

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: P595788

Luminaire Tested: **ISW-PA1E-735-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1E-735-U-T3-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6956 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

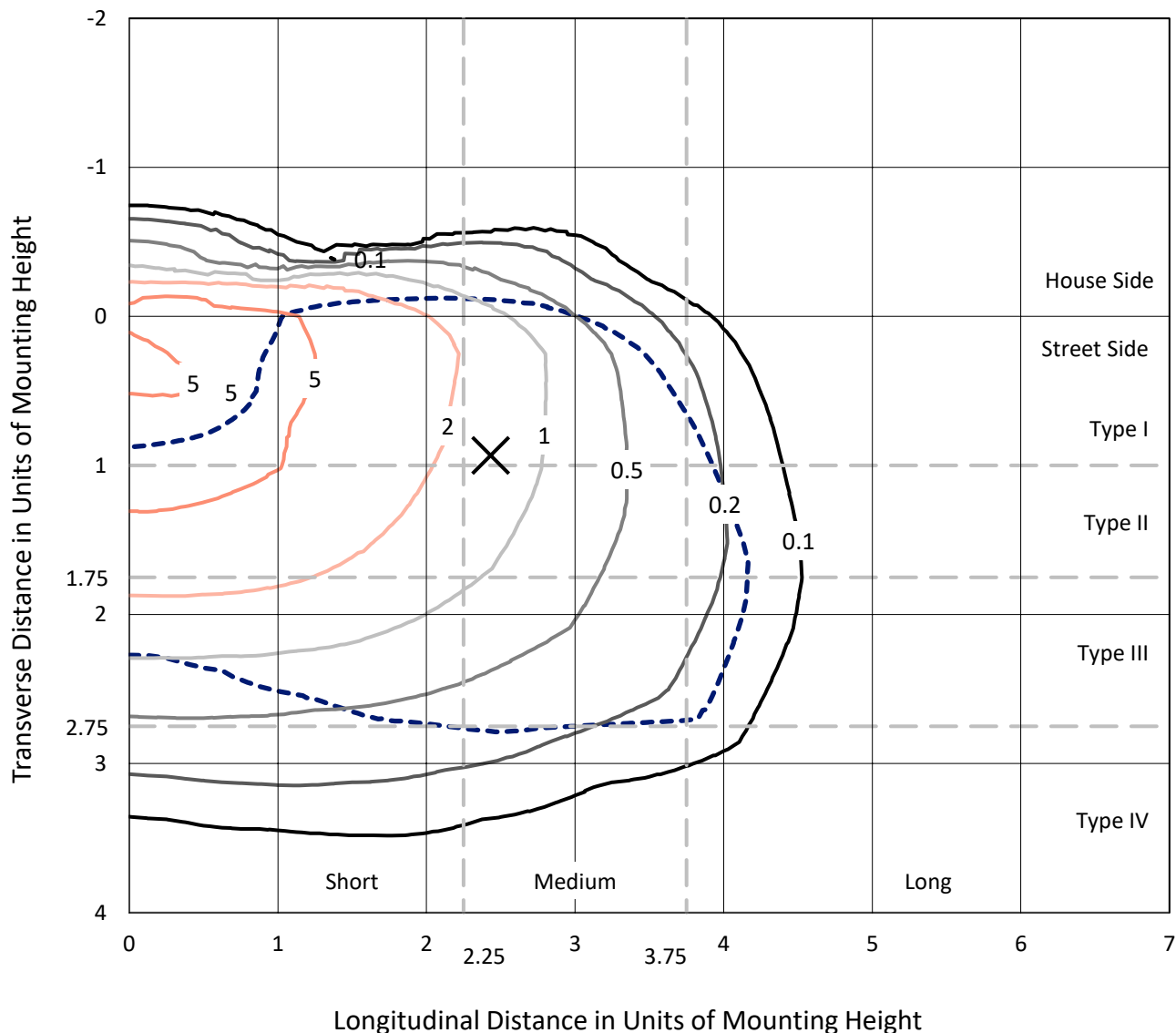
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

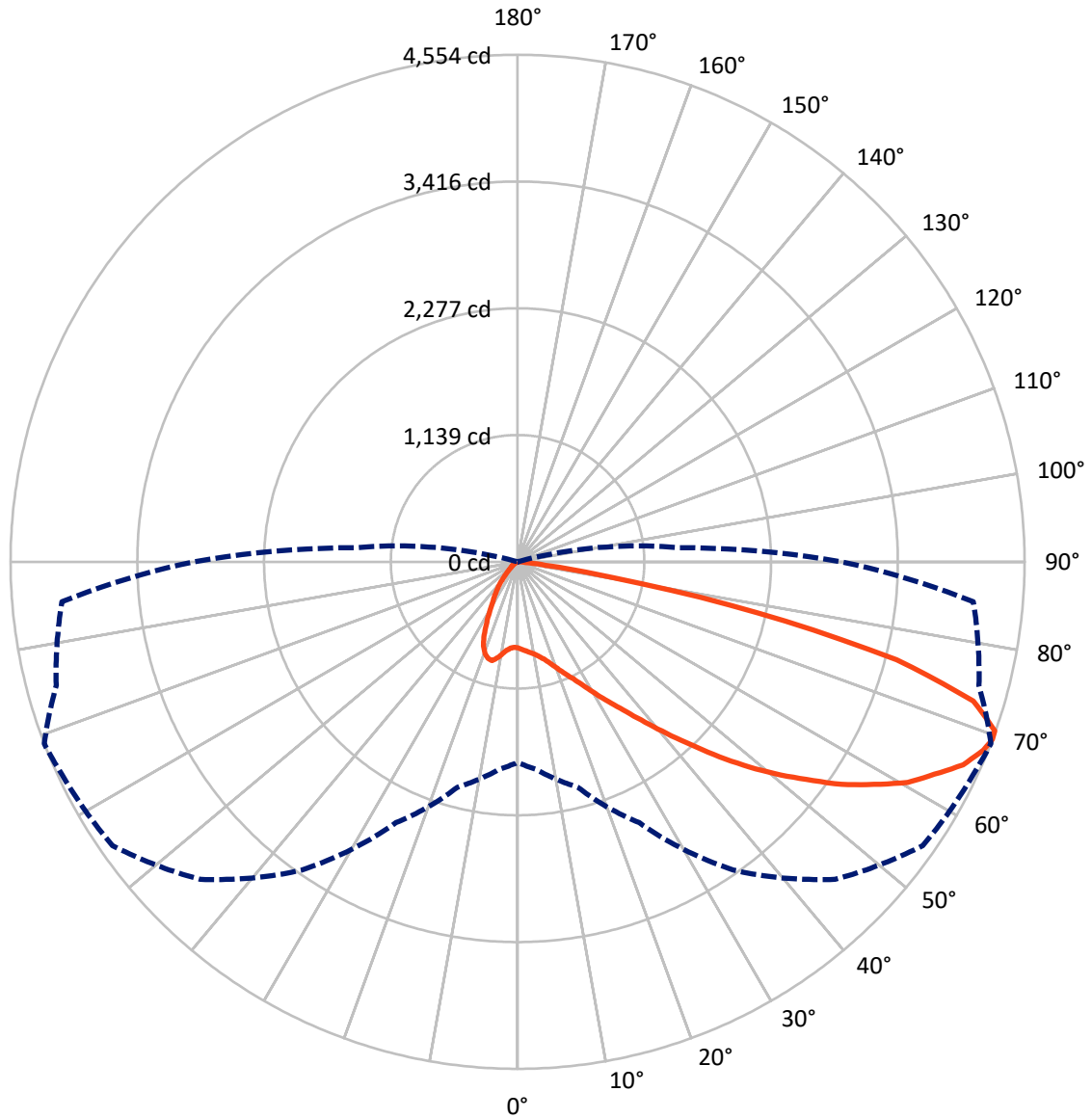
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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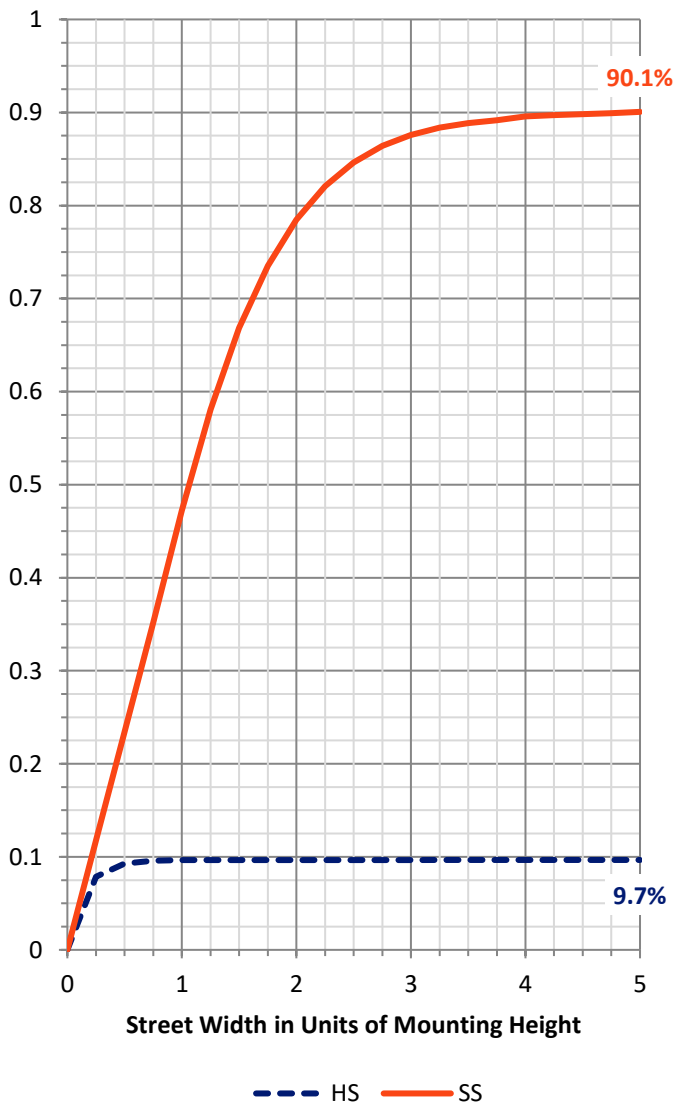
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 677.8 | 0.0 | 677.8 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 6278.2 | 0.0 | 6278.2 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 6956.0 | 0.0 | 6956.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.8 | 1.1 |
| 10°-20° | 195.2 | 2.8 |
| 20°-30° | 325.0 | 4.7 |
| 30°-40° | 585.1 | 8.4 |
| 40°-50° | 1060.9 | 15.3 |
| 50°-60° | 1658.0 | 23.8 |
| 60°-70° | 1918.2 | 27.6 |
| 70°-80° | 1072.7 | 15.4 |
| 80°-90° | 67.0 | 1.0 |
| 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° | 6956.0 | 100.0 |
| 0°-180° | 6956.0 | 100.0 |

Coefficient of Utilization



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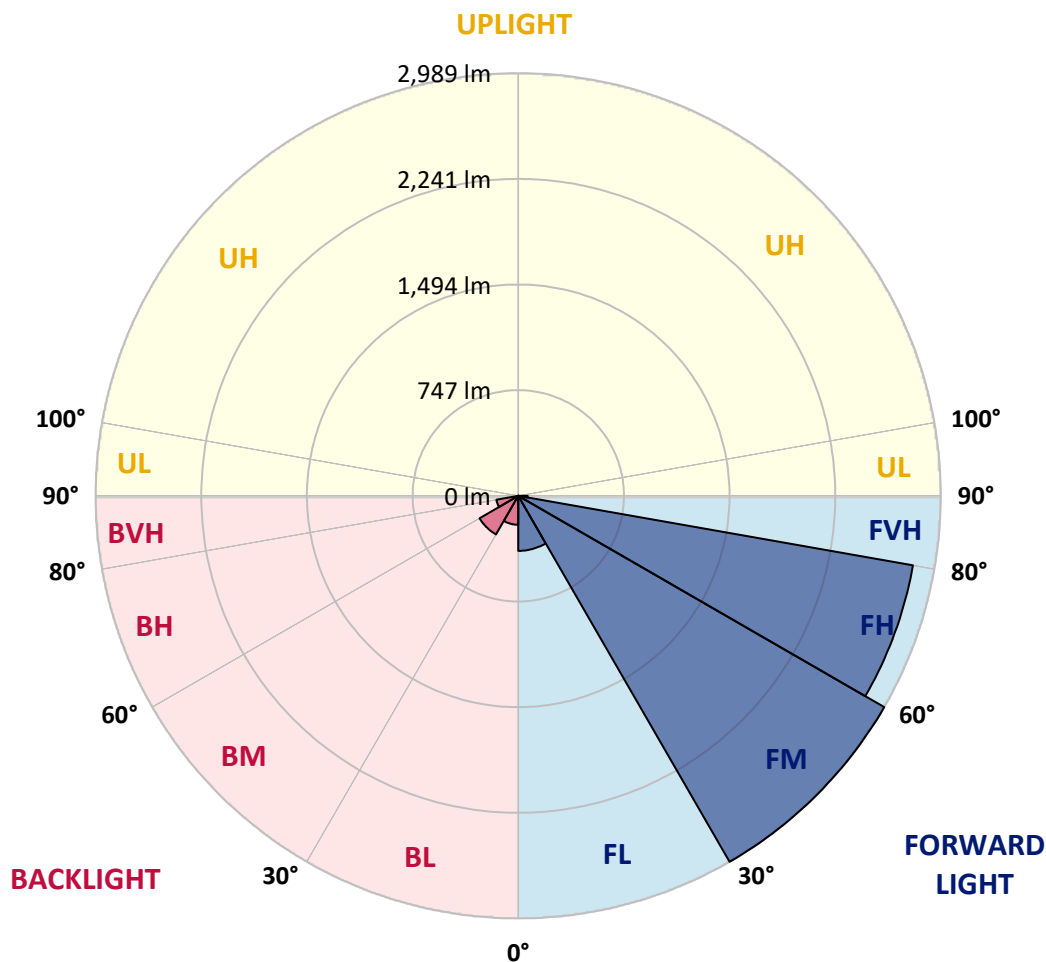
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 389.2 | 5.6 | | | |
| FM (30°-60°) | 2988.5 | 43.0 | | | |
| FH (60°-80°) | 2834.1 | 40.7 | | | G2/5000 |
| FVH (80°-90°) | 66.5 | 1.0 | | | G1/100 |
| BL (0°-30°) | 204.8 | 2.9 | B1/500 | | |
| BM (30°-60°) | 315.5 | 4.5 | B1/1000 | | |
| BH (60°-80°) | 156.9 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.5 | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 |
| 2.5° | 801.5 | 801.5 | 801.5 | 796.9 | 799.2 | 796.9 | 794.6 | 787.6 | 790.0 | 787.6 | 780.7 |
| 5° | 773.7 | 776.1 | 783.0 | 787.6 | 799.2 | 803.9 | 806.2 | 806.2 | 803.9 | 799.2 | 794.6 |
| 7.5° | 720.5 | 720.5 | 727.4 | 741.3 | 764.5 | 790.0 | 810.8 | 822.4 | 824.7 | 824.7 | 817.8 |
| 10° | 706.6 | 706.6 | 715.8 | 725.1 | 748.3 | 778.4 | 810.8 | 838.6 | 843.2 | 847.9 | 845.6 |
| 12.5° | 699.6 | 701.9 | 711.2 | 727.4 | 757.5 | 785.3 | 820.1 | 859.5 | 873.4 | 884.9 | 887.3 |
| 15° | 708.9 | 708.9 | 718.1 | 734.4 | 769.1 | 808.5 | 852.5 | 896.5 | 910.4 | 926.6 | 938.2 |
| 17.5° | 722.8 | 727.4 | 732.0 | 748.3 | 780.7 | 829.3 | 887.3 | 945.2 | 961.4 | 982.2 | 991.5 |
| 20° | 745.9 | 745.9 | 750.6 | 764.5 | 799.2 | 857.1 | 938.2 | 1007.7 | 1021.6 | 1035.5 | 1047.1 |
| 22.5° | 773.7 | 776.1 | 776.1 | 787.6 | 827.0 | 889.6 | 982.2 | 1068.0 | 1091.1 | 1098.1 | 1102.7 |
| 25° | 857.1 | 852.5 | 836.3 | 829.3 | 859.5 | 926.6 | 1035.5 | 1139.8 | 1165.2 | 1172.2 | 1162.9 |
| 27.5° | 1030.9 | 1012.4 | 968.3 | 922.0 | 917.4 | 984.6 | 1107.3 | 1230.1 | 1257.9 | 1260.2 | 1227.8 |
| 30° | 1248.6 | 1251.0 | 1179.1 | 1079.5 | 1012.4 | 1047.1 | 1186.1 | 1343.6 | 1371.4 | 1359.8 | 1308.9 |
| 32.5° | 1517.4 | 1505.8 | 1452.5 | 1308.9 | 1174.5 | 1144.4 | 1271.8 | 1461.8 | 1494.2 | 1475.7 | 1408.5 |
| 35° | 1746.7 | 1753.7 | 1688.8 | 1561.4 | 1392.3 | 1295.0 | 1376.1 | 1593.8 | 1633.2 | 1600.8 | 1517.4 |
| 37.5° | 1939.0 | 1948.3 | 1908.9 | 1804.6 | 1654.0 | 1501.2 | 1512.7 | 1749.0 | 1802.3 | 1769.9 | 1665.6 |
| 40° | 2152.1 | 2159.1 | 2142.9 | 2029.3 | 1895.0 | 1746.7 | 1695.7 | 1927.4 | 1999.2 | 1955.2 | 1846.3 |
| 42.5° | 2386.1 | 2411.6 | 2383.8 | 2293.4 | 2154.4 | 2027.0 | 1950.6 | 2145.2 | 2217.0 | 2189.2 | 2043.2 |
| 45° | 2705.8 | 2708.1 | 2675.7 | 2585.3 | 2441.7 | 2337.4 | 2244.8 | 2376.8 | 2469.5 | 2434.7 | 2263.3 |
| 47.5° | 2942.1 | 2958.3 | 2939.8 | 2877.2 | 2761.4 | 2691.9 | 2564.5 | 2631.7 | 2729.0 | 2684.9 | 2490.3 |
| 50° | 3122.8 | 3166.8 | 3150.6 | 3169.1 | 3111.2 | 3081.1 | 2886.5 | 2895.7 | 2990.7 | 2953.7 | 2722.0 |
| 52.5° | 3222.4 | 3278.0 | 3282.6 | 3377.6 | 3426.2 | 3500.4 | 3199.2 | 3185.3 | 3245.6 | 3213.1 | 2958.3 |
| 55° | 3208.5 | 3222.4 | 3338.2 | 3512.0 | 3701.9 | 3871.0 | 3505.0 | 3447.1 | 3530.5 | 3440.1 | 3208.5 |
| 57.5° | 3074.1 | 3108.9 | 3312.7 | 3528.2 | 3864.1 | 4109.6 | 3769.1 | 3704.2 | 3773.7 | 3653.3 | 3465.6 |
| 60° | 2881.8 | 2932.8 | 3194.6 | 3502.7 | 3959.1 | 4253.3 | 4026.2 | 3961.4 | 4023.9 | 3878.0 | 3757.5 |
| 62.5° | 2708.1 | 2731.3 | 2972.2 | 3396.1 | 3903.5 | 4246.3 | 4225.5 | 4165.2 | 4202.3 | 4049.4 | 4007.7 |
| 65° | 2460.2 | 2469.5 | 2708.1 | 3203.9 | 3780.7 | 4200.0 | 4334.4 | 4357.5 | 4396.9 | 4193.0 | 4186.1 |
| 67.5° | 2078.0 | 2098.8 | 2335.1 | 2867.9 | 3576.8 | 4109.6 | 4420.1 | 4466.4 | 4512.7 | 4269.5 | 4218.5 |
| 69° | 1802.3 | 1869.5 | 2096.5 | 2585.3 | 3379.9 | 4033.2 | 4443.2 | 4517.4 | 4554.4 | 4290.3 | 4109.6 |
| 70° | 1577.6 | 1635.5 | 1897.3 | 2367.6 | 3206.2 | 3947.5 | 4459.4 | 4510.4 | 4547.5 | 4246.3 | 3931.3 |
| 72.5° | 792.3 | 866.4 | 1225.5 | 1728.2 | 2548.3 | 3556.0 | 4376.0 | 4320.5 | 4281.1 | 3905.8 | 3180.7 |
| 75° | 305.8 | 317.4 | 525.9 | 984.6 | 1593.8 | 2610.8 | 3736.7 | 3632.4 | 3516.6 | 2962.9 | 1885.7 |
| 77.5° | 169.1 | 166.8 | 229.3 | 435.5 | 678.8 | 1276.4 | 2527.4 | 2360.6 | 2200.8 | 1591.5 | 764.5 |
| 80° | 71.8 | 76.4 | 99.6 | 208.5 | 356.8 | 442.5 | 1227.8 | 1091.1 | 868.7 | 505.0 | 183.0 |
| 82.5° | 44.0 | 46.3 | 69.5 | 127.4 | 247.9 | 169.1 | 398.5 | 340.5 | 250.2 | 136.7 | 44.0 |
| 85° | 13.9 | 16.2 | 48.6 | 85.7 | 120.5 | 69.5 | 90.3 | 78.8 | 69.5 | 57.9 | 13.9 |
| 87.5° | 2.3 | 2.3 | 18.5 | 46.3 | 32.4 | 11.6 | 9.3 | 16.2 | 25.5 | 27.8 | 4.6 |
| 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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 CATALOG NUMBER: ISW-PA1E-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 | 773.7 |
| 2.5° | 778.4 | 773.7 | 769.1 | 766.8 | 766.8 | 762.2 | 759.8 | 757.5 | 757.5 | 755.2 | 755.2 |
| 5° | 787.6 | 783.0 | 778.4 | 776.1 | 771.4 | 769.1 | 769.1 | 769.1 | 766.8 | 769.1 | 771.4 |
| 7.5° | 810.8 | 803.9 | 801.5 | 799.2 | 799.2 | 792.3 | 780.7 | 750.6 | 720.5 | 711.2 | 701.9 |
| 10° | 843.2 | 840.9 | 840.9 | 840.9 | 824.7 | 764.5 | 681.1 | 606.9 | 567.6 | 535.1 | 535.1 |
| 12.5° | 889.6 | 889.6 | 887.3 | 880.3 | 796.9 | 651.0 | 521.2 | 410.0 | 345.2 | 308.1 | 312.7 |
| 15° | 940.5 | 938.2 | 942.9 | 898.8 | 701.9 | 502.7 | 315.1 | 222.4 | 187.6 | 183.0 | 183.0 |
| 17.5° | 993.8 | 998.5 | 993.8 | 850.2 | 576.8 | 310.4 | 187.6 | 169.1 | 164.5 | 164.5 | 164.5 |
| 20° | 1049.4 | 1044.8 | 1037.8 | 766.8 | 419.3 | 194.6 | 162.2 | 157.5 | 152.9 | 150.6 | 150.6 |
| 22.5° | 1105.0 | 1100.4 | 1054.1 | 660.2 | 261.8 | 159.8 | 152.9 | 143.6 | 136.7 | 134.4 | 134.4 |
| 25° | 1158.3 | 1158.3 | 1023.9 | 523.6 | 178.4 | 150.6 | 139.0 | 129.7 | 122.8 | 115.8 | 115.8 |
| 27.5° | 1225.5 | 1230.1 | 975.3 | 366.0 | 150.6 | 139.0 | 125.1 | 111.2 | 101.9 | 97.3 | 97.3 |
| 30° | 1301.9 | 1308.9 | 896.5 | 238.6 | 136.7 | 122.8 | 108.9 | 92.7 | 78.8 | 74.1 | 71.8 |
| 32.5° | 1392.3 | 1399.2 | 806.2 | 157.5 | 122.8 | 106.6 | 90.3 | 69.5 | 55.6 | 53.3 | 51.0 |
| 35° | 1508.1 | 1491.9 | 697.3 | 125.1 | 106.6 | 90.3 | 69.5 | 48.6 | 39.4 | 37.1 | 37.1 |
| 37.5° | 1651.7 | 1617.0 | 572.2 | 108.9 | 90.3 | 71.8 | 51.0 | 32.4 | 25.5 | 25.5 | 23.2 |
| 40° | 1816.2 | 1718.9 | 442.5 | 97.3 | 76.4 | 55.6 | 32.4 | 20.8 | 16.2 | 16.2 | 16.2 |
| 42.5° | 1996.9 | 1804.6 | 315.1 | 85.7 | 62.5 | 39.4 | 20.8 | 11.6 | 9.3 | 9.3 | 9.3 |
| 45° | 2205.4 | 1883.4 | 215.4 | 74.1 | 53.3 | 27.8 | 11.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 47.5° | 2413.9 | 1934.4 | 143.6 | 64.9 | 39.4 | 16.2 | 6.9 | 2.3 | 2.3 | 2.3 | 2.3 |
| 50° | 2624.7 | 1973.7 | 111.2 | 55.6 | 27.8 | 9.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 2812.3 | 2001.5 | 90.3 | 46.3 | 18.5 | 6.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 2974.5 | 2003.9 | 78.8 | 37.1 | 13.9 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 3139.0 | 1985.3 | 67.2 | 27.8 | 9.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3238.6 | 1936.7 | 53.3 | 20.8 | 6.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 3298.8 | 1855.6 | 41.7 | 13.9 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 3264.1 | 1753.7 | 30.1 | 9.3 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3101.9 | 1596.1 | 20.8 | 6.9 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69° | 2909.6 | 1452.5 | 18.5 | 4.6 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2740.5 | 1341.3 | 16.2 | 4.6 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2040.9 | 864.1 | 13.9 | 4.6 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1146.7 | 289.6 | 9.3 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 430.9 | 74.1 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 95.0 | 18.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 20.8 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.3 | 0.0 | 0.0 | 0.0 | 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)