

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: P484277

Luminaire Tested: **IFLD-S-SA2D-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484277
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

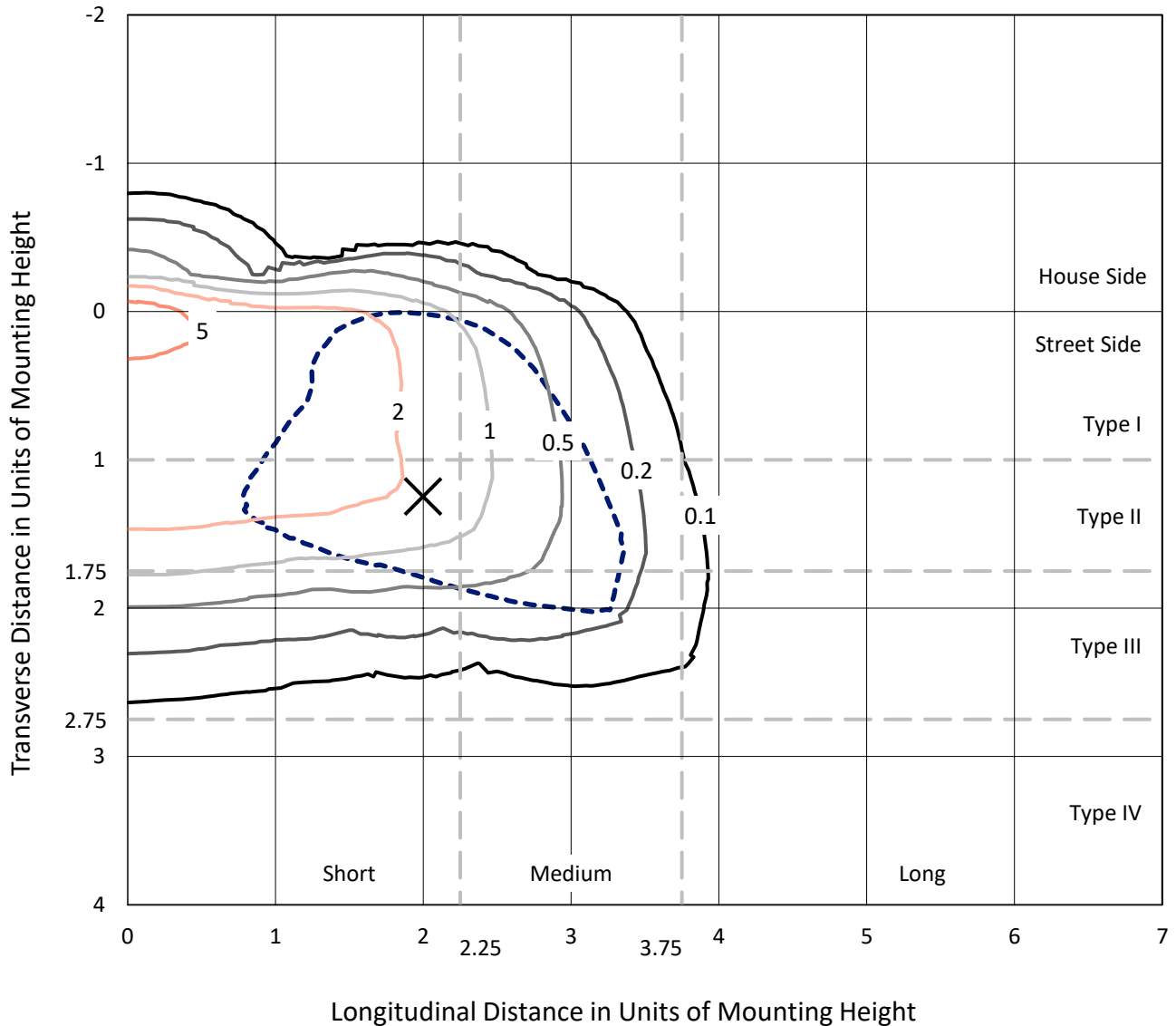
Lumens per Lamp: N/A
Luminaire Lumens: 10938.2 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

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Iso-Footcandle Lines of Horizontal Illumination

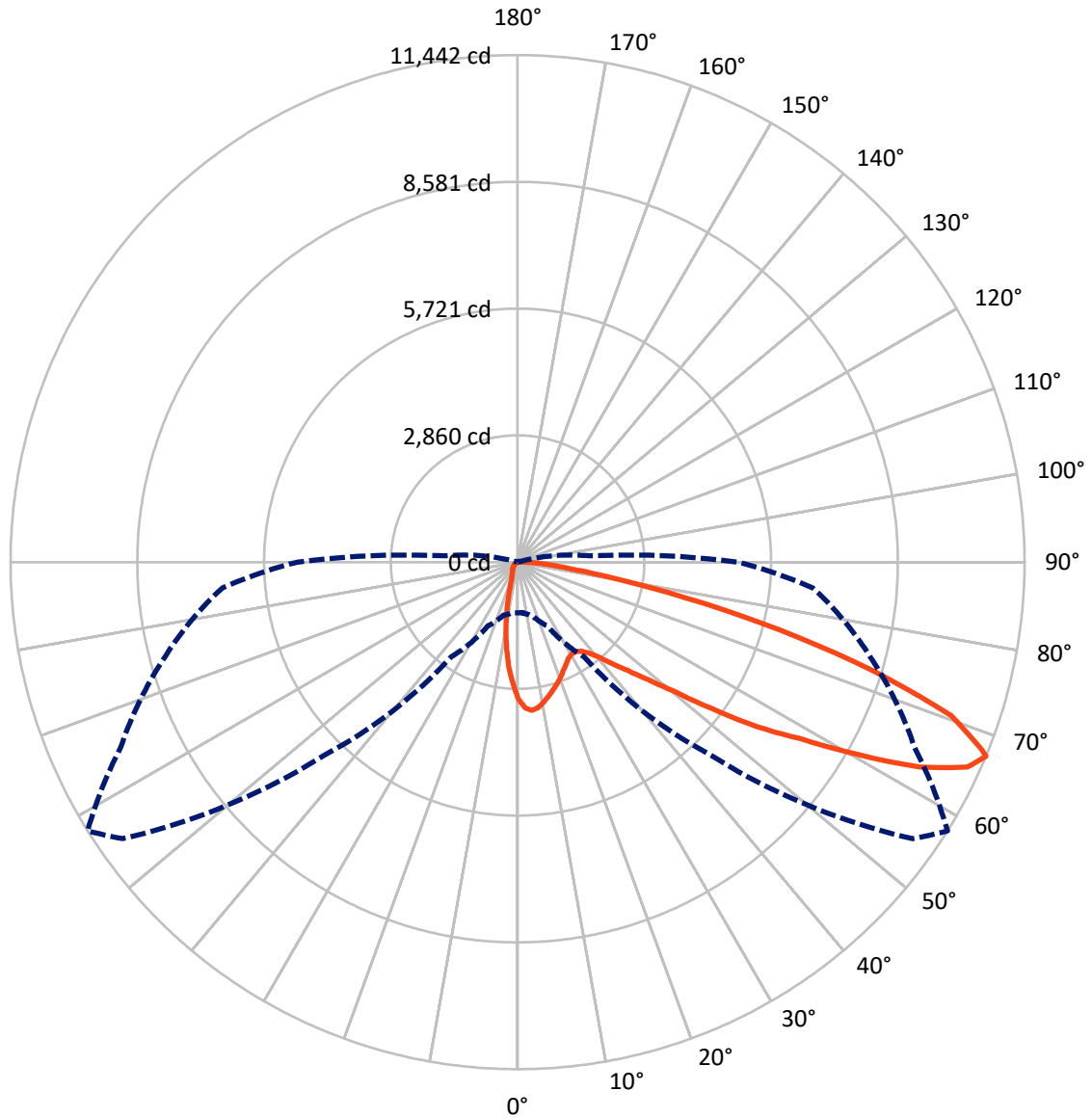
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 904.1 | 0.0 | 904.1 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 10034.1 | 0.0 | 10034.1 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 10938.2 | 0.0 | 10938.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 245.9 | 2.2 |
| 10°-20° | 510.0 | 4.7 |
| 20°-30° | 676.7 | 6.2 |
| 30°-40° | 937.7 | 8.6 |
| 40°-50° | 1530.0 | 14.0 |
| 50°-60° | 2689.2 | 24.6 |
| 60°-70° | 2978.5 | 27.2 |
| 70°-80° | 1234.3 | 11.3 |
| 80°-90° | 135.9 | 1.2 |
| 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° | 10938.2 | 100.0 |
| 0°-180° | 10938.2 | 100.0 |

Coefficient of Utilization



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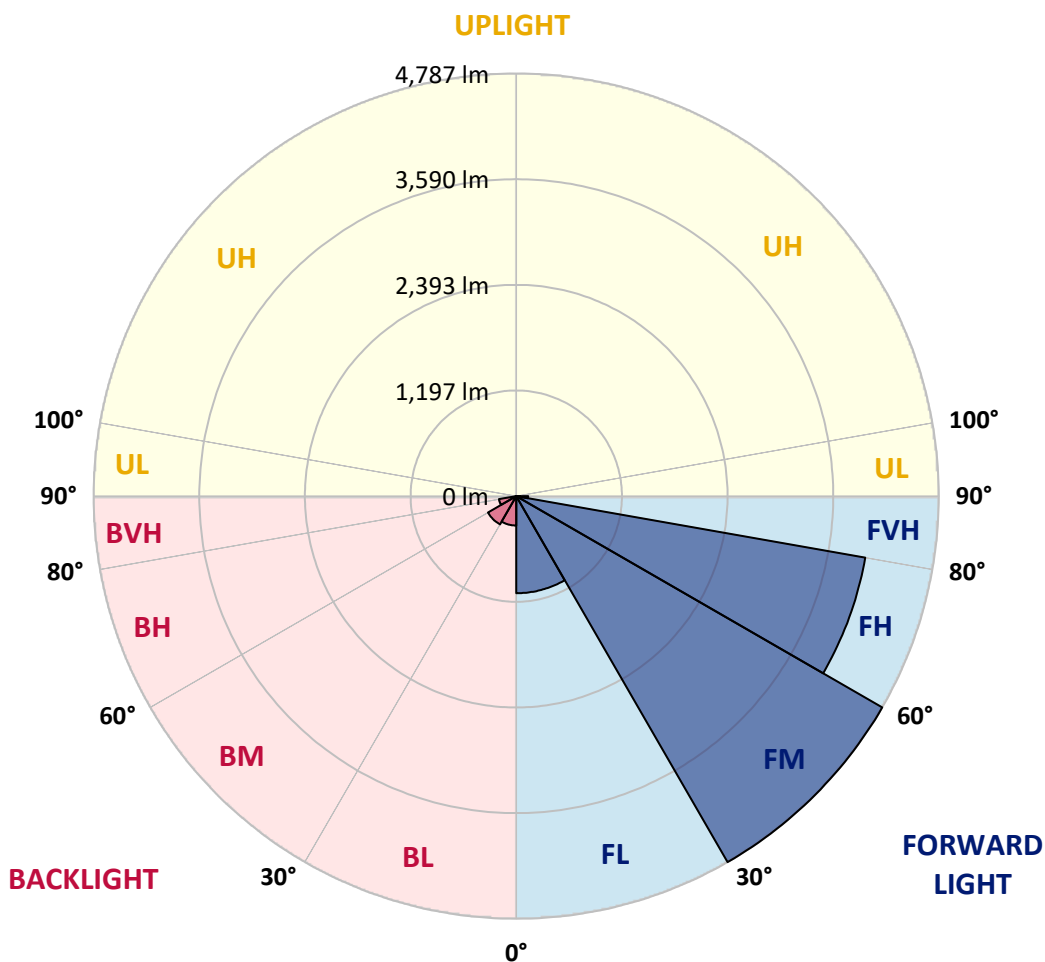
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1099.6 | 10.1 | | | |
| FM (30°-60°) | 4786.8 | 43.8 | | | |
| FH (60°-80°) | 4014.1 | 36.7 | | | G2/5000 |
| FVH (80°-90°) | 133.6 | 1.2 | | | G2/225 |
| BL (0°-30°) | 333.0 | 3.0 | B1/500 | | |
| BM (30°-60°) | 370.1 | 3.4 | B1/1000 | | |
| BH (60°-80°) | 198.8 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 |
| 2.5° | 3371.9 | 3383.6 | 3393.7 | 3374.8 | 3390.8 | 3367.6 | 3308.0 | 3295.0 | 3284.8 | 3196.2 | 3145.4 |
| 5° | 3370.5 | 3357.4 | 3367.6 | 3376.3 | 3354.5 | 3371.9 | 3357.4 | 3358.9 | 3319.7 | 3239.8 | 3097.5 |
| 7.5° | 3145.4 | 3139.6 | 3145.4 | 3187.5 | 3235.4 | 3273.2 | 3295.0 | 3316.8 | 3290.6 | 3171.5 | 3033.6 |
| 10° | 2841.9 | 2870.9 | 2886.9 | 2962.4 | 3036.5 | 3106.2 | 3174.4 | 3215.1 | 3207.8 | 3159.9 | 2963.9 |
| 12.5° | 2629.9 | 2621.2 | 2679.3 | 2728.6 | 2802.7 | 2943.6 | 3062.6 | 3100.4 | 3144.0 | 3077.2 | 2872.4 |
| 15° | 2433.8 | 2410.6 | 2445.5 | 2531.1 | 2657.5 | 2769.3 | 2936.3 | 2992.9 | 3048.1 | 3065.5 | 2823.0 |
| 17.5° | 2246.5 | 2258.1 | 2294.4 | 2371.4 | 2490.5 | 2647.3 | 2804.1 | 2885.5 | 3017.6 | 2994.4 | 2749.0 |
| 20° | 2156.5 | 2181.2 | 2194.2 | 2233.4 | 2316.2 | 2473.1 | 2706.9 | 2772.2 | 2913.1 | 2992.9 | 2676.4 |
| 22.5° | 2160.8 | 2160.8 | 2130.3 | 2153.6 | 2229.1 | 2351.1 | 2574.7 | 2647.3 | 2870.9 | 2917.4 | 2611.0 |
| 25° | 2207.3 | 2178.3 | 2179.7 | 2152.1 | 2184.1 | 2250.9 | 2455.6 | 2544.2 | 2785.3 | 2924.7 | 2576.2 |
| 27.5° | 2242.2 | 2236.3 | 2227.6 | 2220.4 | 2179.7 | 2189.9 | 2377.2 | 2449.8 | 2751.9 | 2916.0 | 2522.4 |
| 30° | 2368.5 | 2342.4 | 2333.6 | 2317.7 | 2263.9 | 2214.6 | 2314.8 | 2406.3 | 2725.7 | 2936.3 | 2491.9 |
| 32.5° | 2474.5 | 2478.9 | 2486.1 | 2439.7 | 2393.2 | 2271.2 | 2332.2 | 2404.8 | 2706.9 | 2982.8 | 2522.4 |
| 35° | 2608.1 | 2627.0 | 2629.9 | 2615.4 | 2566.0 | 2445.5 | 2404.8 | 2467.2 | 2738.8 | 3065.5 | 2525.3 |
| 37.5° | 2811.4 | 2791.1 | 2846.3 | 2852.1 | 2817.2 | 2657.5 | 2573.3 | 2597.9 | 2833.2 | 3197.7 | 2635.7 |
| 40° | 2943.6 | 2968.2 | 3071.3 | 3135.2 | 3075.7 | 2930.5 | 2817.2 | 2812.9 | 2969.7 | 3405.3 | 2772.2 |
| 42.5° | 3090.2 | 3145.4 | 3258.7 | 3396.6 | 3389.4 | 3254.3 | 3139.6 | 3120.7 | 3212.2 | 3705.9 | 2988.6 |
| 45° | 3290.6 | 3340.0 | 3498.3 | 3705.9 | 3819.2 | 3704.5 | 3531.7 | 3493.9 | 3507.0 | 4115.5 | 3357.4 |
| 47.5° | 3623.2 | 3610.1 | 3838.1 | 4042.8 | 4228.7 | 4140.1 | 4066.1 | 3955.7 | 3945.6 | 4597.6 | 3867.1 |
| 50° | 3999.3 | 3996.4 | 4199.7 | 4432.0 | 4647.0 | 4819.8 | 4696.3 | 4575.8 | 4578.7 | 5252.5 | 4466.9 |
| 52.5° | 4356.5 | 4413.2 | 4632.4 | 4863.3 | 5232.2 | 5418.1 | 5537.1 | 5489.2 | 5258.3 | 5837.7 | 5108.7 |
| 55° | 4545.3 | 4594.7 | 4812.5 | 5210.4 | 5792.7 | 6270.5 | 6592.9 | 6552.2 | 6106.4 | 6497.0 | 5741.9 |
| 57.5° | 4366.7 | 4400.1 | 4694.9 | 5216.2 | 6184.8 | 7250.7 | 7560.0 | 7509.2 | 6983.5 | 7000.9 | 6507.2 |
| 60° | 3618.8 | 3671.1 | 4109.6 | 4721.0 | 6032.3 | 8005.8 | 8891.7 | 8814.7 | 7782.2 | 7638.4 | 6999.5 |
| 62.5° | 2506.5 | 2541.3 | 2901.4 | 3662.4 | 5309.1 | 8268.7 | 10149.2 | 10191.3 | 8624.5 | 8135.1 | 7146.1 |
| 65° | 1623.5 | 1620.6 | 1826.8 | 2342.4 | 3762.6 | 7472.9 | 10892.7 | 11154.1 | 9437.7 | 8210.6 | 7101.1 |
| 67° | 1147.2 | 1142.9 | 1240.2 | 1588.7 | 2605.2 | 6157.2 | 10879.7 | 11441.7 | 9879.1 | 8232.4 | 6684.4 |
| 67.5° | 1058.6 | 1054.3 | 1147.2 | 1460.9 | 2351.1 | 5725.9 | 10717.0 | 11293.5 | 10034.5 | 8201.9 | 6501.4 |
| 70° | 821.9 | 810.3 | 845.2 | 1006.4 | 1369.4 | 3703.0 | 9171.9 | 10374.3 | 9712.1 | 7440.9 | 5191.5 |
| 72.5° | 593.9 | 607.0 | 662.2 | 826.3 | 1074.6 | 1992.4 | 6990.8 | 8389.2 | 8111.8 | 5608.3 | 3299.3 |
| 75° | 413.9 | 425.5 | 514.1 | 673.8 | 986.0 | 1208.2 | 4726.8 | 6084.6 | 5650.4 | 3096.0 | 1405.7 |
| 77.5° | 216.4 | 230.9 | 328.2 | 538.8 | 896.0 | 935.2 | 2824.5 | 3858.4 | 2994.4 | 1102.2 | 387.7 |
| 80° | 100.2 | 107.5 | 164.1 | 381.9 | 749.3 | 821.9 | 1646.8 | 2146.3 | 1198.0 | 246.9 | 133.6 |
| 82.5° | 43.6 | 47.9 | 75.5 | 219.3 | 531.5 | 718.8 | 1019.4 | 1125.4 | 434.2 | 79.9 | 82.8 |
| 85° | 8.7 | 10.2 | 29.0 | 116.2 | 257.0 | 435.7 | 715.9 | 668.0 | 217.8 | 39.2 | 65.3 |
| 87.5° | 0.0 | 0.0 | 7.3 | 33.4 | 69.7 | 129.2 | 303.5 | 303.5 | 66.8 | 20.3 | 24.7 |
| 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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CATALOG NUMBER: IFLD-S-SA2D-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 |
| 2.5° | 3100.4 | 3048.1 | 2933.4 | 2827.4 | 2751.9 | 2666.2 | 2552.9 | 2502.1 | 2483.2 | 2457.1 | 2417.9 |
| 5° | 3019.1 | 2955.2 | 2759.1 | 2561.6 | 2345.3 | 2181.2 | 2006.9 | 1905.3 | 1828.3 | 1780.4 | 1764.4 |
| 7.5° | 2904.3 | 2773.7 | 2509.4 | 2192.8 | 1912.5 | 1668.5 | 1404.3 | 1225.6 | 1110.9 | 1064.4 | 1020.9 |
| 10° | 2812.9 | 2643.0 | 2240.7 | 1847.2 | 1474.0 | 1116.7 | 819.0 | 662.2 | 543.1 | 498.1 | 492.3 |
| 12.5° | 2693.8 | 2490.5 | 1989.5 | 1494.3 | 1025.2 | 665.1 | 453.1 | 393.5 | 360.1 | 354.3 | 350.0 |
| 15° | 2595.0 | 2352.5 | 1751.3 | 1157.4 | 663.6 | 415.3 | 352.9 | 338.4 | 329.6 | 326.7 | 328.2 |
| 17.5° | 2528.2 | 2204.4 | 1507.4 | 842.3 | 437.1 | 339.8 | 325.3 | 316.6 | 312.2 | 310.8 | 306.4 |
| 20° | 2396.1 | 2079.5 | 1266.3 | 589.6 | 341.3 | 313.7 | 302.1 | 294.8 | 290.4 | 289.0 | 287.5 |
| 22.5° | 2320.6 | 1921.2 | 1025.2 | 411.0 | 303.5 | 284.6 | 275.9 | 270.1 | 262.8 | 258.5 | 257.0 |
| 25° | 2245.1 | 1805.1 | 810.3 | 319.5 | 275.9 | 262.8 | 249.8 | 242.5 | 230.9 | 225.1 | 223.6 |
| 27.5° | 2156.5 | 1690.3 | 624.4 | 277.4 | 248.3 | 235.3 | 222.2 | 210.6 | 196.0 | 190.2 | 187.3 |
| 30° | 2105.7 | 1578.5 | 470.5 | 248.3 | 228.0 | 210.6 | 194.6 | 180.1 | 164.1 | 153.9 | 151.0 |
| 32.5° | 2079.5 | 1476.9 | 352.9 | 226.5 | 206.2 | 187.3 | 167.0 | 149.6 | 135.1 | 126.3 | 124.9 |
| 35° | 2047.6 | 1378.1 | 277.4 | 206.2 | 185.9 | 165.5 | 145.2 | 127.8 | 113.3 | 106.0 | 103.1 |
| 37.5° | 2081.0 | 1320.0 | 230.9 | 190.2 | 169.9 | 146.7 | 124.9 | 107.5 | 95.8 | 88.6 | 87.1 |
| 40° | 2172.5 | 1272.1 | 200.4 | 175.7 | 153.9 | 129.2 | 108.9 | 91.5 | 81.3 | 75.5 | 72.6 |
| 42.5° | 2313.3 | 1272.1 | 181.5 | 161.2 | 139.4 | 113.3 | 92.9 | 79.9 | 69.7 | 63.9 | 62.4 |
| 45° | 2568.9 | 1311.3 | 165.5 | 146.7 | 122.0 | 97.3 | 79.9 | 66.8 | 56.6 | 50.8 | 49.4 |
| 47.5° | 2927.6 | 1401.3 | 152.5 | 133.6 | 108.9 | 85.7 | 69.7 | 56.6 | 46.5 | 40.7 | 39.2 |
| 50° | 3409.7 | 1606.1 | 139.4 | 117.6 | 97.3 | 74.1 | 58.1 | 45.0 | 36.3 | 30.5 | 29.0 |
| 52.5° | 4010.9 | 1896.5 | 126.3 | 108.9 | 82.8 | 62.4 | 46.5 | 36.3 | 27.6 | 23.2 | 21.8 |
| 55° | 4647.0 | 2252.3 | 110.4 | 97.3 | 71.2 | 52.3 | 37.8 | 27.6 | 20.3 | 17.4 | 16.0 |
| 57.5° | 5287.4 | 2526.8 | 97.3 | 84.2 | 58.1 | 42.1 | 30.5 | 21.8 | 14.5 | 11.6 | 10.2 |
| 60° | 5627.2 | 2552.9 | 84.2 | 69.7 | 46.5 | 33.4 | 23.2 | 16.0 | 10.2 | 7.3 | 5.8 |
| 62.5° | 5679.4 | 2320.6 | 72.6 | 56.6 | 37.8 | 26.1 | 16.0 | 11.6 | 5.8 | 2.9 | 2.9 |
| 65° | 5410.8 | 1934.3 | 62.4 | 45.0 | 29.0 | 18.9 | 11.6 | 7.3 | 2.9 | 1.5 | 0.0 |
| 67° | 4975.1 | 1620.6 | 53.7 | 37.8 | 23.2 | 14.5 | 8.7 | 4.4 | 1.5 | 0.0 | 0.0 |
| 67.5° | 4806.7 | 1533.5 | 50.8 | 34.9 | 21.8 | 13.1 | 7.3 | 4.4 | 1.5 | 0.0 | 0.0 |
| 70° | 3730.6 | 1094.9 | 37.8 | 24.7 | 16.0 | 10.2 | 5.8 | 2.9 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2285.7 | 640.4 | 29.0 | 17.4 | 11.6 | 7.3 | 4.4 | 1.5 | 0.0 | 0.0 | 0.0 |
| 75° | 958.4 | 220.7 | 24.7 | 13.1 | 8.7 | 4.4 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 |
| 77.5° | 249.8 | 82.8 | 17.4 | 8.7 | 5.8 | 4.4 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 |
| 80° | 101.7 | 37.8 | 11.6 | 5.8 | 5.8 | 4.4 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 66.8 | 17.4 | 7.3 | 5.8 | 4.4 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 50.8 | 10.2 | 4.4 | 4.4 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.8 | 5.8 | 4.4 | 2.9 | 2.9 | 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)