

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: P595732

Luminaire Tested: **ISW-PA1D-760-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595732
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-PA1D-760-U-T2U-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 5700K, 800mA 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: 5873 lumens
Efficiency: N/A
Efficacy: 94.1 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

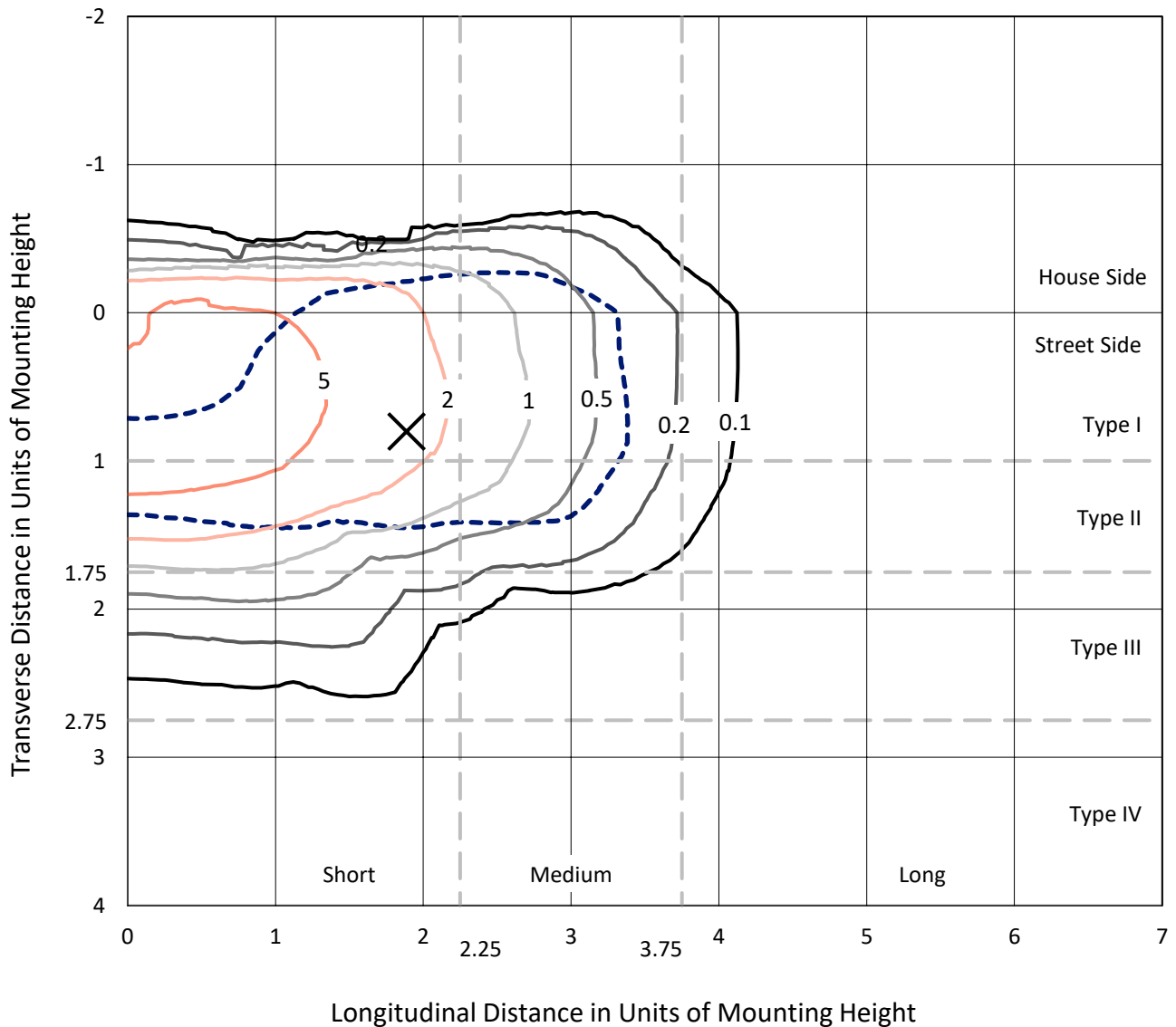
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

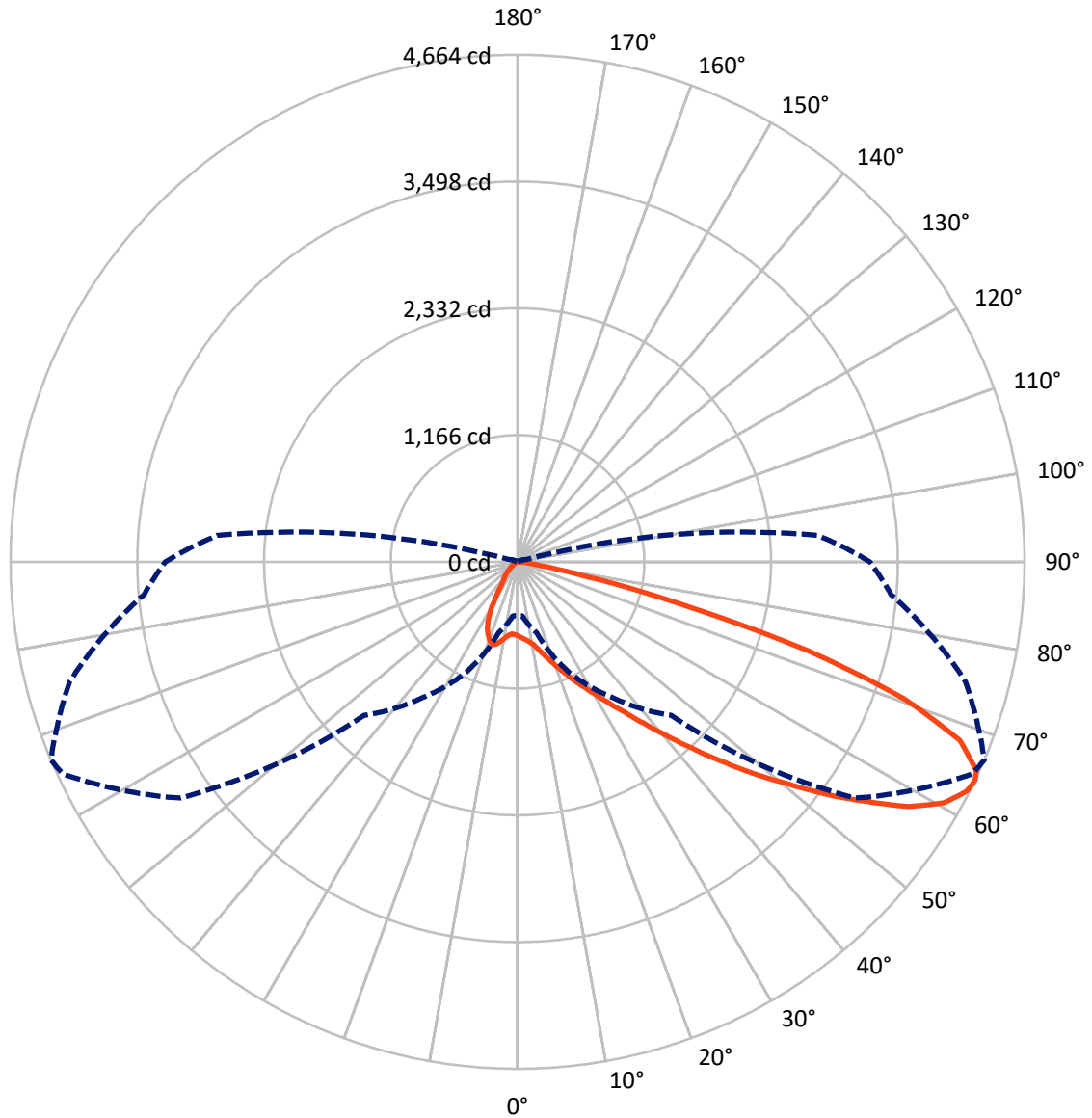
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9 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 | 751.3 | 0.0 | 751.3 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 5121.7 | 0.0 | 5121.7 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 5873.0 | 0.0 | 5873.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.7 | 1.1 |
| 10°-20° | 191.1 | 3.3 |
| 20°-30° | 346.7 | 5.9 |
| 30°-40° | 664.1 | 11.3 |
| 40°-50° | 1224.0 | 20.8 |
| 50°-60° | 1580.9 | 26.9 |
| 60°-70° | 1294.9 | 22.0 |
| 70°-80° | 476.0 | 8.1 |
| 80°-90° | 30.7 | 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° | 5873.0 | 100.0 |
| 0°-180° | 5873.0 | 100.0 |

Coefficient of Utilization

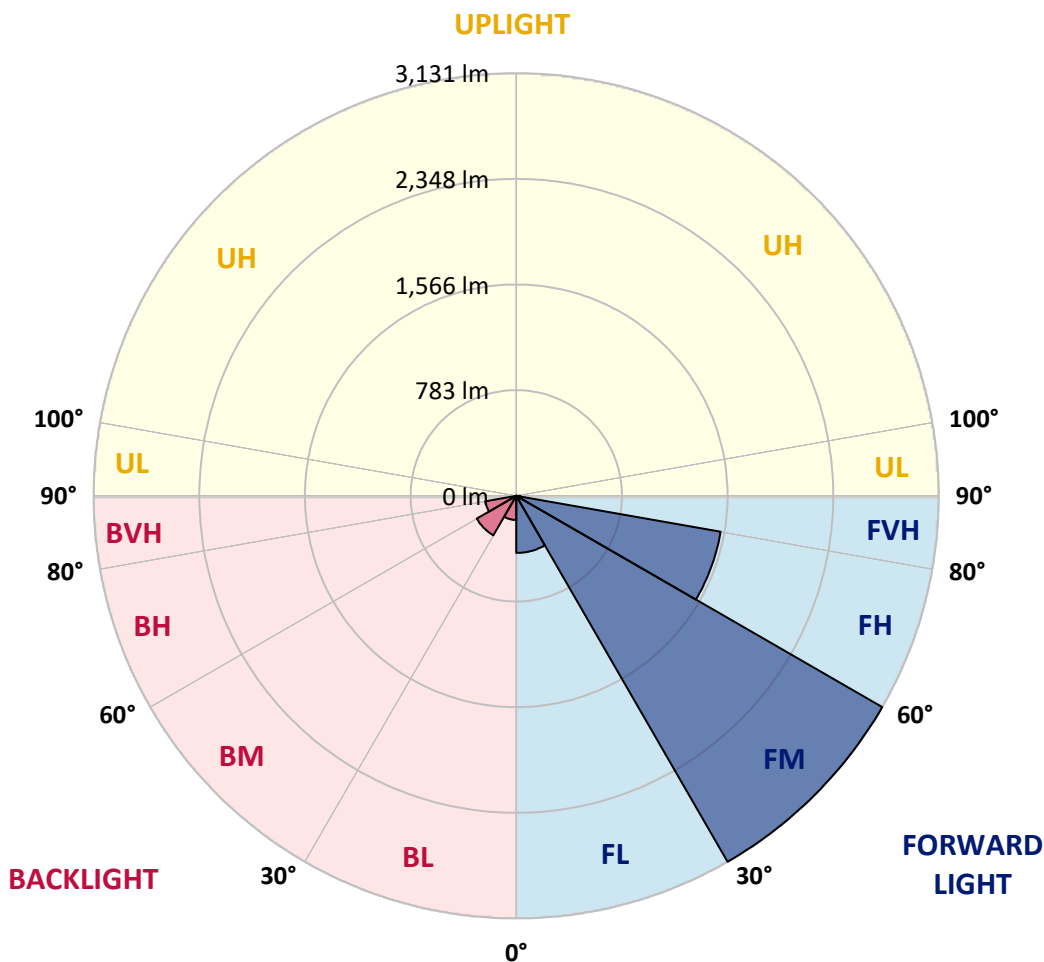


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 423.4 | 7.2 | | | |
| FM (30°-60°) | 3131.2 | 53.3 | | | |
| FH (60°-80°) | 1537.8 | 26.2 | | | G1/1800 |
| FVH (80°-90°) | 29.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 179.0 | 3.0 | B1/500 | | |
| BM (30°-60°) | 337.8 | 5.8 | B1/1000 | | |
| BH (60°-80°) | 233.1 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 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° | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 |
| 2.5° | 706.6 | 706.6 | 710.7 | 708.7 | 708.7 | 704.6 | 698.6 | 700.6 | 698.6 | 696.5 | 690.5 |
| 5° | 694.5 | 696.5 | 698.6 | 702.6 | 710.7 | 714.7 | 714.7 | 716.7 | 716.7 | 714.7 | 706.6 |
| 7.5° | 688.5 | 692.5 | 696.5 | 700.6 | 710.7 | 716.7 | 726.8 | 738.9 | 738.9 | 741.0 | 732.9 |
| 10° | 710.7 | 714.7 | 720.8 | 726.8 | 736.9 | 747.0 | 755.1 | 769.2 | 769.2 | 773.3 | 771.2 |
| 12.5° | 757.1 | 757.1 | 759.1 | 763.2 | 777.3 | 789.4 | 803.6 | 815.7 | 817.7 | 819.7 | 813.6 |
| 15° | 813.6 | 813.6 | 815.7 | 815.7 | 823.7 | 841.9 | 868.2 | 880.3 | 878.3 | 876.2 | 864.1 |
| 17.5° | 878.3 | 878.3 | 878.3 | 880.3 | 884.3 | 894.4 | 924.7 | 948.9 | 946.9 | 944.9 | 920.7 |
| 20° | 938.8 | 942.9 | 946.9 | 948.9 | 953.0 | 961.0 | 993.3 | 1021.6 | 1027.7 | 1019.6 | 977.2 |
| 22.5° | 1007.5 | 1009.5 | 1011.5 | 1017.6 | 1027.7 | 1031.7 | 1064.0 | 1106.4 | 1112.5 | 1102.4 | 1045.8 |
| 25° | 1076.1 | 1080.2 | 1086.2 | 1094.3 | 1104.4 | 1124.6 | 1146.8 | 1203.3 | 1209.4 | 1197.3 | 1120.5 |
| 27.5° | 1227.5 | 1225.5 | 1207.3 | 1193.2 | 1195.2 | 1209.4 | 1239.7 | 1300.2 | 1306.3 | 1294.2 | 1195.2 |
| 30° | 1486.0 | 1461.7 | 1427.4 | 1364.8 | 1304.3 | 1310.3 | 1352.7 | 1411.3 | 1421.4 | 1405.2 | 1278.0 |
| 32.5° | 1853.4 | 1829.2 | 1744.4 | 1607.1 | 1473.9 | 1429.4 | 1483.9 | 1540.5 | 1552.6 | 1534.4 | 1374.9 |
| 35° | 2210.8 | 2204.7 | 2124.0 | 1958.4 | 1732.3 | 1609.1 | 1623.3 | 1695.9 | 1700.0 | 1677.8 | 1496.1 |
| 37.5° | 2652.9 | 2630.7 | 2519.7 | 2333.9 | 2067.4 | 1847.4 | 1807.0 | 1875.6 | 1885.7 | 1859.5 | 1643.4 |
| 40° | 2945.7 | 2937.6 | 2871.0 | 2739.7 | 2453.1 | 2176.5 | 2031.1 | 2097.7 | 2095.7 | 2057.3 | 1813.0 |
| 42.5° | 3115.3 | 3119.3 | 3115.3 | 3052.7 | 2889.2 | 2572.2 | 2327.9 | 2331.9 | 2338.0 | 2297.6 | 2008.9 |
| 45° | 3230.4 | 3230.4 | 3236.4 | 3286.9 | 3224.3 | 3044.6 | 2689.3 | 2598.4 | 2606.5 | 2543.9 | 2212.8 |
| 47.5° | 3228.3 | 3240.5 | 3272.8 | 3389.9 | 3474.7 | 3484.8 | 3141.5 | 2909.3 | 2905.3 | 2810.4 | 2422.8 |
| 50° | 3010.3 | 3002.2 | 3135.5 | 3397.9 | 3652.3 | 3848.2 | 3569.5 | 3238.4 | 3204.1 | 3087.0 | 2640.8 |
| 52.5° | 2519.7 | 2545.9 | 2768.0 | 3153.6 | 3694.7 | 4094.5 | 3939.0 | 3597.8 | 3553.4 | 3361.6 | 2832.6 |
| 55° | 2091.7 | 2119.9 | 2336.0 | 2713.5 | 3464.6 | 4181.3 | 4187.4 | 3979.4 | 3890.6 | 3599.8 | 3030.5 |
| 57.5° | 1570.8 | 1625.3 | 1944.3 | 2299.6 | 2959.8 | 3965.3 | 4276.2 | 4344.8 | 4247.9 | 3830.0 | 3192.0 |
| 60° | 1003.4 | 1035.7 | 1393.1 | 1831.2 | 2398.5 | 3400.0 | 4258.0 | 4556.8 | 4504.3 | 4040.0 | 3327.3 |
| 62.5° | 656.2 | 674.3 | 920.7 | 1379.0 | 1827.2 | 2562.1 | 4042.0 | 4641.6 | 4641.6 | 4181.3 | 3428.2 |
| 64° | 494.6 | 498.7 | 674.3 | 1120.5 | 1524.3 | 1996.8 | 3787.6 | 4615.4 | 4663.8 | 4266.1 | 3448.4 |
| 65° | 391.7 | 393.7 | 527.0 | 930.7 | 1368.9 | 1637.4 | 3565.5 | 4558.8 | 4637.6 | 4298.4 | 3460.5 |
| 67.5° | 274.6 | 280.6 | 341.2 | 537.0 | 981.2 | 944.9 | 2642.8 | 4292.3 | 4389.3 | 4308.5 | 3444.4 |
| 70° | 238.2 | 246.3 | 286.7 | 351.3 | 700.6 | 549.2 | 1405.2 | 3658.4 | 3773.5 | 4013.7 | 3206.1 |
| 72.5° | 181.7 | 191.8 | 240.3 | 296.8 | 492.6 | 371.5 | 543.1 | 2598.4 | 2780.1 | 3103.2 | 2646.9 |
| 75° | 131.2 | 135.3 | 177.7 | 242.3 | 345.2 | 286.7 | 234.2 | 1340.6 | 1524.3 | 1831.2 | 1645.5 |
| 77.5° | 82.8 | 88.8 | 121.1 | 181.7 | 308.9 | 218.0 | 139.3 | 488.6 | 615.8 | 797.5 | 718.8 |
| 80° | 48.5 | 50.5 | 72.7 | 125.2 | 208.0 | 161.5 | 88.8 | 173.6 | 210.0 | 296.8 | 191.8 |
| 82.5° | 28.3 | 30.3 | 46.4 | 84.8 | 135.3 | 125.2 | 56.5 | 88.8 | 98.9 | 113.1 | 40.4 |
| 85° | 10.1 | 10.1 | 32.3 | 50.5 | 72.7 | 62.6 | 32.3 | 46.4 | 50.5 | 62.6 | 12.1 |
| 87.5° | 2.0 | 2.0 | 16.2 | 26.2 | 26.2 | 10.1 | 16.2 | 20.2 | 24.2 | 34.3 | 4.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 | 682.4 |
| 2.5° | 688.5 | 682.4 | 676.4 | 668.3 | 662.2 | 650.1 | 644.1 | 636.0 | 634.0 | 629.9 | 627.9 |
| 5° | 704.6 | 694.5 | 680.4 | 660.2 | 648.1 | 629.9 | 617.8 | 605.7 | 603.7 | 599.6 | 597.6 |
| 7.5° | 726.8 | 716.7 | 698.6 | 676.4 | 656.2 | 638.0 | 623.9 | 605.7 | 587.5 | 573.4 | 573.4 |
| 10° | 763.2 | 751.1 | 726.8 | 706.6 | 682.4 | 644.1 | 577.4 | 516.9 | 478.5 | 454.3 | 446.2 |
| 12.5° | 807.6 | 791.4 | 765.2 | 741.0 | 694.5 | 573.4 | 470.4 | 391.7 | 327.1 | 296.8 | 290.7 |
| 15° | 854.0 | 839.9 | 813.6 | 777.3 | 638.0 | 478.5 | 343.2 | 222.1 | 159.5 | 131.2 | 135.3 |
| 17.5° | 904.5 | 884.3 | 854.0 | 781.3 | 561.3 | 357.4 | 183.7 | 113.1 | 96.9 | 92.9 | 92.9 |
| 20° | 957.0 | 930.7 | 900.5 | 736.9 | 462.3 | 205.9 | 105.0 | 84.8 | 78.7 | 72.7 | 74.7 |
| 22.5° | 1013.5 | 981.2 | 934.8 | 670.3 | 331.1 | 111.0 | 80.8 | 68.6 | 60.6 | 58.6 | 58.6 |
| 25° | 1074.1 | 1027.7 | 969.1 | 593.6 | 191.8 | 84.8 | 66.6 | 54.5 | 48.5 | 46.4 | 44.4 |
| 27.5° | 1138.7 | 1080.2 | 977.2 | 492.6 | 109.0 | 70.7 | 52.5 | 42.4 | 36.3 | 34.3 | 34.3 |
| 30° | 1197.3 | 1132.6 | 959.0 | 365.4 | 82.8 | 58.6 | 42.4 | 32.3 | 28.3 | 28.3 | 28.3 |
| 32.5° | 1276.0 | 1191.2 | 902.5 | 228.1 | 66.6 | 46.4 | 32.3 | 26.2 | 22.2 | 22.2 | 22.2 |
| 35° | 1379.0 | 1278.0 | 846.0 | 121.1 | 54.5 | 38.4 | 26.2 | 20.2 | 18.2 | 18.2 | 18.2 |
| 37.5° | 1520.3 | 1393.1 | 795.5 | 76.7 | 44.4 | 30.3 | 20.2 | 16.2 | 14.1 | 14.1 | 14.1 |
| 40° | 1665.7 | 1530.4 | 724.8 | 58.6 | 36.3 | 24.2 | 16.2 | 12.1 | 10.1 | 10.1 | 12.1 |
| 42.5° | 1847.4 | 1689.9 | 644.1 | 50.5 | 30.3 | 20.2 | 12.1 | 8.1 | 6.1 | 8.1 | 8.1 |
| 45° | 2031.1 | 1857.5 | 531.0 | 42.4 | 26.2 | 16.2 | 8.1 | 4.0 | 4.0 | 6.1 | 6.1 |
| 47.5° | 2220.9 | 2035.1 | 411.9 | 36.3 | 22.2 | 12.1 | 6.1 | 2.0 | 2.0 | 4.0 | 4.0 |
| 50° | 2416.7 | 2210.8 | 306.9 | 32.3 | 18.2 | 10.1 | 4.0 | 2.0 | 0.0 | 2.0 | 2.0 |
| 52.5° | 2612.6 | 2380.4 | 238.2 | 28.3 | 16.2 | 8.1 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| 55° | 2794.3 | 2533.8 | 189.8 | 24.2 | 14.1 | 6.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2947.7 | 2646.9 | 151.4 | 22.2 | 12.1 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3093.1 | 2735.7 | 117.1 | 18.2 | 10.1 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 3196.0 | 2770.0 | 94.9 | 16.2 | 8.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64° | 3240.5 | 2774.1 | 82.8 | 14.1 | 8.1 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 3266.7 | 2762.0 | 76.7 | 14.1 | 8.1 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3272.8 | 2695.3 | 58.6 | 12.1 | 6.1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3095.1 | 2463.1 | 42.4 | 8.1 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2586.3 | 1881.7 | 28.3 | 6.1 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1615.2 | 813.6 | 16.2 | 6.1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 668.3 | 246.3 | 10.1 | 4.0 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 153.4 | 58.6 | 4.0 | 2.0 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 36.3 | 10.1 | 2.0 | 2.0 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.1 | 2.0 | 2.0 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 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)