

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: P476973

Luminaire Tested: **IFLD-L-SA7B-735-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476973  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-735-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

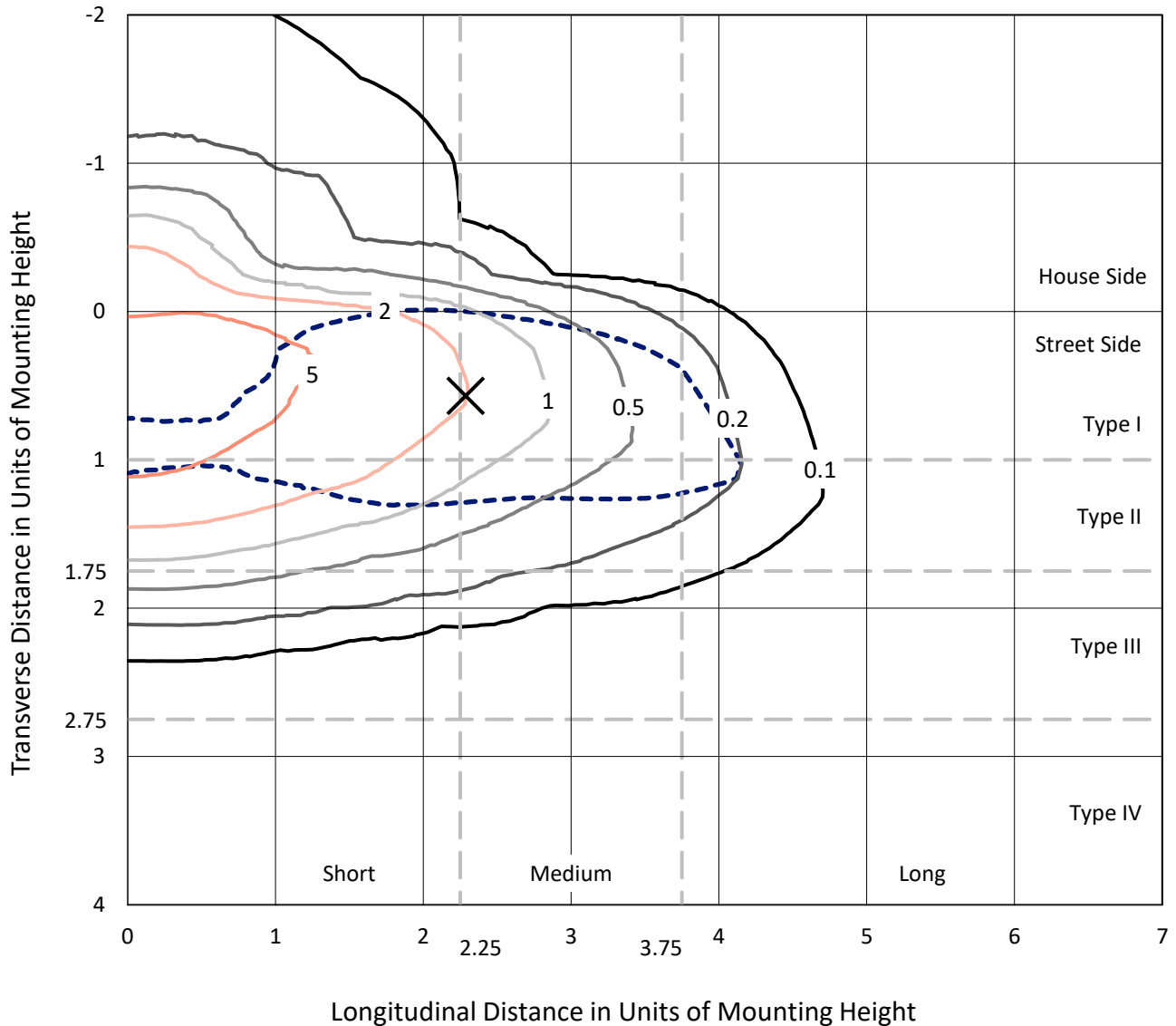
Lumens per Lamp: N/A  
Luminaire Lumens: 35321.6 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 281  
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

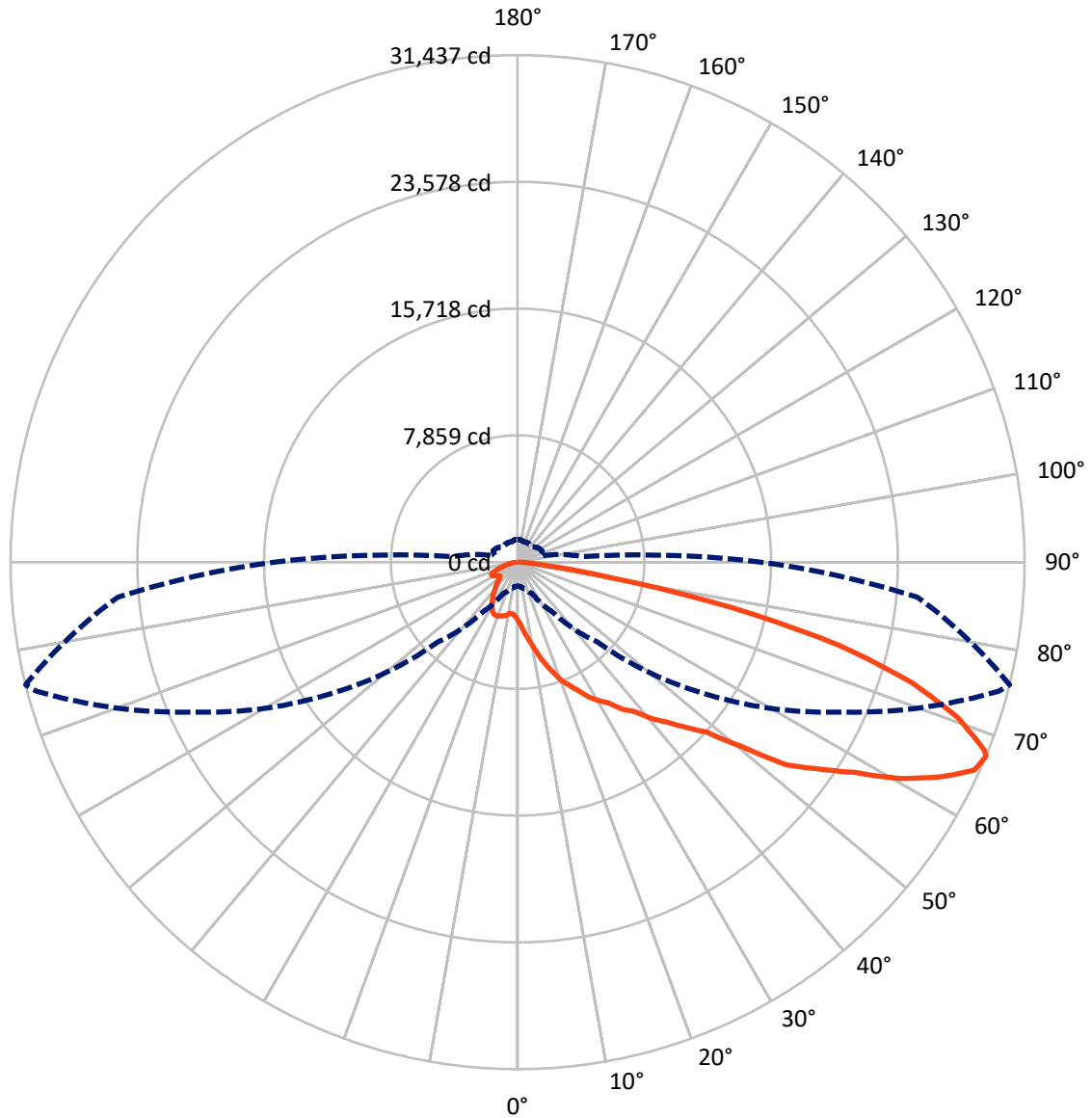
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P476973  
CATALOG NUMBER: IFLD-L-SA7B-735-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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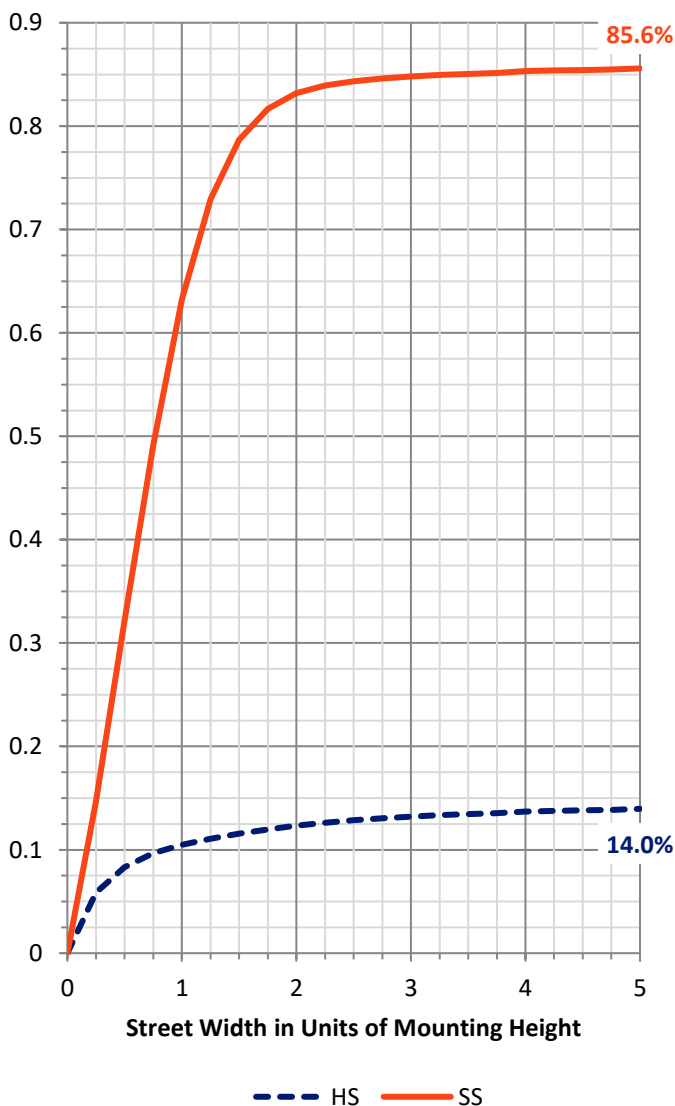
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5024.9   | 0.0    | 5024.9  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 30296.7  | 0.0    | 30296.7 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 35321.6  | 0.0    | 35321.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 418.7   | 1.2       |
| 10°-20°   | 1570.3  | 4.4       |
| 20°-30°   | 2919.5  | 8.3       |
| 30°-40°   | 4628.1  | 13.1      |
| 40°-50°   | 6401.0  | 18.1      |
| 50°-60°   | 7873.7  | 22.3      |
| 60°-70°   | 7326.8  | 20.7      |
| 70°-80°   | 3676.6  | 10.4      |
| 80°-90°   | 506.9   | 1.4       |
| 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°    | 35321.6 | 100.0     |
| 0°-180°   | 35321.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P476973

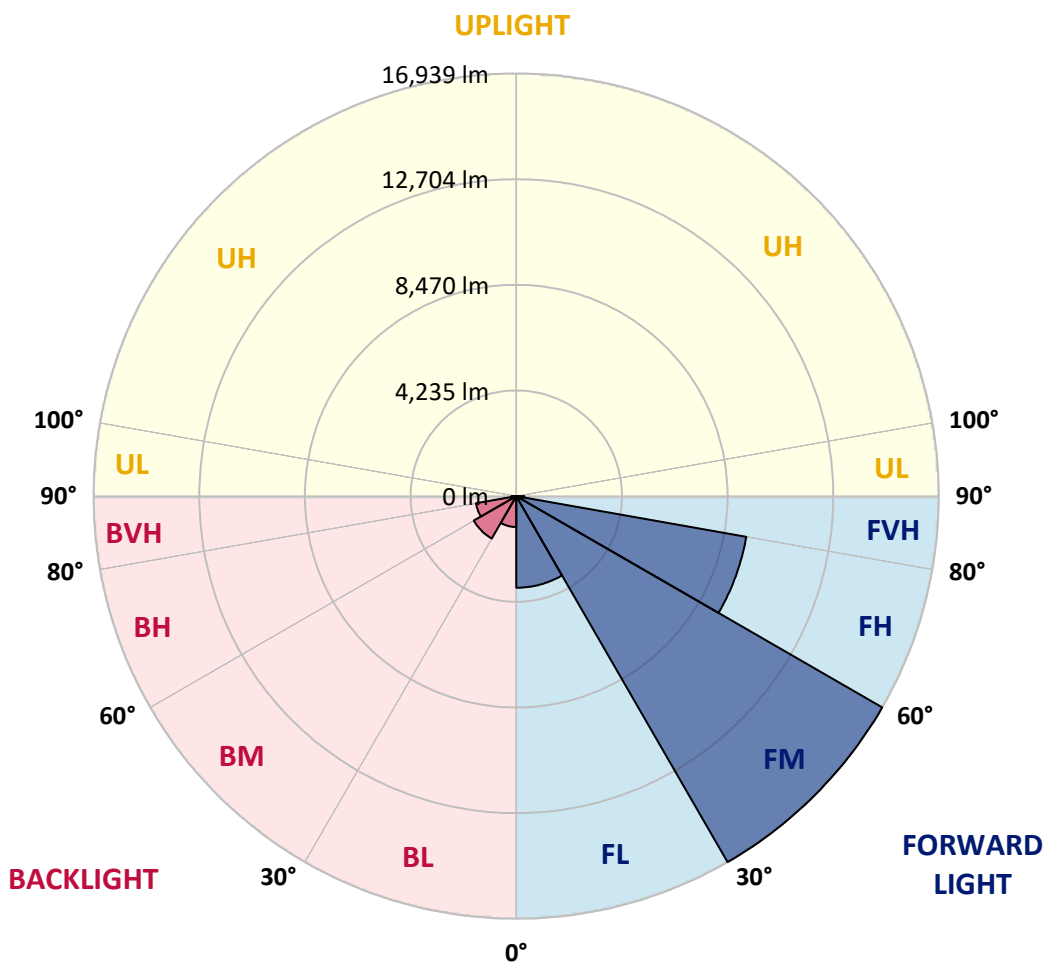
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3671.1  | 10.4      |                         |      |          |
| FM (30°-60°)   | 16939.1 | 48.0      |                         |      |          |
| FH (60°-80°)   | 9363.5  | 26.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 323.0   | 0.9       |                         |      | G3/500   |
| BL (0°-30°)    | 1237.4  | 3.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 1963.6  | 5.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 1639.9  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 184.0   | 0.5       |                         |      | G2/225   |
| 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 Medium





REPORT NUMBER: P476973

CATALOG NUMBER: IFLD-L-SA7B-735-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3614.6  | 3614.6  | 3614.6  | 3614.6  | 3614.6  | 3614.6  | 3614.6  | 3614.6  | 3614.6  | 3614.6  | 3614.6  |
| 2.5°  | 5015.4  | 4955.0  | 4894.6  | 4765.8  | 4721.6  | 4600.8  | 4379.4  | 4133.9  | 3932.6  | 3904.4  | 3763.6  |
| 5°    | 6223.0  | 6134.4  | 6114.3  | 6041.8  | 5812.4  | 5578.9  | 5216.7  | 4822.2  | 4331.1  | 4367.3  | 3884.3  |
| 7.5°  | 7128.6  | 7076.3  | 6967.6  | 6899.2  | 6762.3  | 6452.4  | 6078.0  | 5554.8  | 4930.9  | 4810.1  | 4154.0  |
| 10°   | 7812.9  | 7740.5  | 7736.4  | 7676.0  | 7603.6  | 7285.6  | 6999.8  | 6295.4  | 5494.4  | 5329.4  | 4484.1  |
| 12.5° | 8159.1  | 8147.0  | 8360.3  | 8360.3  | 8332.2  | 8199.3  | 7708.2  | 7064.2  | 6029.7  | 5973.4  | 4866.5  |
| 15°   | 8533.4  | 8432.8  | 8617.9  | 8758.8  | 8831.3  | 8899.7  | 8493.2  | 7812.9  | 6714.0  | 6605.3  | 5277.0  |
| 17.5° | 8533.4  | 8525.4  | 8710.5  | 8944.0  | 9322.4  | 9410.9  | 9189.5  | 8501.2  | 7281.6  | 7201.1  | 5727.9  |
| 20°   | 8388.5  | 8505.2  | 8634.0  | 8948.0  | 9358.6  | 9716.8  | 9781.2  | 9205.6  | 7909.5  | 7845.1  | 6239.1  |
| 22.5° | 9064.7  | 8952.0  | 9084.9  | 9205.6  | 9523.6  | 10067.0 | 10244.1 | 9825.5  | 8569.6  | 8324.1  | 6702.0  |
| 25°   | 10199.8 | 10123.4 | 10026.8 | 9849.7  | 9982.5  | 10220.0 | 10489.7 | 10284.4 | 9133.2  | 8859.5  | 7148.7  |
| 27.5° | 11306.8 | 11310.8 | 11101.5 | 10715.1 | 10429.3 | 10477.6 | 10795.6 | 10686.9 | 9608.1  | 9487.4  | 7454.7  |
| 30°   | 12880.6 | 12784.0 | 12550.6 | 12027.3 | 11467.8 | 11008.9 | 10956.6 | 11061.2 | 10211.9 | 9978.5  | 7893.4  |
| 32.5° | 14060.0 | 14080.1 | 13750.1 | 12997.4 | 12232.6 | 11858.2 | 11399.4 | 11443.6 | 10594.3 | 10421.2 | 8243.6  |
| 35°   | 15014.0 | 14989.8 | 14756.4 | 14132.5 | 13226.8 | 12776.0 | 12156.1 | 11902.5 | 11483.9 | 11210.2 | 8779.0  |
| 37.5° | 16044.4 | 15847.2 | 15468.8 | 14764.4 | 14184.8 | 13560.9 | 12957.1 | 12385.5 | 12075.6 | 11745.5 | 9237.8  |
| 40°   | 16459.0 | 16459.0 | 15951.9 | 15629.8 | 14941.5 | 14470.6 | 14080.1 | 13021.5 | 12796.1 | 12731.7 | 9825.5  |
| 42.5° | 16165.2 | 16346.3 | 16137.0 | 15770.7 | 15489.0 | 14893.2 | 14788.6 | 13681.6 | 13685.7 | 13556.9 | 10529.9 |
| 45°   | 16137.0 | 15887.4 | 15714.4 | 15806.9 | 15674.1 | 15641.9 | 15907.6 | 14595.4 | 14619.5 | 14603.4 | 11475.8 |
| 47.5° | 15327.9 | 15215.2 | 15472.9 | 15625.8 | 15734.5 | 16233.6 | 16998.4 | 15686.2 | 15859.3 | 15738.5 | 12566.7 |
| 50°   | 14522.9 | 14502.8 | 14663.8 | 15219.3 | 15690.2 | 16511.4 | 18036.9 | 17368.7 | 17936.3 | 17928.2 | 14543.0 |
| 52.5° | 12317.1 | 12530.4 | 13162.4 | 14337.7 | 15501.0 | 16889.7 | 18821.8 | 19518.2 | 20601.0 | 20894.8 | 16181.3 |
| 55°   | 10207.9 | 10095.2 | 11029.0 | 12735.7 | 14675.9 | 17038.7 | 19699.3 | 20810.3 | 22404.2 | 22617.6 | 17863.8 |
| 57.5° | 7941.7  | 8151.0  | 8887.6  | 10525.9 | 12969.2 | 16302.0 | 20343.3 | 22086.2 | 24441.0 | 24606.0 | 19816.0 |
| 60°   | 5925.1  | 5953.3  | 6762.3  | 8082.6  | 10699.0 | 14639.6 | 20552.6 | 23394.4 | 26775.6 | 27246.5 | 21860.8 |
| 62.5° | 3727.3  | 3896.4  | 4512.2  | 5812.4  | 8054.4  | 12313.1 | 19614.8 | 24187.4 | 29222.9 | 29347.7 | 23921.7 |
| 65°   | 2008.6  | 2117.3  | 2580.2  | 3397.3  | 5627.2  | 9314.3  | 17127.2 | 23712.4 | 30374.1 | 31114.8 | 24839.5 |
| 67°   | 1485.3  | 1505.4  | 1718.8  | 2169.6  | 3763.6  | 7011.9  | 14281.4 | 21993.7 | 30897.4 | 31436.8 | 24875.7 |
| 67.5° | 1392.7  | 1420.9  | 1590.0  | 1948.2  | 3336.9  | 6456.4  | 13536.7 | 21381.8 | 30663.9 | 31243.6 | 24593.9 |
| 70°   | 1191.5  | 1199.5  | 1239.8  | 1340.4  | 1871.7  | 3884.3  | 9217.7  | 17521.7 | 28421.9 | 28977.4 | 22617.6 |
| 72.5° | 1058.6  | 1066.7  | 1082.8  | 1102.9  | 1267.9  | 2246.1  | 5607.1  | 13484.4 | 24702.6 | 25588.2 | 19514.1 |
| 75°   | 929.8   | 958.0   | 966.0   | 949.9   | 1078.8  | 1461.1  | 2982.7  | 9910.0  | 20150.1 | 20580.8 | 15175.0 |
| 77.5° | 788.9   | 801.0   | 817.1   | 833.2   | 962.0   | 1090.8  | 1433.0  | 6689.9  | 13830.6 | 13568.9 | 8207.4  |
| 80°   | 664.2   | 668.2   | 680.3   | 692.3   | 833.2   | 833.2   | 813.1   | 3614.6  | 6041.8  | 5776.2  | 2773.4  |
| 82.5° | 475.0   | 503.1   | 531.3   | 563.5   | 692.3   | 559.5   | 531.3   | 1610.1  | 1912.0  | 1819.4  | 937.9   |
| 85°   | 185.2   | 225.4   | 350.2   | 386.4   | 438.7   | 301.9   | 354.2   | 696.4   | 797.0   | 788.9   | 350.2   |
| 87.5° | 32.2    | 36.2    | 96.6    | 148.9   | 161.0   | 104.7   | 169.1   | 249.6   | 297.9   | 322.0   | 128.8   |
| 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°    | 3614.6  | 3614.6 | 3614.6 | 3614.6 | 3614.6 | 3614.6 | 3614.6 | 3614.6 | 3614.6 | 3614.6 | 3614.6 |
| 2.5°  | 3646.8  | 3522.0 | 3373.1 | 3224.2 | 3127.6 | 2974.6 | 2962.5 | 2870.0 | 2857.9 | 2825.7 | 2841.8 |
| 5°    | 3675.0  | 3526.1 | 3224.2 | 2986.7 | 2878.0 | 2789.5 | 2809.6 | 2769.3 | 2757.3 | 2737.1 | 2704.9 |
| 7.5°  | 3896.4  | 3602.6 | 3151.7 | 2946.4 | 2865.9 | 2825.7 | 2825.7 | 2777.4 | 2741.2 | 2765.3 | 2789.5 |
| 10°   | 4041.3  | 3638.8 | 3208.1 | 3002.8 | 2938.4 | 2849.8 | 2882.0 | 2821.7 | 2841.8 | 2793.5 | 2793.5 |
| 12.5° | 4274.8  | 3844.1 | 3324.8 | 3087.3 | 2982.7 | 2902.2 | 2934.4 | 2865.9 | 2849.8 | 2853.9 | 2841.8 |
| 15°   | 4588.7  | 3980.9 | 3377.1 | 3135.6 | 3063.2 | 2962.5 | 2938.4 | 2878.0 | 2817.6 | 2797.5 | 2821.7 |
| 17.5° | 4882.6  | 4150.0 | 3413.4 | 3163.8 | 3047.1 | 2934.4 | 2906.2 | 2829.7 | 2809.6 | 2749.2 | 2700.9 |
| 20°   | 5232.8  | 4351.2 | 3461.7 | 3188.0 | 2986.7 | 2874.0 | 2801.5 | 2725.1 | 2656.6 | 2620.4 | 2636.5 |
| 22.5° | 5466.2  | 4455.9 | 3485.8 | 3139.7 | 2898.1 | 2793.5 | 2640.5 | 2588.2 | 2491.6 | 2451.3 | 2419.1 |
| 25°   | 5848.6  | 4584.7 | 3425.4 | 3006.8 | 2741.2 | 2572.1 | 2435.2 | 2362.8 | 2294.4 | 2242.0 | 2225.9 |
| 27.5° | 5945.2  | 4681.3 | 3284.6 | 2781.4 | 2491.6 | 2314.5 | 2197.8 | 2109.2 | 2064.9 | 1984.4 | 1968.3 |
| 30°   | 6227.0  | 4584.7 | 3075.2 | 2507.7 | 2254.1 | 2073.0 | 1956.2 | 1891.8 | 1787.2 | 1767.1 | 1722.8 |
| 32.5° | 6408.1  | 4612.9 | 2809.6 | 2242.0 | 1980.4 | 1819.4 | 1742.9 | 1678.5 | 1650.3 | 1553.7 | 1529.6 |
| 35°   | 6710.0  | 4516.3 | 2539.9 | 1996.5 | 1755.0 | 1630.2 | 1565.8 | 1545.7 | 1453.1 | 1408.8 | 1368.6 |
| 37.5° | 6903.2  | 4459.9 | 2270.2 | 1718.8 | 1509.4 | 1457.1 | 1477.2 | 1392.7 | 1280.0 | 1195.5 | 1167.3 |
| 40°   | 7241.3  | 4439.8 | 1964.3 | 1489.3 | 1340.4 | 1328.3 | 1392.7 | 1231.7 | 1026.4 | 954.0  | 913.7  |
| 42.5° | 7728.4  | 4302.9 | 1726.8 | 1284.0 | 1207.6 | 1259.9 | 1272.0 | 1026.4 | 909.7  | 849.3  | 821.1  |
| 45°   | 8195.3  | 4331.1 | 1493.3 | 1062.7 | 1050.6 | 1127.1 | 1098.9 | 869.4  | 801.0  | 756.7  | 780.9  |
| 47.5° | 9092.9  | 4472.0 | 1263.9 | 885.5  | 945.9  | 1018.4 | 853.3  | 776.9  | 712.5  | 680.3  | 684.3  |
| 50°   | 10481.6 | 4608.8 | 1062.7 | 809.1  | 893.6  | 921.8  | 732.6  | 704.4  | 700.4  | 636.0  | 632.0  |
| 52.5° | 11314.8 | 4556.5 | 1026.4 | 905.7  | 958.0  | 921.8  | 797.0  | 776.9  | 744.7  | 716.5  | 684.3  |
| 55°   | 12639.1 | 4709.5 | 1102.9 | 1058.6 | 1086.8 | 885.5  | 893.6  | 885.5  | 861.4  | 788.9  | 809.1  |
| 57.5° | 13693.7 | 4810.1 | 1203.5 | 1183.4 | 1167.3 | 921.8  | 933.8  | 937.9  | 921.8  | 889.6  | 917.7  |
| 60°   | 15142.8 | 5011.4 | 1308.2 | 1312.2 | 1316.2 | 1002.3 | 1022.4 | 1046.6 | 1042.5 | 1030.5 | 1038.5 |
| 62.5° | 16032.4 | 4918.8 | 1424.9 | 1489.3 | 1469.2 | 1167.3 | 1163.3 | 1179.4 | 1179.4 | 1199.5 | 1211.6 |
| 65°   | 15899.5 | 4576.6 | 1485.3 | 1646.3 | 1541.6 | 1288.1 | 1288.1 | 1296.1 | 1300.1 | 1340.4 | 1344.4 |
| 67°   | 15102.5 | 3964.8 | 1453.1 | 1670.5 | 1541.6 | 1336.4 | 1336.4 | 1344.4 | 1316.2 | 1420.9 | 1388.7 |
| 67.5° | 14732.2 | 3783.7 | 1424.9 | 1650.3 | 1529.6 | 1332.3 | 1332.3 | 1336.4 | 1312.2 | 1412.8 | 1380.6 |
| 70°   | 12812.2 | 2809.6 | 1227.7 | 1461.1 | 1416.9 | 1296.1 | 1296.1 | 1272.0 | 1251.8 | 1384.7 | 1356.5 |
| 72.5° | 10936.5 | 2040.8 | 986.2  | 1243.8 | 1280.0 | 1247.8 | 1255.9 | 1195.5 | 1139.1 | 1231.7 | 1207.6 |
| 75°   | 8376.4  | 1501.4 | 768.8  | 958.0  | 1082.8 | 1167.3 | 1219.6 | 1066.7 | 994.2  | 1018.4 | 974.1  |
| 77.5° | 4673.3  | 978.1  | 607.8  | 708.4  | 825.2  | 1086.8 | 1171.3 | 962.0  | 813.1  | 784.9  | 784.9  |
| 80°   | 1585.9  | 571.6  | 446.8  | 527.3  | 567.6  | 962.0  | 1094.9 | 780.9  | 640.0  | 611.8  | 591.7  |
| 82.5° | 599.8   | 350.2  | 305.9  | 362.3  | 362.3  | 760.8  | 893.6  | 599.8  | 483.0  | 623.9  | 636.0  |
| 85°   | 273.7   | 209.3  | 201.3  | 209.3  | 209.3  | 466.9  | 632.0  | 390.4  | 434.7  | 374.3  | 330.1  |
| 87.5° | 108.7   | 100.6  | 92.6   | 88.6   | 72.5   | 80.5   | 217.4  | 104.7  | 197.2  | 52.3   | 48.3   |
| 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)