

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: McGRAW-EDISON

Report Number: P595706

Luminaire Tested: **ISW-PA1D-735-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1D-735-U-T2U
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7754 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

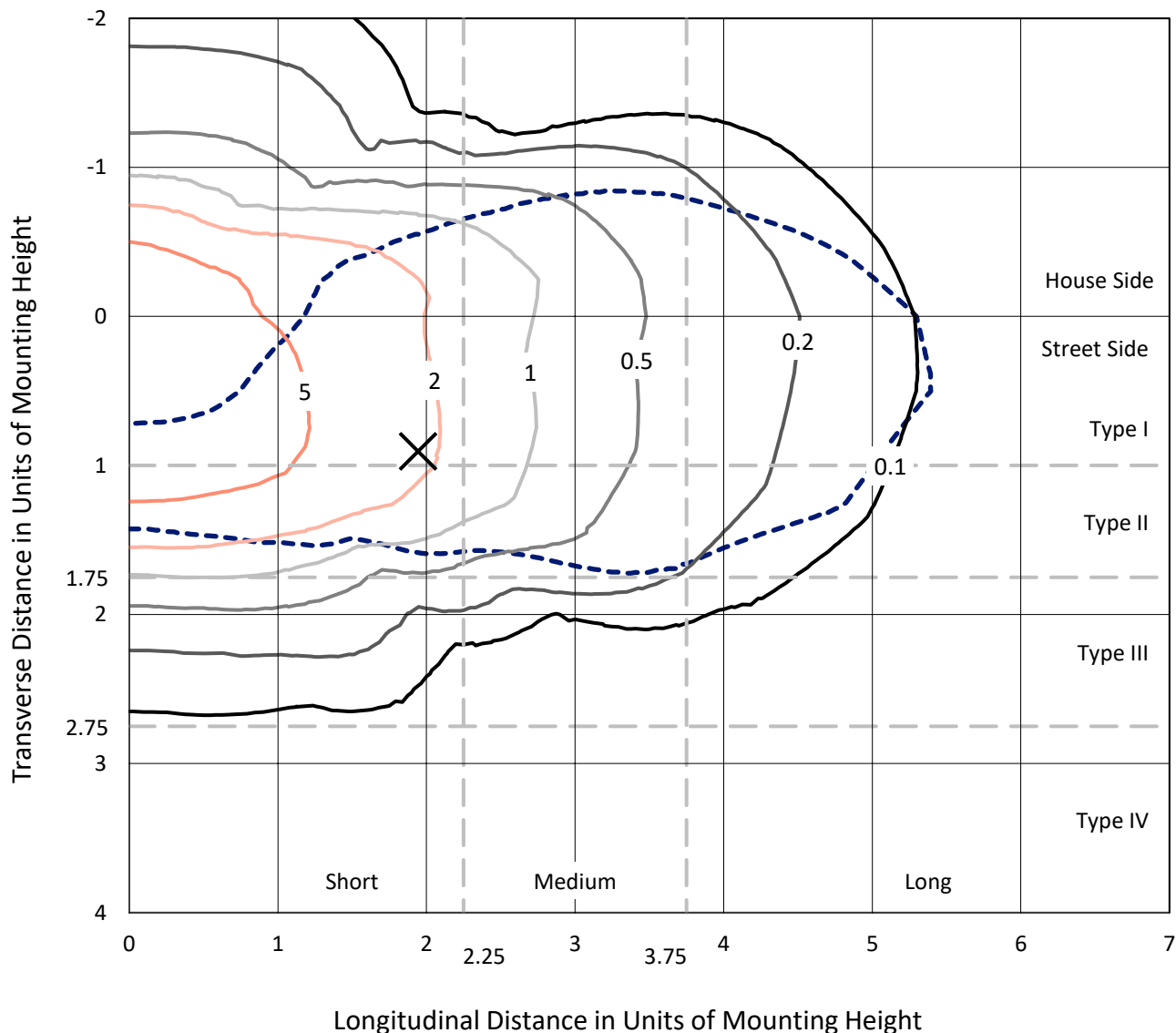
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

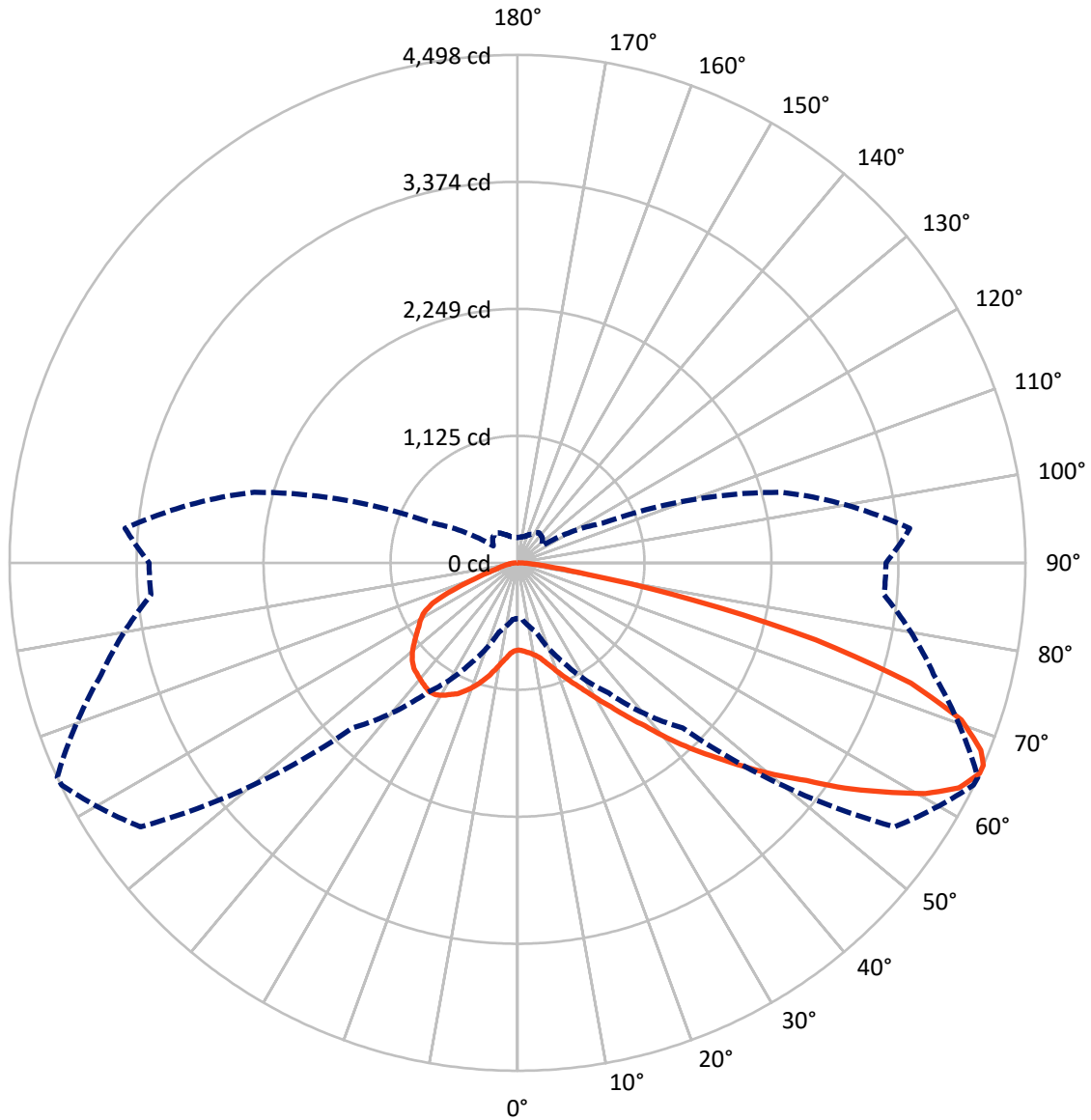
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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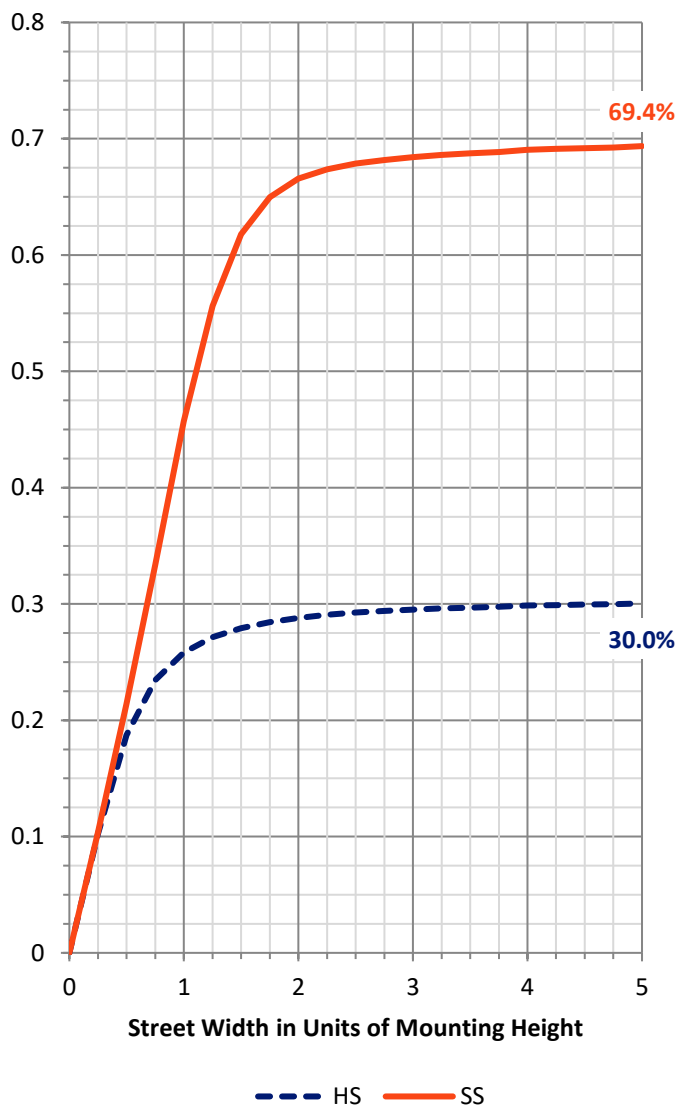
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2354.4 | 0.0 | 2354.4 |
| | % Fixture | 30.4 | 0.0 | 30.4 |
| Street Side | Lumens | 5399.6 | 0.0 | 5399.6 |
| | % Fixture | 69.6 | 0.0 | 69.6 |
| Total | Lumens | 7754.0 | 0.0 | 7754.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.8 | 1.0 |
| 10°-20° | 274.8 | 3.5 |
| 20°-30° | 538.2 | 6.9 |
| 30°-40° | 879.4 | 11.3 |
| 40°-50° | 1395.9 | 18.0 |
| 50°-60° | 1795.3 | 23.2 |
| 60°-70° | 1619.0 | 20.9 |
| 70°-80° | 1004.2 | 13.0 |
| 80°-90° | 168.2 | 2.2 |
| 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° | 7754.0 | 100.0 |
| 0°-180° | 7754.0 | 100.0 |

Coefficient of Utilization



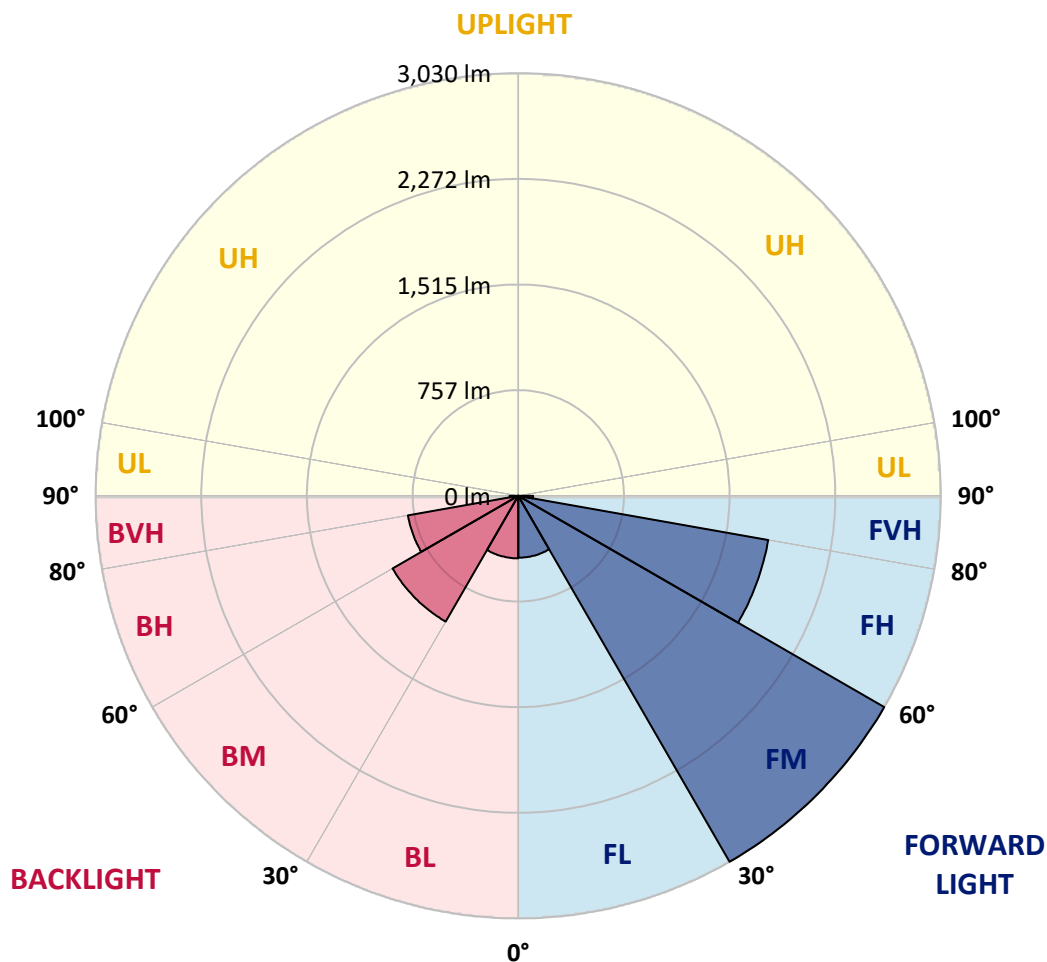
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 443.4 | 5.7 | | | |
| FM (30°-60°) | 3029.8 | 39.1 | | | |
| FH (60°-80°) | 1819.9 | 23.5 | | | G2/5000 |
| FVH (80°-90°) | 106.4 | 1.4 | | | G2/225 |
| BL (0°-30°) | 448.4 | 5.8 | B1/500 | | |
| BM (30°-60°) | 1040.8 | 13.4 | B2/2500 | | |
| BH (60°-80°) | 803.3 | 10.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 61.8 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 |
| 2.5° | 774.8 | 776.7 | 778.5 | 774.8 | 778.5 | 780.4 | 776.7 | 776.7 | 778.5 | 774.8 | 774.8 |
| 5° | 769.1 | 771.0 | 774.8 | 776.7 | 784.2 | 787.9 | 789.8 | 789.8 | 791.7 | 789.8 | 791.7 |
| 7.5° | 754.1 | 754.1 | 761.6 | 765.4 | 776.7 | 789.8 | 797.3 | 808.6 | 808.6 | 810.5 | 816.1 |
| 10° | 769.1 | 769.1 | 774.8 | 780.4 | 789.8 | 801.1 | 812.4 | 825.5 | 829.3 | 842.5 | 850.0 |
| 12.5° | 791.7 | 795.5 | 803.0 | 810.5 | 821.8 | 834.9 | 844.3 | 857.5 | 859.4 | 872.6 | 887.6 |
| 15° | 829.3 | 833.1 | 836.8 | 846.2 | 861.3 | 878.2 | 895.1 | 904.5 | 908.3 | 915.8 | 927.1 |
| 17.5° | 885.7 | 889.5 | 891.4 | 897.0 | 908.3 | 930.9 | 955.3 | 962.8 | 966.6 | 966.6 | 976.0 |
| 20° | 981.6 | 979.7 | 976.0 | 964.7 | 964.7 | 985.4 | 1019.2 | 1032.4 | 1036.2 | 1028.6 | 1023.0 |
| 22.5° | 1092.6 | 1090.7 | 1075.7 | 1062.5 | 1053.1 | 1056.8 | 1090.7 | 1113.3 | 1111.4 | 1096.3 | 1073.8 |
| 25° | 1237.4 | 1241.1 | 1216.7 | 1182.8 | 1154.6 | 1147.1 | 1167.8 | 1190.4 | 1194.1 | 1165.9 | 1128.3 |
| 27.5° | 1410.4 | 1404.7 | 1391.6 | 1337.0 | 1282.5 | 1248.7 | 1259.9 | 1284.4 | 1286.3 | 1256.2 | 1196.0 |
| 30° | 1613.5 | 1604.1 | 1570.2 | 1513.8 | 1429.2 | 1382.2 | 1372.8 | 1393.5 | 1399.1 | 1348.3 | 1261.8 |
| 32.5° | 1839.1 | 1829.7 | 1786.5 | 1700.0 | 1607.8 | 1528.9 | 1498.8 | 1527.0 | 1523.2 | 1464.9 | 1344.6 |
| 35° | 2111.8 | 2109.9 | 2030.9 | 1923.8 | 1807.2 | 1701.9 | 1660.5 | 1660.5 | 1671.8 | 1585.3 | 1449.9 |
| 37.5° | 2476.6 | 2491.7 | 2375.1 | 2207.7 | 2044.1 | 1903.1 | 1833.5 | 1829.7 | 1831.6 | 1737.6 | 1568.3 |
| 40° | 2805.7 | 2800.1 | 2732.4 | 2576.3 | 2337.5 | 2156.9 | 2053.5 | 2030.9 | 2036.6 | 1916.2 | 1722.5 |
| 42.5° | 2995.7 | 3001.3 | 2984.4 | 2916.7 | 2707.9 | 2480.4 | 2303.6 | 2243.4 | 2245.3 | 2094.9 | 1869.2 |
| 45° | 3114.1 | 3119.8 | 3117.9 | 3151.7 | 3069.0 | 2854.6 | 2602.6 | 2463.5 | 2455.9 | 2298.0 | 2042.2 |
| 47.5° | 3181.8 | 3185.6 | 3210.0 | 3279.6 | 3347.3 | 3298.4 | 2933.6 | 2707.9 | 2692.9 | 2487.9 | 2215.2 |
| 50° | 3106.6 | 3108.5 | 3206.3 | 3371.8 | 3537.2 | 3685.8 | 3272.1 | 2950.5 | 2946.8 | 2698.5 | 2384.5 |
| 52.5° | 2711.7 | 2745.5 | 2961.8 | 3307.8 | 3678.3 | 3960.4 | 3663.2 | 3236.4 | 3204.4 | 2897.9 | 2553.7 |
| 55° | 2213.4 | 2228.4 | 2476.6 | 2916.7 | 3651.9 | 4129.6 | 3958.5 | 3544.8 | 3522.2 | 3119.8 | 2719.2 |
| 57.5° | 1728.2 | 1743.2 | 2038.5 | 2405.2 | 3249.5 | 4120.2 | 4167.2 | 3877.6 | 3826.8 | 3313.5 | 2884.7 |
| 60° | 1115.1 | 1162.2 | 1504.4 | 1955.7 | 2630.8 | 3834.4 | 4272.5 | 4197.3 | 4150.3 | 3505.3 | 3025.7 |
| 62.5° | 757.8 | 765.4 | 979.7 | 1449.9 | 1968.9 | 3116.0 | 4265.0 | 4394.7 | 4387.2 | 3697.1 | 3166.8 |
| 65° | 492.7 | 504.0 | 633.7 | 981.6 | 1408.5 | 2068.6 | 4076.9 | 4490.7 | 4498.2 | 3815.6 | 3258.9 |
| 66° | 417.5 | 425.0 | 524.7 | 825.5 | 1233.6 | 1639.8 | 3911.5 | 4483.1 | 4498.2 | 3870.1 | 3287.1 |
| 67.5° | 362.9 | 368.6 | 419.4 | 609.3 | 1008.0 | 1179.1 | 3480.8 | 4383.5 | 4426.7 | 3920.9 | 3322.9 |
| 70° | 312.2 | 319.7 | 366.7 | 415.6 | 720.2 | 688.3 | 2204.0 | 4127.7 | 4171.0 | 3945.3 | 3345.4 |
| 72.5° | 257.6 | 263.3 | 310.3 | 376.1 | 522.8 | 462.6 | 972.2 | 3533.5 | 3642.5 | 3855.0 | 3309.7 |
| 75° | 203.1 | 206.9 | 250.1 | 314.0 | 400.5 | 361.1 | 423.1 | 2591.3 | 2728.6 | 3398.1 | 3170.5 |
| 77.5° | 158.0 | 159.8 | 193.7 | 244.5 | 366.7 | 280.2 | 261.4 | 1261.8 | 1596.6 | 2625.2 | 2792.6 |
| 80° | 109.1 | 112.8 | 142.9 | 184.3 | 268.9 | 221.9 | 174.9 | 492.7 | 626.2 | 1743.2 | 2117.5 |
| 82.5° | 71.5 | 73.3 | 97.8 | 139.2 | 178.6 | 212.5 | 114.7 | 238.8 | 263.3 | 803.0 | 917.7 |
| 85° | 48.9 | 48.9 | 69.6 | 86.5 | 122.2 | 141.0 | 75.2 | 126.0 | 137.3 | 304.6 | 111.0 |
| 87.5° | 24.4 | 24.4 | 33.8 | 45.1 | 58.3 | 54.5 | 45.1 | 45.1 | 45.1 | 99.7 | 32.0 |
| 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: ISW-PA1D-735-U-T2U

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 |
| 2.5° | 776.7 | 776.7 | 778.5 | 780.4 | 782.3 | 782.3 | 784.2 | 784.2 | 782.3 | 784.2 | 786.1 |
| 5° | 793.6 | 795.5 | 799.2 | 804.9 | 814.3 | 823.7 | 833.1 | 838.7 | 844.3 | 846.2 | 842.5 |
| 7.5° | 819.9 | 823.7 | 836.8 | 851.9 | 866.9 | 889.5 | 902.6 | 910.2 | 913.9 | 917.7 | 913.9 |
| 10° | 853.8 | 861.3 | 880.1 | 906.4 | 932.7 | 960.9 | 976.0 | 987.3 | 989.1 | 992.9 | 989.1 |
| 12.5° | 893.2 | 906.4 | 934.6 | 972.2 | 1004.2 | 1032.4 | 1043.7 | 1036.2 | 1019.2 | 1011.7 | 1009.8 |
| 15° | 940.3 | 953.4 | 992.9 | 1039.9 | 1077.5 | 1090.7 | 1073.8 | 1049.3 | 1030.5 | 1028.6 | 1026.8 |
| 17.5° | 981.6 | 1000.4 | 1055.0 | 1103.9 | 1139.6 | 1126.4 | 1081.3 | 1066.2 | 1060.6 | 1068.1 | 1066.2 |
| 20° | 1034.3 | 1049.3 | 1103.9 | 1164.0 | 1182.8 | 1132.1 | 1100.1 | 1090.7 | 1085.1 | 1085.1 | 1081.3 |
| 22.5° | 1077.5 | 1088.8 | 1154.6 | 1220.5 | 1209.2 | 1135.8 | 1113.3 | 1094.5 | 1075.7 | 1073.8 | 1068.1 |
| 25° | 1128.3 | 1132.1 | 1201.6 | 1273.1 | 1212.9 | 1139.6 | 1100.1 | 1068.1 | 1049.3 | 1043.7 | 1045.6 |
| 27.5° | 1175.3 | 1184.7 | 1244.9 | 1308.8 | 1203.5 | 1118.9 | 1055.0 | 1013.6 | 985.4 | 983.5 | 983.5 |
| 30° | 1235.5 | 1235.5 | 1290.0 | 1348.3 | 1182.8 | 1066.2 | 981.6 | 921.4 | 898.9 | 897.0 | 893.2 |
| 32.5° | 1303.2 | 1291.9 | 1344.6 | 1376.5 | 1137.7 | 994.8 | 882.0 | 814.3 | 778.5 | 771.0 | 765.4 |
| 35° | 1397.2 | 1372.8 | 1410.4 | 1382.2 | 1092.6 | 893.2 | 756.0 | 678.9 | 652.5 | 641.3 | 641.3 |
| 37.5° | 1506.3 | 1470.6 | 1510.0 | 1365.2 | 1023.0 | 774.8 | 624.3 | 566.0 | 537.8 | 520.9 | 526.5 |
| 40° | 1634.2 | 1589.0 | 1611.6 | 1346.4 | 947.8 | 643.1 | 515.3 | 479.5 | 445.7 | 423.1 | 423.1 |
| 42.5° | 1784.6 | 1709.4 | 1726.3 | 1327.6 | 840.6 | 528.4 | 445.7 | 421.2 | 394.9 | 372.3 | 378.0 |
| 45° | 1929.4 | 1856.1 | 1839.1 | 1308.8 | 727.8 | 451.3 | 417.5 | 400.5 | 376.1 | 349.8 | 349.8 |
| 47.5° | 2096.8 | 2002.7 | 1938.8 | 1275.0 | 616.8 | 426.9 | 425.0 | 400.5 | 353.5 | 315.9 | 312.2 |
| 50° | 2254.7 | 2168.2 | 2029.1 | 1224.2 | 554.8 | 447.6 | 423.1 | 364.8 | 319.7 | 295.2 | 293.4 |
| 52.5° | 2422.1 | 2331.8 | 2102.4 | 1162.2 | 522.8 | 438.2 | 389.3 | 334.7 | 300.9 | 276.4 | 270.8 |
| 55° | 2587.6 | 2540.6 | 2168.2 | 1102.0 | 472.0 | 408.1 | 361.1 | 315.9 | 280.2 | 257.6 | 253.9 |
| 57.5° | 2775.6 | 2756.8 | 2224.6 | 1041.8 | 393.0 | 370.5 | 340.4 | 302.8 | 268.9 | 252.0 | 250.1 |
| 60° | 2939.2 | 3005.1 | 2292.3 | 996.7 | 334.7 | 342.3 | 331.0 | 300.9 | 276.4 | 257.6 | 257.6 |
| 62.5° | 3112.2 | 3243.9 | 2352.5 | 938.4 | 291.5 | 325.3 | 332.9 | 299.0 | 267.0 | 250.1 | 250.1 |
| 65° | 3262.7 | 3488.3 | 2414.6 | 831.2 | 261.4 | 312.2 | 327.2 | 278.3 | 240.7 | 227.5 | 223.8 |
| 66° | 3326.6 | 3557.9 | 2433.4 | 765.4 | 250.1 | 302.8 | 317.8 | 267.0 | 229.4 | 218.1 | 216.3 |
| 67.5° | 3401.8 | 3667.0 | 2455.9 | 624.3 | 233.2 | 282.1 | 297.1 | 250.1 | 210.6 | 203.1 | 199.3 |
| 70° | 3507.1 | 3689.6 | 2442.8 | 408.1 | 203.1 | 242.6 | 265.2 | 223.8 | 188.1 | 182.4 | 176.8 |
| 72.5° | 3518.4 | 3535.4 | 2311.1 | 257.6 | 176.8 | 208.7 | 233.2 | 201.2 | 165.5 | 159.8 | 156.1 |
| 75° | 3332.3 | 3132.9 | 1955.7 | 184.3 | 156.1 | 184.3 | 205.0 | 174.9 | 137.3 | 129.8 | 126.0 |
| 77.5° | 2845.2 | 2486.0 | 1406.6 | 137.3 | 135.4 | 158.0 | 171.1 | 152.3 | 114.7 | 109.1 | 107.2 |
| 80° | 1997.1 | 1686.8 | 705.2 | 103.4 | 107.2 | 131.6 | 142.9 | 127.9 | 95.9 | 88.4 | 84.6 |
| 82.5° | 808.6 | 716.5 | 242.6 | 77.1 | 80.9 | 99.7 | 122.2 | 105.3 | 73.3 | 63.9 | 56.4 |
| 85° | 92.1 | 156.1 | 105.3 | 52.7 | 54.5 | 67.7 | 82.7 | 63.9 | 43.3 | 35.7 | 30.1 |
| 87.5° | 18.8 | 33.8 | 37.6 | 20.7 | 18.8 | 26.3 | 37.6 | 22.6 | 15.0 | 5.6 | 7.5 |
| 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)