

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: P480044

Luminaire Tested: **IFLD-S-SA6B-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480044
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

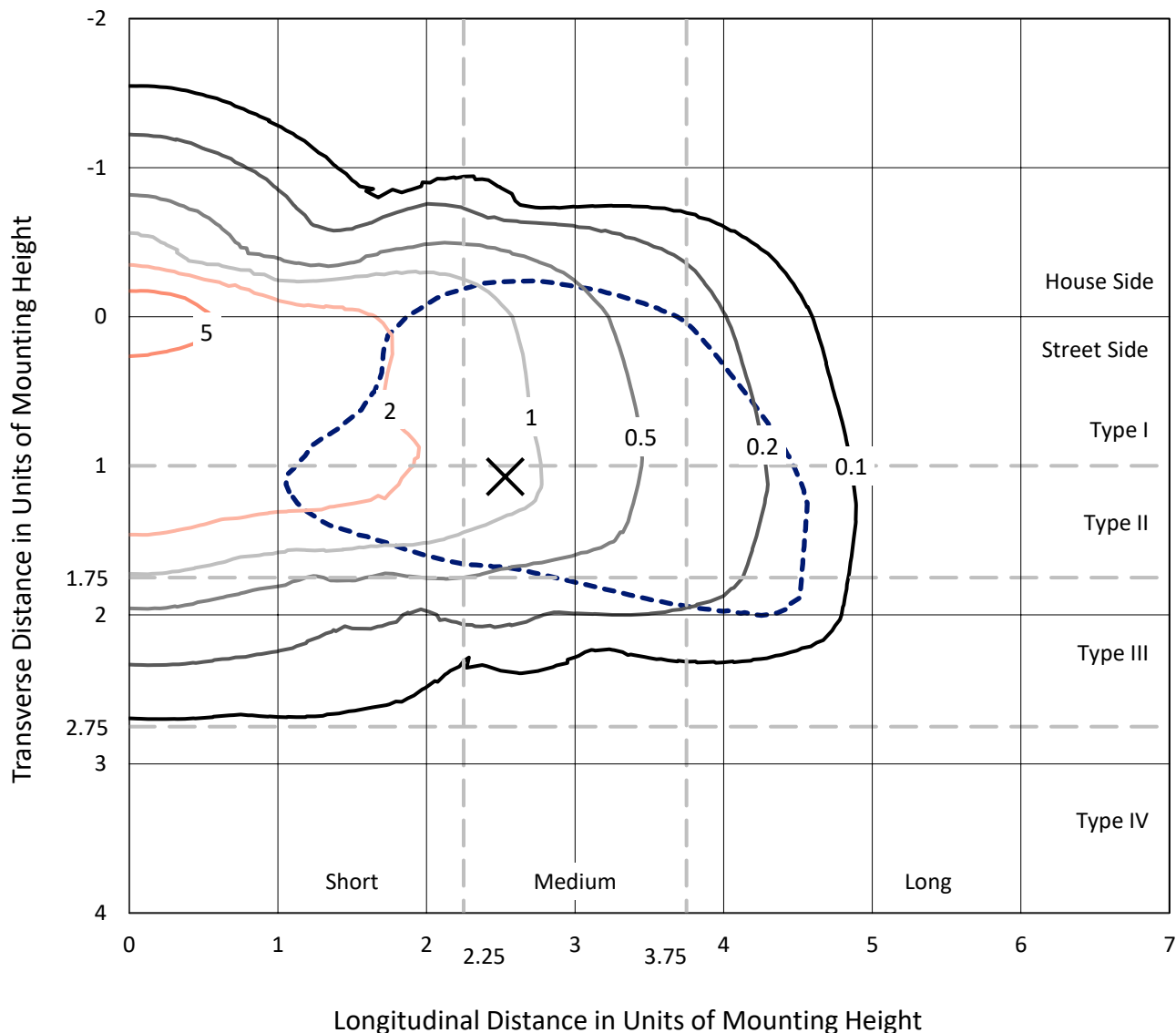
Lumens per Lamp: N/A
Luminaire Lumens: 30306.1 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9
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

REPORT NUMBER: P480044
 CATALOG NUMBER: IFLD-S-SA6B-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

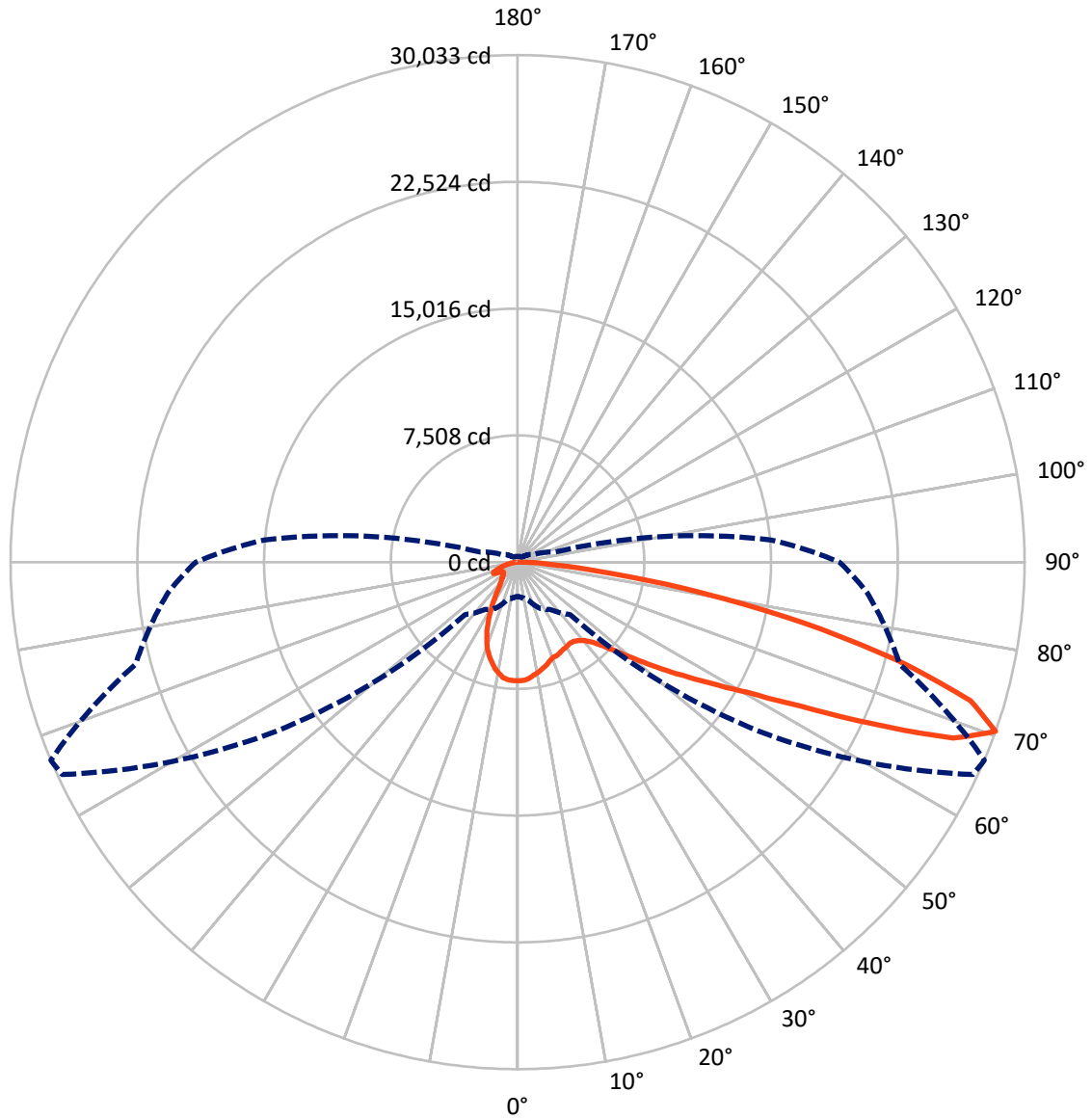
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P480044
CATALOG NUMBER: IFLD-S-SA6B-730-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P480044

CATALOG NUMBER: IFLD-S-SA6B-730-U-SL2

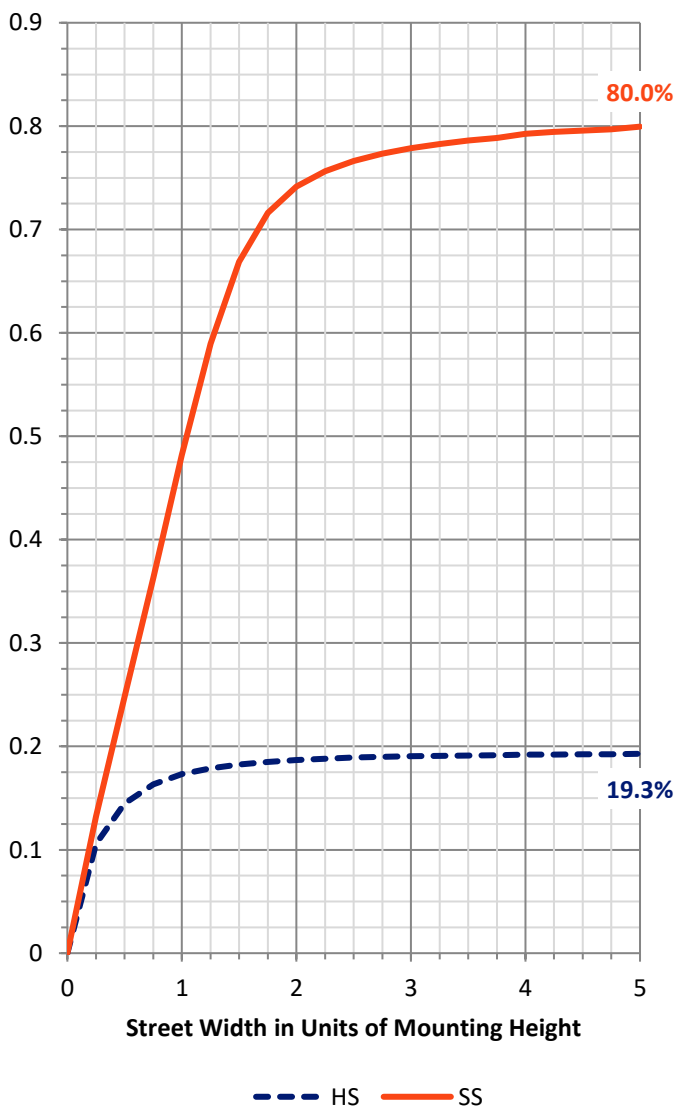
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5902.4 | 0.0 | 5902.4 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 24403.7 | 0.0 | 24403.7 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 30306.1 | 0.0 | 30306.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 612.1 | 2.0 |
| 10°-20° | 1466.1 | 4.8 |
| 20°-30° | 1979.8 | 6.5 |
| 30°-40° | 2649.2 | 8.7 |
| 40°-50° | 3895.5 | 12.9 |
| 50°-60° | 6072.1 | 20.0 |
| 60°-70° | 7479.9 | 24.7 |
| 70°-80° | 5285.2 | 17.4 |
| 80°-90° | 866.3 | 2.9 |
| 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° | 30306.1 | 100.0 |
| 0°-180° | 30306.1 | 100.0 |

Coefficient of Utilization

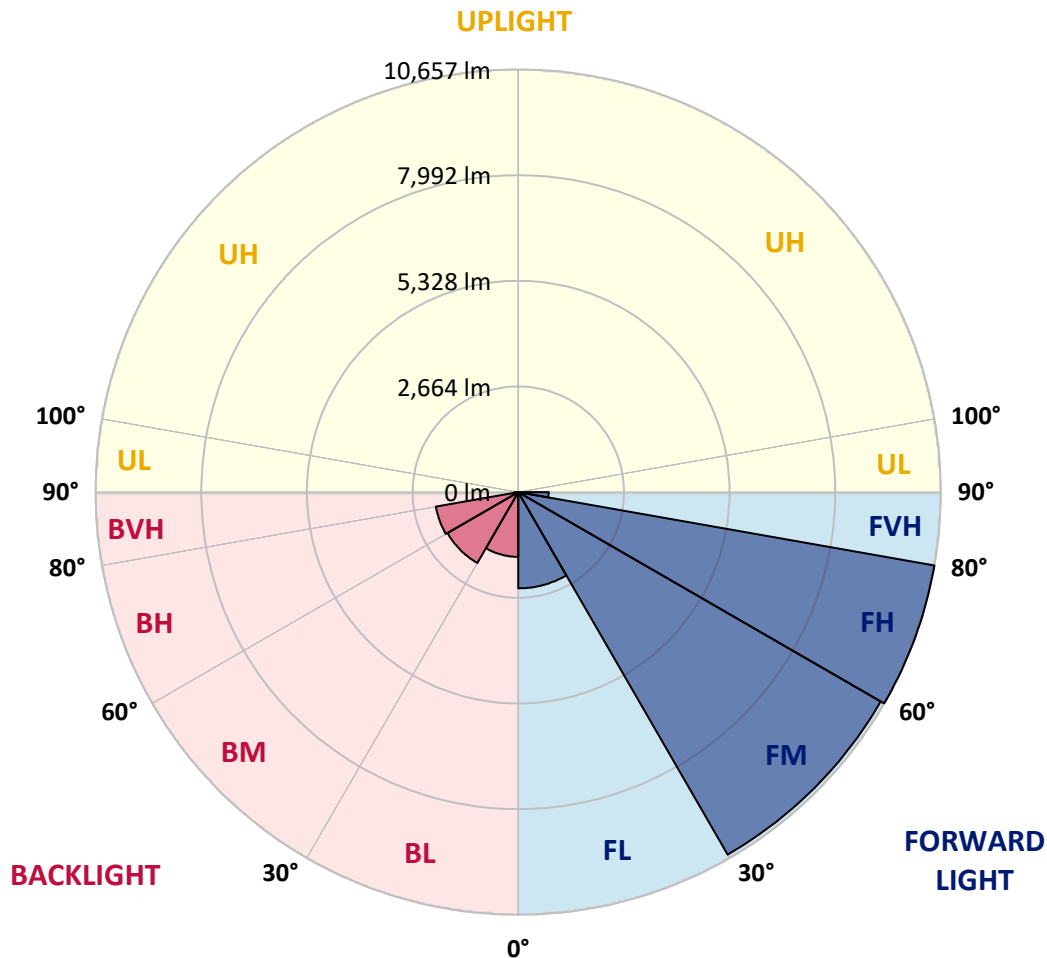


REPORT NUMBER: P480044
 CATALOG NUMBER: IFLD-S-SA6B-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2425.8 | 8.0 | | | |
| FM (30°-60°) | 10555.0 | 34.8 | | | |
| FH (60°-80°) | 10656.6 | 35.2 | | | G4/12000 |
| FVH (80°-90°) | 766.3 | 2.5 | | | G5 |
| BL (0°-30°) | 1632.2 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 2061.8 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 2108.4 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 99.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P480044

CATALOG NUMBER: IFLD-S-SA6B-730-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 |
| 2.5° | 6532.6 | 6606.4 | 6633.3 | 6673.5 | 6777.5 | 6854.7 | 6901.7 | 6955.4 | 7019.1 | 7072.8 | 7106.4 |
| 5° | 6076.3 | 6116.6 | 6180.3 | 6223.9 | 6354.8 | 6562.8 | 6703.7 | 6931.9 | 6925.2 | 7009.1 | 7136.6 |
| 7.5° | 5633.4 | 5673.7 | 5703.9 | 5791.1 | 5979.0 | 6166.9 | 6425.2 | 6794.3 | 6767.5 | 6962.1 | 7160.0 |
| 10° | 5358.3 | 5328.1 | 5338.2 | 5485.8 | 5633.4 | 5844.8 | 6170.3 | 6546.0 | 6643.3 | 6945.3 | 7227.1 |
| 12.5° | 5099.9 | 5066.4 | 5146.9 | 5240.9 | 5422.0 | 5613.3 | 6002.5 | 6341.4 | 6489.0 | 6884.9 | 7257.3 |
| 15° | 4938.9 | 4915.4 | 5016.1 | 5056.3 | 5271.1 | 5499.2 | 5774.3 | 6187.0 | 6348.1 | 6811.1 | 7210.4 |
| 17.5° | 4848.3 | 4868.4 | 4905.3 | 4992.6 | 5130.1 | 5324.7 | 5626.7 | 6083.0 | 6153.5 | 6720.5 | 7200.3 |
| 20° | 4865.1 | 4888.6 | 4891.9 | 4928.8 | 5022.8 | 5173.8 | 5482.4 | 5972.3 | 6019.3 | 6703.7 | 7227.1 |
| 22.5° | 4999.3 | 4965.7 | 4979.1 | 4955.7 | 4982.5 | 5099.9 | 5371.7 | 5824.7 | 6005.8 | 6562.8 | 7170.1 |
| 25° | 5200.6 | 5153.6 | 5146.9 | 5066.4 | 5016.1 | 5049.6 | 5351.6 | 5787.8 | 5905.2 | 6519.2 | 7166.8 |
| 27.5° | 5556.2 | 5485.8 | 5485.8 | 5365.0 | 5160.3 | 5106.6 | 5294.5 | 5727.4 | 5831.4 | 6478.9 | 7089.6 |
| 30° | 5898.5 | 5898.5 | 5901.8 | 5730.7 | 5502.6 | 5237.5 | 5318.0 | 5703.9 | 5771.0 | 6358.1 | 6985.6 |
| 32.5° | 6314.5 | 6304.5 | 6287.7 | 6203.8 | 5851.5 | 5455.6 | 5432.1 | 5673.7 | 5707.2 | 6317.9 | 6955.4 |
| 35° | 6720.5 | 6693.7 | 6824.5 | 6750.7 | 6391.7 | 5881.7 | 5549.5 | 5687.1 | 5760.9 | 6257.5 | 6861.4 |
| 37.5° | 7025.8 | 7042.6 | 7314.4 | 7361.4 | 7052.7 | 6364.9 | 5881.7 | 5821.3 | 5891.8 | 6344.7 | 6861.4 |
| 40° | 7421.7 | 7488.9 | 7743.8 | 7901.5 | 7713.7 | 7002.3 | 6408.5 | 6046.1 | 6096.4 | 6539.3 | 7009.1 |
| 42.5° | 7941.8 | 7998.8 | 8324.3 | 8529.0 | 8475.3 | 7814.3 | 6928.5 | 6515.8 | 6475.6 | 6864.8 | 7230.5 |
| 45° | 8629.6 | 8639.7 | 8968.5 | 9250.3 | 9361.1 | 8663.2 | 7753.9 | 7109.7 | 7076.2 | 7425.1 | 7636.5 |
| 47.5° | 9448.3 | 9438.2 | 9642.9 | 9944.9 | 10243.5 | 9676.5 | 8703.4 | 8012.3 | 7891.5 | 8227.0 | 8310.9 |
| 50° | 10240.1 | 10196.5 | 10243.5 | 10629.3 | 11203.1 | 10944.7 | 9857.6 | 9116.1 | 8995.3 | 9179.9 | 9324.2 |
| 52.5° | 10676.3 | 10730.0 | 10602.5 | 11112.5 | 12223.1 | 12444.5 | 11387.6 | 10434.7 | 10330.7 | 10421.3 | 10673.0 |
| 55° | 10371.0 | 10481.7 | 10397.8 | 10881.0 | 12669.3 | 14273.1 | 13367.2 | 11961.4 | 11827.2 | 11793.6 | 12206.3 |
| 57.5° | 9072.5 | 9273.8 | 9290.6 | 10055.6 | 12515.0 | 15689.0 | 16152.0 | 13763.1 | 13561.8 | 13219.6 | 13645.7 |
| 60° | 6965.4 | 7166.8 | 7321.1 | 8227.0 | 11193.0 | 16534.5 | 19379.8 | 16326.5 | 15662.2 | 14776.4 | 15031.4 |
| 62.5° | 4881.8 | 5019.4 | 5173.8 | 5730.7 | 8629.6 | 16038.0 | 22171.3 | 19936.7 | 18712.1 | 16417.1 | 16735.8 |
| 65° | 3556.5 | 3663.9 | 3821.6 | 4150.4 | 5301.2 | 13269.9 | 23466.4 | 24224.7 | 23063.8 | 18504.0 | 18463.8 |
| 67.5° | 2677.5 | 2744.6 | 2952.6 | 3479.4 | 3674.0 | 8196.8 | 22124.3 | 28754.2 | 27814.8 | 20822.5 | 19852.8 |
| 70° | 2026.6 | 2083.6 | 2278.2 | 2999.6 | 3432.4 | 4395.3 | 17453.9 | 29764.2 | 30032.6 | 23422.8 | 20785.6 |
| 72.5° | 1395.8 | 1459.5 | 1677.6 | 2499.6 | 3268.0 | 3486.1 | 10954.8 | 27039.7 | 28056.4 | 24493.1 | 19785.7 |
| 75° | 855.6 | 899.2 | 1026.7 | 1895.7 | 3244.5 | 3408.9 | 6029.3 | 22157.9 | 23234.9 | 22631.0 | 17309.6 |
| 77.5° | 603.9 | 600.6 | 624.1 | 1110.6 | 2811.7 | 3429.0 | 3717.6 | 16235.9 | 17282.7 | 16678.8 | 11746.6 |
| 80° | 439.5 | 442.9 | 466.4 | 664.3 | 1909.1 | 3486.1 | 2929.1 | 10874.3 | 11186.3 | 8696.7 | 4633.6 |
| 82.5° | 265.1 | 278.5 | 335.5 | 449.6 | 1147.5 | 3147.2 | 2707.7 | 6042.8 | 5653.5 | 2791.5 | 1275.0 |
| 85° | 140.9 | 140.9 | 198.0 | 285.2 | 610.7 | 2348.7 | 2607.0 | 2875.4 | 2409.0 | 865.6 | 473.1 |
| 87.5° | 33.6 | 33.6 | 57.0 | 114.1 | 244.9 | 1124.0 | 1778.3 | 1144.1 | 916.0 | 291.9 | 194.6 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 | 7015.8 |
| 2.5° | 7092.9 | 7052.7 | 7103.0 | 7002.3 | 6921.8 | 6925.2 | 6801.0 | 6794.3 | 6777.5 | 6690.3 | 6720.5 |
| 5° | 7173.5 | 7139.9 | 7082.9 | 6972.1 | 6794.3 | 6616.5 | 6509.1 | 6371.6 | 6314.5 | 6284.3 | 6297.7 |
| 7.5° | 7250.6 | 7190.2 | 7025.8 | 6871.5 | 6596.4 | 6260.8 | 6066.2 | 5881.7 | 5646.8 | 5620.0 | 5573.0 |
| 10° | 7270.8 | 7143.3 | 6931.9 | 6603.1 | 6237.4 | 5864.9 | 5422.0 | 5079.8 | 4898.6 | 4757.7 | 4704.0 |
| 12.5° | 7240.6 | 7186.9 | 6780.9 | 6358.1 | 5804.5 | 5220.7 | 4704.0 | 4220.9 | 3885.3 | 3710.9 | 3663.9 |
| 15° | 7237.2 | 7143.3 | 6613.1 | 5985.7 | 5277.8 | 4516.1 | 3781.3 | 3200.9 | 2848.6 | 2704.3 | 2704.3 |
| 17.5° | 7240.6 | 7015.8 | 6415.2 | 5609.9 | 4657.0 | 3627.0 | 2818.4 | 2341.9 | 2147.3 | 2127.2 | 2144.0 |
| 20° | 7173.5 | 6921.8 | 6207.2 | 5167.0 | 3878.6 | 2724.4 | 2046.7 | 1852.1 | 1852.1 | 1878.9 | 1889.0 |
| 22.5° | 7113.1 | 6780.9 | 5878.3 | 4620.1 | 3086.8 | 1972.9 | 1664.2 | 1607.2 | 1670.9 | 1717.9 | 1738.0 |
| 25° | 7029.2 | 6663.5 | 5542.8 | 4053.1 | 2348.7 | 1590.4 | 1446.1 | 1459.5 | 1519.9 | 1603.8 | 1597.1 |
| 27.5° | 6908.4 | 6458.8 | 5143.6 | 3395.5 | 1748.1 | 1372.3 | 1335.4 | 1342.1 | 1405.8 | 1442.7 | 1436.0 |
| 30° | 6770.8 | 6250.8 | 4774.5 | 2741.2 | 1385.7 | 1258.2 | 1254.9 | 1271.6 | 1281.7 | 1301.8 | 1298.5 |
| 32.5° | 6596.4 | 5975.6 | 4381.9 | 2130.6 | 1248.1 | 1194.5 | 1181.0 | 1171.0 | 1181.0 | 1177.7 | 1167.6 |
| 35° | 6472.2 | 5828.0 | 3982.6 | 1623.9 | 1171.0 | 1137.4 | 1127.4 | 1110.6 | 1097.2 | 1077.0 | 1073.7 |
| 37.5° | 6438.7 | 5680.4 | 3563.2 | 1325.3 | 1110.6 | 1093.8 | 1060.2 | 1030.1 | 1013.3 | 1003.2 | 996.5 |
| 40° | 6418.5 | 5583.1 | 3153.9 | 1164.3 | 1060.2 | 1043.5 | 1003.2 | 962.9 | 946.2 | 936.1 | 939.5 |
| 42.5° | 6489.0 | 5529.4 | 2737.9 | 1083.7 | 1016.6 | 986.4 | 942.8 | 895.8 | 892.5 | 885.8 | 895.8 |
| 45° | 6737.3 | 5596.5 | 2352.0 | 1026.7 | 973.0 | 922.7 | 865.6 | 842.2 | 838.8 | 832.1 | 838.8 |
| 47.5° | 7301.0 | 5764.3 | 2023.2 | 989.8 | 926.0 | 882.4 | 822.0 | 788.5 | 785.1 | 781.8 | 781.8 |
| 50° | 8079.4 | 6281.0 | 1748.1 | 946.2 | 895.8 | 835.5 | 778.4 | 741.5 | 734.8 | 721.4 | 721.4 |
| 52.5° | 9300.7 | 7150.0 | 1583.7 | 922.7 | 842.2 | 791.8 | 731.4 | 691.2 | 674.4 | 661.0 | 661.0 |
| 55° | 10676.3 | 8227.0 | 1553.5 | 882.4 | 785.1 | 738.1 | 684.5 | 644.2 | 627.4 | 610.7 | 603.9 |
| 57.5° | 12243.2 | 9653.0 | 1768.2 | 855.6 | 744.9 | 684.5 | 624.1 | 587.2 | 573.7 | 557.0 | 550.3 |
| 60° | 13702.7 | 11075.6 | 2435.9 | 815.3 | 708.0 | 634.1 | 573.7 | 536.8 | 520.1 | 503.3 | 503.3 |
| 62.5° | 15390.4 | 12837.1 | 3566.6 | 815.3 | 674.4 | 580.5 | 520.1 | 493.2 | 483.2 | 466.4 | 463.0 |
| 65° | 17386.8 | 14659.0 | 4392.0 | 865.6 | 664.3 | 533.5 | 469.7 | 442.9 | 432.8 | 422.8 | 419.4 |
| 67.5° | 18906.7 | 15705.8 | 3778.0 | 999.9 | 708.0 | 493.2 | 419.4 | 402.6 | 395.9 | 385.9 | 379.1 |
| 70° | 19067.7 | 15068.3 | 2278.2 | 1080.4 | 751.6 | 453.0 | 375.8 | 359.0 | 359.0 | 348.9 | 342.2 |
| 72.5° | 17621.6 | 13370.6 | 1533.3 | 962.9 | 681.1 | 406.0 | 332.2 | 318.7 | 312.0 | 305.3 | 302.0 |
| 75° | 14746.2 | 11340.6 | 1211.2 | 768.3 | 523.4 | 335.5 | 288.5 | 275.1 | 265.1 | 261.7 | 255.0 |
| 77.5° | 9904.6 | 7371.4 | 895.8 | 600.6 | 385.9 | 271.8 | 241.6 | 228.2 | 218.1 | 214.7 | 204.7 |
| 80° | 3804.8 | 2808.3 | 577.1 | 436.2 | 271.8 | 214.7 | 191.2 | 177.8 | 171.1 | 161.1 | 154.3 |
| 82.5° | 1120.6 | 909.3 | 322.1 | 268.4 | 174.5 | 147.6 | 137.6 | 127.5 | 117.4 | 107.4 | 104.0 |
| 85° | 463.0 | 416.0 | 198.0 | 140.9 | 107.4 | 87.2 | 80.5 | 70.5 | 60.4 | 53.7 | 47.0 |
| 87.5° | 214.7 | 177.8 | 90.6 | 53.7 | 36.9 | 20.1 | 10.1 | 3.4 | 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)