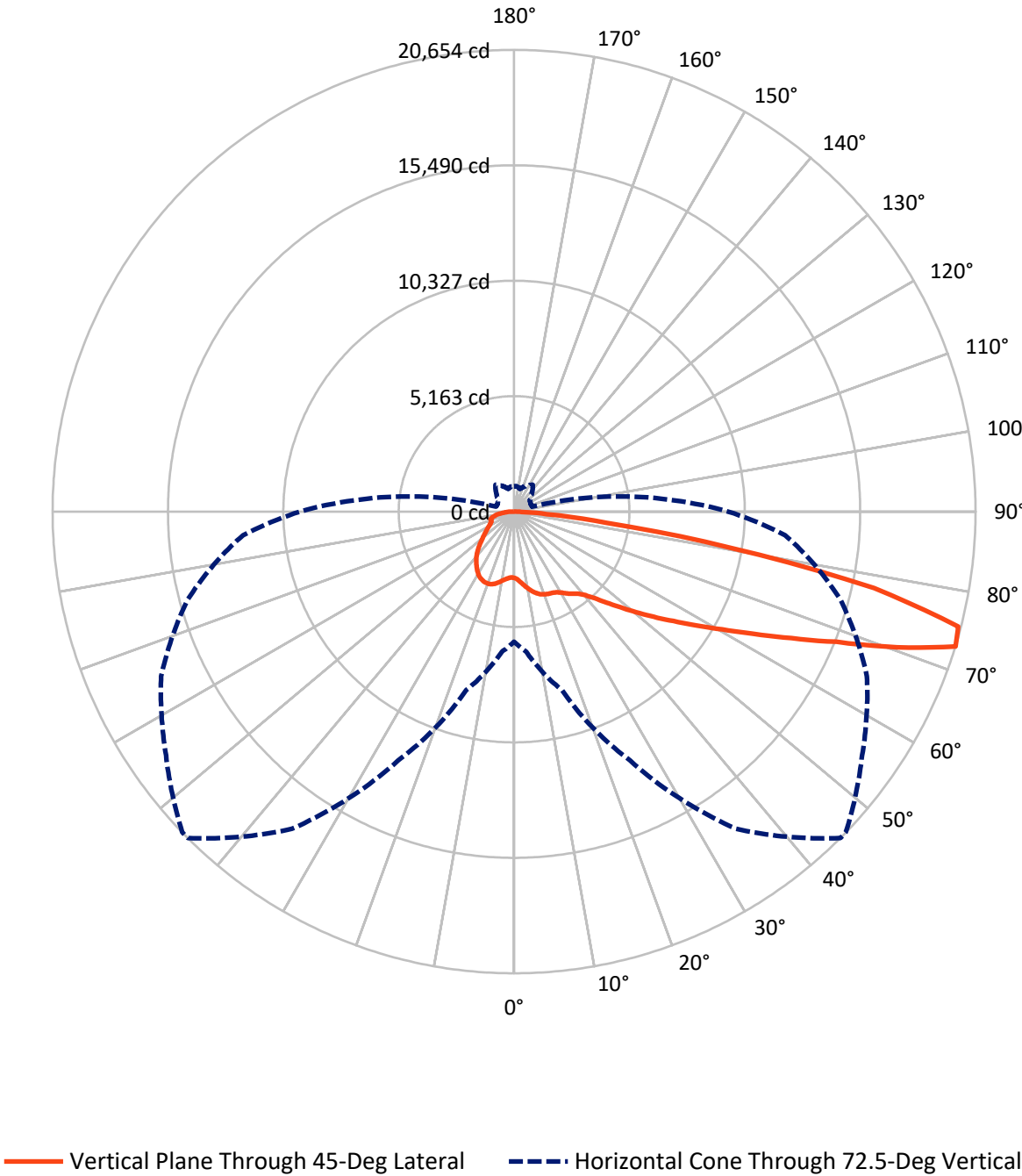
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Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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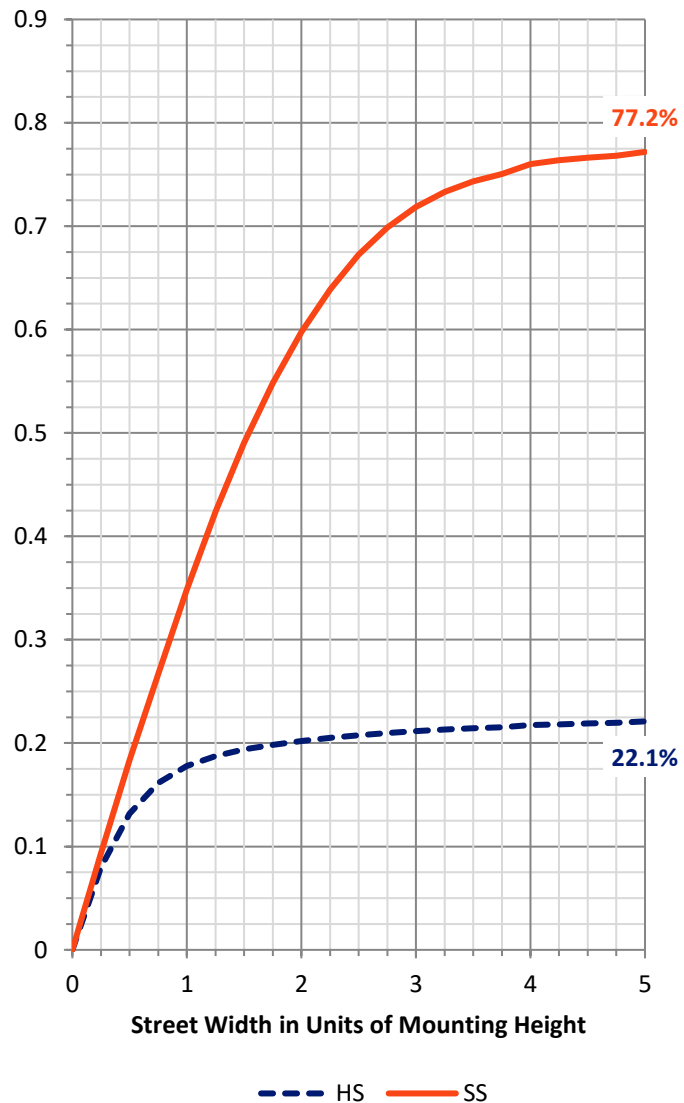
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6655.6   | 0.0    | 6655.6  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 22785.5  | 0.0    | 22785.5 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 29441.1  | 0.0    | 29441.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 302.3   | 1.0       |
| 10°-20°   | 1007.9  | 3.4       |
| 20°-30°   | 1753.3  | 6.0       |
| 30°-40°   | 2513.4  | 8.5       |
| 40°-50°   | 3539.0  | 12.0      |
| 50°-60°   | 5420.7  | 18.4      |
| 60°-70°   | 7852.7  | 26.7      |
| 70°-80°   | 6270.9  | 21.3      |
| 80°-90°   | 781.0   | 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°    | 29441.1 | 100.0     |
| 0°-180°   | 29441.1 | 100.0     |

**Coefficient of Utilization**



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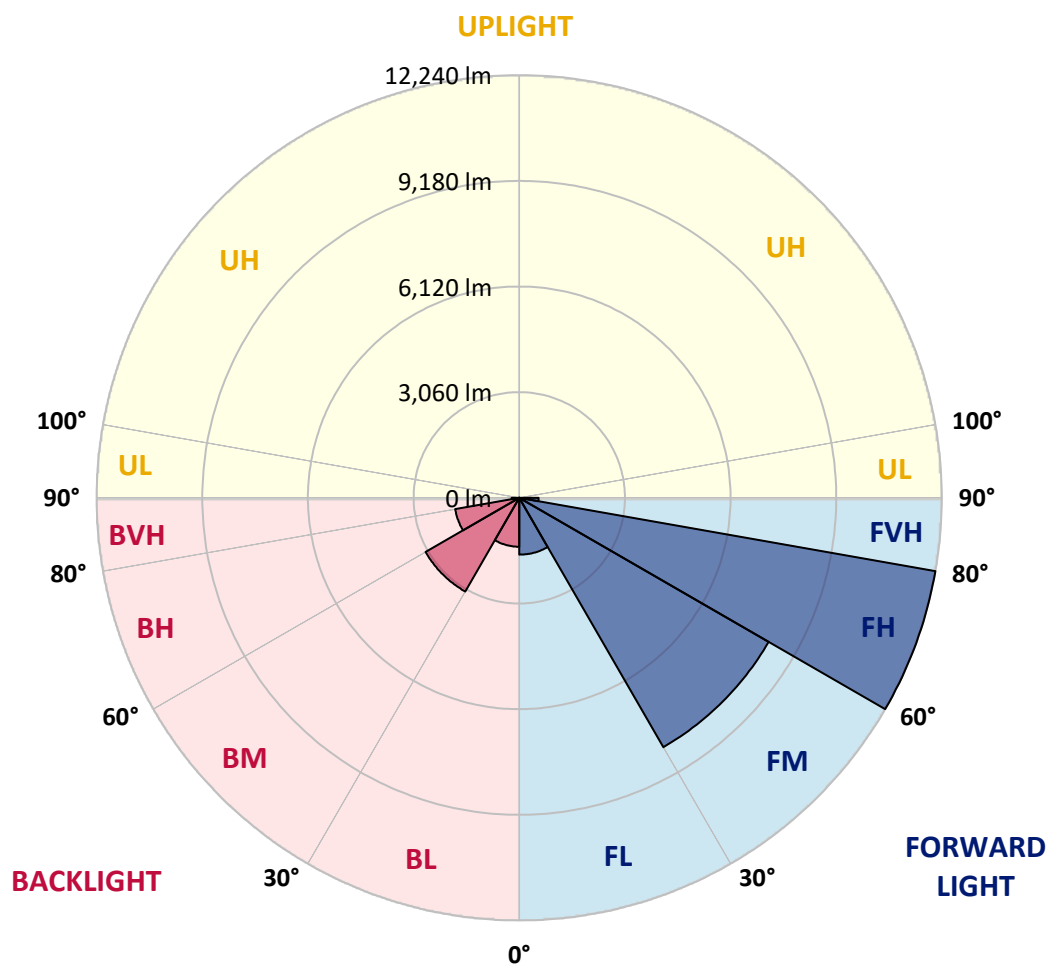
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1646.4  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 8339.2  | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 12239.5 | 41.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 560.3   | 1.9       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1417.0  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3133.8  | 10.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1884.0  | 6.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 220.7   | 0.7       |                         |      | G2/225  |
| 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°    | 2970.0  | 2970.0  | 2970.0  | 2970.0  | 2970.0  | 2970.0  | 2970.0  | 2970.0  | 2970.0  | 2970.0  | 2970.0  |
| 2.5°  | 3086.4  | 3106.5  | 3087.9  | 3070.8  | 3063.1  | 3042.9  | 3041.4  | 3029.0  | 3021.2  | 2999.5  | 2993.3  |
| 5°    | 3301.9  | 3328.3  | 3297.3  | 3263.2  | 3232.1  | 3182.5  | 3176.3  | 3140.6  | 3100.3  | 3053.8  | 3027.4  |
| 7.5°  | 3545.5  | 3568.6  | 3533.0  | 3481.8  | 3427.6  | 3345.4  | 3343.8  | 3278.7  | 3215.1  | 3136.0  | 3091.0  |
| 10°   | 3757.9  | 3788.9  | 3740.8  | 3671.0  | 3602.8  | 3509.8  | 3498.9  | 3424.4  | 3343.8  | 3241.5  | 3173.2  |
| 12.5° | 3945.5  | 3967.3  | 3920.7  | 3835.4  | 3756.3  | 3663.2  | 3649.3  | 3567.1  | 3477.2  | 3360.9  | 3274.1  |
| 15°   | 4094.5  | 4122.3  | 4060.3  | 3968.8  | 3885.1  | 3793.5  | 3781.1  | 3706.7  | 3616.8  | 3494.2  | 3382.6  |
| 17.5° | 4192.1  | 4215.4  | 4151.9  | 4049.5  | 3968.8  | 3892.8  | 3883.5  | 3821.5  | 3742.4  | 3618.4  | 3498.9  |
| 20°   | 4229.4  | 4254.2  | 4187.5  | 4083.6  | 4009.2  | 3950.2  | 3945.5  | 3900.6  | 3846.3  | 3733.0  | 3612.1  |
| 22.5° | 4266.6  | 4289.8  | 4203.0  | 4094.5  | 4029.3  | 3992.1  | 3990.5  | 3961.1  | 3939.4  | 3846.3  | 3728.4  |
| 25°   | 4417.0  | 4423.3  | 4306.9  | 4150.3  | 4057.3  | 4024.7  | 4023.1  | 4021.6  | 4030.9  | 3957.9  | 3854.1  |
| 27.5° | 4547.3  | 4545.8  | 4446.6  | 4299.2  | 4154.9  | 4086.7  | 4085.1  | 4100.6  | 4130.1  | 4069.7  | 3984.4  |
| 30°   | 4738.1  | 4721.0  | 4603.2  | 4449.6  | 4317.8  | 4212.3  | 4203.0  | 4189.1  | 4212.3  | 4164.3  | 4114.7  |
| 32.5° | 5142.8  | 5088.6  | 4897.9  | 4624.9  | 4452.7  | 4372.0  | 4359.6  | 4272.8  | 4282.1  | 4252.6  | 4227.8  |
| 35°   | 5722.9  | 5651.5  | 5397.2  | 4956.8  | 4620.2  | 4505.5  | 4499.2  | 4389.2  | 4370.5  | 4344.2  | 4353.5  |
| 37.5° | 6413.1  | 6324.7  | 6028.4  | 5437.5  | 4908.7  | 4660.6  | 4651.2  | 4552.0  | 4476.0  | 4448.1  | 4500.8  |
| 40°   | 7106.3  | 6994.7  | 6749.6  | 6023.8  | 5333.7  | 4919.6  | 4890.1  | 4739.6  | 4652.8  | 4606.2  | 4718.0  |
| 42.5° | 7779.4  | 7686.4  | 7477.1  | 6681.4  | 5857.9  | 5298.0  | 5232.8  | 4975.3  | 4910.3  | 4866.8  | 5068.4  |
| 45°   | 8375.1  | 8291.2  | 8137.7  | 7384.0  | 6472.1  | 5812.9  | 5749.3  | 5329.0  | 5308.9  | 5308.9  | 5600.4  |
| 47.5° | 8858.9  | 8840.3  | 8677.4  | 8100.5  | 7196.3  | 6399.2  | 6289.0  | 5820.7  | 5874.9  | 5958.6  | 6355.7  |
| 50°   | 9395.6  | 9344.3  | 9170.7  | 8806.2  | 8047.8  | 7070.7  | 6980.8  | 6424.0  | 6627.1  | 6856.6  | 7447.5  |
| 52.5° | 9888.7  | 9916.7  | 9722.7  | 9541.3  | 9009.3  | 7819.8  | 7661.6  | 7135.8  | 7574.7  | 7954.7  | 8727.1  |
| 55°   | 10395.9 | 10397.4 | 10343.2 | 10318.4 | 10017.4 | 8648.0  | 8474.3  | 7991.9  | 8689.8  | 9161.3  | 10219.0 |
| 57.5° | 10872.0 | 10875.1 | 10955.8 | 11174.4 | 11186.8 | 9603.3  | 9406.4  | 9043.5  | 9929.1  | 10409.8 | 11757.6 |
| 60°   | 11296.9 | 11318.7 | 11538.9 | 12050.7 | 12215.1 | 10698.3 | 10512.2 | 10285.8 | 11210.1 | 11694.0 | 13375.2 |
| 62.5° | 11439.6 | 11518.7 | 12008.9 | 12736.2 | 13231.0 | 12041.4 | 11858.4 | 11723.4 | 12556.4 | 13006.1 | 14727.6 |
| 65°   | 11197.7 | 11379.1 | 12326.8 | 13302.3 | 14276.3 | 13637.3 | 13455.9 | 13308.5 | 13955.3 | 14378.7 | 15838.1 |
| 67.5° | 10603.7 | 10837.9 | 12308.2 | 13896.3 | 15544.9 | 15557.3 | 15388.3 | 15042.5 | 15455.1 | 15617.8 | 16199.5 |
| 70°   | 9038.9  | 9389.3  | 11224.1 | 14118.1 | 17001.3 | 18183.1 | 18020.2 | 17130.0 | 16951.7 | 16163.8 | 15182.1 |
| 72.5° | 5823.7  | 6295.2  | 8264.9  | 12292.7 | 17325.5 | 20653.8 | 20644.4 | 19014.4 | 17424.7 | 15103.0 | 12176.4 |
| 75°   | 2124.8  | 2413.3  | 3840.1  | 7715.9  | 14543.1 | 20528.1 | 20588.6 | 18691.8 | 15906.4 | 11666.1 | 7585.6  |
| 77.5° | 773.9   | 846.9   | 1253.2  | 2965.4  | 8944.3  | 16470.9 | 16596.5 | 14943.2 | 11321.7 | 5854.8  | 3005.7  |
| 80°   | 406.3   | 446.7   | 642.1   | 1150.8  | 3832.4  | 9781.7  | 9978.7  | 8880.6  | 5321.3  | 1763.4  | 901.1   |
| 82.5° | 224.9   | 243.5   | 359.8   | 625.0   | 1726.2  | 4182.8  | 4300.7  | 3508.2  | 1872.0  | 747.5   | 372.2   |
| 85°   | 121.0   | 128.7   | 169.0   | 341.2   | 843.7   | 1450.2  | 1482.7  | 1048.5  | 746.0   | 438.9   | 179.9   |
| 87.5° | 35.7    | 43.5    | 55.9    | 108.5   | 330.4   | 325.7   | 333.4   | 207.9   | 294.7   | 221.8   | 58.9    |
| 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°    | 2970.0  | 2970.0  | 2970.0 | 2970.0 | 2970.0 | 2970.0 | 2970.0 | 2970.0 | 2970.0 | 2970.0 | 2970.0 |
| 2.5°  | 2984.0  | 2979.4  | 2962.2 | 2954.6 | 2945.2 | 2943.7 | 2951.4 | 2952.9 | 2954.6 | 2956.1 | 2962.2 |
| 5°    | 3011.9  | 2996.4  | 2980.9 | 2971.6 | 2974.7 | 2976.2 | 2991.8 | 3002.6 | 3010.3 | 3016.6 | 3019.6 |
| 7.5°  | 3066.2  | 3053.8  | 3027.4 | 3025.9 | 3030.5 | 3044.5 | 3064.6 | 3089.5 | 3103.4 | 3114.3 | 3117.3 |
| 10°   | 3146.9  | 3123.6  | 3092.5 | 3097.2 | 3106.5 | 3126.7 | 3168.6 | 3188.7 | 3211.9 | 3232.1 | 3227.5 |
| 12.5° | 3229.1  | 3208.9  | 3173.2 | 3176.3 | 3191.8 | 3227.5 | 3267.8 | 3292.6 | 3308.1 | 3323.7 | 3329.8 |
| 15°   | 3336.1  | 3300.4  | 3261.7 | 3261.7 | 3289.5 | 3328.3 | 3346.9 | 3367.0 | 3376.4 | 3393.5 | 3399.6 |
| 17.5° | 3446.2  | 3399.6  | 3348.5 | 3345.4 | 3379.5 | 3398.1 | 3408.9 | 3412.0 | 3415.2 | 3433.7 | 3440.0 |
| 20°   | 3556.2  | 3505.1  | 3432.2 | 3426.0 | 3433.7 | 3430.7 | 3429.1 | 3426.0 | 3430.7 | 3453.9 | 3463.3 |
| 22.5° | 3664.9  | 3606.0  | 3505.1 | 3477.2 | 3455.5 | 3426.0 | 3424.4 | 3422.9 | 3426.0 | 3449.2 | 3464.8 |
| 25°   | 3792.0  | 3720.6  | 3585.8 | 3502.0 | 3429.1 | 3388.8 | 3393.5 | 3395.0 | 3398.1 | 3416.7 | 3441.5 |
| 27.5° | 3930.1  | 3850.9  | 3660.2 | 3494.2 | 3362.4 | 3334.5 | 3326.7 | 3331.4 | 3342.2 | 3371.7 | 3401.2 |
| 30°   | 4068.1  | 3975.1  | 3728.4 | 3463.3 | 3278.7 | 3239.9 | 3215.1 | 3226.0 | 3260.0 | 3289.5 | 3322.1 |
| 32.5° | 4193.7  | 4100.6  | 3782.8 | 3395.0 | 3171.7 | 3111.2 | 3078.6 | 3092.5 | 3126.7 | 3137.5 | 3176.3 |
| 35°   | 4341.1  | 4235.6  | 3806.0 | 3286.5 | 3055.3 | 2962.2 | 2918.9 | 2898.7 | 2915.7 | 2904.8 | 2939.0 |
| 37.5° | 4505.5  | 4395.3  | 3802.9 | 3143.8 | 2918.9 | 2811.9 | 2751.3 | 2675.4 | 2639.7 | 2602.5 | 2625.7 |
| 40°   | 4748.9  | 4590.8  | 3765.6 | 2971.6 | 2749.8 | 2652.1 | 2543.5 | 2414.8 | 2334.1 | 2261.3 | 2265.9 |
| 42.5° | 5080.8  | 4862.2  | 3697.4 | 2782.4 | 2559.0 | 2467.5 | 2320.2 | 2169.7 | 2042.6 | 1921.6 | 1910.7 |
| 45°   | 5575.6  | 5217.4  | 3612.1 | 2580.7 | 2352.8 | 2262.8 | 2103.1 | 1934.0 | 1789.8 | 1634.7 | 1616.1 |
| 47.5° | 6289.0  | 5695.0  | 3531.4 | 2351.2 | 2135.6 | 2053.4 | 1909.2 | 1752.5 | 1582.0 | 1431.5 | 1414.4 |
| 50°   | 7269.2  | 6380.5  | 3457.0 | 2127.9 | 1921.6 | 1859.6 | 1744.8 | 1585.1 | 1412.9 | 1291.9 | 1284.1 |
| 52.5° | 8516.1  | 7312.7  | 3426.0 | 1912.3 | 1721.5 | 1698.2 | 1606.8 | 1457.9 | 1295.0 | 1192.7 | 1184.9 |
| 55°   | 9947.6  | 8427.8  | 3426.0 | 1706.0 | 1546.3 | 1554.0 | 1490.5 | 1352.4 | 1211.2 | 1119.8 | 1110.5 |
| 57.5° | 11408.7 | 9556.8  | 3363.9 | 1515.3 | 1397.4 | 1430.0 | 1389.6 | 1268.6 | 1141.4 | 1046.8 | 1031.4 |
| 60°   | 12754.9 | 10502.9 | 3112.7 | 1341.5 | 1265.6 | 1316.7 | 1290.4 | 1186.4 | 1031.4 | 952.2  | 939.8  |
| 62.5° | 13789.3 | 11036.4 | 2628.8 | 1203.6 | 1157.0 | 1216.0 | 1202.0 | 1077.9 | 1011.2 | 978.7  | 967.8  |
| 65°   | 14307.4 | 10949.6 | 2010.0 | 1081.0 | 1065.5 | 1157.0 | 1127.5 | 1122.9 | 1070.1 | 1032.9 | 1020.5 |
| 67.5° | 13989.4 | 10202.0 | 1457.9 | 991.1  | 1012.8 | 1102.7 | 1216.0 | 1234.5 | 1136.8 | 1063.9 | 1051.5 |
| 70°   | 12595.1 | 8849.6  | 1085.7 | 905.8  | 946.1  | 1104.2 | 1386.5 | 1291.9 | 1115.1 | 1029.8 | 1015.9 |
| 72.5° | 9581.6  | 6599.3  | 842.1  | 815.8  | 859.3  | 1112.0 | 1462.6 | 1265.6 | 1053.1 | 1138.4 | 1129.0 |
| 75°   | 5479.4  | 3623.0  | 676.2  | 705.7  | 750.6  | 1039.1 | 1423.7 | 1197.3 | 1005.0 | 1045.3 | 1045.3 |
| 77.5° | 2089.1  | 1392.8  | 558.3  | 597.1  | 603.3  | 907.3  | 1361.7 | 1192.7 | 956.9  | 933.7  | 851.5  |
| 80°   | 724.3   | 544.4   | 462.2  | 474.6  | 466.8  | 806.5  | 1305.8 | 1037.6 | 783.2  | 701.0  | 677.7  |
| 82.5° | 296.2   | 271.4   | 366.0  | 350.5  | 331.9  | 626.6  | 1054.6 | 848.4  | 640.5  | 566.1  | 559.9  |
| 85°   | 128.7   | 172.2   | 241.9  | 212.5  | 192.3  | 434.3  | 845.2  | 718.1  | 541.3  | 466.8  | 465.2  |
| 87.5° | 26.3    | 65.2    | 102.4  | 96.1   | 99.2   | 290.1  | 600.2  | 510.2  | 383.0  | 286.9  | 224.9  |
| 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)