

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: P324774

Luminaire Tested: **GAN-SA0C-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52192 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

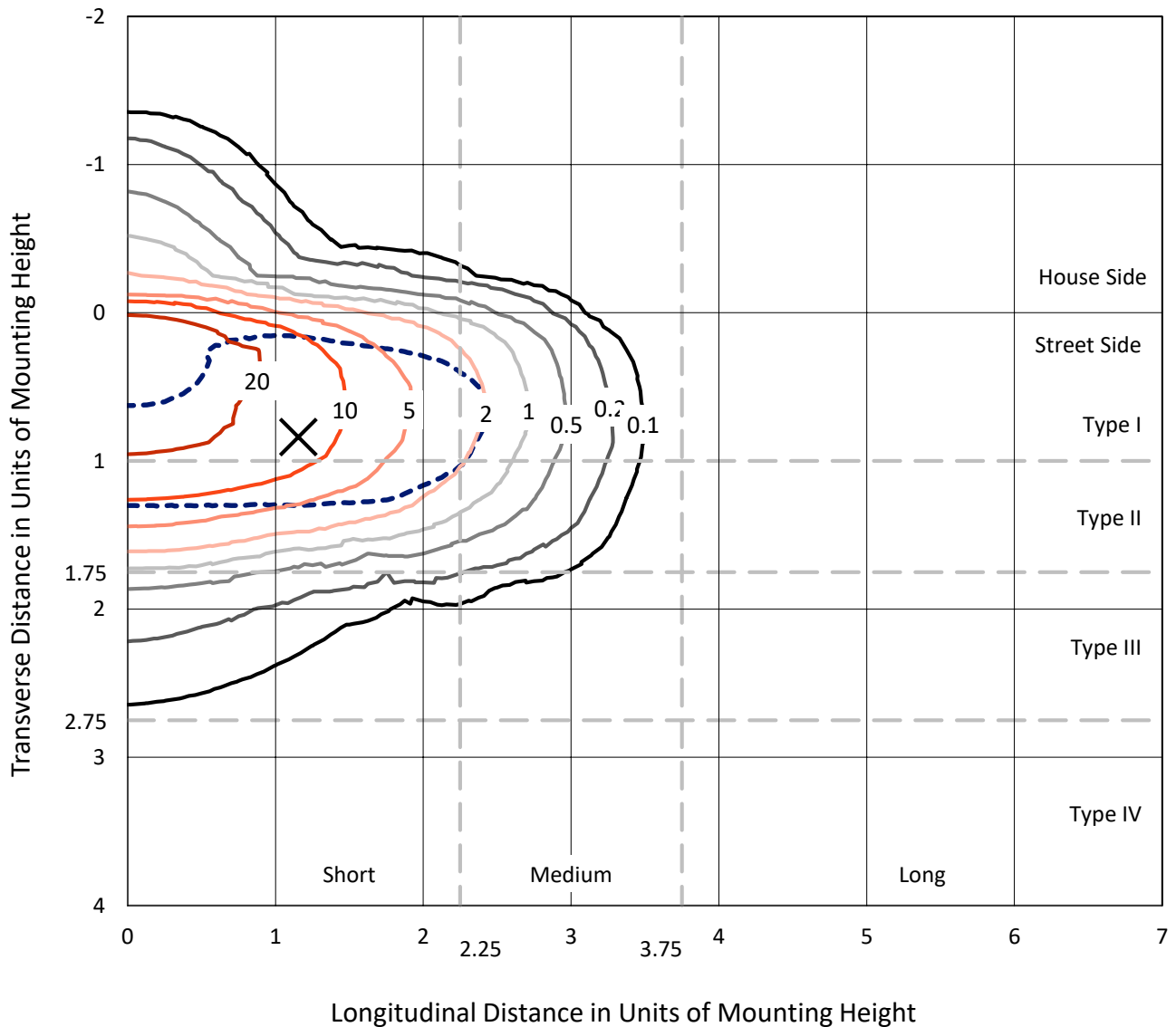
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

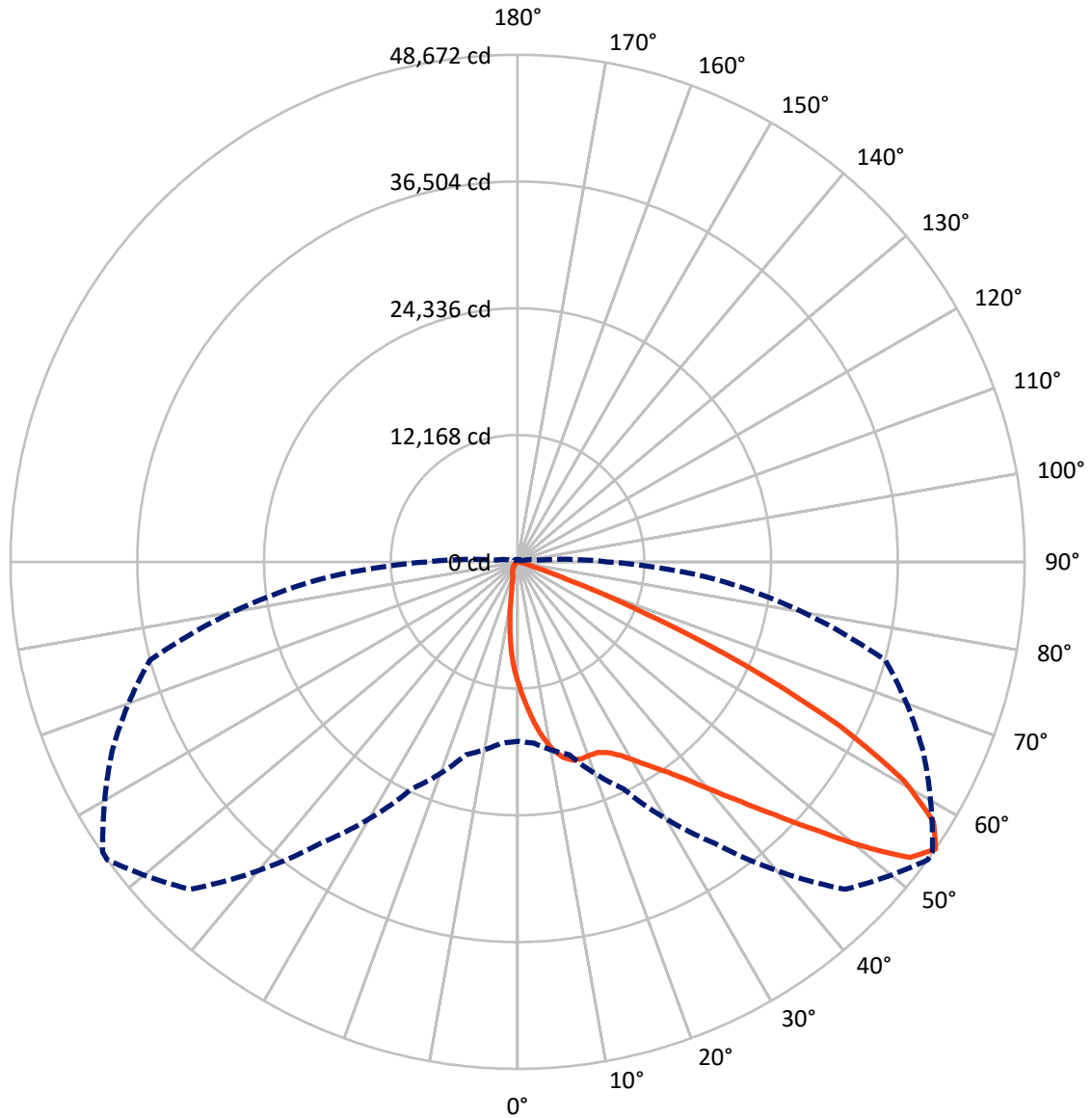
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2604.0 | 0.0 | 2604.0 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 49588.0 | 0.0 | 49588.0 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 52192.0 | 0.0 | 52192.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1076.4 | 2.1 |
| 10°-20° | 2952.1 | 5.7 |
| 20°-30° | 5040.2 | 9.7 |
| 30°-40° | 8088.7 | 15.5 |
| 40°-50° | 12925.8 | 24.8 |
| 50°-60° | 13850.3 | 26.5 |
| 60°-70° | 7111.2 | 13.6 |
| 70°-80° | 1077.2 | 2.1 |
| 80°-90° | 70.1 | 0.1 |
| 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° | 52192.0 | 100.0 |
| 0°-180° | 52192.0 | 100.0 |

Coefficient of Utilization

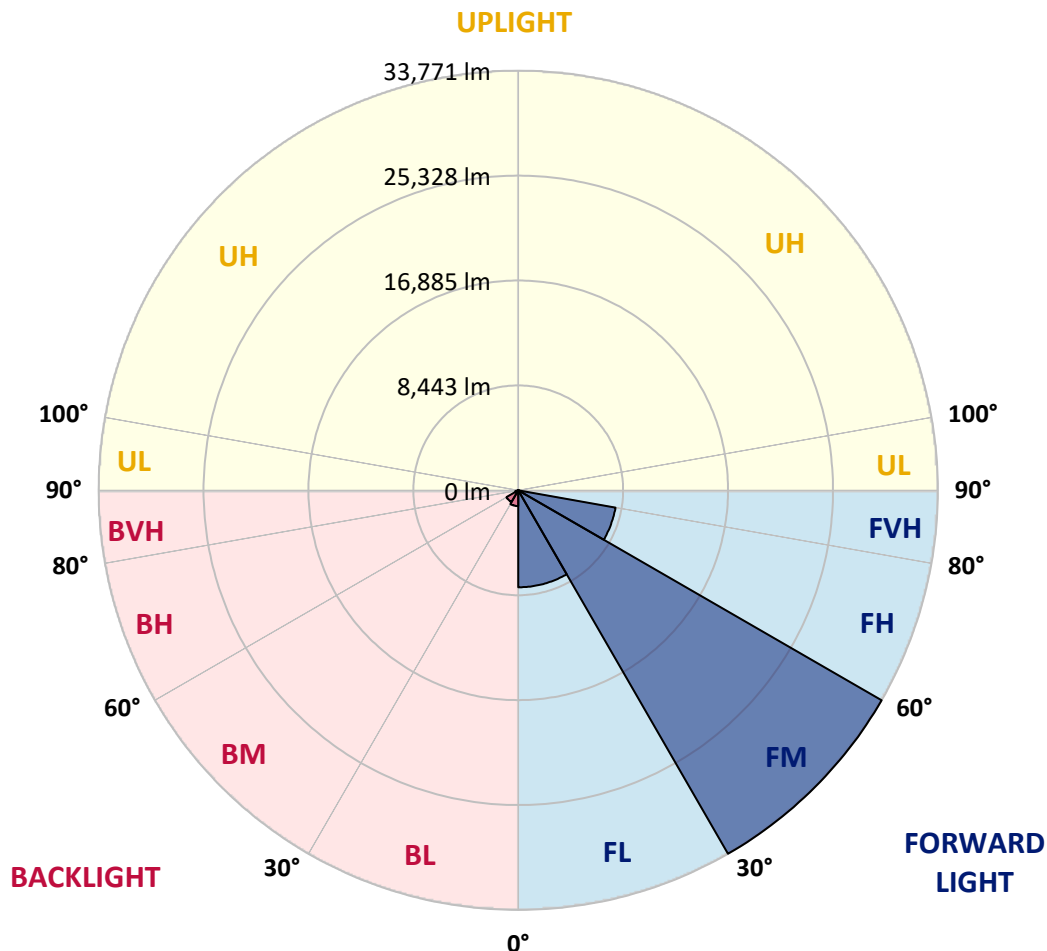


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 7801.8 | 14.9 | | | |
| FM (30°-60°) | 33770.5 | 64.7 | | | |
| FH (60°-80°) | 7948.4 | 15.2 | | | G4/12000 |
| FVH (80°-90°) | 67.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1266.9 | 2.4 | B3/2500 | | |
| BM (30°-60°) | 1094.3 | 2.1 | B2/2500 | | |
| BH (60°-80°) | 240.0 | 0.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 |
| 2.5° | 14668.6 | 14450.0 | 14456.7 | 14357.6 | 13994.7 | 13710.7 | 13415.4 | 13345.6 | 12885.8 | 12403.4 | 11939.1 |
| 5° | 17204.3 | 17044.3 | 17005.9 | 16814.4 | 16309.5 | 15775.3 | 15202.8 | 15069.8 | 14170.5 | 13183.3 | 12211.8 |
| 7.5° | 18507.1 | 18509.3 | 18477.8 | 18407.9 | 18092.3 | 17573.9 | 16875.2 | 16735.5 | 15511.6 | 14030.8 | 12495.8 |
| 10° | 18128.4 | 18214.1 | 18389.9 | 18622.0 | 18863.2 | 18797.8 | 18272.7 | 18146.4 | 16816.6 | 14927.8 | 12811.4 |
| 12.5° | 17244.9 | 17256.1 | 17452.2 | 17833.1 | 18527.4 | 19239.6 | 19248.6 | 19205.8 | 18063.0 | 15865.5 | 13158.5 |
| 15° | 16805.3 | 16848.2 | 16920.3 | 17166.0 | 17824.1 | 18964.6 | 19780.5 | 19841.4 | 19205.8 | 16861.7 | 13528.1 |
| 17.5° | 17093.9 | 17154.7 | 17093.9 | 17123.2 | 17504.1 | 18529.6 | 19873.0 | 20028.5 | 20204.3 | 17846.7 | 13877.5 |
| 20° | 17876.0 | 17932.3 | 17824.1 | 17704.7 | 17779.0 | 18403.4 | 19807.6 | 20017.2 | 20986.4 | 18721.2 | 14170.5 |
| 22.5° | 18930.8 | 18953.3 | 18788.8 | 18592.7 | 18538.6 | 18831.6 | 19861.7 | 20078.1 | 21613.0 | 19512.3 | 14355.3 |
| 25° | 20091.6 | 20111.9 | 19906.8 | 19681.4 | 19552.9 | 19672.4 | 20305.7 | 20468.0 | 22165.2 | 20267.4 | 14461.3 |
| 27.5° | 21356.0 | 21374.1 | 21117.1 | 20839.9 | 20691.1 | 20695.6 | 21038.2 | 21211.8 | 22753.5 | 21128.4 | 14546.9 |
| 30° | 22692.6 | 22683.6 | 22447.0 | 22061.5 | 21872.2 | 21867.7 | 22093.1 | 22268.9 | 23605.5 | 22232.8 | 14664.1 |
| 32.5° | 24193.8 | 24175.7 | 23839.9 | 23362.0 | 23147.9 | 23179.5 | 23380.1 | 23481.5 | 24662.6 | 23409.4 | 14873.7 |
| 35° | 26170.5 | 26118.6 | 25611.5 | 25018.7 | 24624.3 | 24613.0 | 24782.0 | 24863.2 | 26010.4 | 24833.9 | 15223.1 |
| 37.5° | 28735.4 | 28688.1 | 28000.6 | 27139.6 | 26585.2 | 26377.8 | 26578.4 | 26682.1 | 27933.0 | 26661.8 | 15784.3 |
| 40° | 31264.3 | 31217.0 | 30809.1 | 30020.2 | 29165.9 | 28667.8 | 28825.6 | 28936.0 | 30333.5 | 28879.7 | 16492.1 |
| 42.5° | 33008.9 | 33049.5 | 33191.5 | 33256.8 | 32456.7 | 31410.9 | 31483.0 | 31597.9 | 32855.6 | 31250.8 | 17301.2 |
| 45° | 33468.7 | 33556.6 | 34359.0 | 35934.5 | 36234.3 | 35418.4 | 34663.3 | 34726.4 | 35418.4 | 33622.0 | 18110.4 |
| 47.5° | 32087.0 | 32249.3 | 33797.8 | 36727.9 | 39265.8 | 39842.8 | 38413.8 | 38330.4 | 37877.4 | 35540.1 | 18685.1 |
| 50° | 28947.3 | 29096.1 | 31102.1 | 35436.4 | 40185.4 | 44066.7 | 42908.2 | 42662.5 | 40034.4 | 36687.3 | 18888.0 |
| 52.5° | 24403.4 | 24583.7 | 26213.3 | 31370.3 | 38452.2 | 45951.0 | 47163.6 | 46958.5 | 41616.7 | 36777.5 | 18921.8 |
| 55° | 17233.6 | 17452.2 | 19176.5 | 24042.7 | 32959.3 | 44452.1 | 48671.5 | 48610.6 | 42930.7 | 36538.6 | 18993.9 |
| 57.5° | 9685.2 | 9842.9 | 11702.4 | 15412.4 | 24139.7 | 38718.1 | 47096.0 | 47499.5 | 43724.1 | 36123.8 | 19102.1 |
| 60° | 4300.5 | 4343.3 | 5305.8 | 7672.4 | 14132.2 | 29589.7 | 42585.9 | 43266.6 | 43043.4 | 35569.4 | 19284.7 |
| 62.5° | 2384.7 | 2348.6 | 2348.6 | 3189.3 | 6142.0 | 18317.7 | 34726.4 | 35851.1 | 40138.1 | 34913.5 | 19293.7 |
| 65° | 1868.5 | 1834.7 | 1737.8 | 1751.3 | 2339.6 | 8129.9 | 24047.2 | 26046.5 | 34620.5 | 32990.9 | 18644.6 |
| 67.5° | 1584.5 | 1555.2 | 1458.3 | 1420.0 | 1453.8 | 2682.2 | 13212.6 | 15288.4 | 26269.6 | 27993.9 | 16149.5 |
| 70° | 1338.8 | 1318.6 | 1269.0 | 1221.6 | 1136.0 | 1325.3 | 5055.6 | 6466.5 | 16187.8 | 18622.0 | 11024.0 |
| 72.5° | 1077.4 | 1068.4 | 1086.4 | 1045.8 | 942.1 | 883.5 | 1728.8 | 2093.9 | 7271.2 | 8310.3 | 4541.7 |
| 75° | 928.6 | 924.1 | 933.1 | 892.6 | 775.4 | 615.3 | 879.0 | 960.2 | 2051.1 | 2033.1 | 919.6 |
| 77.5° | 604.1 | 610.8 | 773.1 | 755.1 | 667.2 | 410.2 | 455.3 | 491.4 | 622.1 | 466.6 | 279.5 |
| 80° | 385.4 | 380.9 | 392.2 | 626.6 | 599.5 | 313.3 | 227.6 | 238.9 | 299.8 | 229.9 | 135.2 |
| 82.5° | 234.4 | 229.9 | 256.9 | 293.0 | 302.0 | 218.6 | 139.7 | 142.0 | 187.1 | 148.8 | 72.1 |
| 85° | 20.3 | 27.0 | 155.5 | 144.3 | 103.7 | 67.6 | 67.6 | 72.1 | 99.2 | 87.9 | 40.6 |
| 87.5° | 0.0 | 0.0 | 27.0 | 40.6 | 22.5 | 24.8 | 24.8 | 27.0 | 38.3 | 38.3 | 20.3 |
| 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° | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 | 11688.9 |
| 2.5° | 11697.9 | 11463.5 | 10990.2 | 10534.9 | 10149.5 | 9777.6 | 9353.8 | 8934.6 | 8738.5 | 8659.6 | 8578.5 |
| 5° | 11718.2 | 11235.9 | 10259.9 | 9277.2 | 8258.4 | 7341.1 | 6559.0 | 5756.6 | 5355.4 | 5179.5 | 5098.4 |
| 7.5° | 11745.3 | 11010.5 | 9432.7 | 7782.8 | 6142.0 | 4897.8 | 3811.4 | 3112.7 | 2810.7 | 2763.3 | 2646.1 |
| 10° | 11749.8 | 10737.8 | 8472.5 | 6133.0 | 4117.9 | 2952.7 | 2272.0 | 1911.3 | 1778.4 | 1755.8 | 1717.5 |
| 12.5° | 11758.8 | 10415.4 | 7406.4 | 4541.7 | 2745.3 | 1974.4 | 1643.1 | 1523.7 | 1487.6 | 1485.3 | 1485.3 |
| 15° | 11785.8 | 10077.3 | 6299.8 | 3272.7 | 1972.2 | 1564.2 | 1442.5 | 1395.2 | 1381.7 | 1388.4 | 1386.2 |
| 17.5° | 11785.8 | 9678.4 | 5213.4 | 2438.8 | 1593.5 | 1406.5 | 1338.8 | 1307.3 | 1302.8 | 1309.5 | 1311.8 |
| 20° | 11700.2 | 9193.8 | 4217.1 | 1897.8 | 1413.2 | 1305.0 | 1244.2 | 1214.9 | 1203.6 | 1208.1 | 1210.4 |
| 22.5° | 11495.1 | 8598.8 | 3405.7 | 1571.0 | 1293.8 | 1212.6 | 1147.3 | 1102.2 | 1084.1 | 1086.4 | 1086.4 |
| 25° | 11175.0 | 7893.3 | 2664.2 | 1359.1 | 1196.8 | 1113.4 | 1036.8 | 985.0 | 973.7 | 971.4 | 976.0 |
| 27.5° | 10764.8 | 7113.4 | 2121.0 | 1196.8 | 1081.9 | 1003.0 | 926.4 | 883.5 | 874.5 | 876.8 | 879.0 |
| 30° | 10361.3 | 6304.3 | 1672.4 | 1059.4 | 953.4 | 879.0 | 820.4 | 800.1 | 800.1 | 806.9 | 809.2 |
| 32.5° | 9991.7 | 5526.7 | 1323.1 | 939.9 | 838.5 | 770.8 | 737.0 | 734.8 | 746.1 | 750.6 | 752.8 |
| 35° | 9673.9 | 4807.6 | 1095.4 | 847.5 | 748.3 | 689.7 | 678.4 | 687.5 | 701.0 | 710.0 | 712.2 |
| 37.5° | 9448.5 | 4165.3 | 957.9 | 770.8 | 678.4 | 631.1 | 628.8 | 646.9 | 664.9 | 685.2 | 689.7 |
| 40° | 9353.8 | 3622.1 | 863.3 | 703.2 | 622.1 | 586.0 | 579.3 | 604.1 | 637.9 | 667.2 | 671.7 |
| 42.5° | 9274.9 | 3178.1 | 782.1 | 637.9 | 577.0 | 525.2 | 522.9 | 554.5 | 595.0 | 624.3 | 631.1 |
| 45° | 9207.3 | 2821.9 | 707.7 | 568.0 | 518.4 | 450.8 | 457.5 | 498.1 | 529.7 | 561.2 | 568.0 |
| 47.5° | 9067.6 | 2528.9 | 626.6 | 493.6 | 428.2 | 385.4 | 398.9 | 435.0 | 459.8 | 507.1 | 513.9 |
| 50° | 8817.4 | 2290.0 | 543.2 | 403.5 | 349.4 | 333.6 | 353.9 | 378.7 | 410.2 | 450.8 | 455.3 |
| 52.5° | 8648.4 | 2109.7 | 471.1 | 338.1 | 288.5 | 293.0 | 313.3 | 322.3 | 340.3 | 356.1 | 351.6 |
| 55° | 8551.4 | 2010.5 | 412.5 | 293.0 | 245.7 | 259.2 | 263.7 | 252.4 | 243.4 | 227.6 | 220.9 |
| 57.5° | 8540.2 | 1920.4 | 367.4 | 254.7 | 216.4 | 223.1 | 207.4 | 169.0 | 137.5 | 119.5 | 115.0 |
| 60° | 8522.1 | 1809.9 | 331.3 | 214.1 | 191.6 | 182.6 | 148.8 | 92.4 | 65.4 | 60.9 | 60.9 |
| 62.5° | 8326.0 | 1638.6 | 304.3 | 180.3 | 162.3 | 137.5 | 85.6 | 42.8 | 36.1 | 38.3 | 38.3 |
| 65° | 7701.7 | 1399.7 | 277.2 | 146.5 | 128.5 | 99.2 | 42.8 | 24.8 | 13.5 | 15.8 | 15.8 |
| 67.5° | 6547.7 | 1115.7 | 247.9 | 112.7 | 96.9 | 63.1 | 24.8 | 11.3 | 0.0 | 0.0 | 0.0 |
| 70° | 4383.9 | 692.0 | 209.6 | 78.9 | 63.1 | 38.3 | 18.0 | 2.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1681.4 | 374.2 | 169.0 | 47.3 | 40.6 | 27.0 | 11.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 378.7 | 245.7 | 117.2 | 33.8 | 29.3 | 18.0 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 144.3 | 178.1 | 67.6 | 22.5 | 20.3 | 11.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 69.9 | 105.9 | 31.6 | 13.5 | 11.3 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 36.1 | 40.6 | 13.5 | 6.8 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 20.3 | 20.3 | 6.8 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.3 | 6.8 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 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)