

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: P481605

Luminaire Tested: **IFLD-S-SA6C-730-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481605
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

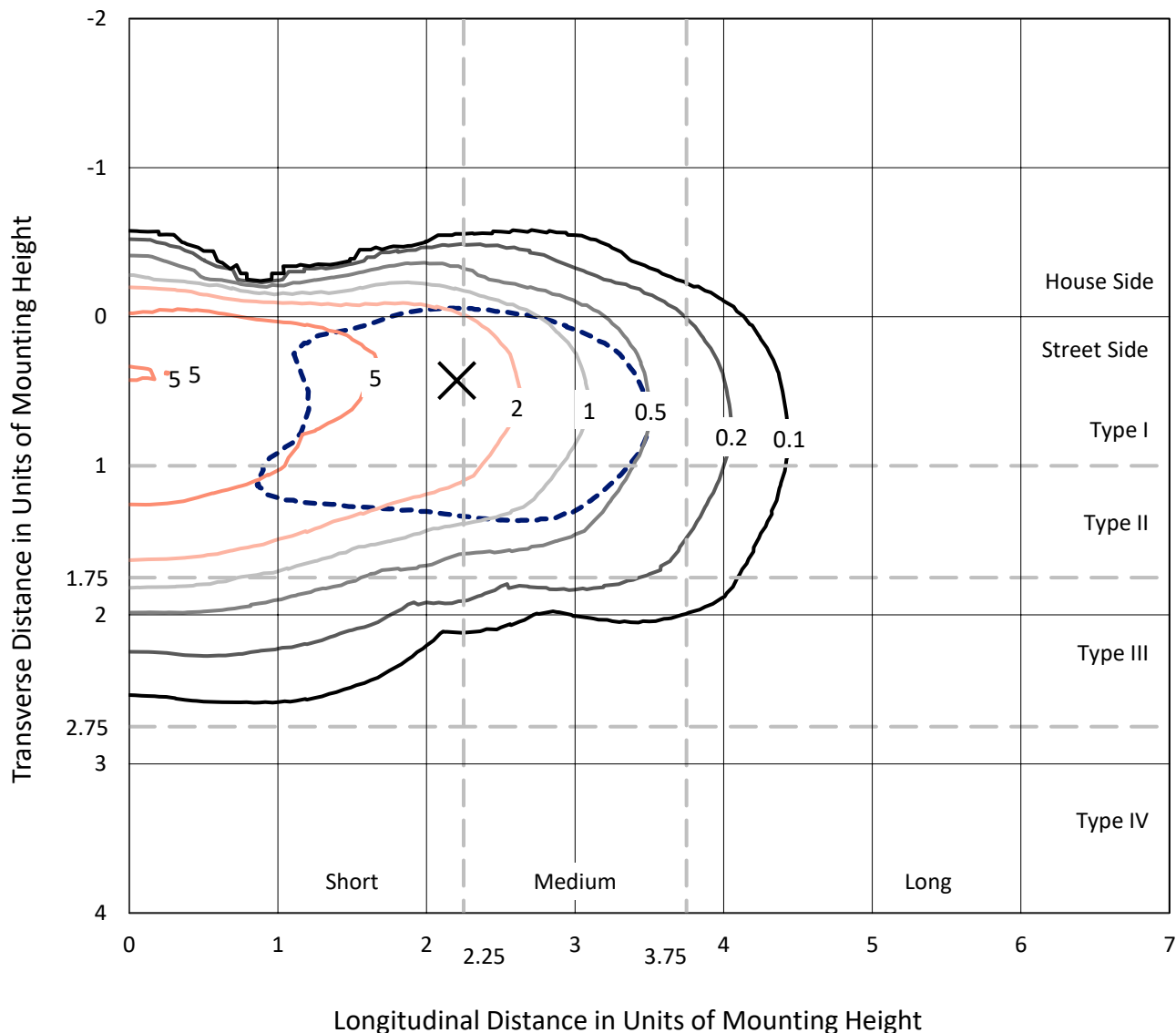
Lumens per Lamp: N/A
Luminaire Lumens: 27247.9 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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

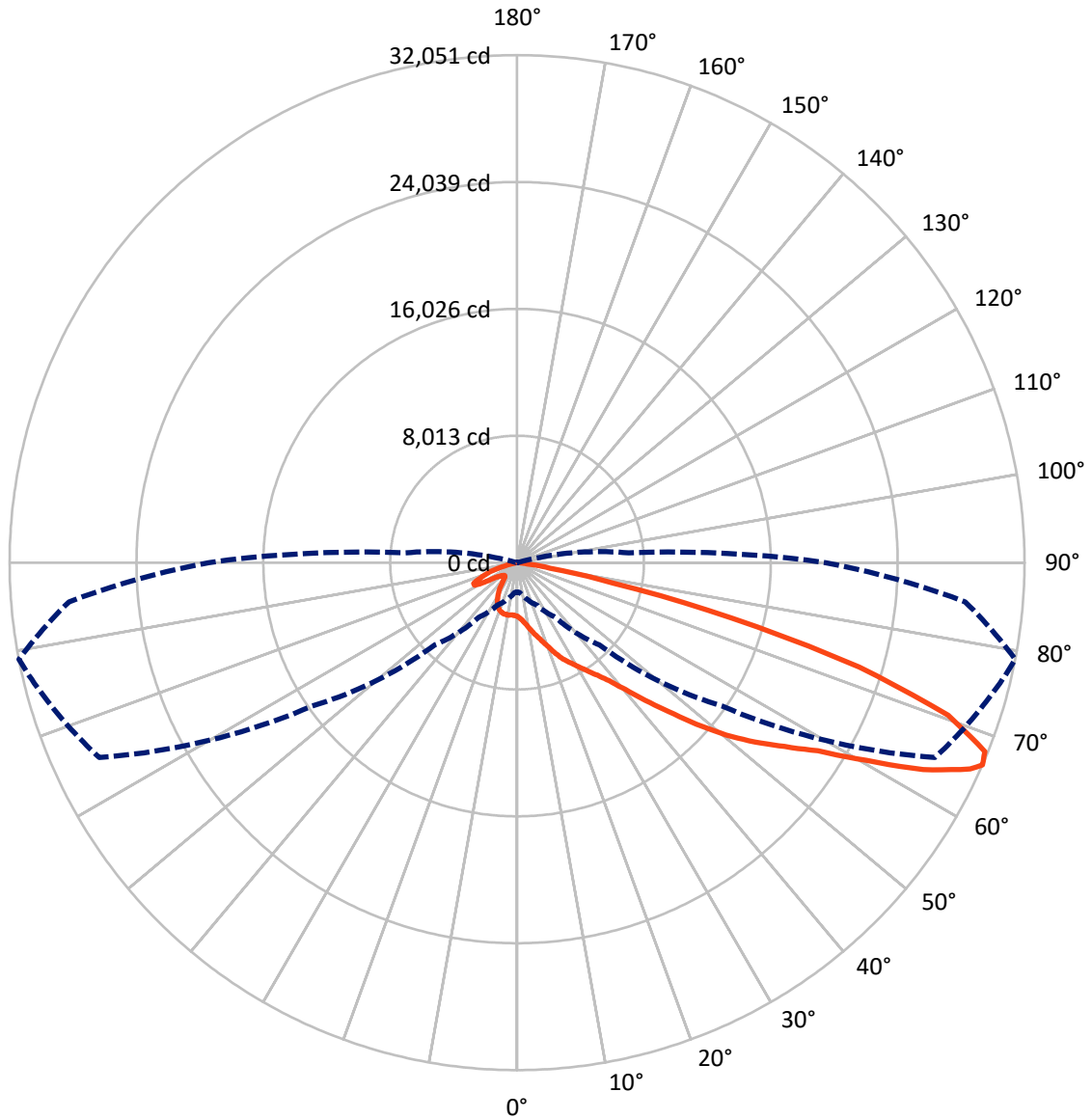
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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 | 2045.9 | 0.0 | 2045.9 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 25202.0 | 0.0 | 25202.0 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 27247.9 | 0.0 | 27247.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 320.6 | 1.2 |
| 10°-20° | 882.3 | 3.2 |
| 20°-30° | 1465.8 | 5.4 |
| 30°-40° | 2517.6 | 9.2 |
| 40°-50° | 4561.0 | 16.7 |
| 50°-60° | 7209.6 | 26.5 |
| 60°-70° | 7336.4 | 26.9 |
| 70°-80° | 2797.7 | 10.3 |
| 80°-90° | 156.8 | 0.6 |
| 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° | 27247.9 | 100.0 |
| 0°-180° | 27247.9 | 100.0 |

Coefficient of Utilization



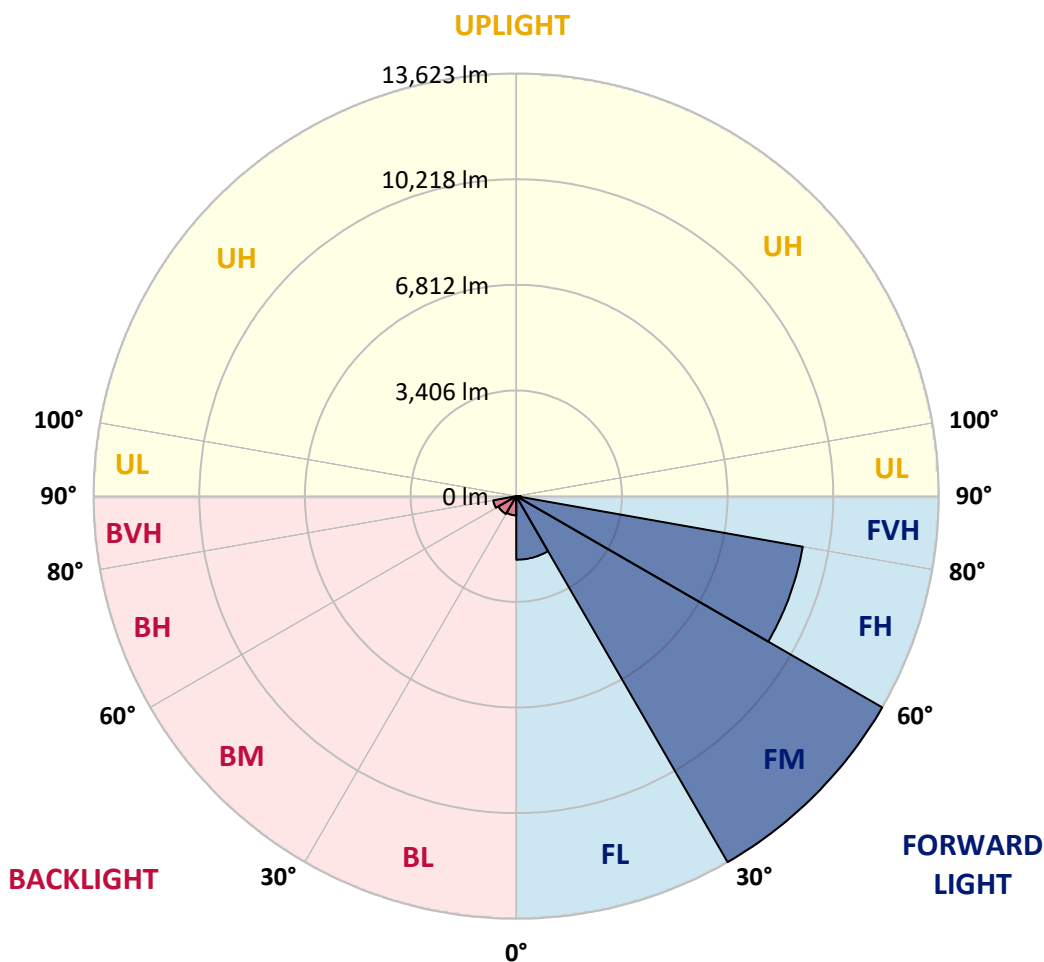
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2049.9 | 7.5 | | | |
| FM (30°-60°) | 13623.3 | 50.0 | | | |
| FH (60°-80°) | 9379.9 | 34.4 | | | G4/12000 |
| FVH (80°-90°) | 148.8 | 0.5 | | | G2/225 |
| BL (0°-30°) | 618.7 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 665.0 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 754.2 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 |
| 2.5° | 3839.4 | 3835.2 | 3818.4 | 3789.0 | 3751.2 | 3738.6 | 3684.0 | 3608.4 | 3566.4 | 3520.2 | 3499.2 |
| 5° | 4104.1 | 4083.1 | 4133.5 | 4112.5 | 4120.9 | 4020.1 | 3952.9 | 3898.3 | 3738.6 | 3675.6 | 3574.8 |
| 7.5° | 4162.9 | 4183.9 | 4179.7 | 4213.3 | 4246.9 | 4284.7 | 4238.5 | 4158.7 | 3999.1 | 3906.7 | 3797.4 |
| 10° | 4162.9 | 4154.5 | 4188.1 | 4234.3 | 4330.9 | 4414.9 | 4541.0 | 4435.9 | 4314.1 | 4204.9 | 4007.5 |
| 12.5° | 4087.3 | 4074.7 | 4108.3 | 4204.9 | 4377.1 | 4549.4 | 4688.0 | 4788.8 | 4616.6 | 4528.4 | 4272.1 |
| 15° | 3856.2 | 3843.6 | 3982.3 | 4154.5 | 4381.3 | 4662.8 | 4952.6 | 5116.5 | 4998.8 | 4860.2 | 4574.6 |
| 17.5° | 3570.6 | 3587.4 | 3734.4 | 4020.1 | 4381.3 | 4717.4 | 5087.1 | 5444.1 | 5427.3 | 5250.9 | 4952.6 |
| 20° | 3474.0 | 3486.6 | 3633.6 | 3839.4 | 4251.1 | 4755.2 | 5297.1 | 5801.2 | 5902.0 | 5692.0 | 5301.3 |
| 22.5° | 3658.8 | 3646.2 | 3658.8 | 3784.8 | 4162.9 | 4721.6 | 5435.7 | 6208.6 | 6389.3 | 6225.4 | 5759.2 |
| 25° | 4288.9 | 4280.5 | 4175.5 | 3982.3 | 4112.5 | 4646.0 | 5507.1 | 6477.5 | 6893.4 | 6742.1 | 6128.8 |
| 27.5° | 5213.1 | 5179.5 | 5015.6 | 4612.4 | 4347.7 | 4692.2 | 5624.7 | 6737.9 | 7334.4 | 7162.2 | 6460.7 |
| 30° | 6204.4 | 6124.6 | 5910.4 | 5406.3 | 4956.8 | 4864.4 | 5692.0 | 6931.2 | 7825.9 | 7607.5 | 6750.5 |
| 32.5° | 6889.2 | 6994.2 | 6927.0 | 6414.5 | 5725.6 | 5263.5 | 5801.2 | 7174.8 | 8279.6 | 8136.8 | 7246.2 |
| 35° | 7947.7 | 8069.6 | 7788.1 | 7334.4 | 6641.3 | 5897.8 | 6032.2 | 7372.2 | 8976.9 | 8737.5 | 7708.3 |
| 37.5° | 9283.6 | 9376.0 | 9174.3 | 8313.2 | 7582.3 | 6679.1 | 6506.9 | 7783.9 | 9577.6 | 9464.2 | 8300.6 |
| 40° | 9955.7 | 10400.9 | 10115.3 | 9338.2 | 8552.6 | 7771.3 | 7292.4 | 8267.0 | 10623.6 | 10531.2 | 9119.7 |
| 42.5° | 10884.0 | 11106.7 | 10959.6 | 10384.1 | 9565.0 | 8939.1 | 8262.8 | 9207.9 | 11892.2 | 11892.2 | 10228.7 |
| 45° | 11867.0 | 11875.4 | 11867.0 | 11396.5 | 10669.8 | 10346.3 | 9573.4 | 10388.3 | 13257.4 | 13408.7 | 11556.1 |
| 47.5° | 12673.5 | 12925.6 | 12904.6 | 12623.1 | 12060.2 | 11938.4 | 10884.0 | 11732.6 | 14971.3 | 15236.0 | 12850.0 |
| 50° | 13089.4 | 13370.8 | 13454.9 | 13601.9 | 13576.7 | 13832.9 | 12316.5 | 13291.0 | 16450.0 | 17101.1 | 14513.4 |
| 52.5° | 12976.0 | 12997.0 | 13513.7 | 14093.4 | 15017.5 | 15735.8 | 14043.0 | 15059.5 | 18180.7 | 18823.4 | 15798.9 |
| 55° | 12047.6 | 11967.8 | 13030.6 | 13694.3 | 15605.6 | 16899.4 | 16433.2 | 17264.9 | 19529.1 | 20507.8 | 17126.3 |
| 57.5° | 10010.3 | 10031.3 | 11014.3 | 12362.7 | 15168.8 | 17361.5 | 18987.2 | 20146.6 | 21419.4 | 22406.6 | 18991.4 |
| 60° | 6910.2 | 6885.0 | 7985.5 | 9544.0 | 12602.1 | 16500.4 | 20457.4 | 23881.0 | 23948.2 | 25347.1 | 22339.4 |
| 62.5° | 3885.7 | 3894.1 | 4730.0 | 6061.6 | 8817.3 | 13484.3 | 20386.0 | 27846.5 | 27560.8 | 28787.4 | 26145.2 |
| 65° | 2201.2 | 2255.8 | 2831.3 | 3591.6 | 5280.3 | 9052.5 | 17533.7 | 29425.9 | 30345.9 | 31438.1 | 28455.6 |
| 66° | 1860.9 | 1898.7 | 2390.2 | 2965.7 | 4213.3 | 7342.8 | 15782.1 | 29119.3 | 31219.6 | 32051.4 | 28409.4 |
| 67.5° | 1440.8 | 1491.3 | 1902.9 | 2352.4 | 3091.7 | 5082.9 | 12702.9 | 27594.4 | 31379.3 | 31866.6 | 27607.0 |
| 70° | 987.2 | 1020.8 | 1335.8 | 1785.3 | 2113.0 | 2600.2 | 7594.9 | 22814.0 | 28472.4 | 28884.1 | 23994.4 |
| 72.5° | 693.1 | 709.9 | 936.8 | 1352.6 | 1625.7 | 1487.1 | 3768.0 | 16231.5 | 21789.1 | 22591.4 | 18663.7 |
| 75° | 499.9 | 516.7 | 642.7 | 970.4 | 1268.6 | 974.6 | 1726.5 | 10367.3 | 13362.4 | 13992.6 | 11241.1 |
| 77.5° | 361.3 | 382.3 | 436.9 | 625.9 | 920.0 | 684.7 | 848.5 | 5414.7 | 6301.1 | 6191.8 | 4835.0 |
| 80° | 218.4 | 239.4 | 323.5 | 403.3 | 672.1 | 483.1 | 466.3 | 2260.0 | 2234.8 | 2121.4 | 1520.7 |
| 82.5° | 100.8 | 117.6 | 172.2 | 273.0 | 470.5 | 336.1 | 222.6 | 806.5 | 705.7 | 646.9 | 428.5 |
| 85° | 29.4 | 37.8 | 100.8 | 205.8 | 239.4 | 163.8 | 134.4 | 277.2 | 289.8 | 247.8 | 142.8 |
| 87.5° | 0.0 | 4.2 | 46.2 | 50.4 | 71.4 | 54.6 | 50.4 | 71.4 | 134.4 | 109.2 | 46.2 |
| 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° | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 | 3390.0 |
| 2.5° | 3423.6 | 3394.2 | 3322.8 | 3213.5 | 3116.9 | 3066.5 | 2995.1 | 2932.1 | 2898.5 | 2894.3 | 2890.1 |
| 5° | 3507.6 | 3427.8 | 3255.5 | 3058.1 | 2911.1 | 2751.5 | 2642.2 | 2562.4 | 2486.8 | 2415.4 | 2457.4 |
| 7.5° | 3621.0 | 3495.0 | 3213.5 | 2957.3 | 2638.0 | 2432.2 | 2239.0 | 2125.6 | 2058.3 | 1995.3 | 1986.9 |
| 10° | 3797.4 | 3637.8 | 3184.1 | 2722.1 | 2356.6 | 2054.1 | 1856.7 | 1692.9 | 1600.5 | 1491.3 | 1533.3 |
| 12.5° | 4036.9 | 3751.2 | 3074.9 | 2507.8 | 2037.3 | 1718.1 | 1436.6 | 1172.0 | 1025.0 | 911.6 | 915.8 |
| 15° | 4276.3 | 3902.5 | 2974.1 | 2247.4 | 1747.5 | 1327.4 | 915.8 | 735.1 | 693.1 | 667.9 | 676.3 |
| 17.5° | 4511.6 | 4024.3 | 2818.7 | 1982.7 | 1415.6 | 844.3 | 667.9 | 630.1 | 609.1 | 583.9 | 583.9 |
| 20° | 4797.2 | 4104.1 | 2625.4 | 1739.1 | 974.6 | 625.9 | 571.3 | 546.1 | 512.5 | 478.9 | 483.1 |
| 22.5° | 5074.5 | 4171.3 | 2402.8 | 1428.2 | 655.3 | 541.9 | 478.9 | 445.3 | 415.9 | 382.3 | 382.3 |
| 25° | 5351.7 | 4192.3 | 2113.0 | 1025.0 | 529.3 | 432.7 | 373.9 | 327.7 | 298.3 | 268.8 | 273.0 |
| 27.5° | 5540.7 | 4062.1 | 1839.9 | 655.3 | 424.3 | 327.7 | 260.4 | 222.6 | 197.4 | 168.0 | 168.0 |
| 30° | 5649.9 | 3822.6 | 1545.9 | 462.1 | 319.3 | 222.6 | 155.4 | 117.6 | 92.4 | 71.4 | 67.2 |
| 32.5° | 5759.2 | 3629.4 | 1214.0 | 352.9 | 210.0 | 117.6 | 58.8 | 21.0 | 0.0 | 0.0 | 0.0 |
| 35° | 5977.6 | 3411.0 | 814.9 | 197.4 | 71.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 6116.2 | 3108.5 | 373.9 | 29.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 6464.9 | 2957.3 | 92.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 7032.0 | 2852.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 7653.7 | 2810.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 8481.2 | 2923.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 9355.0 | 3230.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 10312.7 | 3520.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 11148.7 | 3868.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 12686.1 | 4692.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 15446.0 | 6309.5 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 18554.5 | 7510.9 | 46.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 19692.9 | 7481.5 | 79.8 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 19491.3 | 7069.8 | 79.8 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 18445.3 | 6280.1 | 71.4 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 15840.9 | 5187.9 | 71.4 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 12077.0 | 4041.1 | 67.2 | 16.8 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 7288.2 | 2150.8 | 54.6 | 21.0 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2902.7 | 756.1 | 42.0 | 16.8 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 785.5 | 226.8 | 25.2 | 16.8 | 12.6 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 205.8 | 84.0 | 21.0 | 16.8 | 8.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 79.8 | 33.6 | 16.8 | 12.6 | 12.6 | 8.4 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.2 | 12.6 | 12.6 | 8.4 | 8.4 | 4.2 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)