

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: P522184

Luminaire Tested: **CTN-CA6-230-727-U-T5R-HSS-HM-EX180**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA6-230-727-U-T5R-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19296 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G3

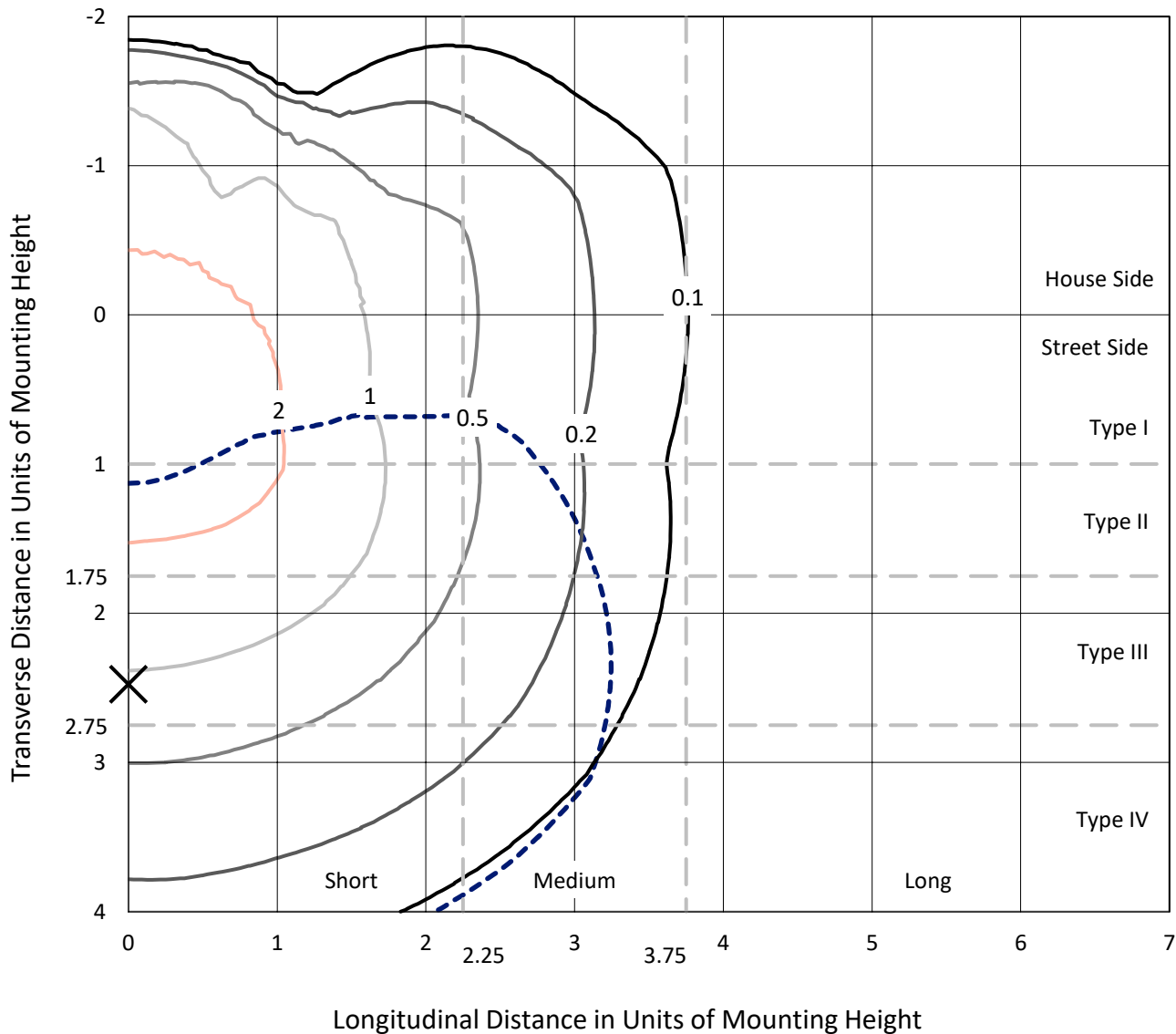
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

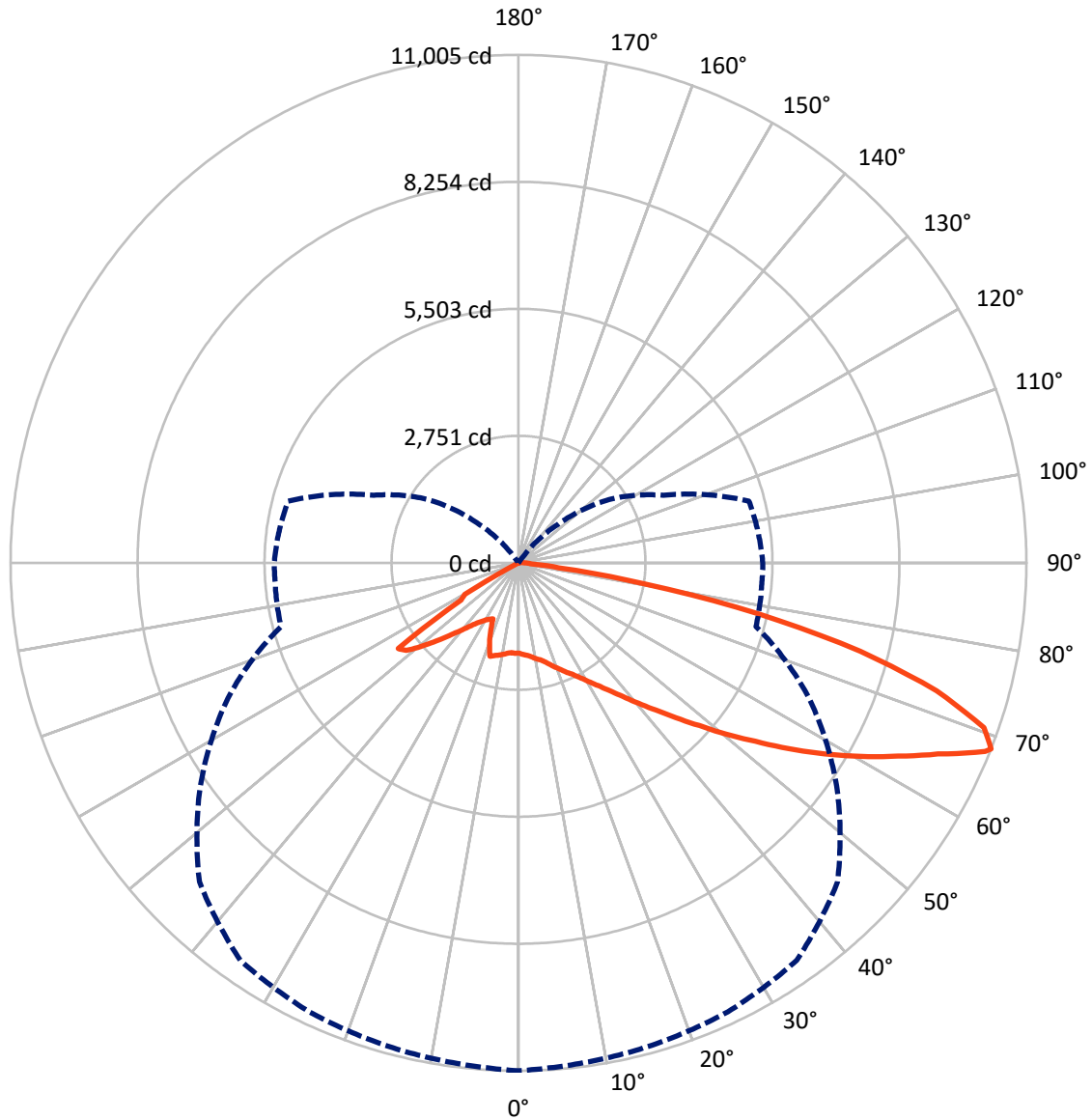
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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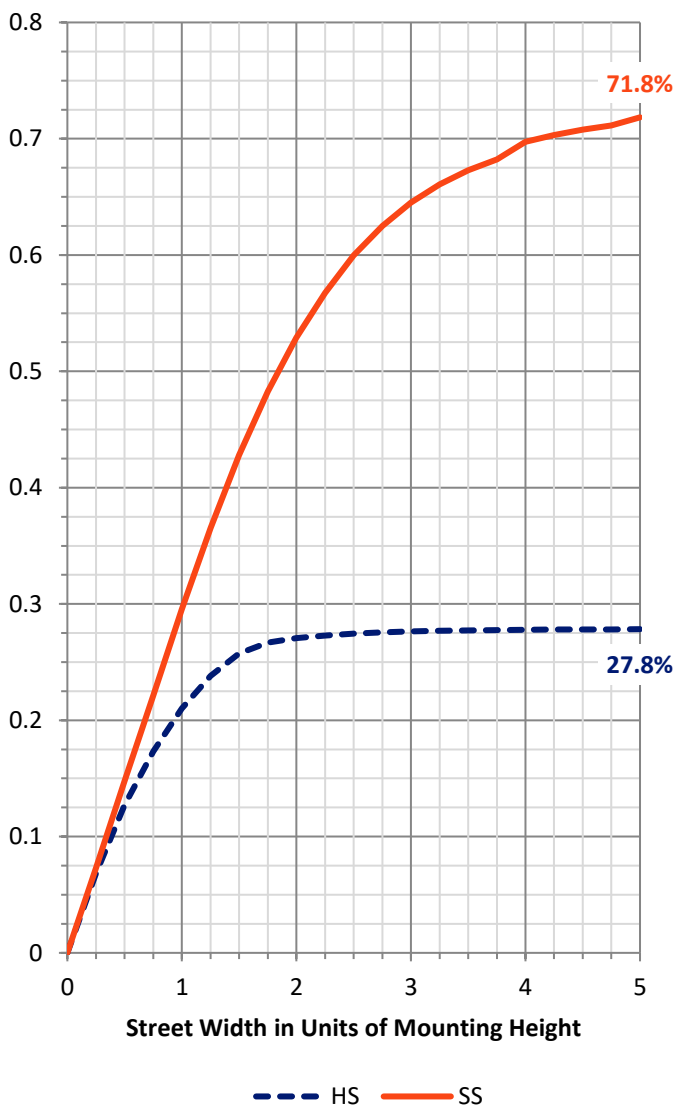
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5389.4 | 0.1 | 5389.5 |
| | % Fixture | 27.9 | 0.0 | 27.9 |
| Street Side | Lumens | 13895.4 | 11.1 | 13906.5 |
| | % Fixture | 72.0 | 0.1 | 72.1 |
| Total | Lumens | 19284.8 | 11.2 | 19296.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 189.7 | 1.0 |
| 10°-20° | 601.2 | 3.1 |
| 20°-30° | 1017.8 | 5.3 |
| 30°-40° | 1612.5 | 8.4 |
| 40°-50° | 2636.3 | 13.7 |
| 50°-60° | 4038.2 | 20.9 |
| 60°-70° | 4965.3 | 25.7 |
| 70°-80° | 3836.6 | 19.9 |
| 80°-90° | 387.1 | 2.0 |
| 90°-100° | 11.0 | 0.1 |
| 100°-110° | 0.2 | 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° | 19284.8 | 99.9 |
| 0°-180° | 19296.0 | 100.0 |

Coefficient of Utilization

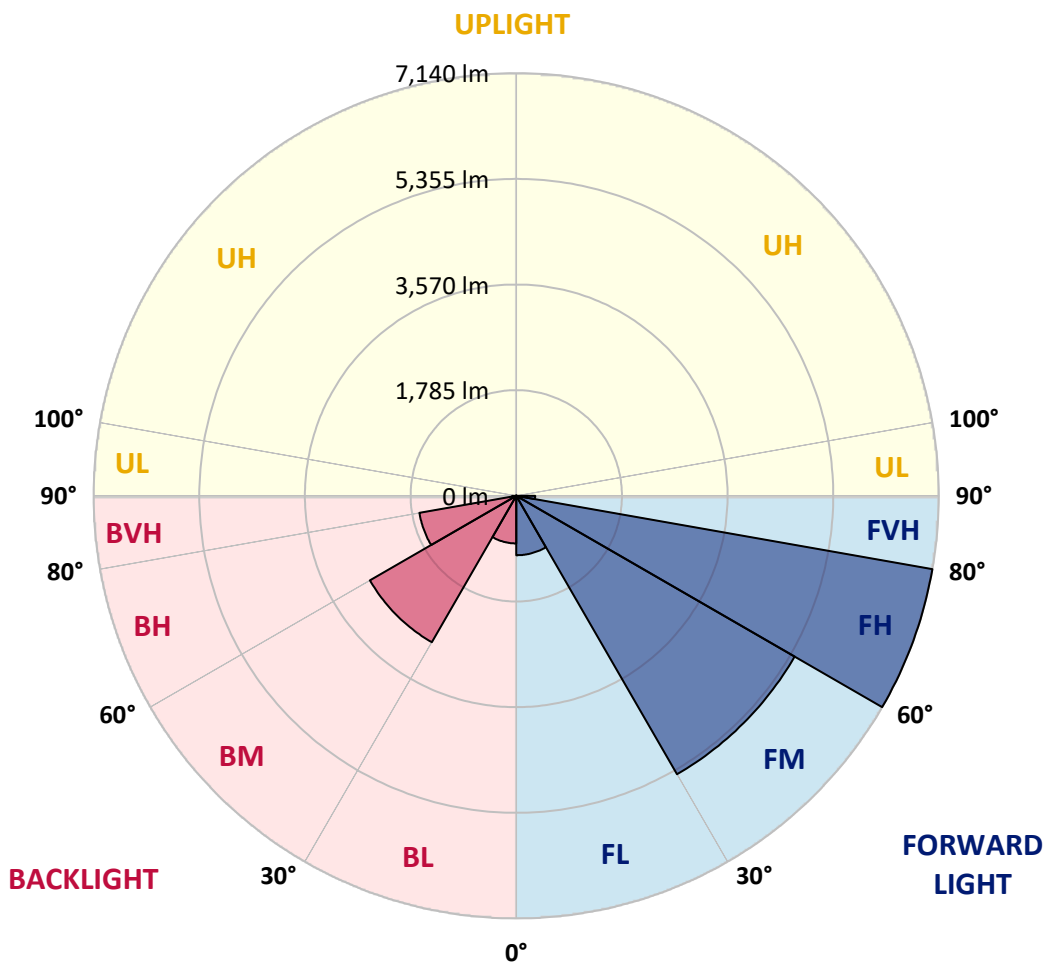


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1004.4 | 5.2 | | | |
| FM (30°-60°) | 5431.5 | 28.1 | | | |
| FH (60°-80°) | 7140.3 | 37.0 | | | G3/7500 |
| FVH (80°-90°) | 319.2 | 1.7 | | | G3/500 |
| BL (0°-30°) | 804.4 | 4.2 | B2/1000 | | |
| BM (30°-60°) | 2855.5 | 14.8 | B3/5000 | | |
| BH (60°-80°) | 1661.6 | 8.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 67.9 | 0.4 | | | G1/100 |
| UL (90°-100°) | 11.0 | 0.1 | | U2/50 | |
| UH (100°-180°) | 0.2 | 0.0 | | U1/10 | |

BUG Rating: B3-U2-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0° | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 |
| 2.5° | 1990.2 | 1986.5 | 1982.8 | 1991.1 | 1958.6 | 1972.6 | 1961.4 | 1971.6 | 1964.2 | 1972.6 | 1969.8 |
| 5° | 2016.2 | 2012.5 | 2001.4 | 2010.7 | 1989.3 | 1994.9 | 1980.9 | 1984.6 | 1959.5 | 1974.4 | 1973.5 |
| 7.5° | 2059.0 | 2048.8 | 2041.3 | 2041.3 | 2022.7 | 2021.8 | 1999.5 | 2000.4 | 1980.9 | 1979.1 | 1982.8 |
| 10° | 2116.6 | 2109.2 | 2088.7 | 2090.6 | 2064.6 | 2060.9 | 2033.0 | 2032.0 | 2016.2 | 2006.9 | 2015.3 |
| 12.5° | 2159.4 | 2166.8 | 2148.2 | 2148.2 | 2122.2 | 2103.6 | 2084.1 | 2071.1 | 2059.0 | 2045.1 | 2038.6 |
| 15° | 2237.5 | 2244.9 | 2219.8 | 2218.9 | 2208.7 | 2186.4 | 2165.0 | 2137.1 | 2115.7 | 2109.2 | 2099.0 |
| 17.5° | 2338.8 | 2334.2 | 2312.8 | 2313.7 | 2315.6 | 2279.3 | 2257.9 | 2221.7 | 2191.0 | 2168.7 | 2163.1 |
| 20° | 2442.0 | 2442.0 | 2418.7 | 2426.2 | 2416.9 | 2383.4 | 2369.5 | 2319.3 | 2276.5 | 2252.4 | 2232.8 |
| 22.5° | 2557.3 | 2552.6 | 2536.8 | 2552.6 | 2534.0 | 2500.5 | 2477.3 | 2427.1 | 2372.3 | 2235.6 | 2179.8 |
| 25° | 2666.9 | 2664.2 | 2670.7 | 2675.3 | 2652.1 | 2610.2 | 2594.4 | 2541.5 | 2389.0 | 2209.6 | 2097.1 |
| 27.5° | 2805.4 | 2796.2 | 2811.0 | 2820.3 | 2797.1 | 2760.8 | 2727.4 | 2667.9 | 2345.3 | 2204.0 | 2191.9 |
| 30° | 2983.0 | 2962.5 | 2983.9 | 2988.6 | 2964.4 | 2942.1 | 2891.9 | 2594.4 | 2360.2 | 2319.3 | 2315.6 |
| 32.5° | 3172.6 | 3148.5 | 3176.3 | 3180.1 | 3148.5 | 3129.9 | 3003.4 | 2556.3 | 2506.1 | 2458.7 | 2463.4 |
| 35° | 3397.6 | 3397.6 | 3411.5 | 3413.4 | 3390.2 | 3358.5 | 2877.0 | 2742.2 | 2697.6 | 2653.9 | 2653.0 |
| 37.5° | 3671.8 | 3663.4 | 3700.6 | 3722.9 | 3697.8 | 3607.7 | 3061.1 | 2997.9 | 2929.1 | 2873.3 | 2758.0 |
| 40° | 4002.7 | 4017.6 | 4027.8 | 4050.1 | 4026.0 | 3823.3 | 3329.7 | 3258.2 | 3204.2 | 3017.4 | 2726.4 |
| 42.5° | 4359.7 | 4363.4 | 4385.7 | 4413.6 | 4413.6 | 4199.8 | 3643.9 | 3582.6 | 3512.9 | 2950.5 | 2819.4 |
| 45° | 4786.4 | 4778.0 | 4820.8 | 4865.4 | 4853.3 | 4632.1 | 4009.2 | 3963.7 | 3637.4 | 3144.7 | 3145.7 |
| 47.5° | 5270.7 | 5260.4 | 5321.8 | 5380.4 | 5319.9 | 5111.7 | 4410.8 | 4375.5 | 3511.0 | 3473.8 | 3466.4 |
| 50° | 5830.3 | 5805.2 | 5875.8 | 5953.9 | 5904.6 | 5647.2 | 4898.8 | 4220.3 | 3863.3 | 3833.6 | 3828.9 |
| 52.5° | 6428.0 | 6408.5 | 6451.2 | 6584.2 | 6519.1 | 6207.7 | 5360.8 | 4354.1 | 4271.4 | 4237.9 | 4229.6 |
| 55° | 7102.9 | 7064.7 | 7156.8 | 7258.1 | 7182.8 | 6827.7 | 5816.3 | 4798.5 | 4712.9 | 4655.3 | 4571.6 |
| 57.5° | 7812.1 | 7757.3 | 7804.7 | 7932.0 | 7859.5 | 7462.6 | 6403.8 | 5255.8 | 5154.5 | 4265.8 | 3926.5 |
| 60° | 8518.6 | 8493.5 | 8512.1 | 8624.6 | 8535.3 | 8079.8 | 6954.1 | 5714.1 | 4362.5 | 4219.3 | 4236.1 |
| 62.5° | 9228.8 | 9173.9 | 9190.7 | 9305.9 | 9191.6 | 8667.3 | 7475.6 | 6130.5 | 4591.2 | 4541.0 | 4558.6 |
| 65° | 9990.1 | 9925.0 | 9939.9 | 9973.4 | 9832.1 | 9194.4 | 7936.7 | 6523.7 | 4935.1 | 4882.1 | 4901.6 |
| 67.5° | 10907.6 | 10848.1 | 10767.2 | 10667.8 | 10472.6 | 9754.0 | 8395.0 | 6937.4 | 5321.8 | 5292.1 | 5298.6 |
| 68° | 11005.2 | 10947.6 | 10850.0 | 10731.9 | 10512.5 | 9777.2 | 8414.5 | 6949.5 | 5327.4 | 5290.2 | 5292.1 |
| 70° | 10701.2 | 10735.6 | 10625.0 | 10427.0 | 10243.9 | 9437.0 | 8095.6 | 6681.8 | 5090.3 | 5035.5 | 5021.5 |
| 72.5° | 9477.0 | 9552.3 | 9399.8 | 9366.4 | 9141.4 | 8407.1 | 7084.3 | 5797.7 | 4427.6 | 4445.2 | 4395.0 |
| 75° | 7651.3 | 7761.9 | 7576.9 | 7587.2 | 7458.9 | 7012.7 | 5937.2 | 4827.3 | 3635.6 | 3716.4 | 3731.3 |
| 77.5° | 5320.9 | 5479.8 | 5399.0 | 5479.8 | 5416.6 | 5255.8 | 4594.9 | 3717.4 | 2773.8 | 2866.8 | 2903.1 |
| 80° | 2774.8 | 2963.5 | 3070.4 | 3103.8 | 3124.3 | 3117.8 | 2798.0 | 2231.0 | 1603.5 | 1637.9 | 1636.0 |
| 82.5° | 877.5 | 832.0 | 858.9 | 851.5 | 828.2 | 837.5 | 754.8 | 590.3 | 409.0 | 450.8 | 431.3 |
| 85° | 264.9 | 266.8 | 259.4 | 257.5 | 238.0 | 209.2 | 171.0 | 98.5 | 48.3 | 56.7 | 53.0 |
| 87.5° | 195.2 | 197.1 | 182.2 | 172.9 | 161.7 | 140.4 | 108.8 | 61.4 | 23.2 | 22.3 | 17.7 |
| 90° | 107.8 | 104.1 | 96.7 | 89.2 | 84.6 | 72.5 | 54.8 | 23.2 | 8.4 | 6.5 | 5.6 |
| 92.5° | 58.6 | 55.8 | 52.1 | 49.3 | 42.8 | 34.4 | 22.3 | 7.4 | 3.7 | 0.9 | 0.0 |
| 95° | 27.0 | 25.1 | 24.2 | 21.4 | 18.6 | 13.0 | 7.4 | 4.6 | 2.8 | 0.9 | 0.0 |
| 97.5° | 12.1 | 11.2 | 10.2 | 8.4 | 6.5 | 3.7 | 3.7 | 2.8 | 1.9 | 0.9 | 0.0 |
| 100° | 2.8 | 2.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.9 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 |
| 2.5° | 1967.0 | 1961.4 | 1958.6 | 1940.9 | 1946.5 | 1930.7 | 1961.4 | 1954.0 | 1949.3 | 1962.3 |
| 5° | 1968.8 | 1949.3 | 1961.4 | 1951.2 | 1954.9 | 1932.6 | 1956.7 | 1946.5 | 1945.6 | 1951.2 |
| 7.5° | 1973.5 | 1960.5 | 1972.6 | 1952.1 | 1961.4 | 1952.1 | 1969.8 | 1959.5 | 1967.9 | 1973.5 |
| 10° | 1998.6 | 1991.1 | 1985.6 | 1980.9 | 1987.4 | 1968.8 | 1991.1 | 1992.1 | 1994.9 | 2011.6 |
| 12.5° | 2033.9 | 2026.5 | 2017.2 | 2005.1 | 2011.6 | 2004.2 | 2020.9 | 2025.5 | 2035.8 | 2044.1 |
| 15° | 2083.2 | 2069.2 | 2065.5 | 2054.4 | 2060.9 | 2057.1 | 2060.9 | 2058.1 | 2077.6 | 2074.8 |
| 17.5° | 2151.0 | 2135.2 | 2082.2 | 2028.3 | 1993.9 | 2004.2 | 2046.9 | 2102.7 | 2116.6 | 2118.5 |
| 20° | 2176.1 | 2064.6 | 2059.0 | 1997.7 | 1969.8 | 1967.9 | 1879.6 | 1747.6 | 1787.6 | 1881.5 |
| 22.5° | 2146.4 | 1993.9 | 1978.1 | 1966.0 | 1847.1 | 1651.8 | 1633.3 | 1613.7 | 1609.1 | 1623.0 |
| 25° | 2079.5 | 2061.8 | 2047.8 | 1889.8 | 1702.0 | 1703.0 | 1676.0 | 1547.7 | 1347.9 | 1331.1 |
| 27.5° | 2181.7 | 2157.5 | 2022.7 | 1779.2 | 1775.5 | 1773.6 | 1733.7 | 1404.6 | 1361.8 | 1372.0 |
| 30° | 2297.9 | 2257.9 | 1905.6 | 1874.0 | 1873.1 | 1856.4 | 1554.2 | 1416.7 | 1416.7 | 1418.5 |
| 32.5° | 2431.8 | 2183.6 | 1972.6 | 1987.4 | 1986.5 | 1907.5 | 1501.3 | 1492.0 | 1488.2 | 1497.5 |
| 35° | 2534.0 | 2124.1 | 2116.6 | 2143.6 | 2125.0 | 1618.4 | 1595.1 | 1586.8 | 1583.1 | 1578.4 |
| 37.5° | 2502.4 | 2295.1 | 2295.1 | 2311.8 | 2162.2 | 1723.4 | 1712.3 | 1712.3 | 1704.8 | 1701.1 |
| 40° | 2550.7 | 2508.0 | 2486.6 | 2493.1 | 1571.0 | 1850.8 | 1859.1 | 1857.3 | 1856.4 | 1862.9 |
| 42.5° | 2805.4 | 2767.3 | 2747.8 | 2517.3 | 1758.8 | 1839.6 | 2044.1 | 2043.2 | 2046.0 | 2043.2 |
| 45° | 3129.9 | 3094.5 | 3043.4 | 2355.5 | 1996.7 | 1612.8 | 2253.3 | 2263.5 | 2264.4 | 2263.5 |
| 47.5° | 3470.1 | 3447.8 | 2924.4 | 2607.5 | 2255.1 | 1730.9 | 2153.8 | 2515.4 | 2510.8 | 2516.4 |
| 50° | 3829.8 | 3729.4 | 2909.6 | 2905.8 | 2530.3 | 1926.1 | 1927.0 | 2735.7 | 2783.1 | 2798.0 |
| 52.5° | 4230.5 | 3380.9 | 3224.7 | 2942.1 | 2809.2 | 2126.9 | 2106.4 | 2424.3 | 3071.3 | 3086.2 |
| 55° | 3929.3 | 3571.4 | 3568.6 | 2618.6 | 2922.6 | 2320.2 | 2323.0 | 2300.7 | 2816.6 | 3201.4 |
| 57.5° | 3909.8 | 3918.1 | 3911.6 | 2921.6 | 2132.4 | 2175.2 | 2531.2 | 2511.7 | 1823.8 | 1478.0 |
| 60° | 4247.2 | 4259.3 | 3800.1 | 3155.0 | 2305.3 | 1337.7 | 1558.9 | 1324.6 | 1342.3 | 1356.2 |
| 62.5° | 4569.8 | 4573.5 | 3090.8 | 2068.3 | 1142.4 | 53.9 | 26.0 | 21.4 | 20.5 | 20.5 |
| 65° | 4926.7 | 4926.7 | 3313.0 | 2256.1 | 1103.4 | 20.5 | 3.7 | 2.8 | 10.2 | 10.2 |
| 67.5° | 5271.6 | 5195.4 | 3475.7 | 2395.5 | 1122.9 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68° | 5252.1 | 5168.4 | 3460.8 | 2391.8 | 1120.1 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4960.2 | 4879.3 | 3283.2 | 2283.0 | 1078.3 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4378.3 | 4303.9 | 2907.7 | 2012.5 | 972.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3706.2 | 3696.0 | 2511.7 | 1698.3 | 833.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2982.1 | 2935.6 | 1963.3 | 1331.1 | 672.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1661.1 | 1729.9 | 1149.0 | 782.7 | 423.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 449.0 | 420.2 | 251.0 | 170.1 | 80.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 57.6 | 63.2 | 28.8 | 23.2 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 29.7 | 35.3 | 9.3 | 7.4 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 5.6 | 6.5 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)