

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: P214483

Luminaire Tested: **UFLD-L-C100-X-U-66-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29596)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-L-C100-X-U-66-7060
Description: NIGHT CONDOR LED FLOODLIGHT WIDE OPTIC
Light Source: (4) 5700K CCT, 70 CRI LEDS
CLU048-1312C4-40ALK3
Ballast/Driver: PHILLIPS
XI150C150V100CNF1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33300.7 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: (L: 0 ' x W: 0.92 ' x H: 0.67 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

Input Watts (W): 252
Input Voltage (V): NR
Input Current (A_{in}): 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: 28.75 FT

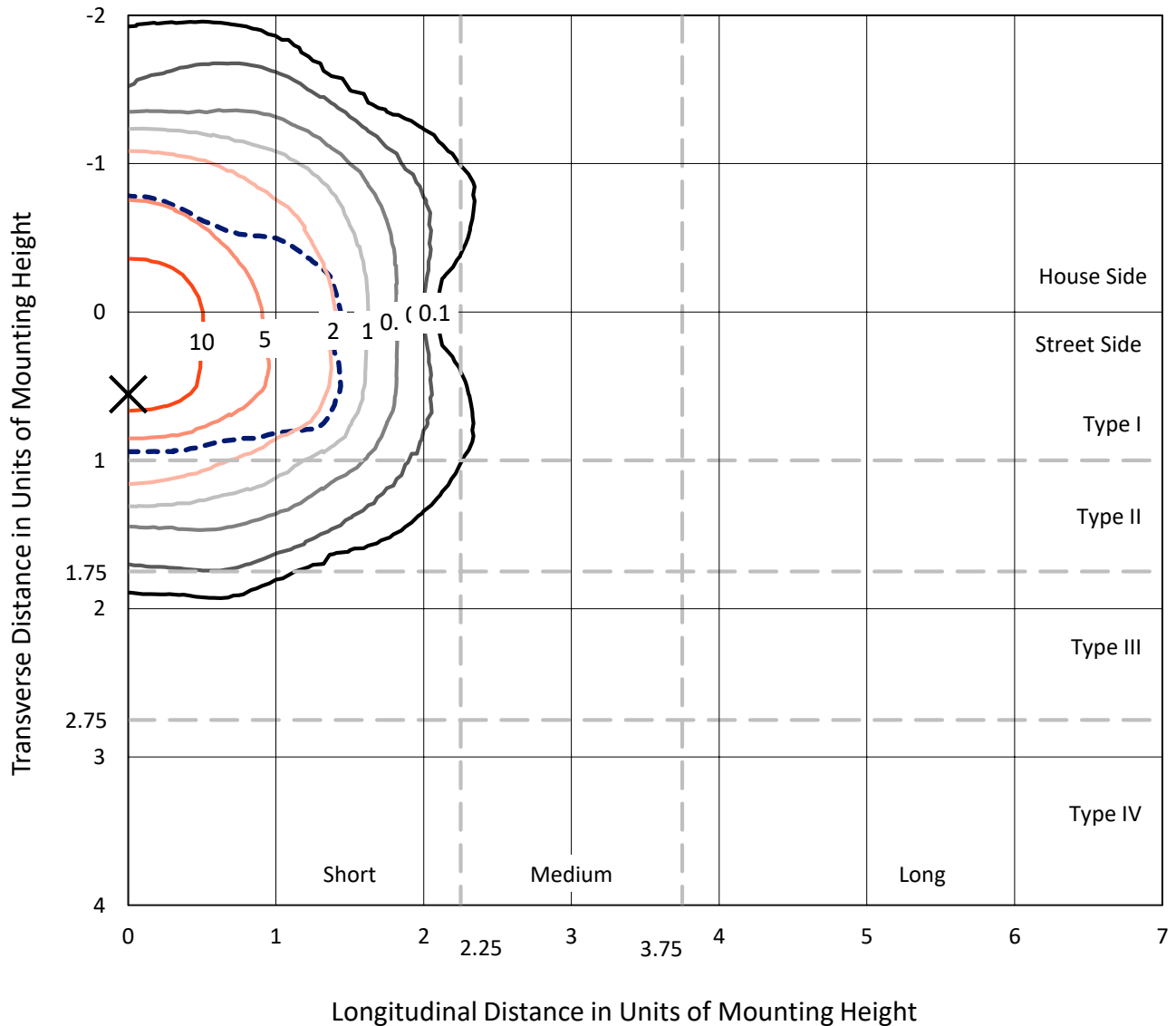


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

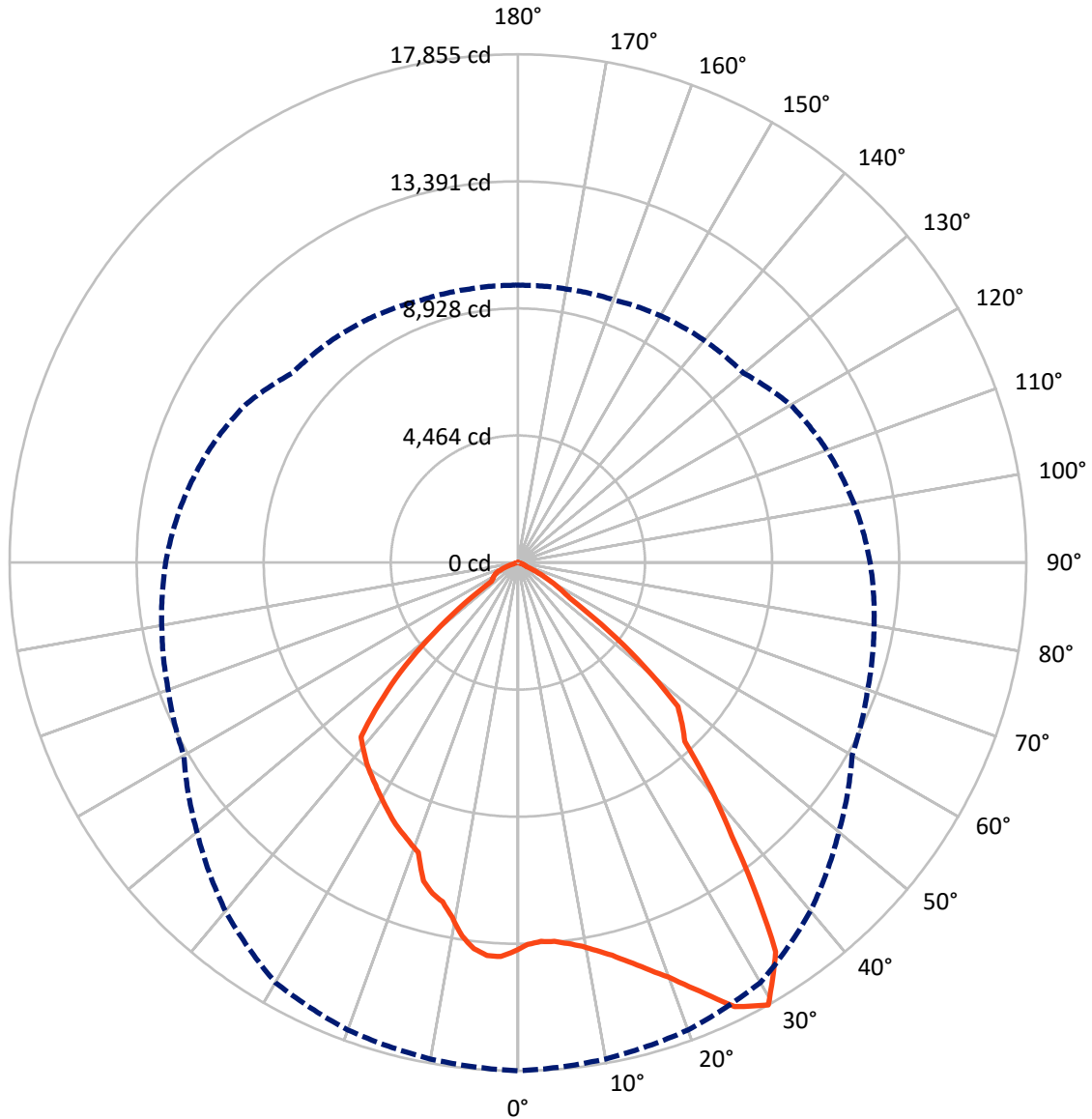


Based on 30 foot mounting height. Maximum calculated value = 15 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 29-Deg Vertical

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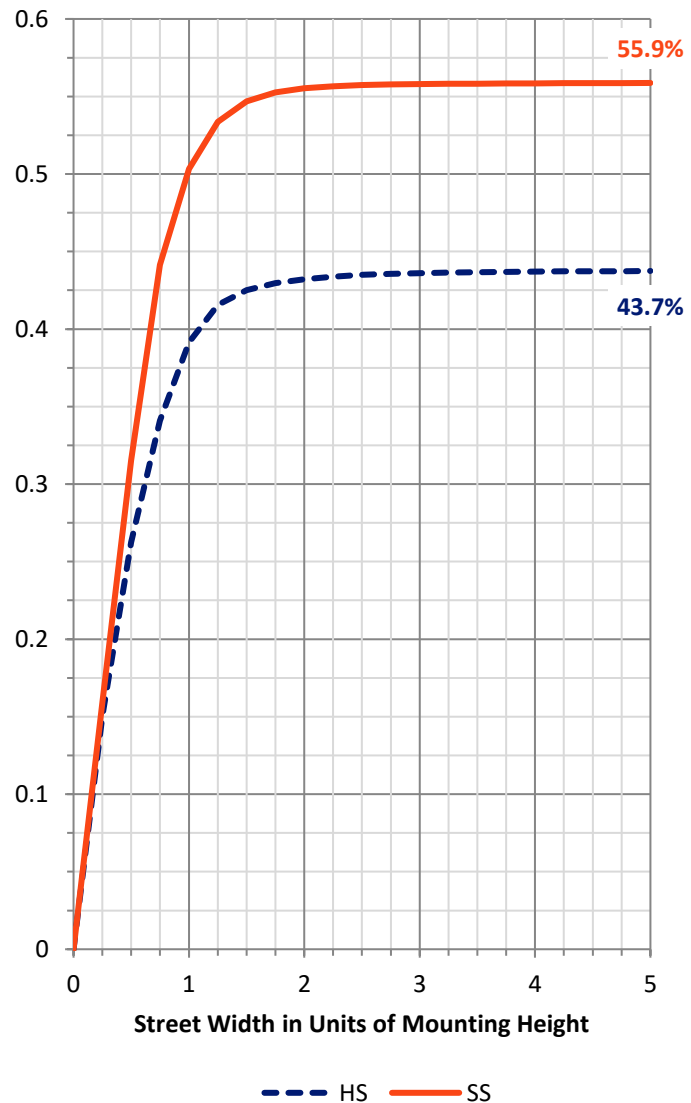
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14697.7 | 0.0 | 14697.7 |
| | % Fixture | 44.1 | 0.0 | 44.1 |
| Street Side | Lumens | 18603.0 | 0.0 | 18603.0 |
| | % Fixture | 55.9 | 0.0 | 55.9 |
| Total | Lumens | 33300.7 | 0.0 | 33300.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1294.4 | 3.9 |
| 10°-20° | 3764.4 | 11.3 |
| 20°-30° | 6045.9 | 18.2 |
| 30°-40° | 7497.1 | 22.5 |
| 40°-50° | 7381.5 | 22.2 |
| 50°-60° | 5157.5 | 15.5 |
| 60°-70° | 2134.6 | 6.4 |
| 70°-80° | 441.0 | 1.3 |
| 80°-90° | 60.4 | 0.2 |
| 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° | 33300.7 | 100.0 |
| 0°-180° | 33300.7 | 100.0 |

Coefficient of Utilization



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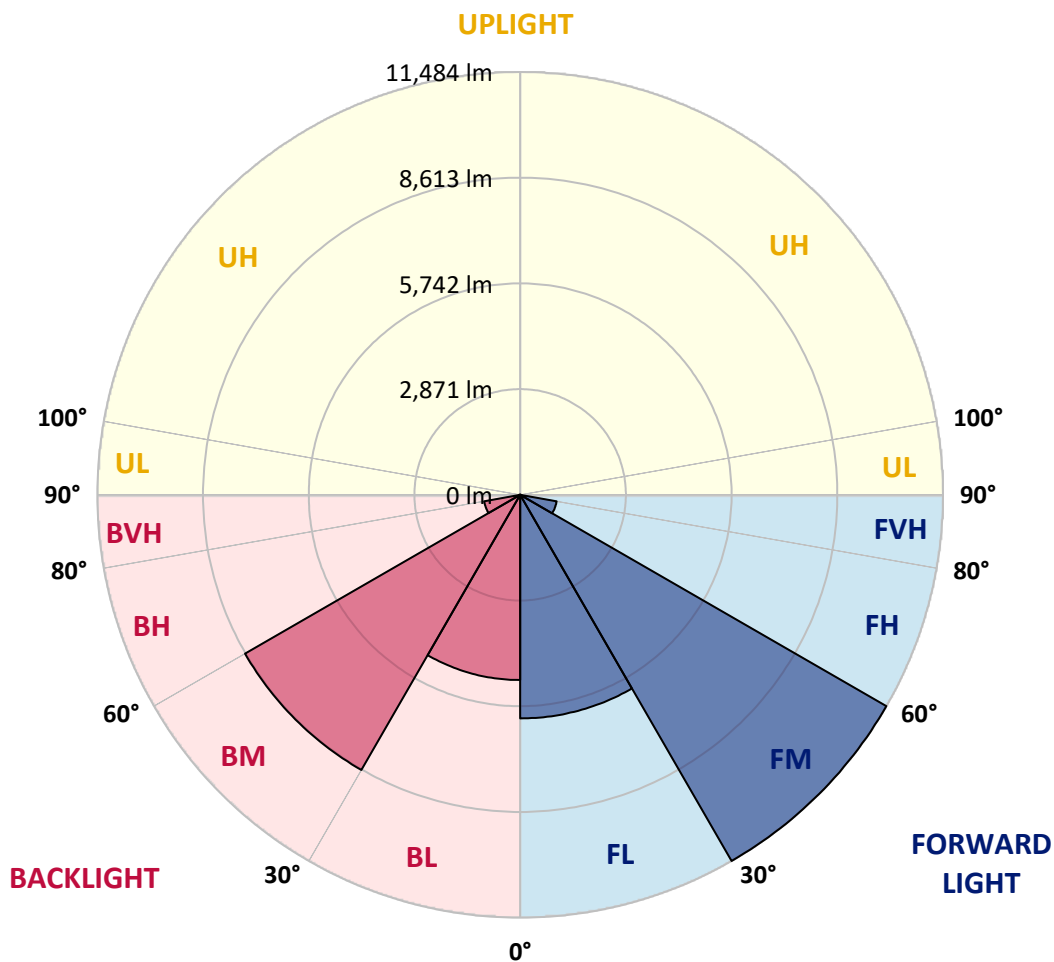
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6072.3 | 18.2 | | | |
| FM (30°-60°) | 11483.6 | 34.5 | | | |
| FH (60°-80°) | 1005.3 | 3.0 | | | G1/1800 |
| FVH (80°-90°) | 26.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 5028.9 | 15.1 | B5 | | |
| BM (30°-60°) | 8629.2 | 25.9 | B5 | | |
| BH (60°-80°) | 993.9 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 33.0 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 |
| 1° | 13414.3 | 13414.9 | 13419.2 | 13427.1 | 13438.2 | 13452.3 | 13469.0 | 13487.7 | 13507.8 | 13528.8 | 13548.1 |
| 3° | 13333.7 | 13338.5 | 13345.9 | 13357.3 | 13371.6 | 13388.4 | 13407.3 | 13427.7 | 13481.0 | 13536.5 | 13606.4 |
| 5° | 13370.6 | 13376.7 | 13373.0 | 13367.8 | 13364.0 | 13360.9 | 13384.3 | 13424.9 | 13476.5 | 13572.4 | 13664.1 |
| 7° | 13495.8 | 13489.3 | 13468.7 | 13437.5 | 13399.3 | 13376.1 | 13374.3 | 13415.3 | 13497.0 | 13616.1 | 13712.4 |
| 9° | 13667.5 | 13655.1 | 13617.9 | 13553.8 | 13468.0 | 13403.8 | 13374.2 | 13392.7 | 13501.3 | 13631.6 | 13716.1 |
| 11° | 13909.1 | 13895.6 | 13828.0 | 13700.6 | 13551.8 | 13444.0 | 13383.2 | 13396.3 | 13495.1 | 13611.2 | 13663.0 |
| 13° | 14190.5 | 14175.3 | 14078.0 | 13891.8 | 13685.6 | 13507.7 | 13399.7 | 13398.4 | 13513.1 | 13596.7 | 13595.2 |
| 15° | 14548.5 | 14519.8 | 14381.0 | 14113.7 | 13853.8 | 13605.9 | 13434.1 | 13421.8 | 13559.0 | 13581.2 | 13496.8 |
| 17° | 14947.3 | 14919.5 | 14731.4 | 14392.6 | 14044.2 | 13713.4 | 13476.9 | 13450.5 | 13587.5 | 13569.5 | 13375.9 |
| 19.5° | 15503.3 | 15465.8 | 15214.1 | 14821.2 | 14316.5 | 13876.1 | 13566.4 | 13482.9 | 13751.9 | 13952.8 | 13315.9 |
| 22.5° | 16350.4 | 16264.5 | 15916.2 | 15372.0 | 14746.2 | 14126.9 | 13677.2 | 13389.1 | 13382.1 | 13287.2 | 12840.3 |
| 25.5° | 17355.6 | 17195.8 | 16779.6 | 16095.3 | 15314.2 | 14446.3 | 13577.3 | 13183.2 | 13068.3 | 12840.8 | 12429.0 |
| 29° | 17855.3 | 17706.7 | 17471.7 | 17037.2 | 15983.5 | 14717.0 | 13552.9 | 13072.1 | 12704.5 | 12372.2 | 11982.7 |
| 33° | 16402.8 | 16423.0 | 16767.2 | 17343.6 | 16513.6 | 14947.6 | 13637.5 | 13024.2 | 12288.7 | 11626.0 | 11314.5 |
| 37.5° | 12200.4 | 12454.1 | 13537.6 | 15245.3 | 15892.1 | 15251.6 | 13809.2 | 13025.6 | 11943.5 | 11274.8 | 10760.3 |
| 42.5° | 8593.9 | 8862.5 | 9678.8 | 10830.4 | 12705.2 | 14371.7 | 14139.7 | 13106.6 | 11560.1 | 11061.3 | 10487.4 |
| 47.5° | 7562.4 | 7470.6 | 7649.1 | 7792.9 | 8915.0 | 11537.8 | 13895.3 | 12944.1 | 10860.7 | 10480.1 | 10210.8 |
| 55° | 2209.4 | 2601.7 | 3502.8 | 4411.3 | 5720.3 | 6587.3 | 10196.6 | 10157.0 | 8742.2 | 9245.9 | 8581.1 |
| 65° | 337.7 | 367.3 | 773.5 | 755.4 | 1105.4 | 1806.0 | 2245.1 | 2431.3 | 1601.0 | 406.6 | 1606.4 |
| 75° | 40.8 | 56.4 | 92.6 | 83.0 | 90.1 | 79.7 | 133.7 | 172.3 | 165.6 | 287.2 | 261.7 |
| 85° | 4.9 | 42.7 | 48.2 | 46.3 | 50.5 | 52.4 | 61.9 | 70.3 | 71.5 | 78.6 | 75.3 |
| 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):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 |
| 1° | 13567.2 | 13585.5 | 13602.7 | 13618.3 | 13631.7 | 13642.5 | 13650.4 | 13654.9 | 13650.4 | 13642.5 | 13631.7 |
| 3° | 13671.0 | 13711.8 | 13749.6 | 13783.6 | 13812.9 | 13836.1 | 13849.6 | 13852.8 | 13849.6 | 13836.1 | 13812.9 |
| 5° | 13734.2 | 13799.3 | 13841.3 | 13839.8 | 13838.8 | 13839.1 | 13841.3 | 13844.1 | 13841.3 | 13839.1 | 13838.8 |
| 7° | 13787.5 | 13815.6 | 13803.6 | 13770.9 | 13715.2 | 13677.7 | 13656.5 | 13651.0 | 13656.5 | 13677.7 | 13715.2 |
| 9° | 13780.6 | 13735.0 | 13648.1 | 13559.5 | 13443.1 | 13347.9 | 13295.3 | 13265.8 | 13295.3 | 13347.9 | 13443.1 |
| 11° | 13648.4 | 13537.5 | 13368.8 | 13170.2 | 13018.0 | 12851.3 | 12733.7 | 12673.0 | 12733.7 | 12851.3 | 13018.0 |
| 13° | 13490.0 | 13261.1 | 12992.7 | 12742.8 | 12528.1 | 12383.4 | 12265.4 | 12206.3 | 12265.4 | 12383.4 | 12528.1 |
| 15° | 13285.0 | 12955.1 | 12654.7 | 12394.4 | 12173.8 | 12075.1 | 12010.8 | 12001.5 | 12010.8 | 12075.1 | 12173.8 |
| 17° | 13039.0 | 12676.9 | 12382.3 | 12149.3 | 11975.9 | 11779.3 | 11673.8 | 11661.9 | 11673.8 | 11779.3 | 11975.9 |
| 19.5° | 12804.8 | 12450.1 | 12130.9 | 11891.6 | 11577.2 | 11106.9 | 10844.0 | 10763.4 | 10844.0 | 11106.9 | 11577.2 |
| 22.5° | 12515.9 | 12200.8 | 11833.0 | 11361.9 | 10742.7 | 10547.5 | 10458.8 | 10442.3 | 10458.8 | 10547.5 | 10742.7 |
| 25.5° | 12127.2 | 11740.0 | 11383.2 | 10656.6 | 10423.0 | 10253.0 | 10164.0 | 10152.1 | 10164.0 | 10253.0 | 10423.0 |
| 29° | 11550.1 | 11067.1 | 10349.7 | 10186.7 | 10012.5 | 9821.6 | 9757.8 | 9741.7 | 9757.8 | 9821.6 | 10012.5 |
| 33° | 10855.5 | 10251.9 | 9658.0 | 9590.5 | 9402.5 | 9310.2 | 9292.5 | 9289.6 | 9292.5 | 9310.2 | 9402.5 |
| 37.5° | 10209.7 | 9526.1 | 9132.8 | 8880.8 | 8811.8 | 8835.1 | 8839.2 | 8821.9 | 8839.2 | 8835.1 | 8811.8 |
| 42.5° | 9680.2 | 9027.1 | 8492.4 | 8221.1 | 8214.9 | 8191.0 | 8185.7 | 8235.8 | 8185.7 | 8191.0 | 8214.9 |
| 47.5° | 9291.1 | 8606.0 | 7799.4 | 7558.7 | 7189.8 | 6342.2 | 5768.6 | 5661.6 | 5768.6 | 6342.2 | 7189.8 |
| 55° | 7873.8 | 7825.2 | 6532.2 | 4975.2 | 3411.8 | 2237.6 | 1531.9 | 1134.3 | 1531.9 | 2237.6 | 3411.8 |
| 65° | 2415.4 | 1922.1 | 1176.5 | 906.2 | 1088.1 | 958.2 | 847.4 | 840.3 | 847.4 | 958.2 | 1088.1 |
| 75° | 333.4 | 250.0 | 250.8 | 175.0 | 227.5 | 185.7 | 117.6 | 89.3 | 117.6 | 185.7 | 227.5 |
| 85° | 67.1 | 60.9 | 59.0 | 52.3 | 44.6 | 44.1 | 32.4 | 0.0 | 32.4 | 44.1 | 44.6 |
| 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):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 | 13534.6 |
| 1° | 13618.3 | 13602.7 | 13585.5 | 13567.2 | 13548.1 | 13528.8 | 13507.8 | 13487.7 | 13469.0 | 13452.3 | 13438.2 |
| 3° | 13783.6 | 13749.6 | 13711.8 | 13671.0 | 13606.4 | 13536.5 | 13481.0 | 13427.7 | 13407.3 | 13388.4 | 13371.6 |
| 5° | 13839.8 | 13841.3 | 13799.3 | 13734.2 | 13664.1 | 13572.4 | 13476.5 | 13424.9 | 13384.3 | 13360.9 | 13364.0 |
| 7° | 13770.9 | 13803.6 | 13815.6 | 13787.5 | 13712.4 | 13616.1 | 13497.0 | 13415.3 | 13374.3 | 13376.1 | 13399.3 |
| 9° | 13559.5 | 13648.1 | 13735.0 | 13780.6 | 13716.1 | 13631.6 | 13501.3 | 13392.7 | 13374.2 | 13403.8 | 13468.0 |
| 11° | 13170.2 | 13368.8 | 13537.5 | 13648.4 | 13663.0 | 13611.2 | 13495.1 | 13396.3 | 13383.2 | 13444.0 | 13551.8 |
| 13° | 12742.8 | 12992.7 | 13261.1 | 13490.0 | 13595.2 | 13596.7 | 13513.1 | 13398.4 | 13399.7 | 13507.7 | 13685.6 |
| 15° | 12394.4 | 12654.7 | 12955.1 | 13285.0 | 13496.8 | 13581.2 | 13559.0 | 13421.8 | 13434.1 | 13605.9 | 13853.8 |
| 17° | 12149.3 | 12382.3 | 12676.9 | 13039.0 | 13375.9 | 13569.5 | 13587.5 | 13450.5 | 13476.9 | 13713.4 | 14044.2 |
| 19.5° | 11891.6 | 12130.9 | 12450.1 | 12804.8 | 13315.9 | 13952.8 | 13751.9 | 13482.9 | 13566.4 | 13876.1 | 14316.5 |
| 22.5° | 11361.9 | 11833.0 | 12200.8 | 12515.9 | 12840.3 | 13287.2 | 13382.1 | 13389.1 | 13677.2 | 14126.9 | 14746.2 |
| 25.5° | 10656.6 | 11383.2 | 11740.0 | 12127.2 | 12429.0 | 12840.8 | 13068.3 | 13183.2 | 13577.3 | 14446.3 | 15314.2 |
| 29° | 10186.7 | 10349.7 | 11067.1 | 11550.1 | 11982.7 | 12372.2 | 12704.5 | 13072.1 | 13552.9 | 14717.0 | 15983.5 |
| 33° | 9590.5 | 9658.0 | 10251.9 | 10855.5 | 11314.5 | 11626.0 | 12288.7 | 13024.2 | 13637.5 | 14947.6 | 16513.6 |
| 37.5° | 8880.8 | 9132.8 | 9526.1 | 10209.7 | 10760.3 | 11274.8 | 11943.5 | 13025.6 | 13809.2 | 15251.6 | 15892.1 |
| 42.5° | 8221.1 | 8492.4 | 9027.1 | 9680.2 | 10487.4 | 11061.3 | 11560.1 | 13106.6 | 14139.7 | 14371.7 | 12705.2 |
| 47.5° | 7558.7 | 7799.4 | 8606.0 | 9291.1 | 10210.8 | 10480.1 | 10860.7 | 12944.1 | 13895.3 | 11537.8 | 8915.0 |
| 55° | 4975.2 | 6532.2 | 7825.2 | 7873.8 | 8581.1 | 9245.9 | 8742.2 | 10157.0 | 10196.6 | 6587.3 | 5720.3 |
| 65° | 906.2 | 1176.5 | 1922.1 | 2415.4 | 1606.4 | 406.6 | 1601.0 | 2431.3 | 2245.1 | 1806.0 | 1105.4 |
| 75° | 175.0 | 250.8 | 250.0 | 333.4 | 261.7 | 287.2 | 165.6 | 172.3 | 133.7 | 79.7 | 90.1 |
| 85° | 52.3 | 59.0 | 60.9 | 67.1 | 75.3 | 78.6 | 71.5 | 70.3 | 61.9 | 52.4 | 50.5 |
| 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):

| | 330° | 340° | 350° | 360° |
|-------|---------|---------|---------|---------|
| 0° | 13534.6 | 13534.6 | 13534.6 | 13534.6 |
| 1° | 13427.1 | 13419.2 | 13414.9 | 13414.3 |
| 3° | 13357.3 | 13345.9 | 13338.5 | 13333.7 |
| 5° | 13367.8 | 13373.0 | 13376.7 | 13370.6 |
| 7° | 13437.5 | 13468.7 | 13489.3 | 13495.8 |
| 9° | 13553.8 | 13617.9 | 13655.1 | 13667.5 |
| 11° | 13700.6 | 13828.0 | 13895.6 | 13909.1 |
| 13° | 13891.8 | 14078.0 | 14175.3 | 14190.5 |
| 15° | 14113.7 | 14381.0 | 14519.8 | 14548.5 |
| 17° | 14392.6 | 14731.4 | 14919.5 | 14947.3 |
| 19.5° | 14821.2 | 15214.1 | 15465.8 | 15503.3 |
| 22.5° | 15372.0 | 15916.2 | 16264.5 | 16350.4 |
| 25.5° | 16095.3 | 16779.6 | 17195.8 | 17355.6 |
| 29° | 17037.2 | 17471.7 | 17706.7 | 17855.3 |
| 33° | 17343.6 | 16767.2 | 16423.0 | 16402.8 |
| 37.5° | 15245.3 | 13537.6 | 12454.1 | 12200.4 |
| 42.5° | 10830.4 | 9678.8 | 8862.5 | 8593.9 |
| 47.5° | 7792.9 | 7649.1 | 7470.6 | 7562.4 |
| 55° | 4411.3 | 3502.8 | 2601.7 | 2209.4 |
| 65° | 755.4 | 773.5 | 367.3 | 337.7 |
| 75° | 83.0 | 92.6 | 56.4 | 40.8 |
| 85° | 46.3 | 48.2 | 42.7 | 4.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)