

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: STREETWORKS

Report Number: P476584

Luminaire Tested: **IFLD-L-SA7C-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476584
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

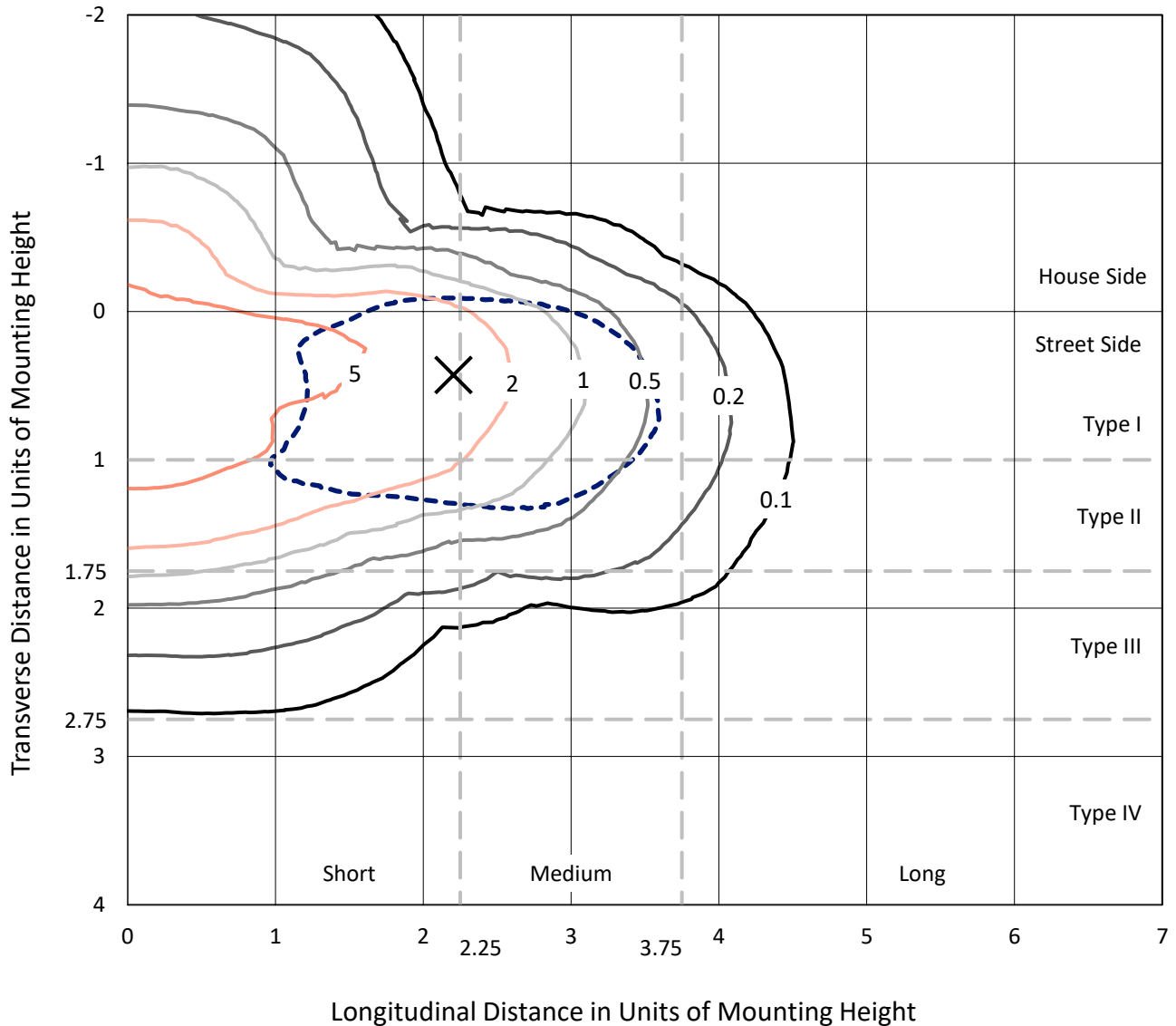
Lumens per Lamp: N/A
Luminaire Lumens: 43670.8 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 369
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

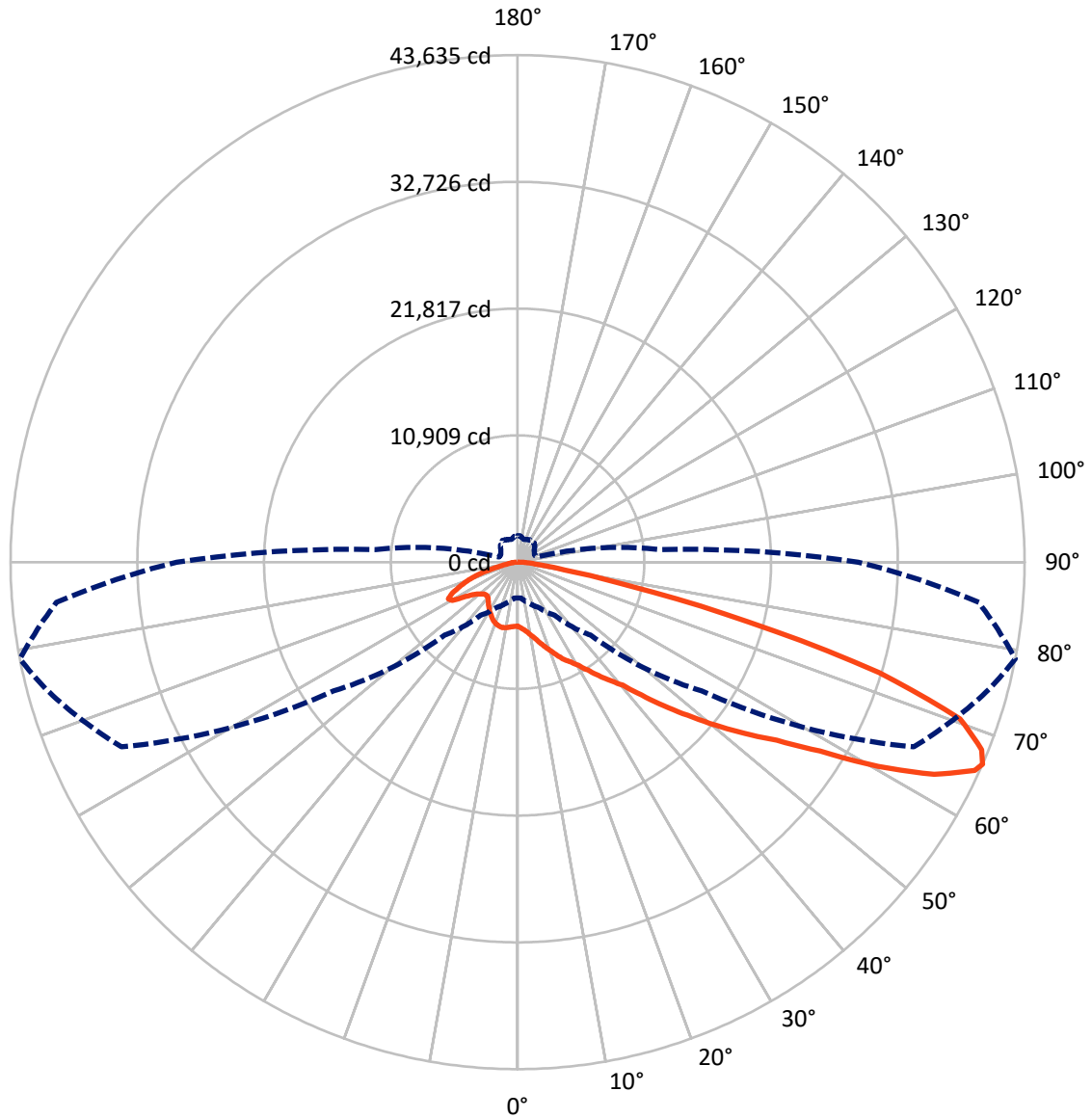
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8818.7 | 0.0 | 8818.7 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 34852.1 | 0.0 | 34852.1 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 43670.8 | 0.0 | 43670.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 542.2 | 1.2 |
| 10°-20° | 1674.4 | 3.8 |
| 20°-30° | 2874.1 | 6.6 |
| 30°-40° | 4439.9 | 10.2 |
| 40°-50° | 7111.7 | 16.3 |
| 50°-60° | 10618.2 | 24.3 |
| 60°-70° | 10910.2 | 25.0 |
| 70°-80° | 4836.4 | 11.1 |
| 80°-90° | 663.6 | 1.5 |
| 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° | 43670.8 | 100.0 |
| 0°-180° | 43670.8 | 100.0 |

Coefficient of Utilization



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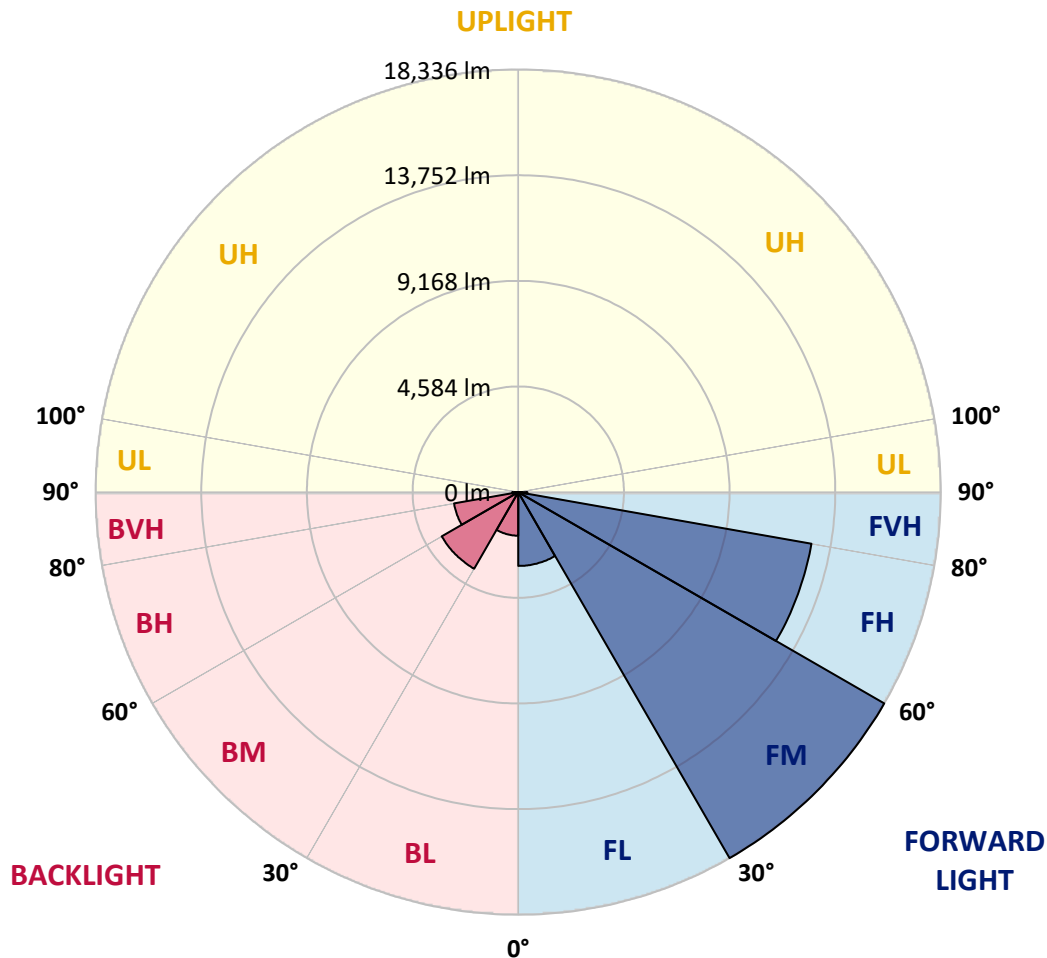
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3201.3 | 7.3 | | | |
| FM (30°-60°) | 18335.9 | 42.0 | | | |
| FH (60°-80°) | 12916.8 | 29.6 | | | G5 |
| FVH (80°-90°) | 398.0 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1889.4 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 3834.0 | 8.8 | B3/5000 | | |
| BH (60°-80°) | 2829.7 | 6.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 265.6 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 |
| 2.5° | 5865.1 | 5869.9 | 5869.9 | 5850.6 | 5855.5 | 5869.9 | 5817.0 | 5701.7 | 5701.7 | 5682.5 | 5648.9 |
| 5° | 6225.3 | 6201.3 | 6167.7 | 6172.5 | 6153.3 | 6153.3 | 6095.6 | 5985.1 | 5889.1 | 5850.6 | 5749.8 |
| 7.5° | 6273.4 | 6297.4 | 6292.6 | 6350.2 | 6379.0 | 6379.0 | 6407.9 | 6316.6 | 6172.5 | 6081.2 | 5980.3 |
| 10° | 6369.4 | 6307.0 | 6302.2 | 6436.7 | 6479.9 | 6580.8 | 6696.1 | 6648.0 | 6527.9 | 6398.2 | 6263.7 |
| 12.5° | 6427.1 | 6465.5 | 6465.5 | 6532.7 | 6633.6 | 6782.5 | 6984.3 | 7075.5 | 6888.2 | 6753.7 | 6547.2 |
| 15° | 6513.5 | 6460.7 | 6614.4 | 6672.0 | 6864.2 | 6969.9 | 7258.1 | 7493.4 | 7368.6 | 7205.2 | 6878.6 |
| 17.5° | 6552.0 | 6518.3 | 6604.8 | 6710.5 | 7037.1 | 7195.6 | 7546.3 | 7872.9 | 7767.2 | 7661.6 | 7325.3 |
| 20° | 6748.9 | 6744.1 | 6782.5 | 6869.0 | 7104.4 | 7416.6 | 7853.7 | 8305.2 | 8343.7 | 8151.5 | 7695.2 |
| 22.5° | 7229.3 | 7166.8 | 7166.8 | 7133.2 | 7234.1 | 7555.9 | 8146.7 | 8771.2 | 8944.1 | 8718.3 | 8113.1 |
| 25° | 7671.2 | 7757.6 | 7704.8 | 7551.1 | 7512.7 | 7680.8 | 8358.1 | 9265.9 | 9496.5 | 9285.1 | 8679.9 |
| 27.5° | 8238.0 | 8266.8 | 8358.1 | 8151.5 | 7887.3 | 7940.2 | 8588.6 | 9544.5 | 10020.1 | 9736.7 | 9001.7 |
| 30° | 9054.6 | 9001.7 | 8982.5 | 8752.0 | 8406.1 | 8334.1 | 8852.8 | 9952.8 | 10707.0 | 10308.3 | 9381.2 |
| 32.5° | 9607.0 | 9736.7 | 9731.9 | 9414.8 | 8996.9 | 8838.4 | 9179.5 | 10337.1 | 11441.9 | 11072.0 | 10082.5 |
| 35° | 10702.2 | 10836.7 | 10731.0 | 10265.1 | 9775.1 | 9458.1 | 9650.2 | 10836.7 | 12282.5 | 11994.3 | 10678.2 |
| 37.5° | 12100.0 | 12417.0 | 12191.3 | 11331.4 | 10639.7 | 10293.9 | 10303.5 | 11379.5 | 13142.3 | 12907.0 | 11317.0 |
| 40° | 13065.5 | 13493.0 | 13180.8 | 12373.8 | 11638.9 | 11312.2 | 11182.5 | 12023.1 | 14170.3 | 13920.5 | 12316.1 |
| 42.5° | 14261.6 | 14617.0 | 14453.7 | 13656.3 | 12796.5 | 12517.9 | 12258.5 | 13099.1 | 15741.0 | 15625.7 | 13598.7 |
| 45° | 15568.1 | 15736.2 | 15683.4 | 15179.0 | 14223.1 | 14127.1 | 13555.4 | 14516.1 | 17590.4 | 17638.4 | 15203.0 |
| 47.5° | 16783.4 | 16874.7 | 16975.5 | 16610.5 | 16014.8 | 16096.5 | 15049.3 | 16034.0 | 19386.9 | 19703.9 | 16989.9 |
| 50° | 17095.6 | 17407.8 | 17643.2 | 17888.2 | 18017.9 | 18570.3 | 16696.9 | 17897.8 | 21452.4 | 22067.2 | 18978.6 |
| 52.5° | 16778.6 | 16754.6 | 17470.3 | 18238.8 | 19535.8 | 20693.4 | 18940.2 | 20213.1 | 23277.7 | 24493.0 | 20799.1 |
| 55° | 15337.5 | 15289.5 | 16442.3 | 17460.7 | 19992.1 | 21875.1 | 22144.1 | 23296.9 | 25482.5 | 27062.9 | 23263.3 |
| 57.5° | 12815.7 | 12517.9 | 13776.4 | 15448.0 | 19002.6 | 22004.8 | 25362.4 | 27874.6 | 28873.8 | 30675.1 | 27024.4 |
| 60° | 8612.7 | 8487.8 | 9693.4 | 11686.9 | 15428.8 | 20165.0 | 27288.6 | 33605.2 | 33653.2 | 35680.3 | 32860.7 |
| 62.5° | 5303.1 | 5327.1 | 6100.4 | 7594.3 | 10803.0 | 15986.0 | 26457.6 | 38182.9 | 38192.5 | 40224.4 | 37664.2 |
| 65° | 3468.1 | 3482.5 | 4107.0 | 4933.2 | 6748.9 | 10841.5 | 21879.9 | 38543.2 | 41348.4 | 43236.2 | 39864.2 |
| 66° | 3088.6 | 3093.4 | 3631.4 | 4303.9 | 5591.3 | 8872.0 | 19324.4 | 37606.5 | 42059.3 | 43634.9 | 39835.3 |
| 67.5° | 2603.5 | 2665.9 | 3098.3 | 3617.0 | 4361.6 | 6374.2 | 15332.7 | 34897.3 | 41694.3 | 43077.7 | 38932.3 |
| 70° | 2036.7 | 2070.3 | 2411.4 | 2939.7 | 3271.2 | 3689.1 | 9112.2 | 28446.3 | 38163.7 | 40406.9 | 35646.7 |
| 72.5° | 1633.2 | 1662.0 | 1921.4 | 2387.3 | 2656.3 | 2430.6 | 4962.0 | 20640.6 | 30146.7 | 32538.8 | 28038.0 |
| 75° | 1378.6 | 1383.4 | 1508.3 | 1878.2 | 2185.6 | 1825.3 | 2641.9 | 13248.0 | 19343.6 | 20458.1 | 17177.3 |
| 77.5° | 1114.4 | 1133.6 | 1220.1 | 1431.4 | 1758.1 | 1436.2 | 1575.5 | 7421.4 | 9712.7 | 9794.3 | 7940.2 |
| 80° | 907.9 | 917.5 | 970.3 | 1042.4 | 1340.2 | 1061.6 | 1066.4 | 3621.8 | 4164.6 | 4068.6 | 3227.9 |
| 82.5° | 715.7 | 725.3 | 787.8 | 773.4 | 984.7 | 759.0 | 662.9 | 1743.7 | 1916.6 | 1878.2 | 1484.3 |
| 85° | 403.5 | 403.5 | 619.7 | 619.7 | 624.5 | 480.3 | 403.5 | 821.4 | 1013.5 | 946.3 | 696.5 |
| 87.5° | 129.7 | 134.5 | 187.3 | 196.9 | 312.2 | 216.2 | 196.9 | 307.4 | 480.3 | 422.7 | 249.8 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 | 5514.4 |
| 2.5° | 5629.7 | 5552.8 | 5519.2 | 5408.7 | 5379.9 | 5307.9 | 5274.2 | 5231.0 | 5216.6 | 5154.1 | 5211.8 |
| 5° | 5672.9 | 5648.9 | 5514.4 | 5375.1 | 5269.4 | 5221.4 | 5149.3 | 5053.3 | 5043.7 | 4957.2 | 4947.6 |
| 7.5° | 5855.5 | 5773.8 | 5538.4 | 5389.5 | 5178.2 | 5058.1 | 4899.6 | 4851.5 | 4789.1 | 4760.3 | 4822.7 |
| 10° | 6138.9 | 5932.3 | 5581.7 | 5207.0 | 4947.6 | 4803.5 | 4688.2 | 4654.6 | 4659.4 | 4640.2 | 4611.3 |
| 12.5° | 6340.6 | 6143.7 | 5509.6 | 5053.3 | 4717.0 | 4577.7 | 4568.1 | 4601.7 | 4654.6 | 4630.6 | 4664.2 |
| 15° | 6628.8 | 6258.9 | 5456.8 | 4798.7 | 4529.7 | 4491.3 | 4486.5 | 4587.3 | 4582.5 | 4582.5 | 4577.7 |
| 17.5° | 6897.8 | 6374.2 | 5264.6 | 4577.7 | 4332.7 | 4361.6 | 4395.2 | 4390.4 | 4438.4 | 4457.6 | 4491.3 |
| 20° | 7238.9 | 6508.7 | 4995.6 | 4356.8 | 4183.8 | 4174.2 | 4169.4 | 4174.2 | 4222.3 | 4251.1 | 4227.1 |
| 22.5° | 7536.7 | 6537.5 | 4769.9 | 4145.4 | 4006.1 | 3967.7 | 3905.2 | 3967.7 | 3943.7 | 3953.3 | 3982.1 |
| 25° | 7796.1 | 6542.4 | 4448.0 | 3986.9 | 3828.4 | 3741.9 | 3693.9 | 3689.1 | 3645.8 | 3641.0 | 3641.0 |
| 27.5° | 8012.2 | 6379.0 | 4164.6 | 3765.9 | 3617.0 | 3535.4 | 3530.6 | 3477.7 | 3367.2 | 3295.2 | 3304.8 |
| 30° | 8180.3 | 6254.1 | 3967.7 | 3573.8 | 3429.7 | 3415.3 | 3372.0 | 3252.0 | 3107.9 | 3016.6 | 3016.6 |
| 32.5° | 8478.2 | 6004.4 | 3698.7 | 3376.9 | 3304.8 | 3285.6 | 3184.7 | 3079.0 | 2944.5 | 2858.1 | 2843.7 |
| 35° | 8699.1 | 5773.8 | 3521.0 | 3208.7 | 3175.1 | 3136.7 | 3050.2 | 2934.9 | 2896.5 | 2877.3 | 2891.7 |
| 37.5° | 8948.9 | 5514.4 | 3304.8 | 3064.6 | 3098.3 | 3026.2 | 2925.3 | 2872.5 | 3007.0 | 2973.4 | 2987.8 |
| 40° | 9347.6 | 5331.9 | 3093.4 | 2978.2 | 3011.8 | 2930.1 | 2800.4 | 2781.2 | 2949.3 | 2829.3 | 2800.4 |
| 42.5° | 10077.7 | 5327.1 | 2963.8 | 2848.5 | 2872.5 | 2810.0 | 2694.8 | 2685.2 | 2752.4 | 2608.3 | 2565.1 |
| 45° | 10985.6 | 5495.2 | 2867.7 | 2752.4 | 2733.2 | 2723.6 | 2685.2 | 2641.9 | 2584.3 | 2396.9 | 2348.9 |
| 47.5° | 12071.2 | 5769.0 | 2848.5 | 2608.3 | 2632.3 | 2714.0 | 2665.9 | 2555.5 | 2406.5 | 2286.5 | 2262.4 |
| 50° | 13387.3 | 6335.8 | 2800.4 | 2502.6 | 2545.8 | 2675.5 | 2637.1 | 2483.4 | 2348.9 | 2272.1 | 2257.6 |
| 52.5° | 14842.8 | 7051.5 | 2738.0 | 2339.3 | 2435.4 | 2641.9 | 2661.1 | 2517.0 | 2320.1 | 2252.8 | 2243.2 |
| 55° | 16557.6 | 8108.3 | 2665.9 | 2161.6 | 2305.7 | 2608.3 | 2661.1 | 2421.0 | 2281.7 | 2281.7 | 2272.1 |
| 57.5° | 19944.1 | 10010.5 | 2517.0 | 1998.3 | 2190.4 | 2545.8 | 2584.3 | 2425.8 | 2286.5 | 2286.5 | 2267.2 |
| 60° | 24910.9 | 12979.0 | 2233.6 | 1873.4 | 2079.9 | 2459.4 | 2526.6 | 2353.7 | 2233.6 | 2262.4 | 2257.6 |
| 62.5° | 28796.9 | 13882.1 | 1993.4 | 1753.3 | 1969.4 | 2300.9 | 2449.8 | 2276.9 | 2171.2 | 2276.9 | 2286.5 |
| 65° | 29627.9 | 12969.4 | 1748.5 | 1623.6 | 1815.7 | 2147.2 | 2339.3 | 2166.4 | 2079.9 | 2286.5 | 2296.1 |
| 66° | 29330.1 | 12258.5 | 1662.0 | 1585.2 | 1748.5 | 2070.3 | 2272.1 | 2127.9 | 2031.9 | 2276.9 | 2281.7 |
| 67.5° | 28004.3 | 11192.1 | 1565.9 | 1503.5 | 1657.2 | 1959.8 | 2195.2 | 2075.1 | 1955.0 | 2248.0 | 2204.8 |
| 70° | 25122.2 | 9491.7 | 1402.6 | 1359.4 | 1527.5 | 1777.3 | 2017.5 | 1940.6 | 1834.9 | 2070.3 | 1993.4 |
| 72.5° | 19348.5 | 7584.7 | 1229.7 | 1234.5 | 1378.6 | 1590.0 | 1839.7 | 1786.9 | 1695.6 | 1815.7 | 1767.7 |
| 75° | 11783.0 | 4846.7 | 1071.2 | 1080.8 | 1200.9 | 1412.2 | 1671.6 | 1633.2 | 1522.7 | 1590.0 | 1565.9 |
| 77.5° | 5221.4 | 2401.7 | 903.1 | 922.3 | 1018.3 | 1244.1 | 1455.5 | 1393.0 | 1277.7 | 1292.1 | 1282.5 |
| 80° | 2027.1 | 1138.4 | 734.9 | 759.0 | 821.4 | 994.3 | 1205.7 | 1148.0 | 1047.2 | 1027.9 | 1018.3 |
| 82.5° | 975.1 | 634.1 | 566.8 | 576.4 | 600.4 | 792.6 | 1037.6 | 965.5 | 831.0 | 744.5 | 744.5 |
| 85° | 490.0 | 393.9 | 398.7 | 365.1 | 398.7 | 538.0 | 701.3 | 586.0 | 485.2 | 432.3 | 441.9 |
| 87.5° | 196.9 | 196.9 | 196.9 | 168.1 | 177.7 | 254.6 | 326.6 | 221.0 | 201.7 | 120.1 | 120.1 |
| 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)