

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: McGRAW-EDISON

Report Number: P944157

Luminaire Tested: **GALN-SB9A-722-U-T3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-722-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 33775 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
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: 24 FT



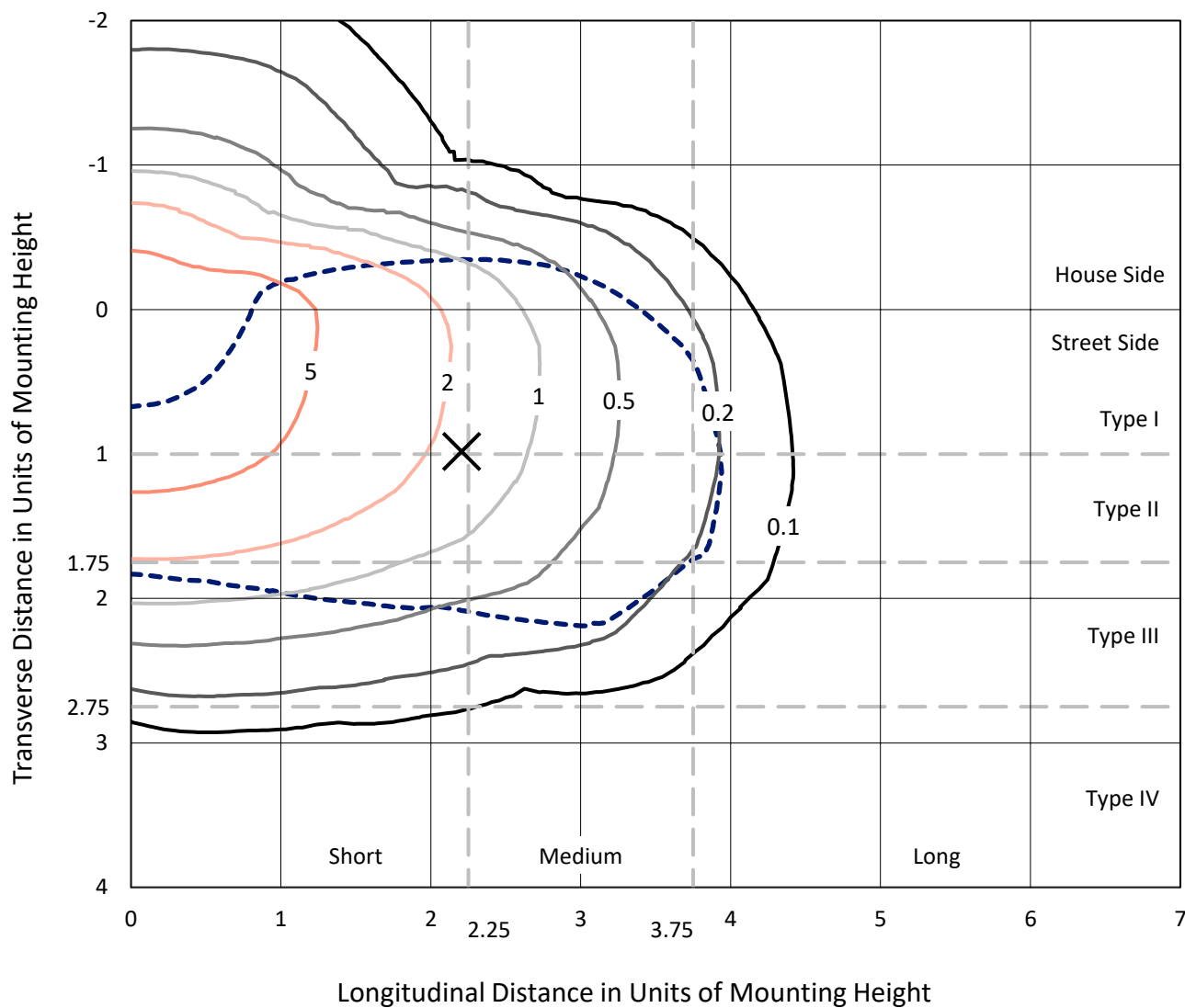
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

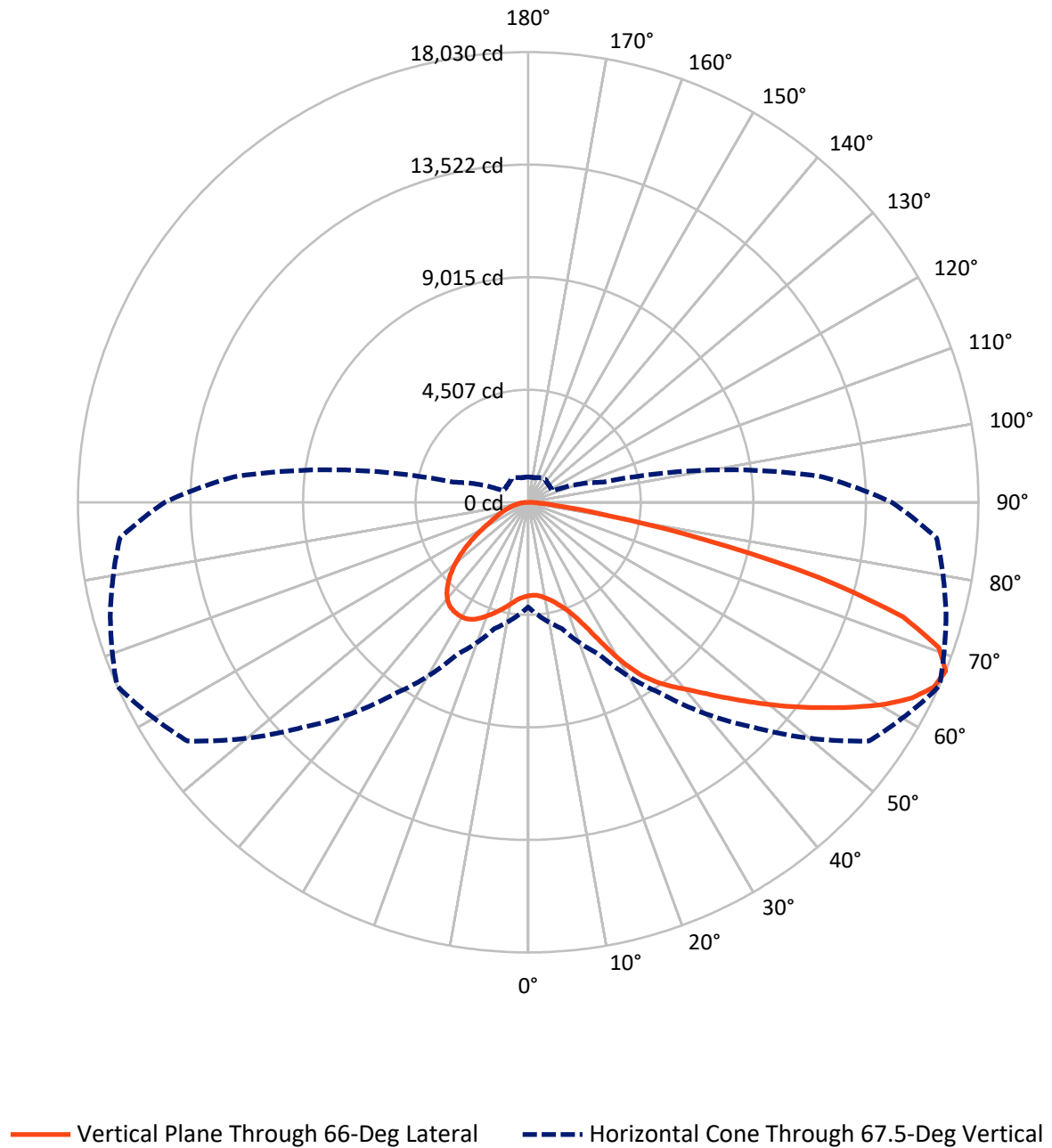


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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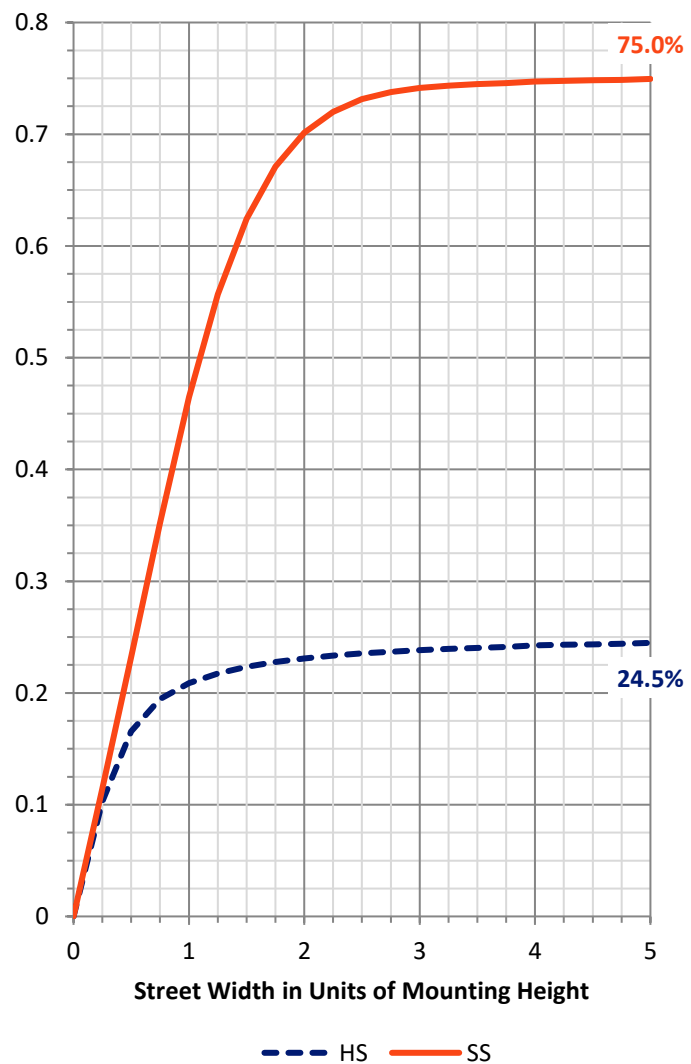
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8398.1   | 0.0    | 8398.1  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 25376.9  | 0.0    | 25376.9 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 33775.0  | 0.0    | 33775.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 371.4   | 1.1       |
| 10°-20°   | 1227.1  | 3.6       |
| 20°-30°   | 2365.2  | 7.0       |
| 30°-40°   | 4147.0  | 12.3      |
| 40°-50°   | 6165.2  | 18.3      |
| 50°-60°   | 7815.0  | 23.1      |
| 60°-70°   | 7646.8  | 22.6      |
| 70°-80°   | 3647.6  | 10.8      |
| 80°-90°   | 389.8   | 1.2       |
| 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°    | 33775.0 | 100.0     |
| 0°-180°   | 33775.0 | 100.0     |

**Coefficient of Utilization**



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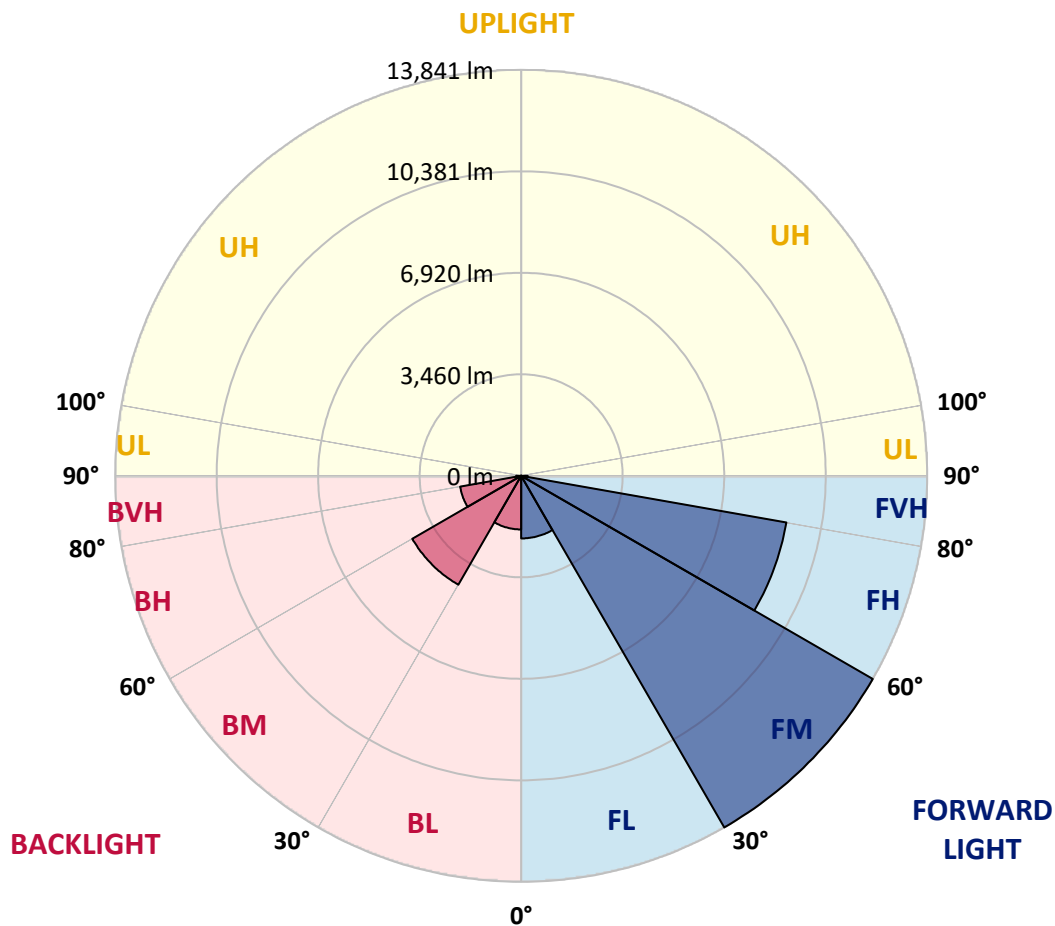
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2134.2  | 6.3       |                         |      |          |
| FM   | (30°-60°)   | 13840.7 | 41.0      |                         |      |          |
| FH   | (60°-80°)   | 9181.0  | 27.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 221.0   | 0.7       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1829.4  | 5.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4286.5  | 12.7      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2113.4  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 168.8   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3746.1  | 3746.1  | 3746.1  | 3746.1  | 3746.1  | 3746.1  | 3746.1  | 3746.1  | 3746.1  | 3746.1  | 3746.1  |
| 2.5°  | 3707.1  | 3728.3  | 3723.0  | 3714.2  | 3712.4  | 3715.9  | 3721.3  | 3726.6  | 3724.8  | 3733.7  | 3747.9  |
| 5°    | 3696.4  | 3717.7  | 3715.9  | 3715.9  | 3723.0  | 3737.2  | 3746.1  | 3755.0  | 3746.1  | 3756.7  | 3776.3  |
| 7.5°  | 3703.5  | 3719.5  | 3726.6  | 3733.7  | 3751.4  | 3778.0  | 3799.3  | 3818.9  | 3808.2  | 3820.6  | 3845.5  |
| 10°   | 3794.0  | 3806.4  | 3813.5  | 3813.5  | 3825.9  | 3856.1  | 3877.4  | 3912.9  | 3904.0  | 3923.5  | 3955.5  |
| 12.5° | 3959.0  | 3971.5  | 3971.5  | 3964.4  | 3973.2  | 3992.8  | 3999.9  | 4038.9  | 4022.9  | 4054.9  | 4086.8  |
| 15°   | 4161.3  | 4186.2  | 4166.7  | 4154.2  | 4157.8  | 4177.3  | 4175.5  | 4205.7  | 4189.7  | 4216.4  | 4244.7  |
| 17.5° | 4384.9  | 4416.9  | 4384.9  | 4383.2  | 4376.1  | 4397.4  | 4399.1  | 4425.7  | 4397.4  | 4416.9  | 4436.4  |
| 20°   | 4649.3  | 4693.7  | 4667.1  | 4676.0  | 4660.0  | 4668.9  | 4677.7  | 4716.8  | 4672.4  | 4686.6  | 4681.3  |
| 22.5° | 5022.0  | 5075.2  | 5046.8  | 5080.6  | 5069.9  | 5062.8  | 5061.0  | 5130.2  | 5061.0  | 5066.4  | 5014.9  |
| 25°   | 5565.0  | 5628.9  | 5579.2  | 5625.4  | 5625.4  | 5648.4  | 5675.0  | 5763.8  | 5648.4  | 5614.7  | 5481.6  |
| 27.5° | 6367.1  | 6431.0  | 6333.4  | 6361.8  | 6352.9  | 6409.7  | 6381.3  | 6601.4  | 6477.1  | 6422.1  | 6154.2  |
| 30°   | 7332.5  | 7446.0  | 7261.5  | 7254.4  | 7245.5  | 7336.0  | 7376.8  | 7522.4  | 7396.4  | 7341.4  | 7018.4  |
| 32.5° | 8375.9  | 8494.8  | 8274.8  | 8210.9  | 8177.2  | 8232.2  | 8198.5  | 8315.6  | 8228.6  | 8143.5  | 7744.2  |
| 35°   | 9479.7  | 9596.8  | 9387.4  | 9263.2  | 9128.3  | 9013.0  | 8892.3  | 8922.5  | 8840.9  | 8711.3  | 8297.8  |
| 37.5° | 10523.1 | 10737.9 | 10516.0 | 10382.9 | 10134.5 | 9909.1  | 9572.0  | 9431.8  | 9355.5  | 9236.6  | 8819.6  |
| 40°   | 11586.1 | 11708.5 | 11540.0 | 11426.4 | 11156.7 | 10803.5 | 10264.0 | 9967.7  | 9864.8  | 9749.4  | 9396.3  |
| 42.5° | 12368.7 | 12485.8 | 12395.3 | 12317.2 | 12106.0 | 11696.1 | 10998.7 | 10627.8 | 10478.8 | 10349.2 | 10049.3 |
| 45°   | 12989.8 | 13076.7 | 13019.9 | 13048.3 | 12957.8 | 12560.3 | 11760.0 | 11335.9 | 11181.5 | 11023.6 | 10787.5 |
| 47.5° | 13240.0 | 13332.3 | 13422.8 | 13591.3 | 13745.7 | 13452.9 | 12578.1 | 12102.5 | 11939.2 | 11777.7 | 11545.3 |
| 50°   | 13211.6 | 13305.6 | 13568.3 | 13926.7 | 14405.9 | 14308.3 | 13440.5 | 12918.8 | 12768.0 | 12583.4 | 12368.7 |
| 52.5° | 12984.4 | 13090.9 | 13428.1 | 14024.3 | 14787.4 | 14948.9 | 14318.9 | 13761.7 | 13619.7 | 13399.7 | 13185.0 |
| 55°   | 12388.2 | 12452.1 | 12957.8 | 13802.5 | 14877.9 | 15396.1 | 15179.6 | 14659.6 | 14517.7 | 14210.7 | 13976.4 |
| 57.5° | 11282.6 | 11374.9 | 12111.4 | 13204.5 | 14650.8 | 15699.5 | 15935.5 | 15603.7 | 15467.1 | 15025.2 | 14780.3 |
| 60°   | 9839.9  | 9987.2  | 10830.1 | 12200.1 | 14072.3 | 15697.7 | 16622.3 | 16531.8 | 16418.2 | 15827.3 | 15571.8 |
| 62.5° | 8207.3  | 8377.7  | 9188.7  | 10780.4 | 13060.8 | 15252.3 | 17051.7 | 17309.0 | 17250.5 | 16567.3 | 16240.8 |
| 65°   | 6303.2  | 6420.4  | 7227.8  | 8943.8  | 11486.7 | 14295.8 | 17101.4 | 17839.6 | 17850.3 | 17129.8 | 16590.4 |
| 67.5° | 4196.8  | 4534.0  | 5234.9  | 6711.4  | 9378.5  | 12732.5 | 16664.9 | 17926.6 | 18029.5 | 17323.2 | 16414.7 |
| 70°   | 2047.8  | 2491.5  | 3178.2  | 4361.9  | 6711.4  | 10335.0 | 15523.8 | 17213.2 | 17442.1 | 16758.9 | 15367.7 |
| 72.5° | 850.0   | 993.8   | 1368.2  | 2152.5  | 3852.6  | 6974.0  | 13231.1 | 15279.0 | 15703.1 | 14849.5 | 12920.6 |
| 75°   | 573.2   | 621.1   | 782.6   | 1103.8  | 1755.0  | 3439.1  | 9541.8  | 11392.7 | 12075.9 | 11215.2 | 9167.4  |
| 77.5° | 441.9   | 472.0   | 569.6   | 771.9   | 1043.4  | 1300.8  | 5107.2  | 6865.8  | 7218.9  | 6683.0  | 4770.0  |
| 80°   | 347.8   | 370.9   | 425.9   | 562.5   | 740.0   | 695.6   | 1740.8  | 3110.8  | 3314.9  | 2780.7  | 1533.2  |
| 82.5° | 301.7   | 310.5   | 305.2   | 381.5   | 491.6   | 406.4   | 571.4   | 1148.1  | 1267.0  | 919.2   | 500.4   |
| 85°   | 218.3   | 243.1   | 253.8   | 236.0   | 260.9   | 205.8   | 234.2   | 406.4   | 447.2   | 399.3   | 282.2   |
| 87.5° | 88.7    | 131.3   | 161.5   | 152.6   | 95.8    | 58.6    | 72.8    | 118.9   | 136.6   | 149.1   | 92.3    |
| 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°    | 3746.1  | 3746.1  | 3746.1 | 3746.1 | 3746.1 | 3746.1 | 3746.1 | 3746.1 | 3746.1 | 3746.1 | 3746.1 |
| 2.5°  | 3749.6  | 3762.1  | 3770.9 | 3781.6 | 3788.7 | 3799.3 | 3820.6 | 3833.0 | 3834.8 | 3843.7 | 3841.9 |
| 5°    | 3783.4  | 3801.1  | 3820.6 | 3849.0 | 3881.0 | 3907.6 | 3948.4 | 3976.8 | 3987.4 | 3996.3 | 3994.5 |
| 7.5°  | 3856.1  | 3881.0  | 3916.5 | 3966.1 | 4012.3 | 4047.8 | 4097.5 | 4131.2 | 4164.9 | 4177.3 | 4179.1 |
| 10°   | 3964.4  | 3999.9  | 4051.3 | 4118.8 | 4168.4 | 4214.6 | 4266.0 | 4294.4 | 4328.1 | 4342.3 | 4349.4 |
| 12.5° | 4099.2  | 4136.5  | 4203.9 | 4298.0 | 4344.1 | 4376.1 | 4393.8 | 4386.7 | 4393.8 | 4406.2 | 4409.8 |
| 15°   | 4253.6  | 4294.4  | 4370.7 | 4471.9 | 4503.8 | 4475.4 | 4436.4 | 4400.9 | 4395.6 | 4399.1 | 4411.6 |
| 17.5° | 4436.4  | 4466.6  | 4555.3 | 4640.5 | 4617.4 | 4500.3 | 4415.1 | 4358.3 | 4329.9 | 4321.1 | 4333.5 |
| 20°   | 4691.9  | 4691.9  | 4764.7 | 4817.9 | 4663.5 | 4464.8 | 4331.7 | 4239.4 | 4180.9 | 4156.0 | 4150.7 |
| 22.5° | 5002.5  | 4974.1  | 5020.2 | 4983.0 | 4654.7 | 4365.4 | 4180.9 | 4021.2 | 3932.4 | 3896.9 | 3891.6 |
| 25°   | 5396.4  | 5362.7  | 5350.3 | 5119.6 | 4590.8 | 4207.5 | 3907.6 | 3714.2 | 3636.1 | 3616.6 | 3620.1 |
| 27.5° | 5990.9  | 5905.7  | 5744.2 | 5194.1 | 4473.7 | 3959.0 | 3588.2 | 3408.9 | 3364.6 | 3366.3 | 3371.7 |
| 30°   | 6782.4  | 6612.0  | 6216.3 | 5206.6 | 4282.0 | 3607.7 | 3261.6 | 3133.9 | 3112.6 | 3121.4 | 3151.6 |
| 32.5° | 7515.3  | 7353.8  | 6699.0 | 5149.8 | 3987.4 | 3263.4 | 2968.8 | 2883.7 | 2851.7 | 2862.4 | 2876.6 |
| 35°   | 8090.2  | 8045.9  | 7146.1 | 5069.9 | 3625.4 | 2940.4 | 2706.2 | 2633.4 | 2571.3 | 2557.1 | 2567.8 |
| 37.5° | 8633.2  | 8615.5  | 7481.5 | 4958.1 | 3267.0 | 2711.5 | 2495.0 | 2399.2 | 2308.7 | 2259.0 | 2260.8 |
| 40°   | 9229.5  | 9211.7  | 7701.6 | 4786.0 | 2949.3 | 2512.8 | 2305.2 | 2179.2 | 2067.4 | 1976.9 | 1985.7 |
| 42.5° | 9900.3  | 9795.6  | 7806.3 | 4539.3 | 2679.6 | 2344.2 | 2150.8 | 1980.4 | 1833.1 | 1749.7 | 1755.0 |
| 45°   | 10633.2 | 10397.1 | 7804.5 | 4225.2 | 2452.4 | 2189.8 | 1985.7 | 1744.4 | 1607.8 | 1529.7 | 1526.1 |
| 47.5° | 11410.4 | 10972.1 | 7708.7 | 3877.4 | 2232.4 | 2019.4 | 1730.2 | 1545.6 | 1455.1 | 1407.2 | 1396.6 |
| 50°   | 12212.5 | 11509.8 | 7545.4 | 3478.1 | 2007.0 | 1826.0 | 1570.5 | 1444.5 | 1375.3 | 1330.9 | 1314.9 |
| 52.5° | 12966.7 | 11997.8 | 7348.4 | 3025.6 | 1778.1 | 1637.9 | 1499.5 | 1401.9 | 1329.1 | 1279.5 | 1258.2 |
| 55°   | 13667.7 | 12418.4 | 7069.8 | 2562.5 | 1591.8 | 1511.9 | 1465.8 | 1384.2 | 1300.8 | 1242.2 | 1219.1 |
| 57.5° | 14290.5 | 12691.6 | 6588.9 | 2127.7 | 1458.7 | 1425.0 | 1430.3 | 1354.0 | 1258.2 | 1208.5 | 1176.5 |
| 60°   | 14808.7 | 12892.2 | 5877.3 | 1724.9 | 1350.4 | 1339.8 | 1375.3 | 1297.2 | 1185.4 | 1128.6 | 1103.8 |
| 62.5° | 15119.2 | 12888.6 | 5004.3 | 1412.5 | 1258.2 | 1261.7 | 1302.5 | 1226.2 | 1112.6 | 1059.4 | 1043.4 |
| 65°   | 15092.6 | 12572.7 | 4046.0 | 1208.5 | 1169.4 | 1173.0 | 1226.2 | 1148.1 | 1052.3 | 1020.4 | 1018.6 |
| 67.5° | 14558.5 | 11802.6 | 3103.7 | 1075.4 | 1071.8 | 1087.8 | 1149.9 | 1094.9 | 1015.0 | 1011.5 | 1016.8 |
| 70°   | 13112.2 | 10203.7 | 2235.9 | 968.9  | 970.7  | 993.8  | 1075.4 | 1061.2 | 995.5  | 1002.6 | 1000.9 |
| 72.5° | 10514.3 | 7779.7  | 1501.3 | 857.1  | 858.9  | 896.2  | 1004.4 | 1034.6 | 976.0  | 1070.1 | 1084.3 |
| 75°   | 7002.4  | 4851.6  | 965.4  | 738.2  | 740.0  | 787.9  | 942.3  | 983.1  | 922.8  | 1066.5 | 1075.4 |
| 77.5° | 3364.6  | 2180.9  | 699.2  | 621.1  | 621.1  | 665.5  | 814.5  | 880.2  | 786.1  | 828.7  | 759.5  |
| 80°   | 1162.3  | 819.8   | 550.1  | 500.4  | 489.8  | 519.9  | 686.8  | 763.1  | 677.9  | 624.6  | 585.6  |
| 82.5° | 457.8   | 425.9   | 441.9  | 388.6  | 353.1  | 372.7  | 534.1  | 630.0  | 498.7  | 450.7  | 449.0  |
| 85°   | 262.6   | 276.8   | 312.3  | 257.3  | 204.1  | 228.9  | 392.2  | 452.5  | 376.2  | 331.8  | 338.9  |
| 87.5° | 71.0    | 97.6    | 143.7  | 133.1  | 92.3   | 97.6   | 186.3  | 250.2  | 216.5  | 166.8  | 172.1  |
| 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)