

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: P197919

Luminaire Tested: **TT-C1-LED-E1-5WQ-PM-SG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-5WQ-PM-SG-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3246 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

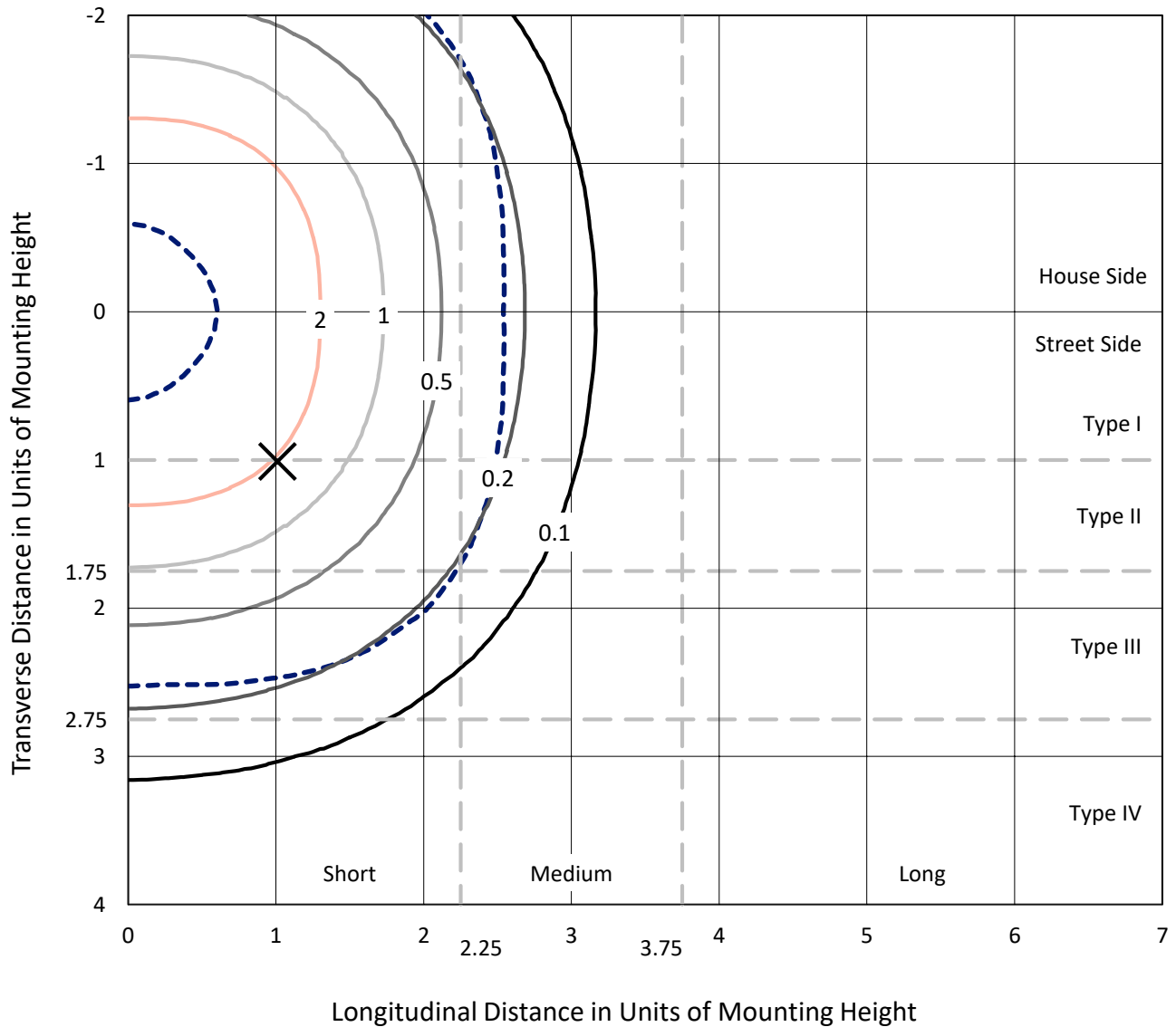
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

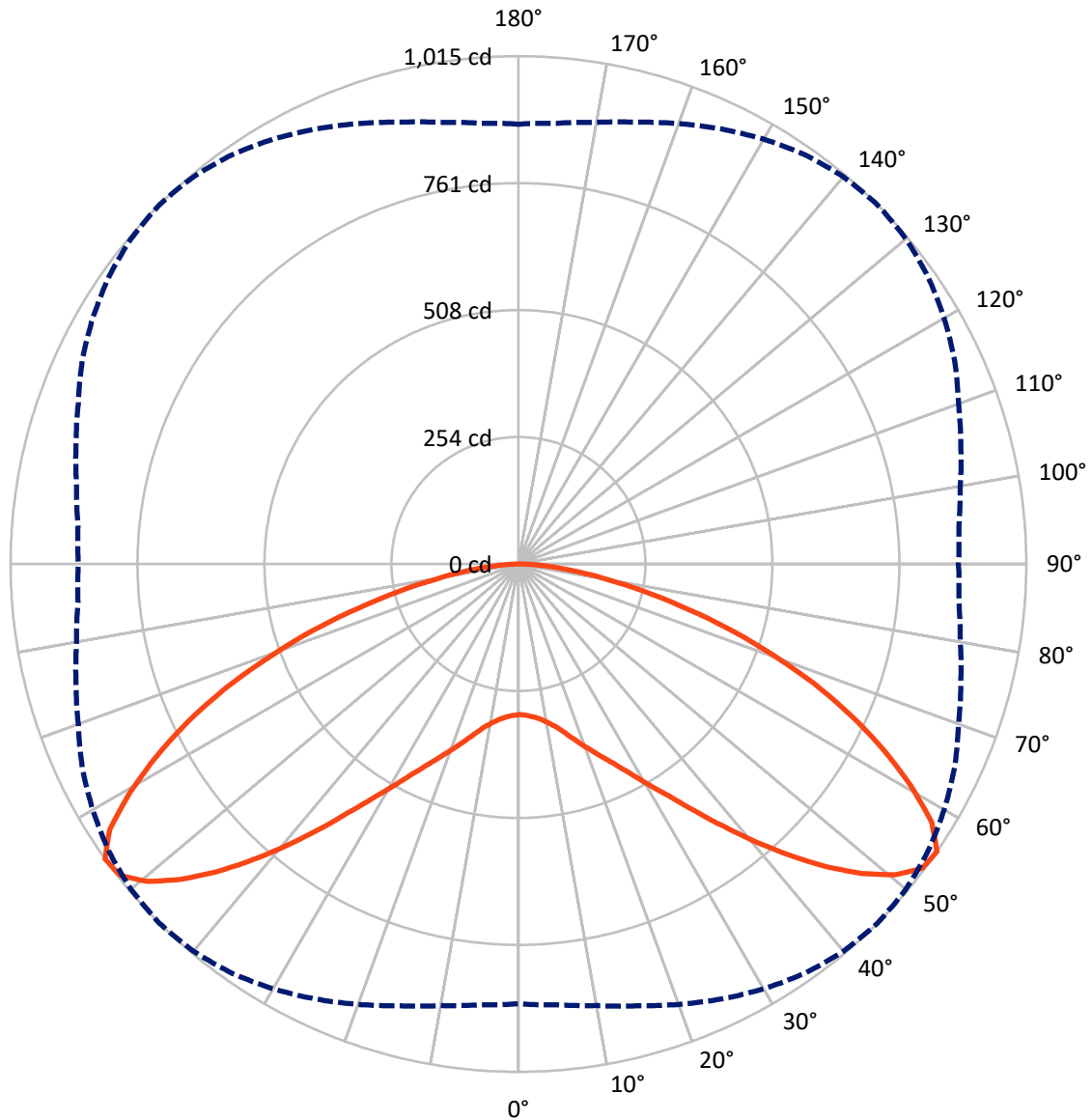
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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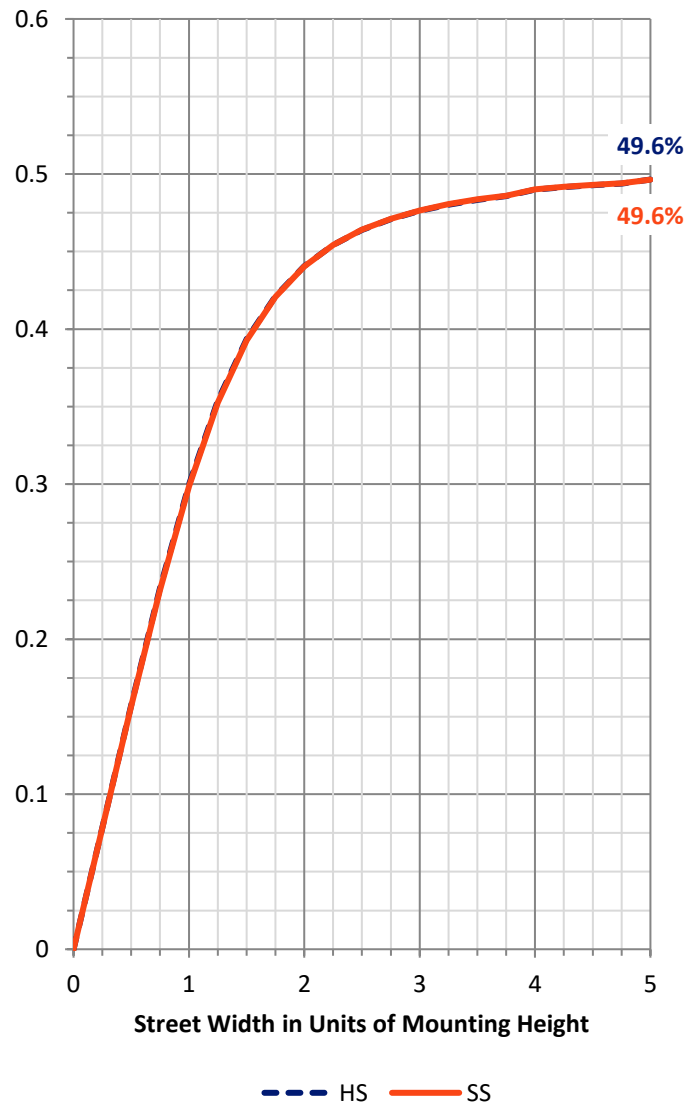
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1623.0 | 0.0 | 1623.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1623.0 | 0.0 | 1623.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3246.0 | 0.0 | 3246.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.7 | 0.9 |
| 10°-20° | 100.8 | 3.1 |
| 20°-30° | 205.2 | 6.3 |
| 30°-40° | 374.7 | 11.5 |
| 40°-50° | 636.2 | 19.6 |
| 50°-60° | 828.6 | 25.5 |
| 60°-70° | 670.1 | 20.6 |
| 70°-80° | 329.3 | 10.1 |
| 80°-90° | 71.3 | 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° | 3246.0 | 100.0 |
| 0°-180° | 3246.0 | 100.0 |



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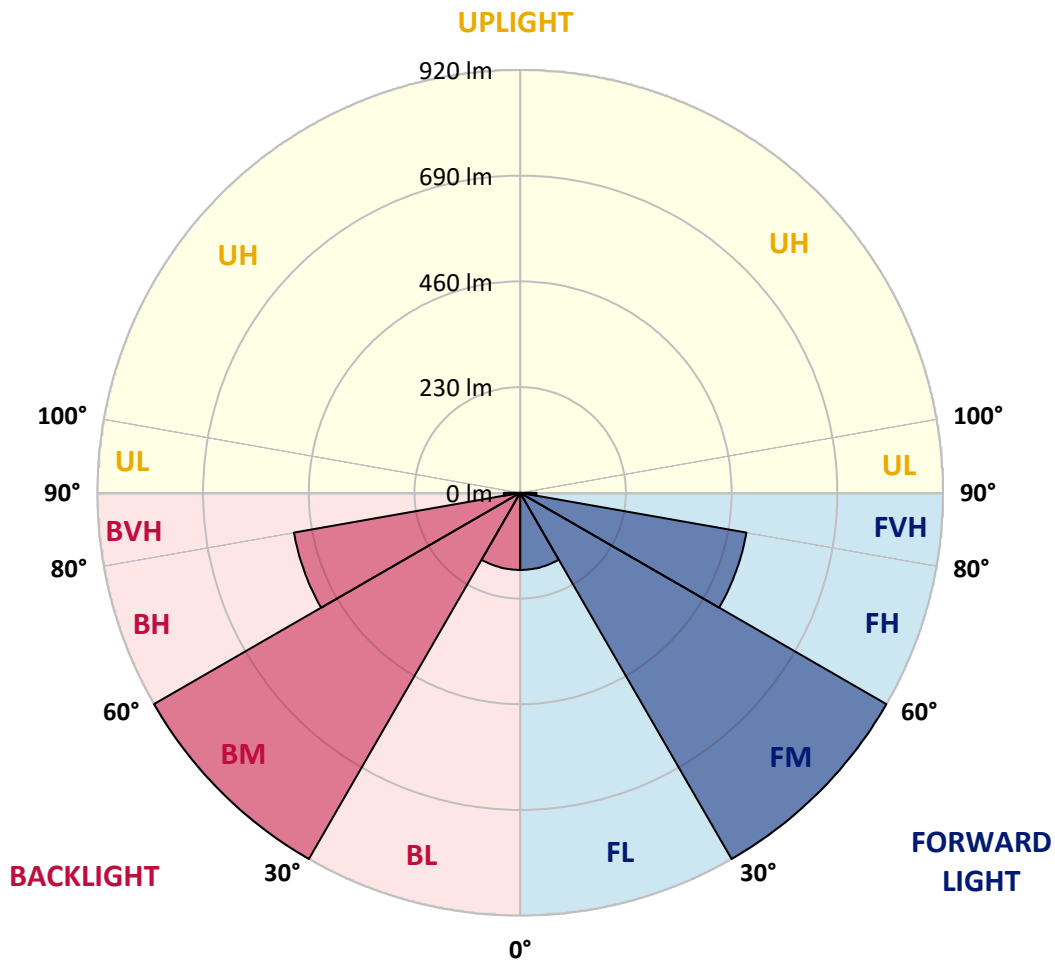
CATALOG NUMBER: TT-C1-LED-E1-5WQ-PM-SG-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 167.8 | 5.2 | | | |
| FM | (30°-60°) | 919.8 | 28.3 | | | |
| FH | (60°-80°) | 499.7 | 15.4 | | | G0/660 |
| FVH | (80°-90°) | 35.6 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 167.8 | 5.2 | B1/500 | | |
| BM | (30°-60°) | 919.8 | 28.3 | B1/1000 | | |
| BH | (60°-80°) | 499.7 | 15.4 | B1/500 | | G0/660 |
| BVH | (80°-90°) | 35.6 | 1.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 |
| 2.5° | 302.1 | 302.1 | 302.1 | 302.1 | 302.1 | 302.1 | 302.8 | 302.8 | 302.8 | 302.8 | 302.8 |
| 5° | 306.1 | 306.1 | 306.1 | 306.7 | 306.7 | 306.7 | 306.7 | 306.7 | 306.7 | 306.7 | 306.7 |
| 7.5° | 312.1 | 311.4 | 312.1 | 312.1 | 312.1 | 312.7 | 312.7 | 312.1 | 312.7 | 312.7 | 312.7 |
| 10° | 320.7 | 320.0 | 320.7 | 320.7 | 320.7 | 321.4 | 321.4 | 321.4 | 321.4 | 322.0 | 322.0 |
| 12.5° | 333.3 | 332.6 | 333.3 | 334.0 | 333.3 | 334.0 | 334.0 | 334.0 | 334.0 | 334.0 | 334.0 |
| 15° | 349.2 | 348.6 | 349.2 | 349.9 | 349.2 | 350.6 | 350.6 | 349.9 | 349.9 | 350.6 | 350.6 |
| 17.5° | 368.5 | 367.2 | 367.8 | 368.5 | 368.5 | 369.8 | 369.8 | 369.2 | 369.8 | 370.5 | 369.8 |
| 20° | 388.4 | 387.1 | 387.7 | 389.7 | 389.7 | 390.4 | 391.7 | 391.1 | 391.7 | 392.4 | 391.7 |
| 22.5° | 410.3 | 409.7 | 410.3 | 412.3 | 412.3 | 413.0 | 415.0 | 415.0 | 415.0 | 415.6 | 415.0 |
| 25° | 434.2 | 433.6 | 434.2 | 436.2 | 436.2 | 437.5 | 440.2 | 440.2 | 440.9 | 441.5 | 440.9 |
| 27.5° | 462.1 | 461.4 | 462.8 | 464.8 | 465.4 | 467.4 | 470.7 | 471.4 | 472.1 | 472.7 | 471.4 |
| 30° | 494.6 | 493.3 | 495.3 | 498.6 | 500.0 | 502.6 | 506.6 | 507.9 | 508.6 | 510.6 | 509.2 |
| 32.5° | 531.8 | 530.5 | 533.1 | 537.1 | 539.1 | 543.1 | 548.4 | 549.7 | 551.7 | 553.1 | 551.1 |
| 35° | 575.6 | 575.0 | 577.6 | 583.6 | 586.9 | 591.6 | 598.9 | 600.9 | 602.2 | 604.9 | 602.2 |
| 37.5° | 624.1 | 623.4 | 628.1 | 634.7 | 640.7 | 648.0 | 656.0 | 659.3 | 661.3 | 664.6 | 661.3 |
| 40° | 677.9 | 677.2 | 683.2 | 691.2 | 698.5 | 707.8 | 717.7 | 722.4 | 726.4 | 729.7 | 725.7 |
| 42.5° | 733.0 | 733.0 | 740.3 | 748.9 | 759.6 | 770.8 | 782.1 | 787.4 | 794.1 | 796.1 | 791.4 |
| 45° | 786.1 | 786.8 | 794.1 | 804.7 | 820.0 | 834.6 | 847.2 | 853.8 | 861.1 | 863.1 | 857.2 |
| 47.5° | 836.6 | 837.2 | 843.9 | 857.8 | 875.1 | 891.7 | 907.0 | 916.2 | 923.6 | 924.2 | 919.6 |
| 50° | 877.7 | 880.4 | 889.0 | 901.6 | 919.6 | 936.8 | 955.4 | 967.4 | 974.7 | 976.7 | 972.0 |
| 52.5° | 893.7 | 898.3 | 908.3 | 924.2 | 944.8 | 962.7 | 983.3 | 998.6 | 1007.2 | 1010.5 | 1006.5 |
| 55° | 879.1 | 884.4 | 896.3 | 914.3 | 936.8 | 959.4 | 980.6 | 998.6 | 1010.5 | 1015.2 | 1011.2 |
| 57.5° | 846.5 | 847.2 | 859.1 | 877.1 | 897.7 | 920.9 | 941.5 | 958.1 | 969.4 | 974.0 | 973.3 |
| 60° | 790.1 | 790.1 | 801.4 | 818.6 | 834.6 | 858.5 | 875.7 | 888.4 | 896.3 | 901.6 | 900.3 |
| 62.5° | 714.4 | 714.4 | 724.4 | 742.3 | 758.2 | 778.8 | 795.4 | 808.7 | 814.0 | 820.0 | 821.3 |
| 65° | 630.1 | 630.1 | 639.4 | 657.3 | 671.9 | 690.5 | 706.4 | 719.1 | 724.4 | 731.7 | 730.3 |
| 67.5° | 540.5 | 539.8 | 548.4 | 563.7 | 577.6 | 594.9 | 610.2 | 622.1 | 628.1 | 636.7 | 630.7 |
| 70° | 448.2 | 448.2 | 455.5 | 467.4 | 477.4 | 494.6 | 509.2 | 521.2 | 525.8 | 533.1 | 529.8 |
| 72.5° | 360.5 | 359.9 | 365.8 | 375.1 | 383.1 | 398.4 | 407.0 | 420.3 | 424.3 | 434.2 | 428.9 |
| 75° | 281.5 | 280.2 | 284.8 | 291.5 | 296.8 | 306.7 | 313.4 | 324.0 | 327.3 | 334.0 | 331.3 |
| 77.5° | 211.8 | 211.1 | 213.1 | 217.8 | 221.8 | 229.7 | 232.4 | 237.7 | 240.3 | 247.0 | 241.7 |
| 80° | 152.0 | 150.1 | 152.0 | 154.7 | 156.0 | 162.0 | 162.7 | 164.7 | 166.0 | 170.6 | 165.3 |
| 82.5° | 102.2 | 99.6 | 100.9 | 102.9 | 102.9 | 106.2 | 106.9 | 106.2 | 108.9 | 110.2 | 107.6 |
| 85° | 58.4 | 56.4 | 57.1 | 58.4 | 57.8 | 59.8 | 59.8 | 59.1 | 61.1 | 61.1 | 59.8 |
| 87.5° | 19.3 | 17.9 | 18.6 | 19.3 | 19.3 | 19.9 | 20.6 | 19.9 | 21.2 | 21.2 | 19.9 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 | 300.8 |
| 2.5° | 302.8 | 302.8 | 302.8 | 302.8 | 302.8 | 302.8 | 302.8 | 302.8 |
| 5° | 306.7 | 306.7 | 306.7 | 306.7 | 306.7 | 306.1 | 306.1 | 306.1 |
| 7.5° | 312.7 | 312.7 | 312.7 | 312.7 | 312.7 | 312.1 | 312.1 | 312.1 |
| 10° | 322.0 | 321.4 | 321.4 | 321.4 | 321.4 | 320.7 | 321.4 | 320.7 |
| 12.5° | 334.0 | 334.6 | 334.6 | 334.0 | 334.6 | 333.3 | 333.3 | 333.3 |
| 15° | 350.6 | 349.9 | 349.9 | 349.9 | 349.9 | 349.2 | 349.2 | 349.2 |
| 17.5° | 369.2 | 369.2 | 368.5 | 368.5 | 367.8 | 367.2 | 367.2 | 367.2 |
| 20° | 391.1 | 390.4 | 389.7 | 389.1 | 388.4 | 387.1 | 386.4 | 386.4 |
| 22.5° | 413.6 | 413.0 | 412.3 | 411.6 | 411.0 | 409.7 | 408.3 | 408.3 |
| 25° | 438.9 | 437.5 | 436.9 | 435.5 | 434.2 | 432.9 | 432.2 | 431.6 |
| 27.5° | 469.4 | 468.1 | 466.1 | 464.1 | 461.4 | 460.8 | 459.5 | 459.5 |
| 30° | 505.9 | 503.9 | 501.3 | 498.0 | 495.3 | 492.6 | 491.3 | 490.7 |
| 32.5° | 548.4 | 545.8 | 541.1 | 537.1 | 532.5 | 529.8 | 527.8 | 526.5 |
| 35° | 598.2 | 594.2 | 588.9 | 582.9 | 577.0 | 572.3 | 569.0 | 569.0 |
| 37.5° | 656.6 | 650.7 | 642.7 | 635.4 | 626.8 | 621.5 | 617.5 | 614.8 |
| 40° | 720.4 | 711.8 | 701.8 | 692.5 | 682.5 | 675.2 | 669.3 | 669.9 |
| 42.5° | 783.5 | 776.2 | 764.2 | 752.9 | 740.3 | 730.3 | 723.0 | 722.4 |
| 45° | 849.9 | 840.6 | 826.0 | 811.3 | 796.7 | 784.8 | 776.2 | 774.8 |
| 47.5° | 911.6 | 901.6 | 884.4 | 866.5 | 850.5 | 837.2 | 827.9 | 826.6 |
| 50° | 962.1 | 950.1 | 932.2 | 912.9 | 895.7 | 881.1 | 871.1 | 868.4 |
| 52.5° | 994.6 | 981.3 | 962.1 | 938.8 | 920.2 | 903.6 | 891.7 | 888.4 |
| 55° | 999.9 | 982.6 | 962.1 | 936.2 | 915.6 | 897.0 | 883.7 | 879.7 |
| 57.5° | 963.4 | 944.8 | 926.2 | 903.6 | 883.0 | 863.1 | 852.5 | 847.2 |
| 60° | 892.3 | 877.7 | 862.5 | 841.9 | 825.3 | 806.7 | 798.1 | 795.4 |
| 62.5° | 810.7 | 798.1 | 784.1 | 762.9 | 748.9 | 732.3 | 724.4 | 721.0 |
| 65° | 723.0 | 708.4 | 695.2 | 677.9 | 662.6 | 648.7 | 637.4 | 636.1 |
| 67.5° | 626.1 | 610.8 | 599.5 | 584.3 | 569.0 | 555.7 | 548.4 | 544.4 |
| 70° | 523.9 | 511.2 | 500.0 | 483.4 | 473.4 | 460.8 | 455.5 | 451.5 |
| 72.5° | 422.3 | 415.0 | 401.0 | 390.4 | 379.1 | 369.2 | 365.8 | 361.9 |
| 75° | 326.7 | 318.0 | 307.4 | 300.8 | 292.1 | 286.8 | 284.2 | 281.5 |
| 77.5° | 239.7 | 232.4 | 226.4 | 223.8 | 219.8 | 214.5 | 212.5 | 210.5 |
| 80° | 166.0 | 162.7 | 158.7 | 158.0 | 155.4 | 151.4 | 150.7 | 150.1 |
| 82.5° | 107.6 | 105.6 | 104.2 | 104.2 | 102.9 | 100.3 | 99.6 | 99.6 |
| 85° | 59.8 | 59.1 | 59.8 | 59.1 | 57.8 | 56.4 | 56.4 | 56.4 |
| 87.5° | 19.9 | 19.9 | 20.6 | 21.2 | 19.3 | 19.3 | 18.6 | 18.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)