

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: P595561

Luminaire Tested: **ISW-PA1B-750-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1B-750-U-T2U-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

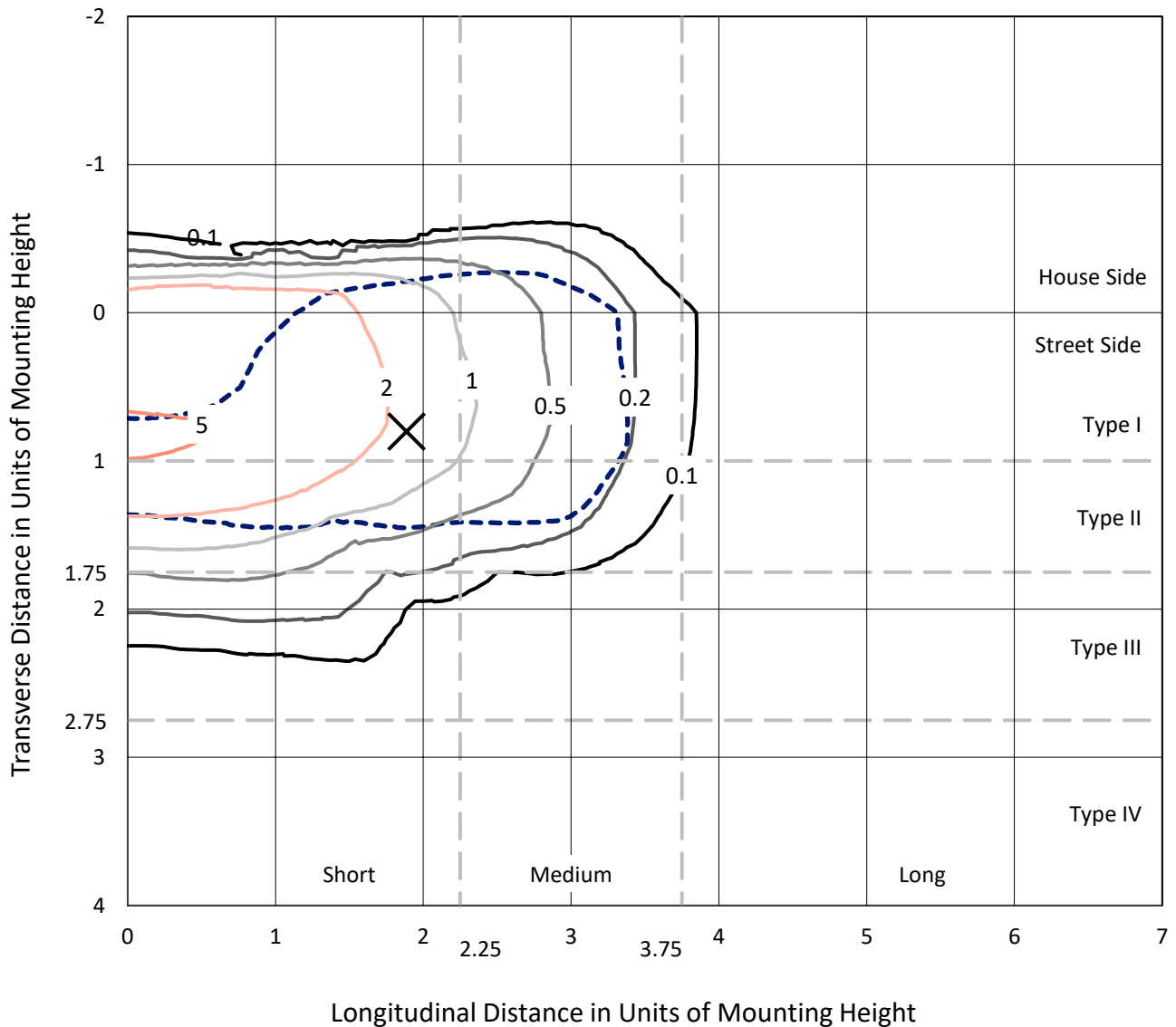
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

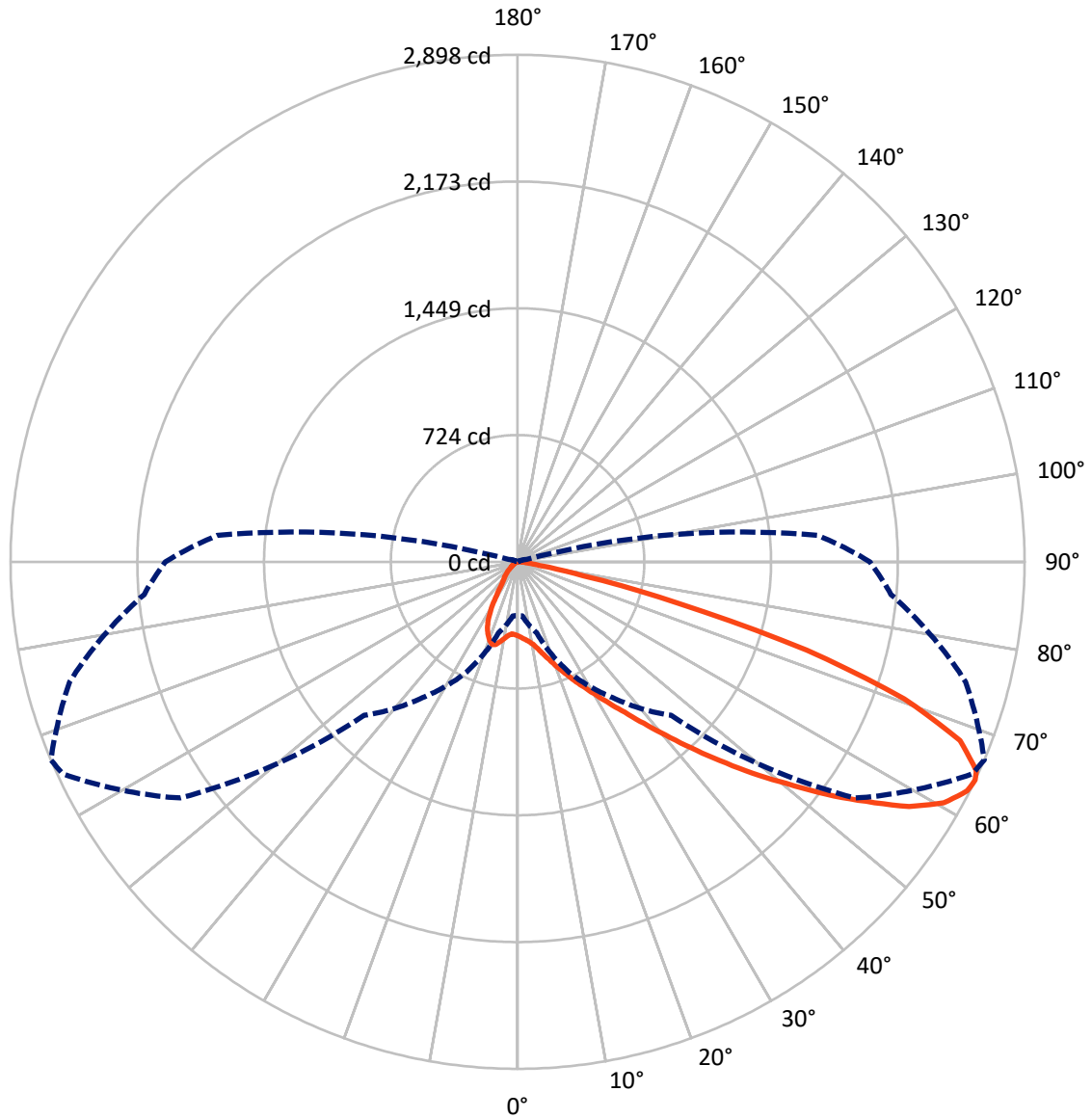
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 466.8 | 0.0 | 466.8 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 3182.2 | 0.0 | 3182.2 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 3649.0 | 0.0 | 3649.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.2 | 1.1 |
| 10°-20° | 118.7 | 3.3 |
| 20°-30° | 215.4 | 5.9 |
| 30°-40° | 412.6 | 11.3 |
| 40°-50° | 760.5 | 20.8 |
| 50°-60° | 982.2 | 26.9 |
| 60°-70° | 804.5 | 22.0 |
| 70°-80° | 295.8 | 8.1 |
| 80°-90° | 19.1 | 0.5 |
| 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° | 3649.0 | 100.0 |
| 0°-180° | 3649.0 | 100.0 |

Coefficient of Utilization

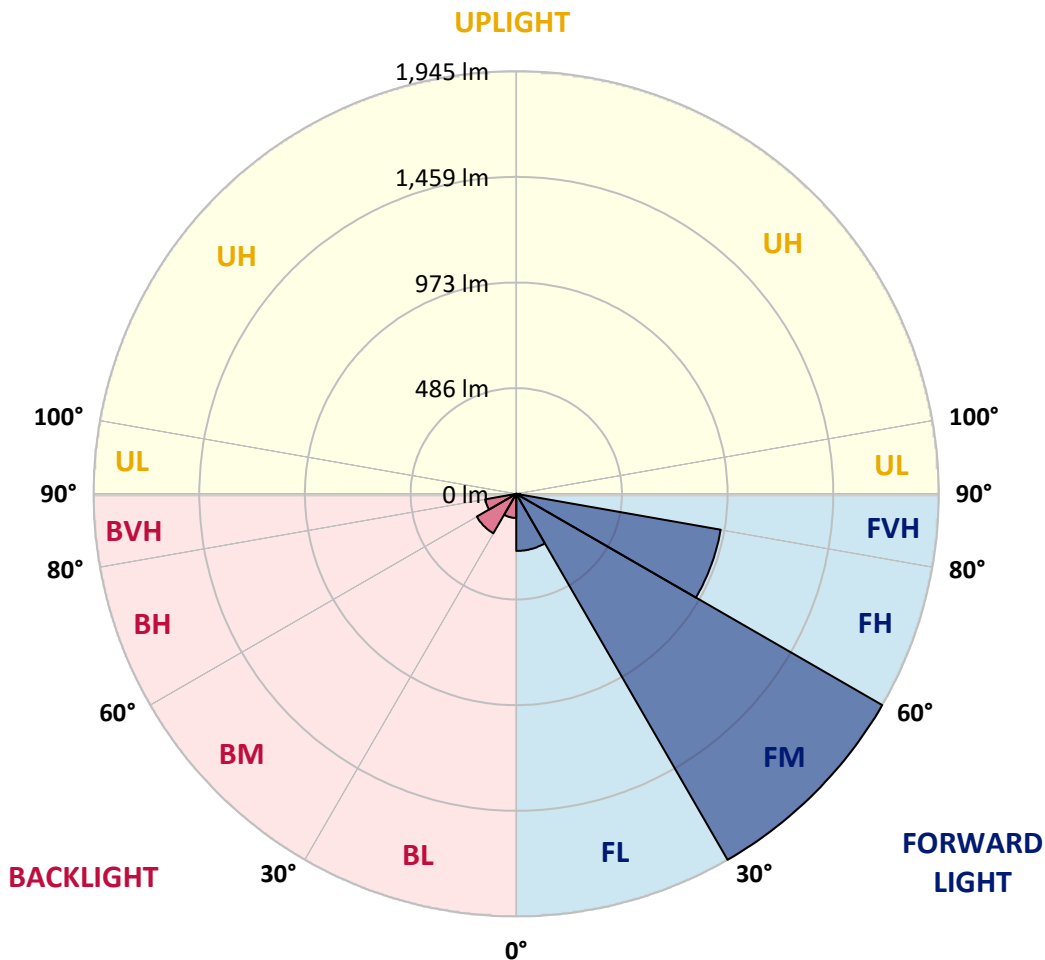


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 263.1 | 7.2 | | | |
| FM (30°-60°) | 1945.4 | 53.3 | | | |
| FH (60°-80°) | 955.5 | 26.2 | | | G1/1800 |
| FVH (80°-90°) | 18.2 | 0.5 | | | G1/100 |
| BL (0°-30°) | 111.2 | 3.0 | B1/500 | | |
| BM (30°-60°) | 209.9 | 5.8 | B0/220 | | |
| BH (60°-80°) | 144.8 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 |
| 2.5° | 439.0 | 439.0 | 441.6 | 440.3 | 440.3 | 437.8 | 434.0 | 435.3 | 434.0 | 432.8 | 429.0 |
| 5° | 431.5 | 432.8 | 434.0 | 436.5 | 441.6 | 444.1 | 444.1 | 445.3 | 445.3 | 444.1 | 439.0 |
| 7.5° | 427.8 | 430.3 | 432.8 | 435.3 | 441.6 | 445.3 | 451.6 | 459.1 | 459.1 | 460.4 | 455.4 |
| 10° | 441.6 | 444.1 | 447.8 | 451.6 | 457.9 | 464.1 | 469.2 | 477.9 | 477.9 | 480.4 | 479.2 |
| 12.5° | 470.4 | 470.4 | 471.7 | 474.2 | 483.0 | 490.5 | 499.3 | 506.8 | 508.0 | 509.3 | 505.5 |
| 15° | 505.5 | 505.5 | 506.8 | 506.8 | 511.8 | 523.1 | 539.4 | 546.9 | 545.7 | 544.4 | 536.9 |
| 17.5° | 545.7 | 545.7 | 545.7 | 546.9 | 549.4 | 555.7 | 574.5 | 589.6 | 588.3 | 587.1 | 572.0 |
| 20° | 583.3 | 585.8 | 588.3 | 589.6 | 592.1 | 597.1 | 617.2 | 634.7 | 638.5 | 633.5 | 607.1 |
| 22.5° | 626.0 | 627.2 | 628.5 | 632.2 | 638.5 | 641.0 | 661.1 | 687.4 | 691.2 | 684.9 | 649.8 |
| 25° | 668.6 | 671.1 | 674.9 | 679.9 | 686.2 | 698.7 | 712.5 | 747.6 | 751.4 | 743.9 | 696.2 |
| 27.5° | 762.7 | 761.4 | 750.1 | 741.4 | 742.6 | 751.4 | 770.2 | 807.8 | 811.6 | 804.1 | 742.6 |
| 30° | 923.3 | 908.2 | 886.9 | 848.0 | 810.4 | 814.1 | 840.5 | 876.8 | 883.1 | 873.1 | 794.1 |
| 32.5° | 1151.6 | 1136.5 | 1083.8 | 998.5 | 915.7 | 888.1 | 922.0 | 957.1 | 964.7 | 953.4 | 854.3 |
| 35° | 1373.6 | 1369.8 | 1319.7 | 1216.8 | 1076.3 | 999.8 | 1008.6 | 1053.7 | 1056.2 | 1042.4 | 929.5 |
| 37.5° | 1648.3 | 1634.5 | 1565.5 | 1450.1 | 1284.5 | 1147.8 | 1122.7 | 1165.4 | 1171.6 | 1155.3 | 1021.1 |
| 40° | 1830.2 | 1825.2 | 1783.8 | 1702.3 | 1524.1 | 1352.3 | 1262.0 | 1303.3 | 1302.1 | 1278.3 | 1126.5 |
| 42.5° | 1935.6 | 1938.1 | 1935.6 | 1896.7 | 1795.1 | 1598.1 | 1446.4 | 1448.9 | 1452.6 | 1427.5 | 1248.2 |
| 45° | 2007.1 | 2007.1 | 2010.8 | 2042.2 | 2003.3 | 1891.7 | 1670.9 | 1614.4 | 1619.5 | 1580.6 | 1374.9 |
| 47.5° | 2005.8 | 2013.4 | 2033.4 | 2106.2 | 2158.9 | 2165.1 | 1951.9 | 1807.6 | 1805.1 | 1746.2 | 1505.3 |
| 50° | 1870.3 | 1865.3 | 1948.1 | 2111.2 | 2269.3 | 2390.9 | 2217.8 | 2012.1 | 1990.8 | 1918.0 | 1640.8 |
| 52.5° | 1565.5 | 1581.8 | 1719.8 | 1959.4 | 2295.6 | 2544.0 | 2447.4 | 2235.4 | 2207.8 | 2088.6 | 1760.0 |
| 55° | 1299.6 | 1317.1 | 1451.4 | 1685.9 | 2152.6 | 2597.9 | 2601.7 | 2472.5 | 2417.3 | 2236.6 | 1882.9 |
| 57.5° | 975.9 | 1009.8 | 1208.0 | 1428.8 | 1839.0 | 2463.7 | 2656.9 | 2699.5 | 2639.3 | 2379.6 | 1983.2 |
| 60° | 623.4 | 643.5 | 865.6 | 1137.8 | 1490.3 | 2112.5 | 2645.6 | 2831.2 | 2798.6 | 2510.1 | 2067.3 |
| 62.5° | 407.7 | 419.0 | 572.0 | 856.8 | 1135.3 | 1591.9 | 2511.4 | 2883.9 | 2883.9 | 2597.9 | 2130.0 |
| 64° | 307.3 | 309.8 | 419.0 | 696.2 | 947.1 | 1240.6 | 2353.3 | 2867.6 | 2897.7 | 2650.6 | 2142.6 |
| 65° | 243.4 | 244.6 | 327.4 | 578.3 | 850.5 | 1017.3 | 2215.3 | 2832.5 | 2881.4 | 2670.7 | 2150.1 |
| 67.5° | 170.6 | 174.4 | 212.0 | 333.7 | 609.7 | 587.1 | 1642.0 | 2666.9 | 2727.1 | 2676.9 | 2140.0 |
| 70° | 148.0 | 153.0 | 178.1 | 218.3 | 435.3 | 341.2 | 873.1 | 2273.0 | 2344.5 | 2493.8 | 1992.0 |
| 72.5° | 112.9 | 119.2 | 149.3 | 184.4 | 306.1 | 230.8 | 337.4 | 1614.4 | 1727.3 | 1928.1 | 1644.6 |
| 75° | 81.5 | 84.0 | 110.4 | 150.5 | 214.5 | 178.1 | 145.5 | 832.9 | 947.1 | 1137.8 | 1022.4 |
| 77.5° | 51.4 | 55.2 | 75.3 | 112.9 | 191.9 | 135.5 | 86.6 | 303.6 | 382.6 | 495.5 | 446.6 |
| 80° | 30.1 | 31.4 | 45.2 | 77.8 | 129.2 | 100.4 | 55.2 | 107.9 | 130.5 | 184.4 | 119.2 |
| 82.5° | 17.6 | 18.8 | 28.9 | 52.7 | 84.0 | 77.8 | 35.1 | 55.2 | 61.5 | 70.2 | 25.1 |
| 85° | 6.3 | 6.3 | 20.1 | 31.4 | 45.2 | 38.9 | 20.1 | 28.9 | 31.4 | 38.9 | 7.5 |
| 87.5° | 1.3 | 1.3 | 10.0 | 16.3 | 16.3 | 6.3 | 10.0 | 12.5 | 15.1 | 21.3 | 2.5 |
| 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° | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 | 424.0 |
| 2.5° | 427.8 | 424.0 | 420.2 | 415.2 | 411.5 | 403.9 | 400.2 | 395.1 | 393.9 | 391.4 | 390.1 |
| 5° | 437.8 | 431.5 | 422.7 | 410.2 | 402.7 | 391.4 | 383.9 | 376.3 | 375.1 | 372.6 | 371.3 |
| 7.5° | 451.6 | 445.3 | 434.0 | 420.2 | 407.7 | 396.4 | 387.6 | 376.3 | 365.0 | 356.3 | 356.3 |
| 10° | 474.2 | 466.6 | 451.6 | 439.0 | 424.0 | 400.2 | 358.8 | 321.1 | 297.3 | 282.2 | 277.2 |
| 12.5° | 501.8 | 491.7 | 475.4 | 460.4 | 431.5 | 356.3 | 292.3 | 243.4 | 203.2 | 184.4 | 180.6 |
| 15° | 530.6 | 521.8 | 505.5 | 483.0 | 396.4 | 297.3 | 213.3 | 138.0 | 99.1 | 81.5 | 84.0 |
| 17.5° | 562.0 | 549.4 | 530.6 | 485.5 | 348.7 | 222.0 | 114.2 | 70.2 | 60.2 | 57.7 | 57.7 |
| 20° | 594.6 | 578.3 | 559.5 | 457.9 | 287.3 | 128.0 | 65.2 | 52.7 | 48.9 | 45.2 | 46.4 |
| 22.5° | 629.7 | 609.7 | 580.8 | 416.5 | 205.7 | 69.0 | 50.2 | 42.7 | 37.6 | 36.4 | 36.4 |
| 25° | 667.4 | 638.5 | 602.1 | 368.8 | 119.2 | 52.7 | 41.4 | 33.9 | 30.1 | 28.9 | 27.6 |
| 27.5° | 707.5 | 671.1 | 607.1 | 306.1 | 67.7 | 43.9 | 32.6 | 26.3 | 22.6 | 21.3 | 21.3 |
| 30° | 743.9 | 703.7 | 595.9 | 227.1 | 51.4 | 36.4 | 26.3 | 20.1 | 17.6 | 17.6 | 17.6 |
| 32.5° | 792.8 | 740.1 | 560.7 | 141.8 | 41.4 | 28.9 | 20.1 | 16.3 | 13.8 | 13.8 | 13.8 |
| 35° | 856.8 | 794.1 | 525.6 | 75.3 | 33.9 | 23.8 | 16.3 | 12.5 | 11.3 | 11.3 | 11.3 |
| 37.5° | 944.6 | 865.6 | 494.2 | 47.7 | 27.6 | 18.8 | 12.5 | 10.0 | 8.8 | 8.8 | 8.8 |
| 40° | 1034.9 | 950.9 | 450.3 | 36.4 | 22.6 | 15.1 | 10.0 | 7.5 | 6.3 | 6.3 | 7.5 |
| 42.5° | 1147.8 | 1050.0 | 400.2 | 31.4 | 18.8 | 12.5 | 7.5 | 5.0 | 3.8 | 5.0 | 5.0 |
| 45° | 1262.0 | 1154.1 | 329.9 | 26.3 | 16.3 | 10.0 | 5.0 | 2.5 | 2.5 | 3.8 | 3.8 |
| 47.5° | 1379.9 | 1264.5 | 255.9 | 22.6 | 13.8 | 7.5 | 3.8 | 1.3 | 1.3 | 2.5 | 2.5 |
| 50° | 1501.5 | 1373.6 | 190.7 | 20.1 | 11.3 | 6.3 | 2.5 | 1.3 | 0.0 | 1.3 | 1.3 |
| 52.5° | 1623.2 | 1479.0 | 148.0 | 17.6 | 10.0 | 5.0 | 1.3 | 0.0 | 0.0 | 0.0 | 1.3 |
| 55° | 1736.1 | 1574.3 | 117.9 | 15.1 | 8.8 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 1831.5 | 1644.6 | 94.1 | 13.8 | 7.5 | 2.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1921.8 | 1699.7 | 72.8 | 11.3 | 6.3 | 2.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1985.8 | 1721.1 | 59.0 | 10.0 | 5.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64° | 2013.4 | 1723.6 | 51.4 | 8.8 | 5.0 | 2.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2029.7 | 1716.1 | 47.7 | 8.8 | 5.0 | 2.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2033.4 | 1674.7 | 36.4 | 7.5 | 3.8 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1923.0 | 1530.4 | 26.3 | 5.0 | 2.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1606.9 | 1169.1 | 17.6 | 3.8 | 2.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1003.5 | 505.5 | 10.0 | 3.8 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 415.2 | 153.0 | 6.3 | 2.5 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 95.3 | 36.4 | 2.5 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 22.6 | 6.3 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.0 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.5 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 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)