

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: P594341

Luminaire Tested: **ISC-PA1E-827-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1E-827-U-T4W-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5806 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

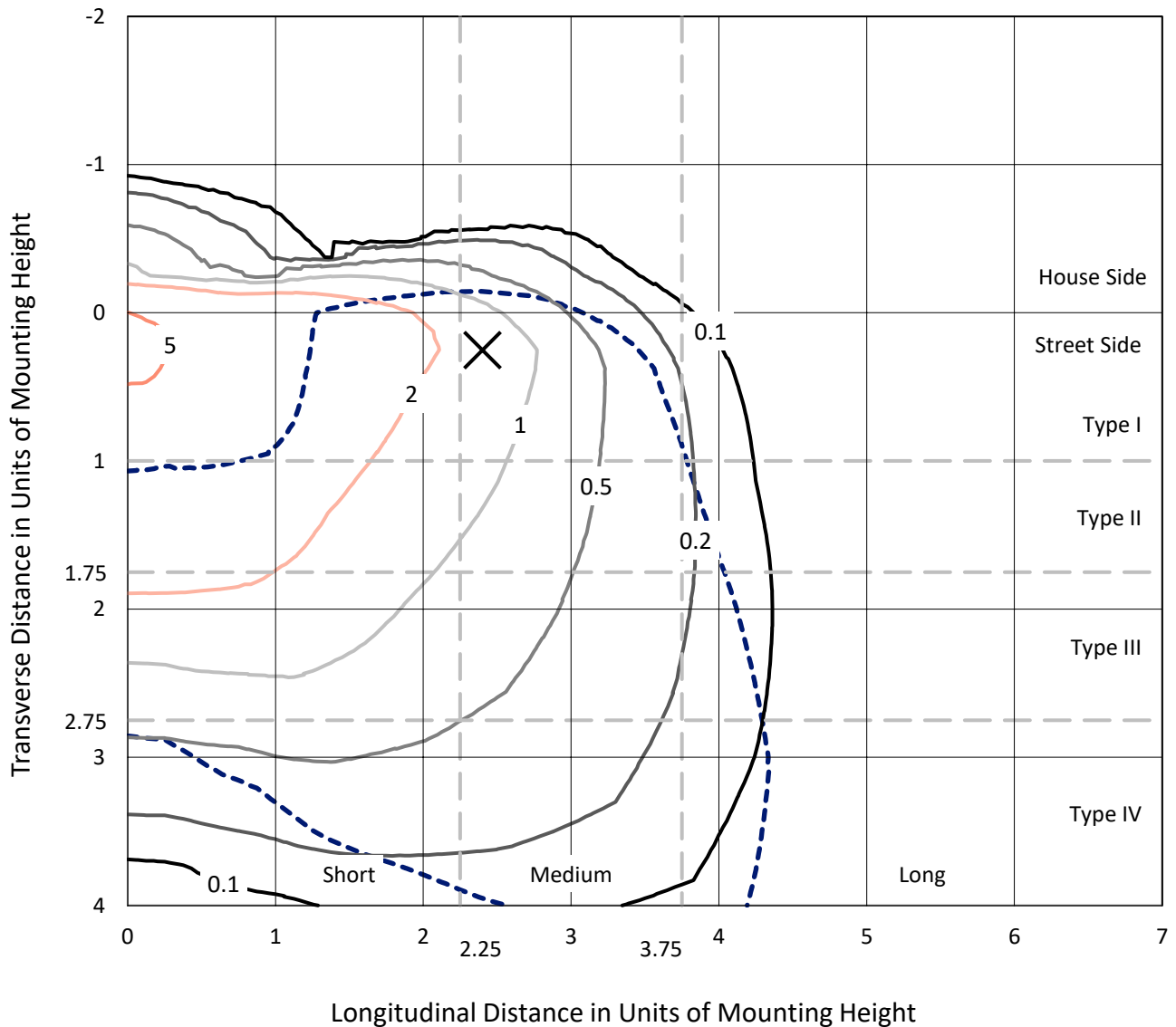
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

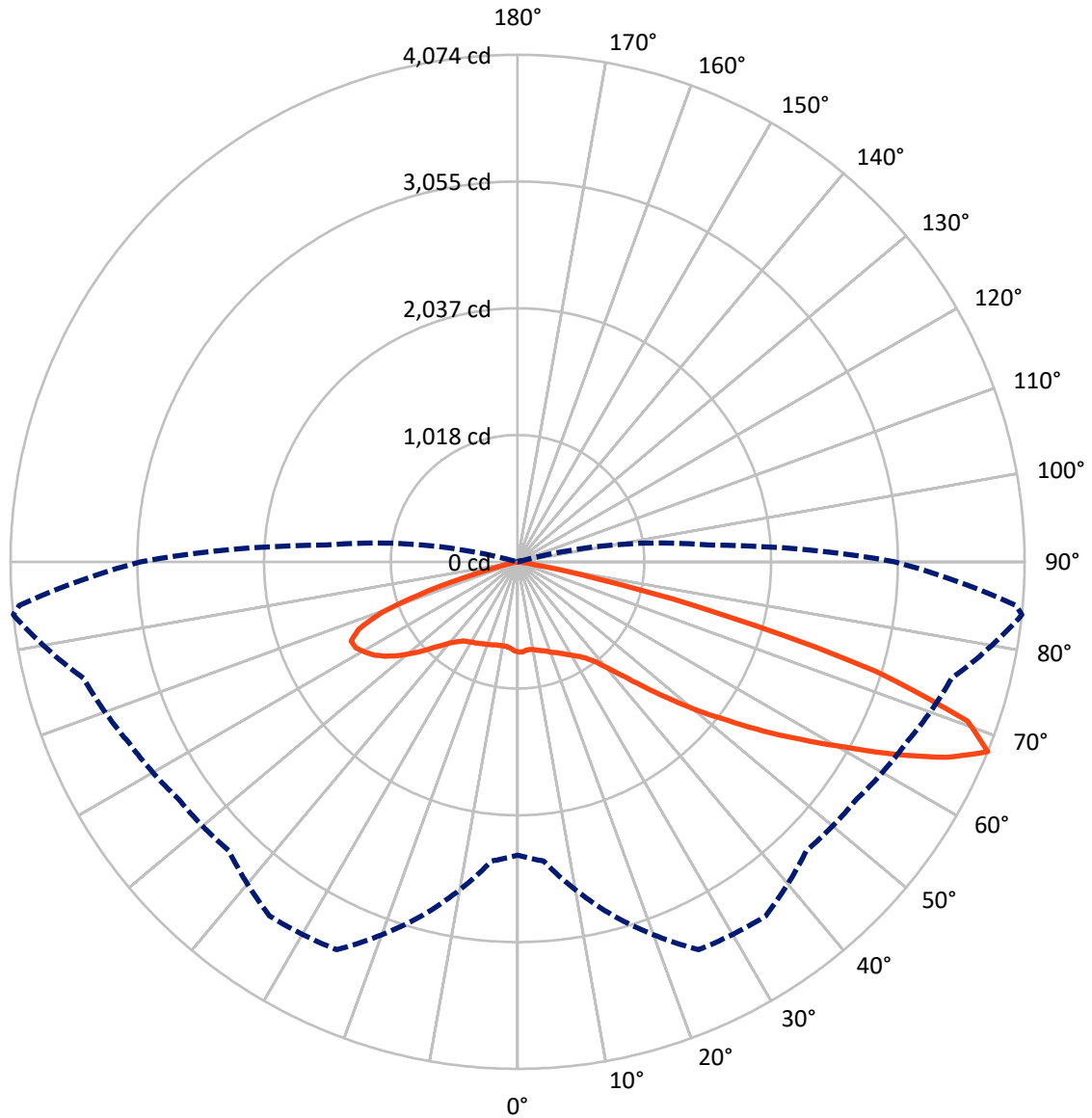
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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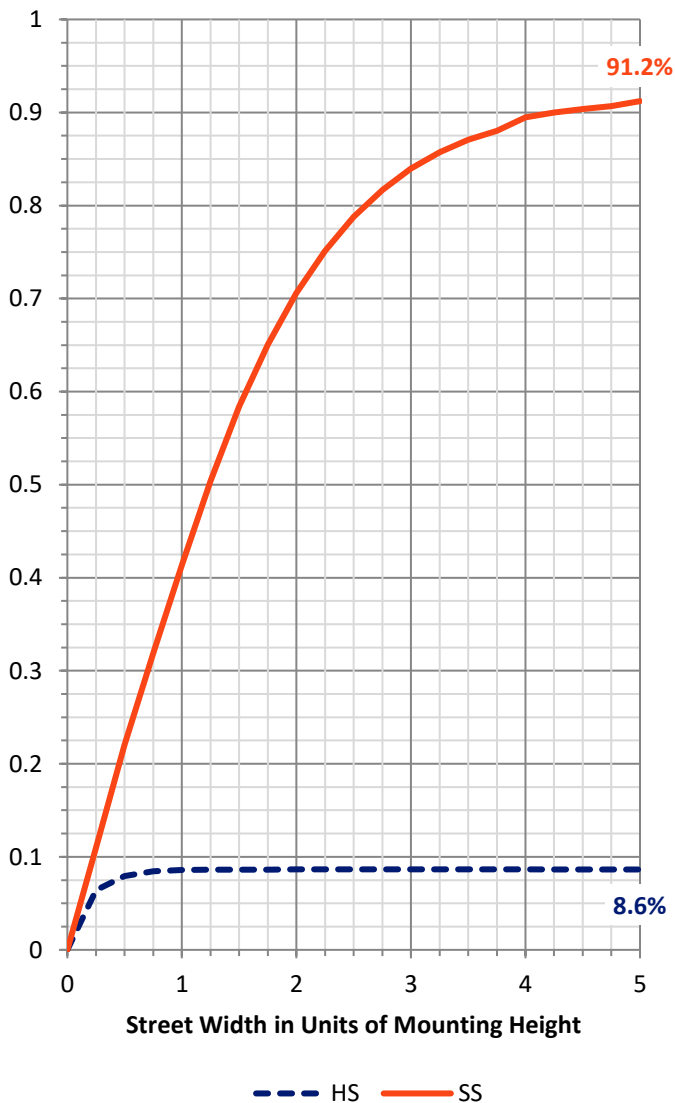
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 505.5 | 0.0 | 505.5 |
| | % Fixture | 8.7 | 0.0 | 8.7 |
| Street Side | Lumens | 5300.5 | 0.0 | 5300.5 |
| | % Fixture | 91.3 | 0.0 | 91.3 |
| Total | Lumens | 5806.0 | 0.0 | 5806.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.8 | 1.1 |
| 10°-20° | 169.6 | 2.9 |
| 20°-30° | 271.7 | 4.7 |
| 30°-40° | 391.0 | 6.7 |
| 40°-50° | 671.1 | 11.6 |
| 50°-60° | 1172.6 | 20.2 |
| 60°-70° | 1679.2 | 28.9 |
| 70°-80° | 1262.1 | 21.7 |
| 80°-90° | 123.9 | 2.1 |
| 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° | 5806.0 | 100.0 |
| 0°-180° | 5806.0 | 100.0 |

Coefficient of Utilization

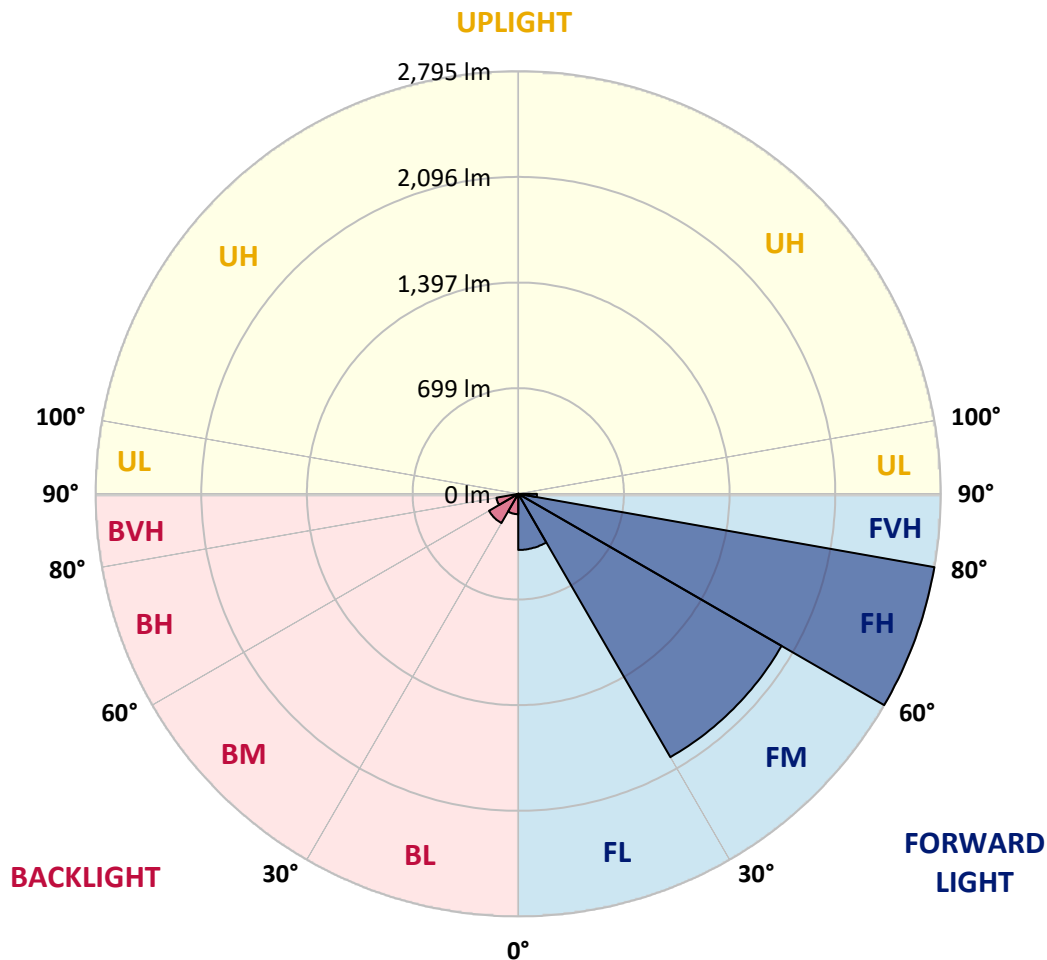


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 371.2 | 6.4 | | | |
| FM (30°-60°) | 2011.1 | 34.6 | | | |
| FH (60°-80°) | 2794.7 | 48.1 | | | G2/5000 |
| FVH (80°-90°) | 123.5 | 2.1 | | | G2/225 |
| BL (0°-30°) | 135.0 | 2.3 | B1/500 | | |
| BM (30°-60°) | 223.6 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 146.6 | 2.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.4 | 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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 |
| 2.5° | 764.5 | 768.4 | 770.4 | 760.6 | 760.6 | 752.8 | 741.0 | 737.1 | 731.2 | 725.3 | 723.4 |
| 5° | 803.7 | 809.6 | 807.7 | 795.9 | 790.0 | 774.3 | 758.6 | 743.0 | 727.3 | 713.6 | 713.6 |
| 7.5° | 848.8 | 850.8 | 844.9 | 825.3 | 813.5 | 792.0 | 768.4 | 750.8 | 731.2 | 711.6 | 707.7 |
| 10° | 888.0 | 886.1 | 878.2 | 858.6 | 837.1 | 809.6 | 784.1 | 764.5 | 741.0 | 717.5 | 715.5 |
| 12.5° | 915.5 | 917.4 | 907.6 | 880.2 | 858.6 | 827.3 | 801.8 | 782.2 | 754.7 | 729.2 | 723.4 |
| 15° | 939.0 | 944.9 | 933.1 | 905.7 | 874.3 | 846.9 | 827.3 | 801.8 | 770.4 | 741.0 | 737.1 |
| 17.5° | 960.6 | 962.5 | 952.7 | 921.3 | 891.9 | 868.4 | 846.9 | 823.3 | 792.0 | 754.7 | 750.8 |
| 20° | 972.3 | 978.2 | 972.3 | 933.1 | 905.7 | 888.0 | 870.4 | 846.9 | 811.6 | 776.3 | 772.4 |
| 22.5° | 980.2 | 986.0 | 984.1 | 941.0 | 917.4 | 903.7 | 888.0 | 866.5 | 833.1 | 792.0 | 788.0 |
| 25° | 984.1 | 988.0 | 991.9 | 948.8 | 929.2 | 923.3 | 909.6 | 890.0 | 858.6 | 815.5 | 811.6 |
| 27.5° | 990.0 | 993.9 | 997.8 | 958.6 | 950.8 | 944.9 | 941.0 | 925.3 | 888.0 | 842.9 | 837.1 |
| 30° | 999.8 | 1005.6 | 1009.6 | 976.2 | 976.2 | 982.1 | 982.1 | 960.6 | 919.4 | 872.3 | 868.4 |
| 32.5° | 1011.5 | 1013.5 | 1021.3 | 993.9 | 1003.7 | 1017.4 | 1013.5 | 991.9 | 948.8 | 905.7 | 899.8 |
| 35° | 1042.9 | 1042.9 | 1056.6 | 1021.3 | 1033.1 | 1044.8 | 1048.8 | 1033.1 | 993.9 | 950.8 | 948.8 |
| 37.5° | 1119.3 | 1119.3 | 1131.1 | 1074.3 | 1072.3 | 1084.1 | 1097.8 | 1097.8 | 1058.6 | 1019.4 | 1015.4 |
| 40° | 1291.9 | 1291.9 | 1291.9 | 1160.5 | 1138.9 | 1152.7 | 1174.2 | 1186.0 | 1152.7 | 1125.2 | 1125.2 |
| 42.5° | 1580.0 | 1582.0 | 1552.6 | 1319.3 | 1227.2 | 1250.7 | 1274.2 | 1299.7 | 1282.0 | 1262.4 | 1258.5 |
| 45° | 1878.0 | 1868.2 | 1864.3 | 1552.6 | 1384.0 | 1372.2 | 1401.6 | 1444.8 | 1450.6 | 1438.9 | 1446.7 |
| 47.5° | 2081.9 | 2091.7 | 2097.5 | 1842.7 | 1603.5 | 1523.2 | 1550.6 | 1611.4 | 1646.7 | 1644.7 | 1656.5 |
| 50° | 2279.9 | 2285.7 | 2291.6 | 2162.2 | 1893.7 | 1713.3 | 1731.0 | 1813.3 | 1862.3 | 1878.0 | 1885.8 |
| 52.5° | 2452.4 | 2436.7 | 2462.2 | 2444.5 | 2201.4 | 1930.9 | 1930.9 | 2025.0 | 2113.2 | 2119.1 | 2117.1 |
| 55° | 2503.3 | 2513.1 | 2589.6 | 2642.5 | 2517.0 | 2197.5 | 2158.3 | 2258.3 | 2352.4 | 2401.4 | 2401.4 |
| 57.5° | 2617.0 | 2626.8 | 2719.0 | 2838.5 | 2746.4 | 2460.2 | 2401.4 | 2499.4 | 2601.3 | 2695.4 | 2709.2 |
| 60° | 2766.0 | 2768.0 | 2866.0 | 3048.3 | 2920.9 | 2697.4 | 2648.4 | 2760.1 | 2862.1 | 3022.8 | 3067.9 |
| 62.5° | 2846.4 | 2854.2 | 2989.5 | 3228.6 | 3140.4 | 2905.2 | 2893.4 | 2995.4 | 3126.7 | 3409.0 | 3450.2 |
| 65° | 2722.9 | 2773.9 | 3067.9 | 3336.5 | 3318.8 | 3099.3 | 3140.4 | 3222.8 | 3373.7 | 3787.3 | 3826.5 |
| 67.5° | 2356.3 | 2413.2 | 2938.5 | 3438.4 | 3473.7 | 3281.6 | 3324.7 | 3444.3 | 3610.9 | 4073.5 | 4018.7 |
| 70° | 2170.1 | 2217.1 | 2624.9 | 3495.2 | 3603.1 | 3485.4 | 3505.0 | 3616.8 | 3665.8 | 3834.4 | 3775.6 |
| 72.5° | 1644.7 | 1693.7 | 2221.0 | 3301.2 | 3714.8 | 3699.1 | 3650.1 | 3558.0 | 3267.9 | 3016.9 | 2873.8 |
| 75° | 727.3 | 784.1 | 1478.1 | 2579.8 | 3438.4 | 3820.7 | 3561.9 | 3046.3 | 2346.5 | 1713.3 | 1587.9 |
| 77.5° | 321.5 | 354.8 | 572.4 | 1433.0 | 2583.7 | 3307.1 | 2817.0 | 2030.9 | 1178.2 | 637.1 | 592.0 |
| 80° | 103.9 | 107.8 | 180.3 | 501.8 | 1321.3 | 2189.7 | 1725.1 | 976.2 | 362.7 | 149.0 | 139.2 |
| 82.5° | 41.2 | 45.1 | 86.3 | 211.7 | 546.9 | 870.4 | 846.9 | 352.9 | 105.9 | 39.2 | 39.2 |
| 85° | 11.8 | 13.7 | 43.1 | 111.7 | 194.1 | 245.0 | 299.9 | 117.6 | 56.8 | 11.8 | 11.8 |
| 87.5° | 3.9 | 3.9 | 15.7 | 35.3 | 37.2 | 25.5 | 56.8 | 45.1 | 35.3 | 3.9 | 3.9 |
| 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° | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 | 723.4 |
| 2.5° | 719.4 | 715.5 | 705.7 | 697.9 | 694.0 | 688.1 | 680.2 | 676.3 | 676.3 | 674.3 | 668.5 |
| 5° | 705.7 | 699.8 | 682.2 | 670.4 | 660.6 | 639.1 | 623.4 | 603.8 | 584.2 | 578.3 | 584.2 |
| 7.5° | 699.8 | 688.1 | 664.5 | 641.0 | 599.9 | 543.0 | 505.8 | 464.6 | 450.9 | 433.2 | 435.2 |
| 10° | 701.8 | 688.1 | 654.7 | 601.8 | 521.4 | 437.2 | 378.3 | 323.5 | 296.0 | 282.3 | 284.2 |
| 12.5° | 707.7 | 692.0 | 644.9 | 548.9 | 433.2 | 331.3 | 241.1 | 198.0 | 190.2 | 190.2 | 190.2 |
| 15° | 719.4 | 695.9 | 629.3 | 486.2 | 339.1 | 219.6 | 170.5 | 166.6 | 172.5 | 178.4 | 180.3 |
| 17.5° | 731.2 | 707.7 | 605.7 | 421.5 | 247.0 | 164.7 | 158.8 | 158.8 | 164.7 | 170.5 | 172.5 |
| 20° | 744.9 | 719.4 | 572.4 | 352.9 | 176.4 | 154.9 | 152.9 | 150.9 | 154.9 | 160.7 | 162.7 |
| 22.5° | 766.5 | 731.2 | 533.2 | 272.5 | 152.9 | 149.0 | 145.1 | 143.1 | 145.1 | 150.9 | 152.9 |
| 25° | 786.1 | 746.9 | 492.0 | 201.9 | 143.1 | 139.2 | 137.2 | 135.3 | 135.3 | 139.2 | 141.1 |
| 27.5° | 809.6 | 764.5 | 447.0 | 150.9 | 131.3 | 129.4 | 127.4 | 125.5 | 123.5 | 127.4 | 129.4 |
| 30° | 839.0 | 780.2 | 397.9 | 127.4 | 119.6 | 117.6 | 115.7 | 113.7 | 111.7 | 113.7 | 115.7 |
| 32.5° | 876.3 | 801.8 | 341.1 | 115.7 | 109.8 | 103.9 | 101.9 | 101.9 | 100.0 | 100.0 | 101.9 |
| 35° | 925.3 | 825.3 | 280.3 | 107.8 | 100.0 | 94.1 | 88.2 | 86.3 | 86.3 | 86.3 | 88.2 |
| 37.5° | 997.8 | 868.4 | 221.5 | 100.0 | 92.1 | 82.3 | 76.5 | 70.6 | 70.6 | 70.6 | 70.6 |
| 40° | 1097.8 | 915.5 | 172.5 | 94.1 | 86.3 | 72.5 | 64.7 | 56.8 | 52.9 | 51.0 | 52.9 |
| 42.5° | 1252.6 | 986.0 | 133.3 | 86.3 | 82.3 | 64.7 | 52.9 | 43.1 | 35.3 | 33.3 | 35.3 |
| 45° | 1423.2 | 1062.5 | 105.9 | 80.4 | 74.5 | 54.9 | 41.2 | 29.4 | 21.6 | 19.6 | 21.6 |
| 47.5° | 1638.8 | 1158.5 | 90.2 | 72.5 | 64.7 | 45.1 | 29.4 | 15.7 | 9.8 | 11.8 | 11.8 |
| 50° | 1846.6 | 1252.6 | 82.3 | 66.7 | 56.8 | 37.2 | 17.6 | 7.8 | 3.9 | 5.9 | 5.9 |
| 52.5° | 2076.0 | 1352.6 | 76.5 | 58.8 | 49.0 | 27.4 | 9.8 | 2.0 | 0.0 | 2.0 | 2.0 |
| 55° | 2307.3 | 1442.8 | 70.6 | 52.9 | 39.2 | 19.6 | 3.9 | 0.0 | 0.0 | 0.0 | 2.0 |
| 57.5° | 2558.2 | 1519.2 | 64.7 | 45.1 | 29.4 | 11.8 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2768.0 | 1578.1 | 58.8 | 39.2 | 19.6 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2960.1 | 1631.0 | 45.1 | 29.4 | 11.8 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 3087.5 | 1642.7 | 31.4 | 19.6 | 7.8 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3030.7 | 1540.8 | 19.6 | 13.7 | 3.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2664.1 | 1293.8 | 13.7 | 7.8 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1864.3 | 835.1 | 11.8 | 5.9 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 984.1 | 301.9 | 7.8 | 3.9 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 348.9 | 66.7 | 3.9 | 2.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 76.5 | 13.7 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 21.6 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.0 | 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)