

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: P197873

Luminaire Tested: **TT-C2-LED-E1-5WQ-PM-SG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-5WQ-PM-SG-LWR-LW-8030
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3297.4 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
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: 25 FT

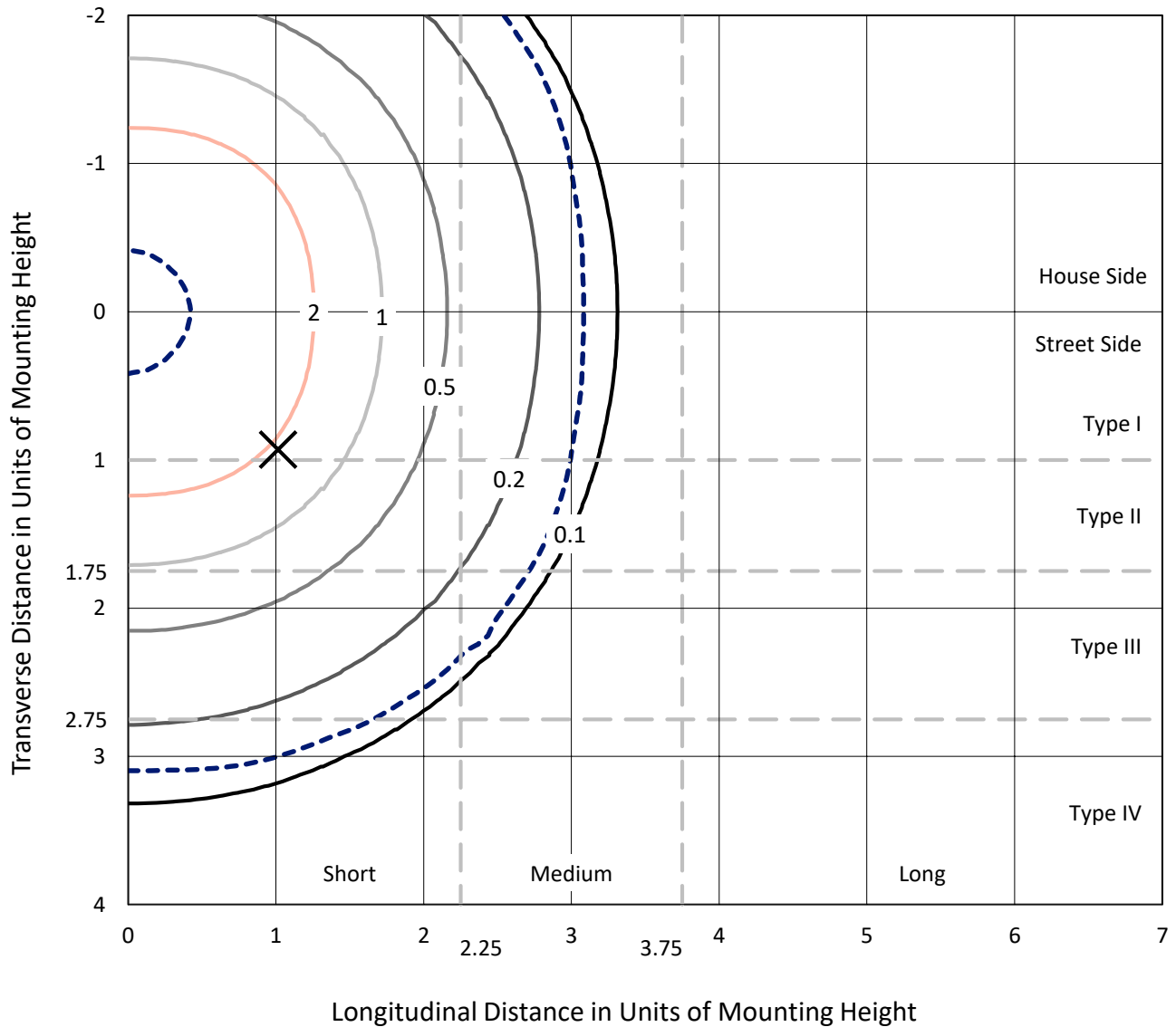


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

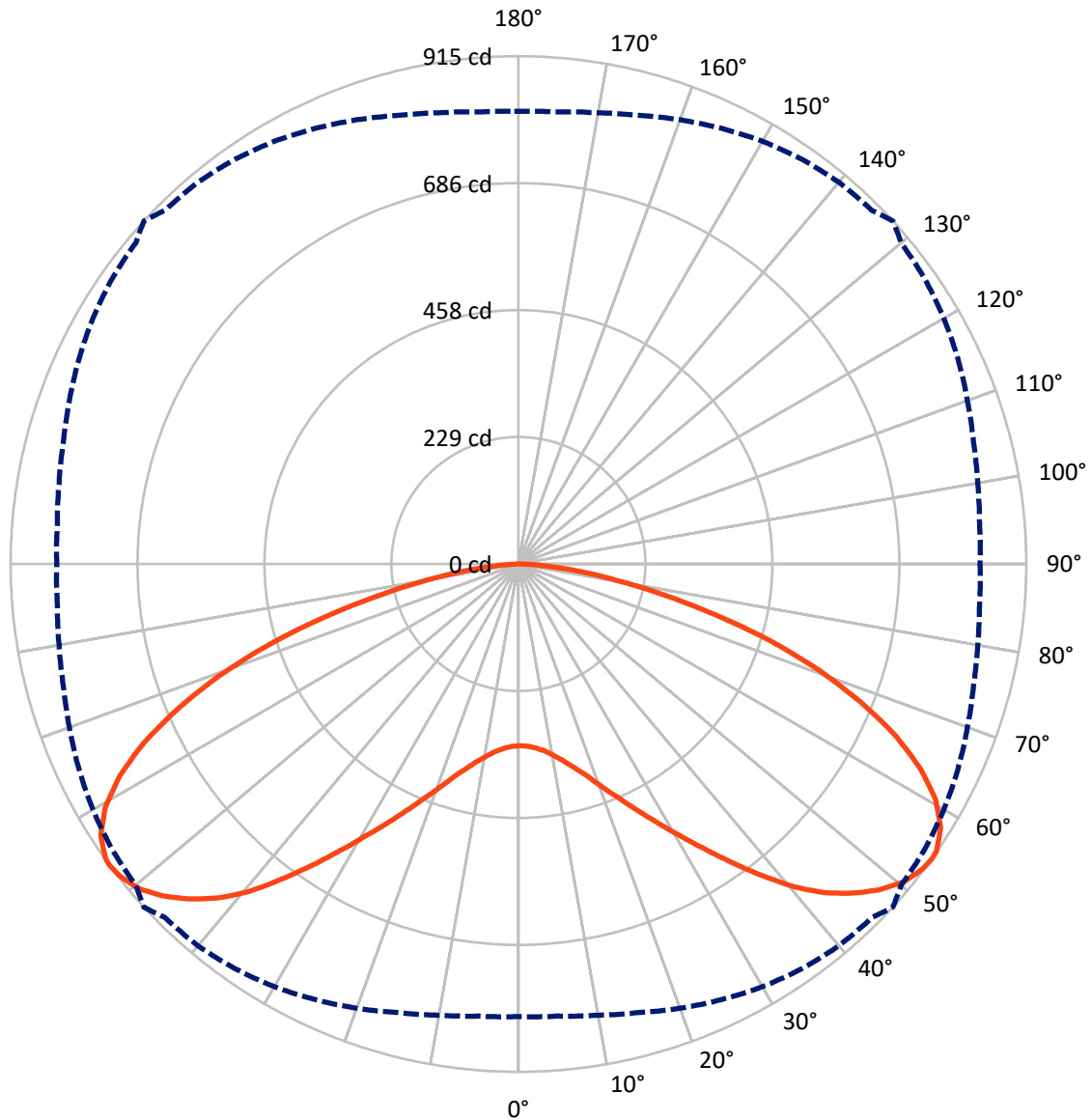


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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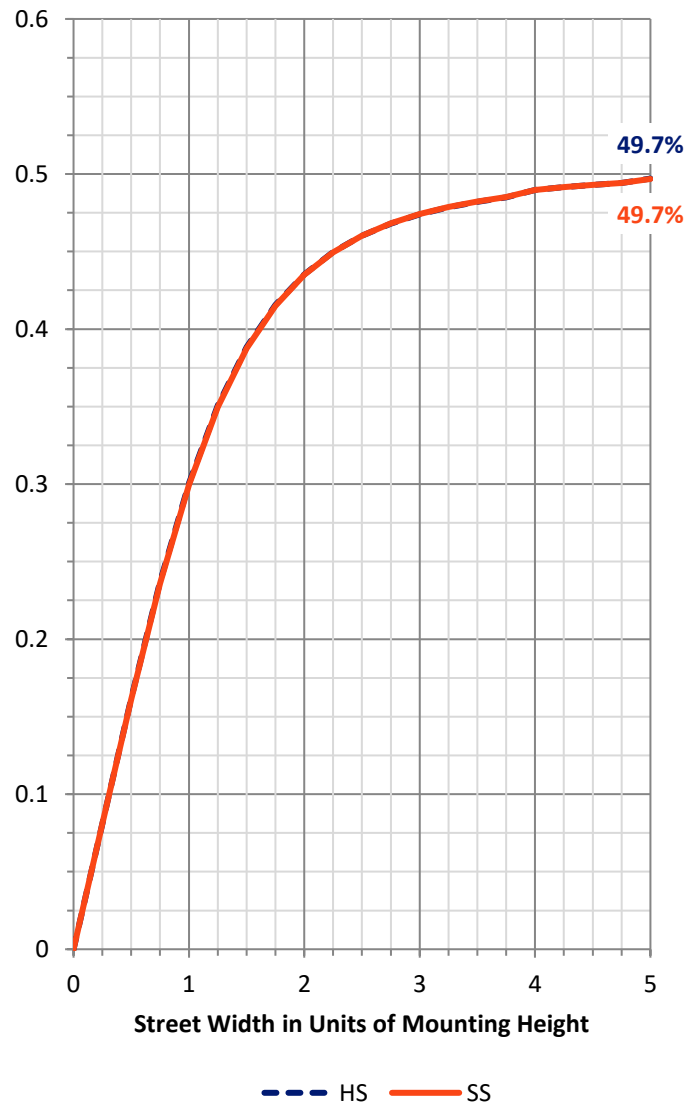
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1648.7 | 0.0 | 1648.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1648.7 | 0.0 | 1648.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3297.4 | 0.0 | 3297.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 32.3 | 1.0 |
| 10°-20° | 109.6 | 3.3 |
| 20°-30° | 225.6 | 6.8 |
| 30°-40° | 403.5 | 12.2 |
| 40°-50° | 619.0 | 18.8 |
| 50°-60° | 763.2 | 23.1 |
| 60°-70° | 690.5 | 20.9 |
| 70°-80° | 380.2 | 11.5 |
| 80°-90° | 73.5 | 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° | 3297.4 | 100.0 |
| 0°-180° | 3297.4 | 100.0 |



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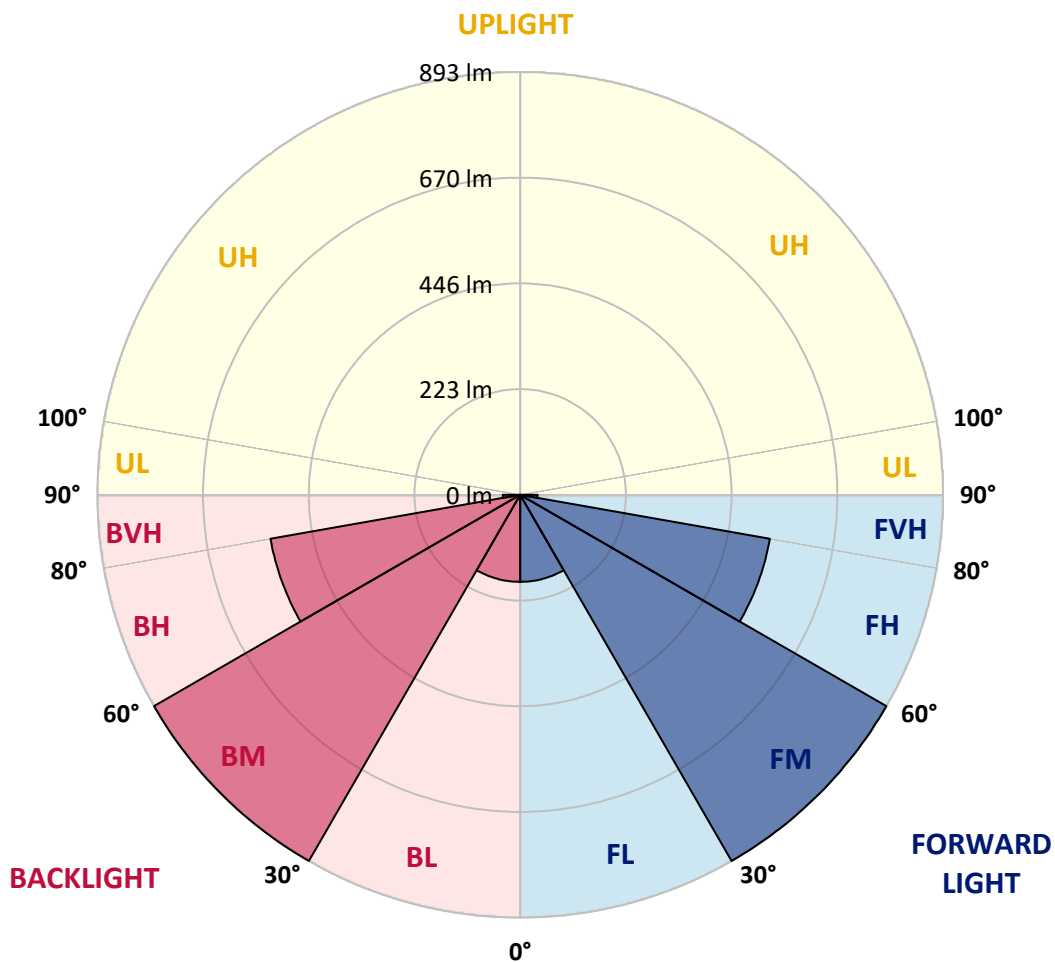
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 183.8 | 5.6 | | | |
| FM (30°-60°) | 892.9 | 27.1 | | | |
| FH (60°-80°) | 535.3 | 16.2 | | | G0/660 |
| FVH (80°-90°) | 36.8 | 1.1 | | | G1/100 |
| BL (0°-30°) | 183.8 | 5.6 | B1/500 | | |
| BM (30°-60°) | 892.9 | 27.1 | B1/1000 | | |
| BH (60°-80°) | 535.3 | 16.2 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 36.8 | 1.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 |
| 2.5° | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 |
| 5° | 333.1 | 333.1 | 333.1 | 333.8 | 333.1 | 333.1 | 333.1 | 333.1 | 333.1 | 333.1 | 333.1 |
| 7.5° | 340.2 | 340.2 | 340.2 | 340.2 | 340.2 | 340.2 | 339.5 | 339.5 | 340.2 | 339.5 | 340.2 |
| 10° | 350.2 | 349.5 | 349.5 | 350.2 | 350.2 | 349.5 | 350.2 | 350.2 | 350.2 | 350.2 | 350.9 |
| 12.5° | 363.0 | 363.0 | 363.7 | 363.7 | 363.7 | 364.4 | 364.4 | 363.7 | 364.4 | 364.4 | 364.4 |
| 15° | 380.1 | 380.1 | 380.1 | 380.1 | 380.8 | 381.5 | 380.8 | 380.8 | 380.1 | 380.1 | 381.5 |
| 17.5° | 400.0 | 400.0 | 400.0 | 400.0 | 401.4 | 401.4 | 400.7 | 401.4 | 402.2 | 402.2 | 401.4 |
| 20° | 424.2 | 423.5 | 422.8 | 423.5 | 424.9 | 424.9 | 425.6 | 426.4 | 426.4 | 426.4 | 427.8 |
| 22.5° | 449.8 | 449.1 | 450.6 | 451.3 | 452.0 | 452.7 | 452.7 | 453.4 | 454.8 | 454.1 | 456.2 |
| 25° | 478.3 | 477.6 | 478.3 | 479.7 | 482.6 | 482.6 | 483.3 | 484.7 | 484.7 | 484.0 | 489.0 |
| 27.5° | 510.3 | 510.3 | 511.1 | 513.9 | 514.6 | 515.3 | 517.5 | 518.9 | 521.0 | 521.0 | 525.3 |
| 30° | 545.2 | 544.5 | 545.9 | 548.8 | 550.9 | 553.0 | 555.9 | 559.5 | 560.2 | 560.9 | 565.1 |
| 32.5° | 580.8 | 580.8 | 582.2 | 587.2 | 590.8 | 594.3 | 598.6 | 602.2 | 603.6 | 603.6 | 610.0 |
| 35° | 618.5 | 619.2 | 622.8 | 626.4 | 633.5 | 637.7 | 642.0 | 647.0 | 649.8 | 651.3 | 659.8 |
| 37.5° | 658.4 | 660.5 | 663.4 | 668.4 | 675.5 | 682.6 | 689.0 | 696.8 | 701.1 | 702.5 | 711.8 |
| 40° | 696.1 | 699.0 | 703.2 | 710.3 | 717.5 | 727.4 | 735.3 | 743.1 | 748.1 | 750.9 | 765.2 |
| 42.5° | 733.1 | 734.5 | 739.5 | 747.4 | 756.6 | 765.9 | 776.5 | 785.1 | 790.1 | 794.3 | 810.0 |
| 45° | 762.3 | 763.7 | 770.1 | 779.4 | 790.1 | 801.5 | 812.1 | 822.1 | 827.1 | 830.6 | 846.3 |
| 47.5° | 786.5 | 789.4 | 796.5 | 805.7 | 816.4 | 829.9 | 842.0 | 852.0 | 858.4 | 860.5 | 876.9 |
| 50° | 804.3 | 808.6 | 815.0 | 825.7 | 838.5 | 852.0 | 864.8 | 875.5 | 882.6 | 885.4 | 900.4 |
| 52.5° | 814.3 | 817.8 | 824.9 | 835.6 | 850.6 | 864.1 | 877.6 | 888.3 | 896.1 | 899.0 | 912.5 |
| 54° | 815.7 | 817.8 | 825.7 | 837.0 | 852.0 | 866.2 | 879.7 | 890.4 | 898.3 | 901.1 | 915.3 |
| 55° | 814.3 | 815.7 | 824.2 | 834.9 | 850.6 | 864.8 | 878.3 | 889.0 | 897.5 | 900.4 | 913.9 |
| 57.5° | 800.0 | 802.2 | 809.3 | 820.7 | 834.9 | 851.3 | 864.1 | 874.8 | 883.3 | 884.7 | 897.5 |
| 60° | 770.8 | 773.7 | 780.1 | 792.2 | 806.4 | 820.7 | 833.5 | 842.7 | 850.6 | 854.8 | 864.1 |
| 62.5° | 728.9 | 730.3 | 736.7 | 747.4 | 760.2 | 775.1 | 785.1 | 794.3 | 801.5 | 805.7 | 813.6 |
| 65° | 669.1 | 675.5 | 680.5 | 689.0 | 699.0 | 711.1 | 723.9 | 731.0 | 734.5 | 741.7 | 747.4 |
| 67.5° | 602.2 | 606.4 | 611.4 | 619.2 | 625.6 | 633.5 | 645.6 | 652.0 | 656.3 | 661.2 | 666.2 |
| 70° | 527.4 | 526.0 | 531.7 | 536.0 | 543.1 | 548.1 | 555.9 | 559.5 | 564.4 | 567.3 | 575.8 |
| 72.5° | 438.5 | 440.6 | 445.6 | 450.6 | 452.7 | 454.1 | 460.5 | 462.7 | 466.9 | 465.5 | 476.2 |
| 75° | 358.0 | 354.5 | 355.9 | 356.6 | 358.0 | 356.6 | 360.9 | 363.0 | 365.1 | 363.0 | 368.7 |
| 77.5° | 270.5 | 266.2 | 267.6 | 266.9 | 266.9 | 265.5 | 264.8 | 264.8 | 265.5 | 264.1 | 267.6 |
| 80° | 186.5 | 184.3 | 185.1 | 186.5 | 182.9 | 183.6 | 179.4 | 179.4 | 179.4 | 179.4 | 180.8 |
| 82.5° | 115.3 | 112.5 | 111.7 | 112.5 | 112.5 | 110.3 | 111.0 | 108.2 | 107.5 | 106.8 | 113.2 |
| 85° | 56.2 | 54.8 | 56.2 | 54.8 | 54.1 | 54.1 | 52.7 | 53.4 | 52.0 | 51.2 | 55.5 |
| 87.5° | 14.9 | 14.2 | 14.2 | 14.2 | 13.5 | 14.2 | 14.2 | 14.2 | 14.2 | 14.9 | 17.1 |
| 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):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 | 327.4 |
| 2.5° | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.8 | 328.1 |
| 5° | 333.1 | 333.1 | 333.1 | 333.1 | 333.1 | 333.1 | 333.1 | 333.1 | 333.1 |
| 7.5° | 340.2 | 340.2 | 339.5 | 339.5 | 339.5 | 339.5 | 339.5 | 339.5 | 339.5 |
| 10° | 350.2 | 350.9 | 349.5 | 349.5 | 350.2 | 349.5 | 349.5 | 348.8 | 348.8 |
| 12.5° | 364.4 | 363.7 | 364.4 | 364.4 | 363.7 | 363.0 | 362.3 | 361.6 | 362.3 |
| 15° | 380.8 | 380.1 | 380.1 | 380.1 | 379.4 | 379.4 | 378.7 | 379.4 | 378.7 |
| 17.5° | 400.7 | 400.7 | 401.4 | 399.3 | 400.0 | 398.6 | 398.6 | 398.6 | 397.9 |
| 20° | 426.4 | 425.6 | 424.9 | 422.8 | 423.5 | 422.1 | 421.4 | 420.7 | 419.9 |
| 22.5° | 454.1 | 452.7 | 452.0 | 449.8 | 450.6 | 449.1 | 447.0 | 445.6 | 445.6 |
| 25° | 484.7 | 483.3 | 481.9 | 481.2 | 480.4 | 477.6 | 476.2 | 474.0 | 475.5 |
| 27.5° | 521.0 | 518.2 | 516.0 | 513.2 | 513.9 | 510.3 | 508.9 | 507.5 | 507.5 |
| 30° | 560.2 | 558.0 | 554.5 | 552.3 | 551.6 | 548.1 | 545.2 | 543.8 | 543.1 |
| 32.5° | 602.9 | 601.4 | 599.3 | 595.8 | 594.3 | 588.6 | 586.5 | 584.4 | 583.7 |
| 35° | 653.4 | 649.8 | 647.7 | 642.7 | 637.7 | 634.2 | 629.2 | 627.8 | 626.4 |
| 37.5° | 700.4 | 700.4 | 696.8 | 691.1 | 684.0 | 679.0 | 674.8 | 671.9 | 669.8 |
| 40° | 750.2 | 748.8 | 743.1 | 738.1 | 731.0 | 723.9 | 716.0 | 713.2 | 711.8 |
| 42.5° | 794.3 | 791.5 | 785.8 | 779.4 | 772.3 | 763.7 | 755.2 | 750.9 | 750.2 |
| 45° | 831.3 | 827.8 | 822.1 | 813.6 | 804.3 | 795.8 | 787.9 | 783.7 | 781.5 |
| 47.5° | 861.2 | 857.0 | 849.9 | 842.0 | 831.3 | 821.4 | 813.6 | 809.3 | 806.4 |
| 50° | 883.3 | 879.7 | 871.9 | 862.0 | 851.3 | 839.9 | 832.1 | 827.1 | 824.9 |
| 52.5° | 897.5 | 892.6 | 884.0 | 873.3 | 861.2 | 849.9 | 840.6 | 834.9 | 832.8 |
| 54° | 900.4 | 894.7 | 885.4 | 874.1 | 861.2 | 849.1 | 840.6 | 834.2 | 832.1 |
| 55° | 899.0 | 893.3 | 883.3 | 872.6 | 859.1 | 847.0 | 837.8 | 831.3 | 829.2 |
| 57.5° | 884.0 | 877.6 | 868.4 | 857.0 | 842.7 | 830.6 | 822.1 | 815.0 | 812.8 |
| 60° | 852.0 | 846.3 | 835.6 | 825.7 | 811.4 | 799.3 | 790.1 | 782.9 | 780.8 |
| 62.5° | 802.9 | 797.9 | 788.6 | 778.7 | 763.7 | 753.1 | 743.8 | 739.5 | 733.8 |
| 65° | 737.4 | 733.8 | 724.6 | 712.5 | 701.8 | 691.1 | 681.9 | 679.0 | 675.5 |
| 67.5° | 659.1 | 654.1 | 650.6 | 638.5 | 629.9 | 620.0 | 610.7 | 605.0 | 603.6 |
| 70° | 566.6 | 564.4 | 560.9 | 549.5 | 544.5 | 536.0 | 529.6 | 524.6 | 523.2 |
| 72.5° | 466.9 | 464.8 | 464.1 | 458.4 | 452.0 | 444.1 | 441.3 | 437.0 | 436.3 |
| 75° | 363.0 | 361.6 | 363.0 | 358.7 | 356.6 | 354.5 | 353.0 | 353.0 | 350.9 |
| 77.5° | 262.6 | 264.8 | 265.5 | 265.5 | 266.9 | 266.9 | 268.3 | 266.2 | 264.1 |
| 80° | 178.7 | 180.8 | 180.1 | 181.5 | 180.8 | 185.8 | 182.2 | 185.1 | 182.2 |
| 82.5° | 107.5 | 110.3 | 110.3 | 110.3 | 113.2 | 112.5 | 112.5 | 113.9 | 113.2 |
| 85° | 52.7 | 53.4 | 52.7 | 52.0 | 55.5 | 54.8 | 54.8 | 54.1 | 54.8 |
| 87.5° | 15.7 | 14.2 | 14.9 | 13.5 | 14.9 | 12.8 | 14.2 | 14.2 | 14.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)