

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: P942962

Luminaire Tested: **GALN-SB7B-722-U-SL4**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P942962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-722-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 32793 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 256.7  
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



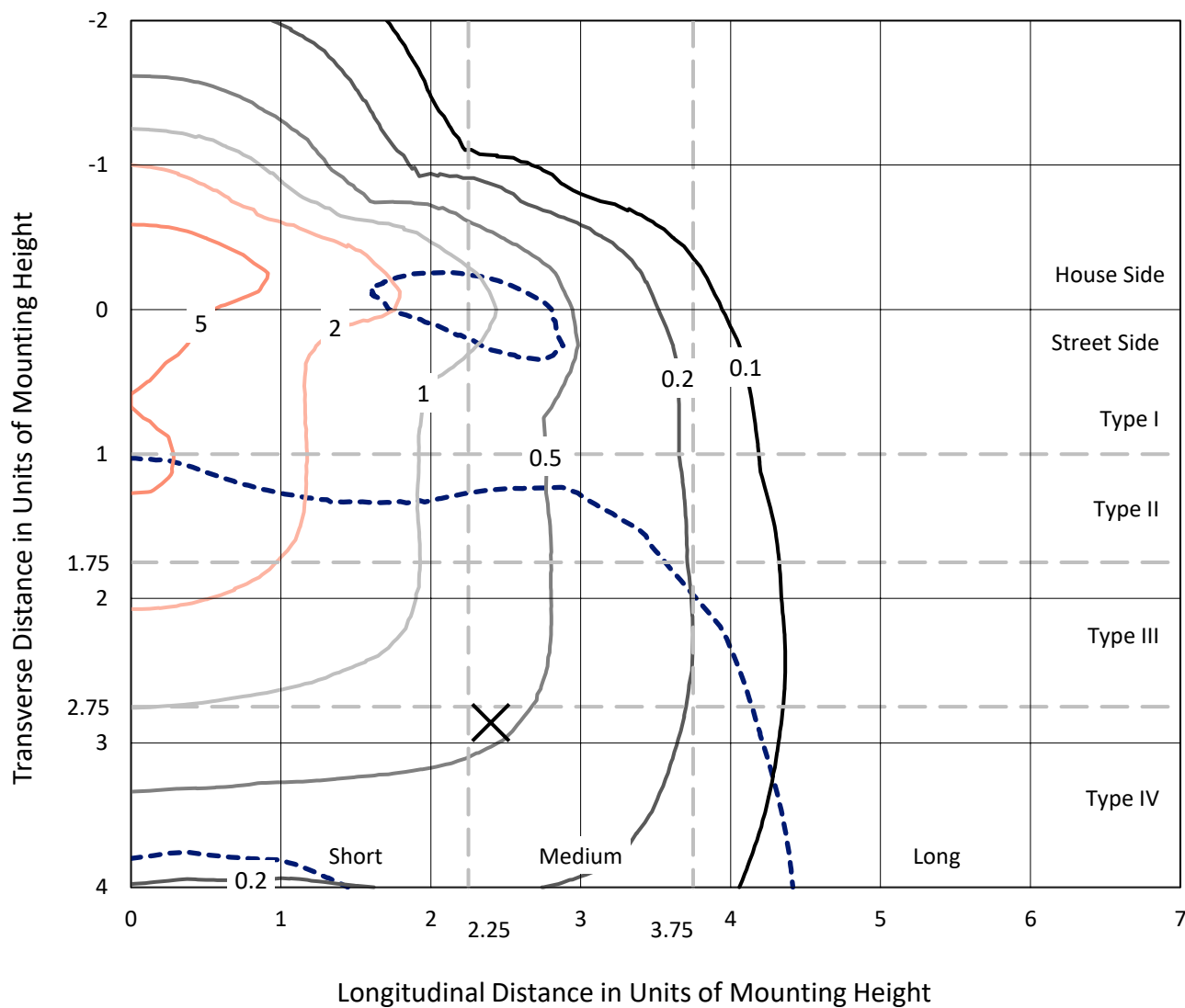
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



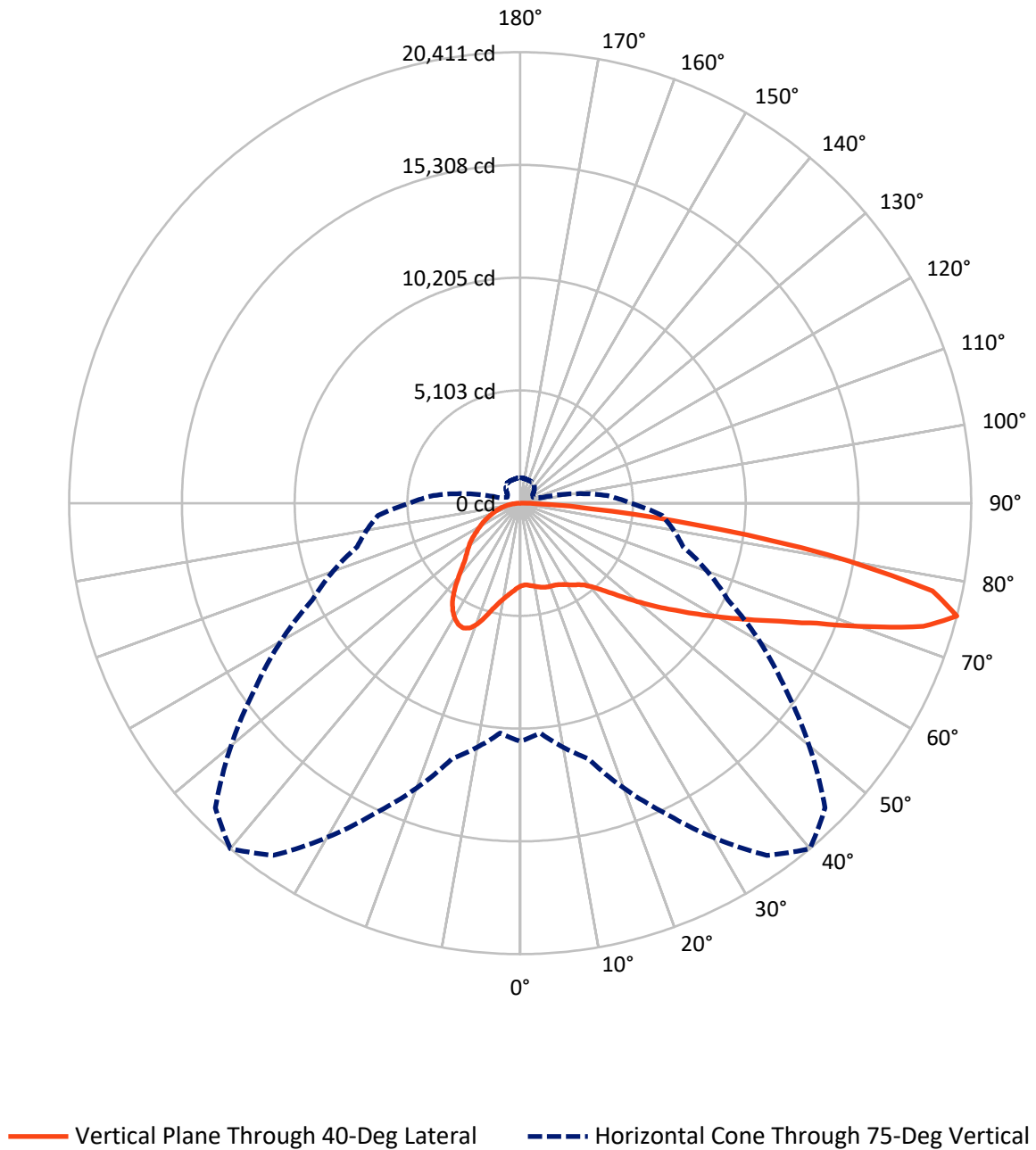
Based on 25 foot mounting height. Maximum calculated value = 7.7 fc

Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10160.4  | 0.0    | 10160.4 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 22632.6  | 0.0    | 22632.6 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 32793.0  | 0.0    | 32793.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 374.3   | 1.1       |
| 10°-20°   | 1256.7  | 3.8       |
| 20°-30°   | 2294.7  | 7.0       |
| 30°-40°   | 3254.5  | 9.9       |
| 40°-50°   | 4394.6  | 13.4      |
| 50°-60°   | 5911.9  | 18.0      |
| 60°-70°   | 7503.6  | 22.9      |
| 70°-80°   | 6810.0  | 20.8      |
| 80°-90°   | 992.7   | 3.0       |
| 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°    | 32793.0 | 100.0     |
| 0°-180°   | 32793.0 | 100.0     |

**Coefficient of Utilization**



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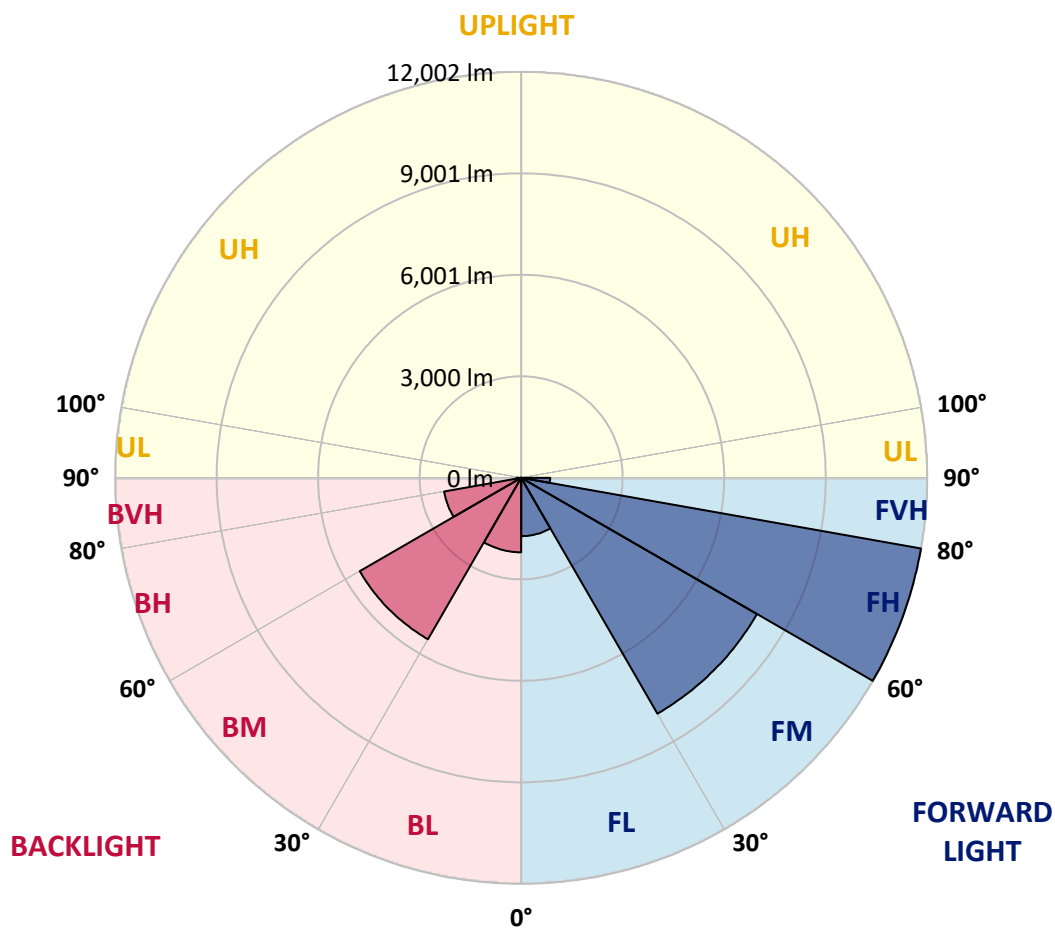
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1724.9  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 8049.9  | 24.5      |                         |      |         |
| FH   | (60°-80°)   | 12001.7 | 36.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 856.0   | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 2200.8  | 6.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5511.1  | 16.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2311.8  | 7.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 136.7   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°    | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 0°    | 3749.9  | 3749.9  | 3749.9  | 3749.9  | 3749.9  | 3749.9  | 3749.9  | 3749.9  | 3749.9  | 3749.9 | 3749.9  |
| 2.5°  | 3692.5  | 3713.4  | 3708.2  | 3701.2  | 3701.2  | 3703.0  | 3701.2  | 3713.4  | 3725.6  | 3737.7 | 3756.9  |
| 5°    | 3730.8  | 3751.7  | 3741.2  | 3732.5  | 3725.6  | 3723.8  | 3718.6  | 3716.9  | 3723.8  | 3739.5 | 3765.6  |
| 7.5°  | 3805.6  | 3826.5  | 3810.8  | 3795.1  | 3781.2  | 3774.3  | 3767.3  | 3756.9  | 3751.7  | 3760.4 | 3796.9  |
| 10°   | 3889.1  | 3909.9  | 3890.8  | 3863.0  | 3840.4  | 3831.7  | 3824.7  | 3814.3  | 3807.3  | 3812.5 | 3852.5  |
| 12.5° | 3972.6  | 3993.4  | 3967.3  | 3929.1  | 3899.5  | 3894.3  | 3885.6  | 3882.1  | 3880.4  | 3878.6 | 3918.6  |
| 15°   | 4050.8  | 4068.2  | 4035.2  | 3989.9  | 3958.6  | 3949.9  | 3941.2  | 3946.5  | 3955.2  | 3965.6 | 4010.8  |
| 17.5° | 4111.7  | 4129.1  | 4080.4  | 4021.3  | 3991.7  | 3988.2  | 3983.0  | 4000.4  | 4024.7  | 4050.8 | 4106.5  |
| 20°   | 4167.4  | 4184.7  | 4122.1  | 4042.1  | 4007.3  | 4007.3  | 4009.1  | 4045.6  | 4080.4  | 4118.7 | 4195.2  |
| 22.5° | 4245.6  | 4259.5  | 4183.0  | 4073.4  | 4023.0  | 4026.5  | 4040.4  | 4076.9  | 4120.4  | 4172.6 | 4278.7  |
| 25°   | 4362.2  | 4372.6  | 4278.7  | 4132.6  | 4075.2  | 4085.6  | 4097.8  | 4115.2  | 4156.9  | 4217.8 | 4360.4  |
| 27.5° | 4550.0  | 4558.7  | 4435.2  | 4236.9  | 4150.0  | 4167.4  | 4184.7  | 4172.6  | 4191.7  | 4243.9 | 4426.5  |
| 30°   | 4814.4  | 4819.6  | 4663.1  | 4400.4  | 4276.9  | 4285.6  | 4289.1  | 4238.7  | 4202.1  | 4243.9 | 4473.5  |
| 32.5° | 5127.4  | 5125.7  | 4939.6  | 4598.7  | 4421.3  | 4412.6  | 4383.0  | 4283.9  | 4198.7  | 4235.2 | 4515.2  |
| 35°   | 5612.7  | 5593.6  | 5353.6  | 4877.0  | 4584.8  | 4530.9  | 4461.3  | 4334.3  | 4216.1  | 4226.5 | 4551.7  |
| 37.5° | 6416.3  | 6357.1  | 6024.9  | 5332.7  | 4828.3  | 4690.9  | 4588.3  | 4416.1  | 4254.3  | 4223.0 | 4595.2  |
| 40°   | 7322.4  | 7247.6  | 6882.4  | 5957.1  | 5193.5  | 4972.6  | 4807.4  | 4532.6  | 4316.9  | 4238.7 | 4659.6  |
| 42.5° | 8397.3  | 8291.2  | 7898.1  | 6692.8  | 5656.2  | 5336.2  | 5087.4  | 4680.4  | 4409.1  | 4289.1 | 4746.5  |
| 45°   | 9717.4  | 9576.6  | 9020.0  | 7522.5  | 6238.9  | 5812.7  | 5480.5  | 4904.8  | 4550.0  | 4386.5 | 4877.0  |
| 47.5° | 11051.5 | 11086.3 | 10294.9 | 8472.1  | 6938.1  | 6400.6  | 5972.7  | 5242.2  | 4755.2  | 4543.0 | 5087.4  |
| 50°   | 12469.0 | 12493.4 | 11562.8 | 9524.4  | 7731.2  | 7065.0  | 6525.8  | 5619.7  | 5040.5  | 4765.7 | 5402.3  |
| 52.5° | 13575.2 | 13578.7 | 12714.3 | 10625.4 | 8557.3  | 7795.5  | 7122.4  | 6051.0  | 5370.9  | 5061.4 | 5821.4  |
| 55°   | 14267.4 | 14258.8 | 13521.3 | 11667.2 | 9507.0  | 8562.6  | 7783.4  | 6541.5  | 5774.5  | 5409.2 | 6348.4  |
| 57.5° | 14770.1 | 14744.0 | 14077.9 | 12562.9 | 10519.3 | 9468.7  | 8531.2  | 7098.1  | 6251.0  | 5823.2 | 7042.4  |
| 60°   | 14961.4 | 14945.8 | 14455.3 | 13336.9 | 11583.7 | 10470.6 | 9393.9  | 7720.7  | 6792.0  | 6311.9 | 7934.7  |
| 62.5° | 15034.5 | 15064.0 | 14825.8 | 14086.6 | 12723.0 | 11580.2 | 10341.9 | 8465.2  | 7400.7  | 6865.0 | 8875.6  |
| 65°   | 15291.9 | 15345.8 | 15297.1 | 15067.5 | 14010.0 | 12879.5 | 11599.4 | 9350.5  | 8065.1  | 7458.1 | 9858.3  |
| 67.5° | 15801.5 | 15855.4 | 15876.3 | 16241.6 | 15582.4 | 14498.8 | 13168.2 | 10453.2 | 8842.6  | 8073.8 | 10597.5 |
| 70°   | 15789.3 | 15773.7 | 16142.4 | 17175.6 | 17551.2 | 16740.7 | 15283.2 | 11809.8 | 9769.6  | 8585.2 | 10691.5 |
| 72.5° | 14371.8 | 14246.6 | 15118.0 | 17165.1 | 19189.7 | 19081.8 | 17866.1 | 13559.6 | 10569.7 | 8647.8 | 9277.4  |
| 75°   | 10781.9 | 10448.0 | 11987.2 | 15469.3 | 19462.7 | 20410.6 | 19507.9 | 14644.9 | 10380.1 | 7640.7 | 6456.3  |
| 77.5° | 4610.9  | 4275.2  | 6089.3  | 11451.5 | 17419.1 | 19080.1 | 18001.7 | 12776.9 | 8286.0  | 5052.7 | 3170.7  |
| 80°   | 1207.1  | 1205.3  | 1840.2  | 5191.8  | 11846.3 | 14090.0 | 12361.2 | 8251.2  | 4734.4  | 1805.4 | 874.9   |
| 82.5° | 499.2   | 487.0   | 676.6   | 2019.3  | 5788.4  | 7906.8  | 6452.8  | 3680.4  | 1709.7  | 488.7  | 290.5   |
| 85°   | 186.1   | 184.4   | 328.7   | 697.5   | 2041.9  | 3261.2  | 2360.2  | 941.0   | 426.1   | 238.3  | 130.4   |
| 87.5° | 52.2    | 50.4    | 71.3    | 241.8   | 497.4   | 754.9   | 403.5   | 154.8   | 120.0   | 93.9   | 38.3    |
| 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°    | 3749.9  | 3749.9  | 3749.9 | 3749.9 | 3749.9 | 3749.9 | 3749.9 | 3749.9 | 3749.9 | 3749.9 | 3749.9 |
| 2.5°  | 3762.1  | 3770.8  | 3786.4 | 3798.6 | 3814.3 | 3831.7 | 3856.0 | 3871.7 | 3887.3 | 3897.8 | 3890.8 |
| 5°    | 3777.8  | 3796.9  | 3836.9 | 3876.9 | 3923.9 | 3967.3 | 4017.8 | 4054.3 | 4083.9 | 4092.6 | 4096.0 |
| 7.5°  | 3812.5  | 3843.8  | 3911.7 | 3979.5 | 4054.3 | 4125.6 | 4198.7 | 4261.3 | 4311.7 | 4330.8 | 4332.6 |
| 10°   | 3873.4  | 3915.2  | 4010.8 | 4106.5 | 4205.6 | 4315.2 | 4409.1 | 4499.6 | 4570.9 | 4600.4 | 4602.2 |
| 12.5° | 3949.9  | 4002.1  | 4127.4 | 4259.5 | 4396.9 | 4548.3 | 4670.0 | 4781.3 | 4870.0 | 4910.0 | 4910.0 |
| 15°   | 4049.1  | 4116.9  | 4276.9 | 4454.3 | 4656.1 | 4866.6 | 5021.3 | 5144.8 | 5244.0 | 5292.7 | 5289.2 |
| 17.5° | 4156.9  | 4247.4  | 4449.1 | 4717.0 | 5005.7 | 5282.2 | 5463.1 | 5553.6 | 5656.2 | 5703.2 | 5701.4 |
| 20°   | 4261.3  | 4372.6  | 4661.3 | 5050.9 | 5435.3 | 5729.2 | 5875.3 | 5899.7 | 5906.7 | 5911.9 | 5925.8 |
| 22.5° | 4369.1  | 4518.7  | 4927.4 | 5471.8 | 5884.0 | 6087.5 | 6108.4 | 6004.1 | 5858.0 | 5790.1 | 5809.3 |
| 25°   | 4487.4  | 4685.7  | 5275.3 | 5936.2 | 6270.2 | 6294.5 | 6134.5 | 5880.6 | 5604.0 | 5477.0 | 5496.2 |
| 27.5° | 4602.2  | 4878.7  | 5692.7 | 6379.7 | 6548.5 | 6334.5 | 5990.1 | 5630.1 | 5296.2 | 5162.2 | 5177.9 |
| 30°   | 4717.0  | 5099.6  | 6153.6 | 6767.6 | 6675.4 | 6235.4 | 5762.3 | 5360.5 | 5024.8 | 4883.9 | 4899.6 |
| 32.5° | 4833.5  | 5357.0  | 6684.1 | 7047.6 | 6652.8 | 6024.9 | 5478.8 | 5057.9 | 4762.2 | 4614.4 | 4633.5 |
| 35°   | 4965.7  | 5673.6  | 7186.8 | 7200.7 | 6501.5 | 5715.3 | 5104.8 | 4696.1 | 4438.7 | 4320.4 | 4346.5 |
| 37.5° | 5137.9  | 6075.4  | 7630.3 | 7239.0 | 6237.1 | 5261.4 | 4640.4 | 4268.2 | 4056.0 | 4002.1 | 4040.4 |
| 40°   | 5351.8  | 6558.9  | 7969.5 | 7178.1 | 5845.8 | 4710.0 | 4132.6 | 3835.1 | 3715.1 | 3727.3 | 3769.1 |
| 42.5° | 5630.1  | 7099.8  | 8207.7 | 7021.5 | 5301.4 | 4141.3 | 3687.3 | 3555.1 | 3612.5 | 3661.2 | 3706.4 |
| 45°   | 5991.9  | 7661.6  | 8355.6 | 6755.4 | 4685.7 | 3659.5 | 3424.7 | 3456.0 | 3499.5 | 3504.7 | 3539.5 |
| 47.5° | 6454.5  | 8230.4  | 8453.0 | 6353.7 | 4057.8 | 3320.3 | 3257.7 | 3264.7 | 3256.0 | 3219.4 | 3247.3 |
| 50°   | 7032.0  | 8783.4  | 8539.9 | 5821.4 | 3523.8 | 3108.1 | 3024.6 | 3000.3 | 2880.3 | 2762.0 | 2777.7 |
| 52.5° | 7689.4  | 9291.3  | 8576.5 | 5160.5 | 3108.1 | 2930.7 | 2795.0 | 2642.0 | 2417.6 | 2381.1 | 2393.3 |
| 55°   | 8419.9  | 9760.9  | 8482.5 | 4348.2 | 2758.5 | 2702.9 | 2497.6 | 2313.3 | 2288.9 | 2257.6 | 2262.8 |
| 57.5° | 9293.1  | 10267.1 | 8291.2 | 3442.1 | 2400.2 | 2436.8 | 2236.7 | 2257.6 | 2214.1 | 2165.4 | 2156.7 |
| 60°   | 10247.9 | 10790.6 | 7955.5 | 2615.9 | 2029.8 | 2104.5 | 2168.9 | 2167.2 | 2155.0 | 2115.0 | 2101.1 |
| 62.5° | 11107.1 | 11135.0 | 7294.6 | 2003.7 | 1704.5 | 1847.1 | 2022.8 | 2021.1 | 2010.6 | 1988.0 | 1979.3 |
| 65°   | 11618.5 | 11082.8 | 6191.9 | 1577.5 | 1436.7 | 1634.9 | 1824.5 | 1838.4 | 1840.2 | 1838.4 | 1838.4 |
| 67.5° | 11528.1 | 10472.3 | 4678.7 | 1255.8 | 1215.8 | 1419.3 | 1628.0 | 1647.1 | 1661.0 | 1664.5 | 1668.0 |
| 70°   | 10505.4 | 9131.3  | 3050.7 | 1001.8 | 1019.2 | 1229.7 | 1441.9 | 1461.0 | 1473.2 | 1487.1 | 1494.1 |
| 72.5° | 8188.6  | 6713.7  | 1746.3 | 810.5  | 847.0  | 1066.2 | 1257.5 | 1280.1 | 1287.1 | 1313.2 | 1323.6 |
| 75°   | 4990.0  | 3948.2  | 942.7  | 638.3  | 695.7  | 911.4  | 1074.9 | 1101.0 | 1113.1 | 1144.5 | 1147.9 |
| 77.5° | 2372.4  | 1709.7  | 537.4  | 497.4  | 560.1  | 744.4  | 907.9  | 937.5  | 904.4  | 921.8  | 907.9  |
| 80°   | 801.8   | 634.8   | 339.2  | 379.2  | 427.9  | 580.9  | 727.0  | 756.6  | 687.0  | 683.5  | 676.6  |
| 82.5° | 280.0   | 257.4   | 215.7  | 252.2  | 276.5  | 415.7  | 549.6  | 587.9  | 511.4  | 509.6  | 485.3  |
| 85°   | 109.6   | 104.4   | 120.0  | 137.4  | 165.2  | 255.7  | 361.8  | 380.9  | 314.8  | 253.9  | 250.5  |
| 87.5° | 22.6    | 24.4    | 29.6   | 31.3   | 50.4   | 88.7   | 130.4  | 160.0  | 127.0  | 107.8  | 99.1   |
| 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)