

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: INVUE

Report Number: P148191

Luminaire Tested: **VXM-E06-LED-E1-5XQ-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148191  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXM-E06-LED-E1-5XQ-7050  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (126) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19580.4 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 150.5  
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: 25 FT



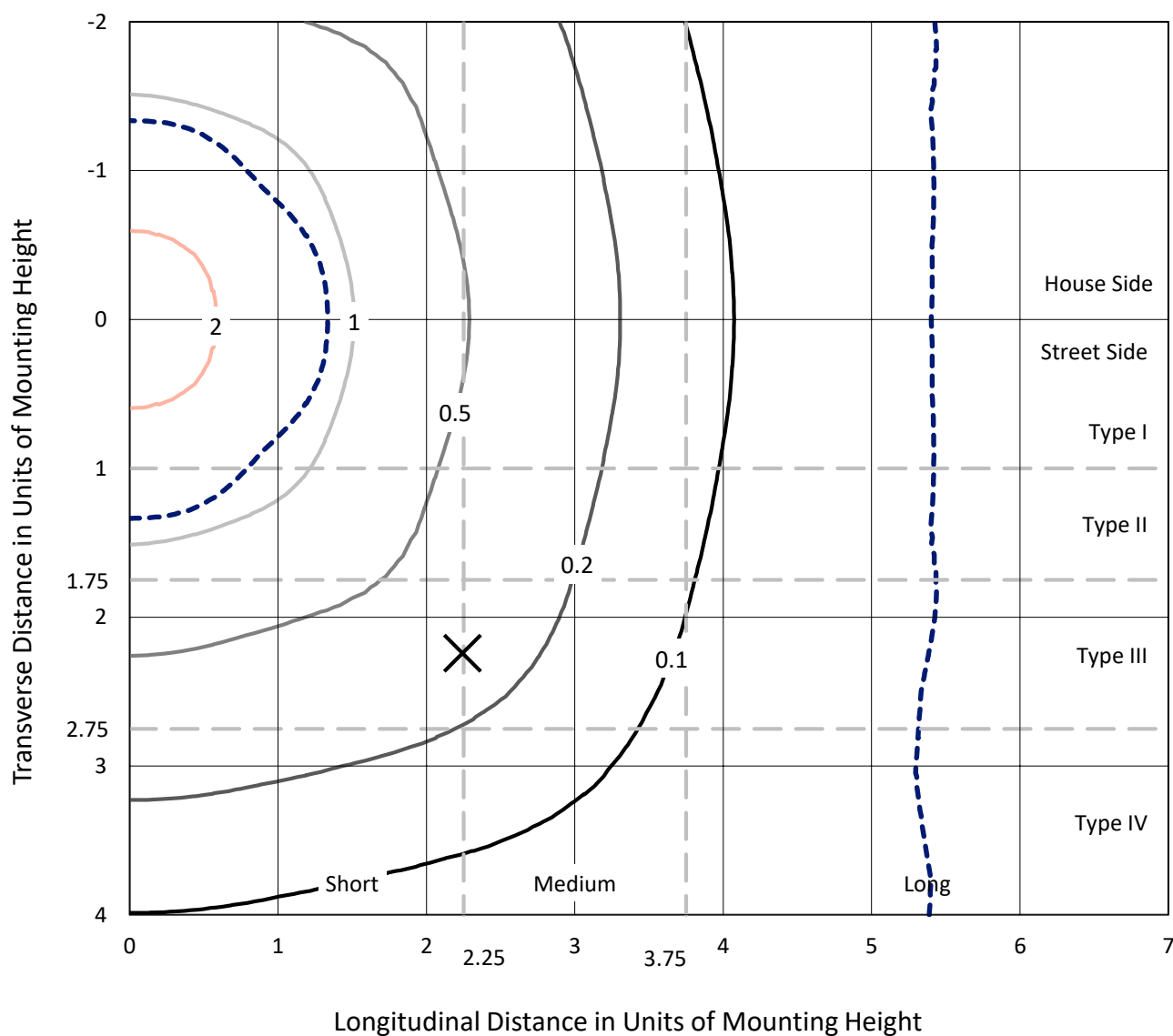
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

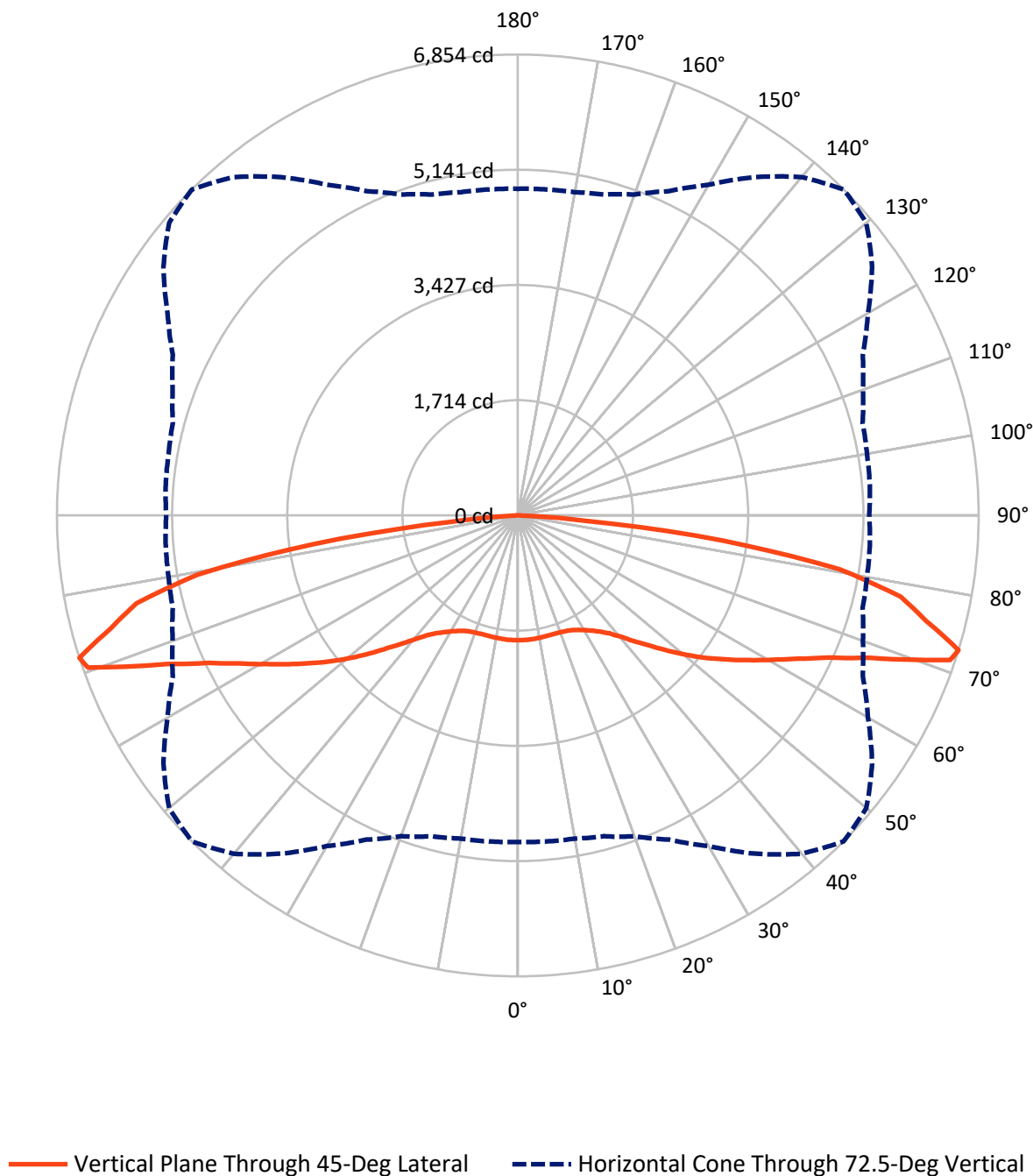


Based on 25 foot mounting height. Maximum calculated value = 3 fc  
Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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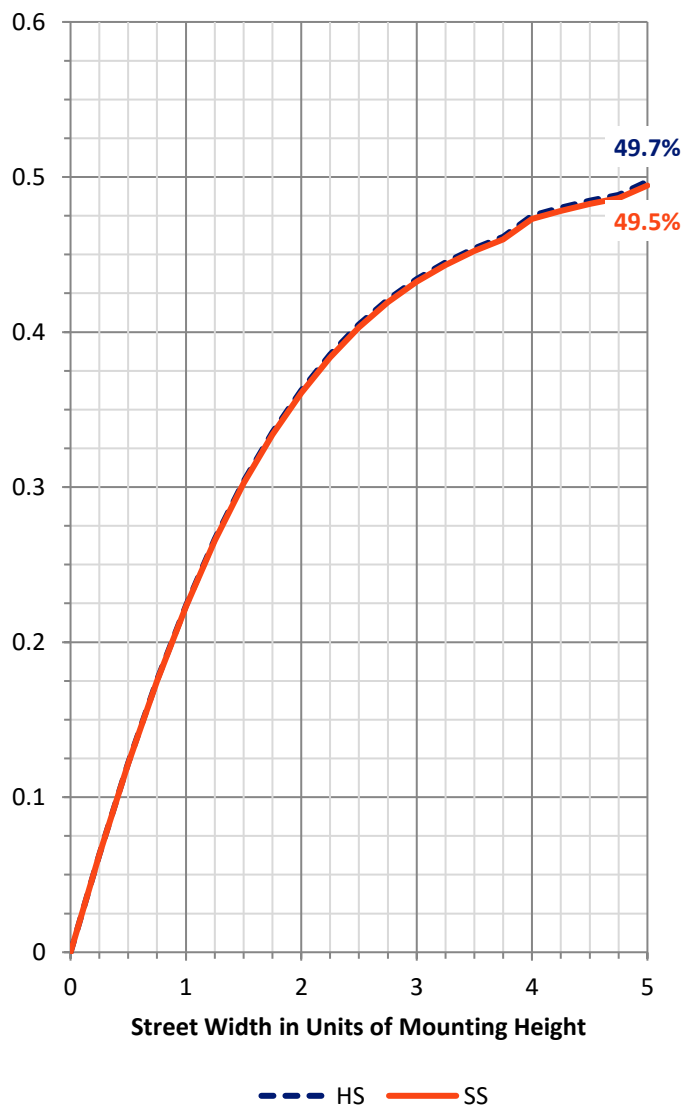
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9790.2   | 0.0    | 9790.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9790.2   | 0.0    | 9790.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19580.4  | 0.0    | 19580.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 176.8   | 0.9       |
| 10°-20°   | 523.0   | 2.7       |
| 20°-30°   | 875.8   | 4.5       |
| 30°-40°   | 1335.2  | 6.8       |
| 40°-50°   | 2132.0  | 10.9      |
| 50°-60°   | 3278.1  | 16.7      |
| 60°-70°   | 4772.9  | 24.4      |
| 70°-80°   | 5376.7  | 27.5      |
| 80°-90°   | 1109.9  | 5.7       |
| 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°    | 19580.4 | 100.0     |
| 0°-180°   | 19580.4 | 100.0     |

**Coefficient of Utilization**



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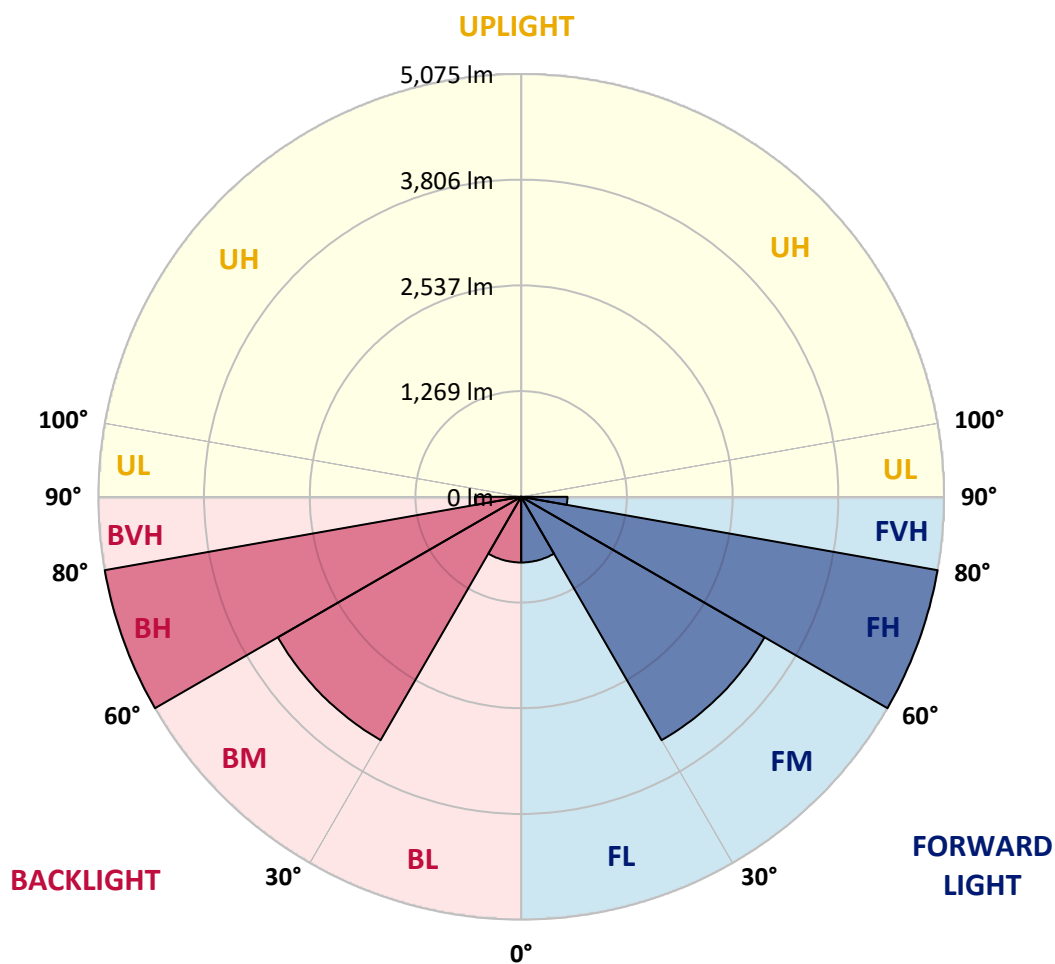
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 787.8  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 3372.6 | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 5074.8 | 25.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 555.0  | 2.8       |                         |      | G4/750  |
| BL   | (0°-30°)    | 787.8  | 4.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3372.6 | 17.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 5074.8 | 25.9      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 555.0  | 2.8       |                         |      | G4/750  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 |
| 2.5°  | 1858.3 | 1859.3 | 1858.8 | 1857.8 | 1858.3 | 1857.8 | 1856.8 | 1856.2 | 1852.6 | 1854.7 | 1857.8 |
| 5°    | 1858.2 | 1857.2 | 1856.7 | 1856.2 | 1856.2 | 1857.8 | 1856.2 | 1854.7 | 1854.2 | 1855.2 | 1853.7 |
| 7.5°  | 1857.2 | 1855.2 | 1854.2 | 1853.7 | 1854.2 | 1854.7 | 1853.1 | 1851.1 | 1852.6 | 1851.1 | 1849.0 |
| 10°   | 1854.2 | 1852.6 | 1853.2 | 1851.1 | 1851.6 | 1851.1 | 1849.0 | 1847.5 | 1848.5 | 1847.0 | 1844.4 |
| 12.5° | 1855.2 | 1852.6 | 1852.2 | 1851.1 | 1850.6 | 1850.1 | 1847.5 | 1845.0 | 1845.4 | 1844.4 | 1841.9 |
| 15°   | 1855.2 | 1853.6 | 1853.2 | 1851.1 | 1850.6 | 1849.6 | 1846.5 | 1845.4 | 1845.4 | 1843.9 | 1840.8 |
| 17.5° | 1856.2 | 1855.2 | 1855.2 | 1852.6 | 1851.6 | 1851.1 | 1847.5 | 1846.0 | 1847.5 | 1844.4 | 1842.4 |
| 20°   | 1859.3 | 1858.3 | 1858.8 | 1857.2 | 1855.2 | 1855.2 | 1852.6 | 1851.6 | 1852.1 | 1851.6 | 1846.0 |
| 22.5° | 1865.4 | 1865.4 | 1866.5 | 1866.0 | 1865.4 | 1866.0 | 1863.9 | 1863.9 | 1864.4 | 1864.4 | 1859.8 |
| 25°   | 1883.0 | 1882.4 | 1883.4 | 1883.4 | 1884.0 | 1887.5 | 1886.0 | 1885.5 | 1888.0 | 1888.0 | 1883.4 |
| 27.5° | 1915.7 | 1914.7 | 1915.8 | 1916.8 | 1919.4 | 1924.0 | 1922.9 | 1924.4 | 1928.6 | 1927.5 | 1923.4 |
| 30°   | 1953.7 | 1952.7 | 1955.2 | 1958.4 | 1960.4 | 1967.6 | 1964.5 | 1972.2 | 1975.8 | 1978.8 | 1975.8 |
| 32.5° | 2009.2 | 2009.1 | 2013.7 | 2015.8 | 2020.4 | 2027.6 | 2028.6 | 2034.8 | 2039.4 | 2044.5 | 2040.9 |
| 35°   | 2083.0 | 2082.0 | 2085.6 | 2089.2 | 2094.8 | 2101.5 | 2104.0 | 2112.2 | 2119.4 | 2123.0 | 2116.3 |
| 37.5° | 2195.9 | 2190.2 | 2196.9 | 2199.0 | 2203.6 | 2205.1 | 2212.3 | 2222.5 | 2230.2 | 2229.2 | 2224.6 |
| 40°   | 2348.8 | 2347.7 | 2345.2 | 2342.0 | 2349.3 | 2351.8 | 2351.8 | 2365.7 | 2378.0 | 2375.9 | 2375.4 |
| 42.5° | 2527.3 | 2522.7 | 2519.6 | 2519.6 | 2523.7 | 2524.8 | 2540.6 | 2550.9 | 2559.6 | 2561.7 | 2559.6 |
| 45°   | 2719.2 | 2714.6 | 2715.6 | 2713.5 | 2715.0 | 2721.8 | 2731.0 | 2750.0 | 2766.4 | 2766.9 | 2758.2 |
| 47.5° | 2925.4 | 2911.0 | 2922.3 | 2906.4 | 2916.2 | 2921.3 | 2944.4 | 2972.1 | 3000.8 | 3006.0 | 2998.3 |
| 50°   | 3134.8 | 3133.2 | 3132.2 | 3129.1 | 3133.7 | 3145.0 | 3173.2 | 3216.9 | 3244.6 | 3263.0 | 3250.7 |
| 52.5° | 3363.6 | 3355.9 | 3352.3 | 3347.2 | 3351.8 | 3373.8 | 3413.3 | 3451.3 | 3501.1 | 3522.1 | 3505.2 |
| 55°   | 3586.2 | 3583.7 | 3570.3 | 3569.8 | 3579.6 | 3614.0 | 3657.0 | 3703.8 | 3757.6 | 3781.2 | 3775.0 |
| 57.5° | 3815.0 | 3800.2 | 3796.0 | 3789.9 | 3809.4 | 3841.7 | 3894.6 | 3978.7 | 4034.6 | 4061.3 | 4046.0 |
| 60°   | 4038.8 | 4027.4 | 4018.7 | 4016.7 | 4030.0 | 4075.2 | 4151.1 | 4252.2 | 4321.4 | 4356.3 | 4331.7 |
| 62.5° | 4278.9 | 4271.7 | 4261.4 | 4249.6 | 4277.8 | 4335.8 | 4430.2 | 4542.0 | 4644.2 | 4687.2 | 4649.8 |
| 65°   | 4577.5 | 4562.6 | 4551.3 | 4536.4 | 4559.5 | 4632.3 | 4750.9 | 4908.4 | 5045.4 | 5095.7 | 5069.0 |
| 67.5° | 4892.5 | 4878.6 | 4879.6 | 4870.4 | 4911.4 | 5012.5 | 5165.4 | 5379.4 | 5563.0 | 5648.7 | 5598.4 |
| 70°   | 5167.4 | 5175.2 | 5177.2 | 5214.6 | 5285.5 | 5439.4 | 5693.8 | 6028.9 | 6307.5 | 6438.3 | 6384.4 |
| 71°   | 5086.4 | 5103.3 | 5129.5 | 5168.5 | 5290.6 | 5472.8 | 5820.0 | 6225.9 | 6558.4 | 6780.0 | 6705.6 |
| 72.5° | 4856.6 | 4866.8 | 4880.2 | 4939.7 | 5077.7 | 5318.8 | 5676.4 | 6140.2 | 6567.6 | 6854.4 | 6768.2 |
| 75°   | 4524.1 | 4533.8 | 4538.5 | 4580.0 | 4705.7 | 4916.0 | 5243.4 | 5654.9 | 6032.0 | 6276.2 | 6252.0 |
| 77.5° | 4022.4 | 4023.8 | 4059.8 | 4123.9 | 4265.0 | 4505.6 | 4850.4 | 5277.2 | 5631.8 | 5821.6 | 5701.0 |
| 80°   | 2888.5 | 2869.0 | 2905.9 | 2988.5 | 3163.0 | 3439.0 | 3792.0 | 4279.4 | 4672.9 | 4850.4 | 4663.6 |
| 82.5° | 1099.0 | 1158.5 | 1252.4 | 1388.9 | 1447.8 | 1754.6 | 2084.0 | 2370.3 | 2701.7 | 3072.2 | 2979.3 |
| 85°   | 118.0  | 132.9  | 166.7  | 206.8  | 261.2  | 361.2  | 499.2  | 681.3  | 839.8  | 987.1  | 876.3  |
| 87.5° | 44.2   | 45.2   | 50.3   | 58.0   | 59.0   | 61.6   | 65.7   | 76.4   | 71.3   | 61.6   | 49.8   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 | 1855.2 |
| 2.5°  | 1855.2 | 1855.7 | 1855.2 | 1855.7 | 1855.7 | 1853.7 | 1854.2 | 1853.2 |
| 5°    | 1854.7 | 1853.2 | 1853.7 | 1854.2 | 1853.7 | 1854.7 | 1853.2 | 1854.2 |
| 7.5°  | 1852.1 | 1849.0 | 1850.1 | 1850.1 | 1849.0 | 1850.6 | 1849.6 | 1849.0 |
| 10°   | 1847.0 | 1842.9 | 1845.0 | 1843.9 | 1843.4 | 1843.9 | 1843.9 | 1843.9 |
| 12.5° | 1842.4 | 1839.8 | 1840.3 | 1839.8 | 1839.3 | 1840.8 | 1840.3 | 1840.8 |
| 15°   | 1841.4 | 1837.2 | 1836.7 | 1835.7 | 1836.2 | 1837.2 | 1837.2 | 1838.8 |
| 17.5° | 1840.3 | 1835.2 | 1834.7 | 1833.6 | 1834.2 | 1836.2 | 1836.7 | 1835.7 |
| 20°   | 1843.4 | 1839.3 | 1838.3 | 1837.2 | 1836.7 | 1839.3 | 1838.8 | 1838.8 |
| 22.5° | 1857.8 | 1852.6 | 1852.1 | 1848.0 | 1846.5 | 1848.0 | 1847.0 | 1847.0 |
| 25°   | 1880.9 | 1874.7 | 1872.6 | 1867.0 | 1862.9 | 1862.9 | 1861.4 | 1860.3 |
| 27.5° | 1922.4 | 1913.2 | 1911.1 | 1906.5 | 1900.8 | 1901.9 | 1898.8 | 1898.3 |
| 30°   | 1970.6 | 1962.4 | 1955.2 | 1948.6 | 1941.9 | 1939.4 | 1935.8 | 1935.2 |
| 32.5° | 2033.7 | 2024.5 | 2015.8 | 2007.6 | 1998.3 | 1994.8 | 1988.6 | 1985.5 |
| 35°   | 2111.2 | 2098.9 | 2088.6 | 2083.0 | 2073.8 | 2069.2 | 2065.1 | 2069.6 |
| 37.5° | 2219.5 | 2204.6 | 2199.4 | 2192.8 | 2186.6 | 2179.4 | 2181.0 | 2179.4 |
| 40°   | 2369.2 | 2355.9 | 2350.8 | 2339.0 | 2337.4 | 2329.2 | 2334.4 | 2329.3 |
| 42.5° | 2554.5 | 2529.9 | 2526.3 | 2517.0 | 2513.9 | 2509.4 | 2511.4 | 2507.8 |
| 45°   | 2756.1 | 2734.1 | 2730.0 | 2715.0 | 2715.6 | 2704.8 | 2708.9 | 2709.0 |
| 47.5° | 2982.9 | 2959.8 | 2940.8 | 2930.0 | 2926.0 | 2919.3 | 2922.9 | 2922.4 |
| 50°   | 3216.8 | 3185.5 | 3164.5 | 3143.5 | 3134.2 | 3136.8 | 3129.6 | 3141.9 |
| 52.5° | 3468.2 | 3421.6 | 3391.8 | 3371.8 | 3354.4 | 3357.9 | 3359.0 | 3362.5 |
| 55°   | 3728.3 | 3668.8 | 3625.7 | 3599.6 | 3583.6 | 3584.7 | 3589.4 | 3593.4 |
| 57.5° | 3990.0 | 3915.6 | 3857.2 | 3818.1 | 3807.9 | 3812.5 | 3812.5 | 3812.0 |
| 60°   | 4261.4 | 4172.2 | 4096.7 | 4052.6 | 4043.4 | 4040.8 | 4060.8 | 4054.2 |
| 62.5° | 4552.8 | 4445.6 | 4367.6 | 4311.2 | 4297.8 | 4307.1 | 4325.0 | 4320.9 |
| 65°   | 4939.1 | 4790.9 | 4690.4 | 4634.4 | 4611.8 | 4621.0 | 4645.2 | 4644.2 |
| 67.5° | 5437.4 | 5230.1 | 5097.2 | 5025.4 | 5008.9 | 5020.2 | 5033.6 | 5046.4 |
| 70°   | 6182.3 | 5886.2 | 5696.4 | 5541.0 | 5474.3 | 5461.4 | 5474.8 | 5475.3 |
| 71°   | 6444.5 | 6104.3 | 5802.1 | 5612.3 | 5503.0 | 5456.8 | 5460.4 | 5437.4 |
| 72.5° | 6433.7 | 6014.5 | 5661.0 | 5462.5 | 5310.6 | 5273.7 | 5255.7 | 5228.0 |
| 75°   | 6000.2 | 5622.6 | 5315.8 | 5099.2 | 4953.0 | 4909.4 | 4877.6 | 4876.0 |
| 77.5° | 5441.4 | 5162.8 | 4824.7 | 4595.4 | 4417.4 | 4345.0 | 4312.7 | 4311.7 |
| 80°   | 4374.3 | 3957.2 | 3709.9 | 3571.8 | 3356.9 | 3294.8 | 3229.1 | 3204.5 |
| 82.5° | 2645.3 | 2067.1 | 1680.8 | 1493.5 | 1389.9 | 1144.6 | 1027.2 | 971.8  |
| 85°   | 616.2  | 437.6  | 301.7  | 198.0  | 142.6  | 113.4  | 87.2   | 77.0   |
| 87.5° | 41.6   | 32.8   | 29.2   | 23.6   | 18.0   | 17.4   | 10.8   | 9.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)