

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: P198139

Luminaire Tested: **TT-C2-LED-E1-RW-PM-SG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34699)
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-RW-PM-SG-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
RECTANGULAR 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: 3463.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

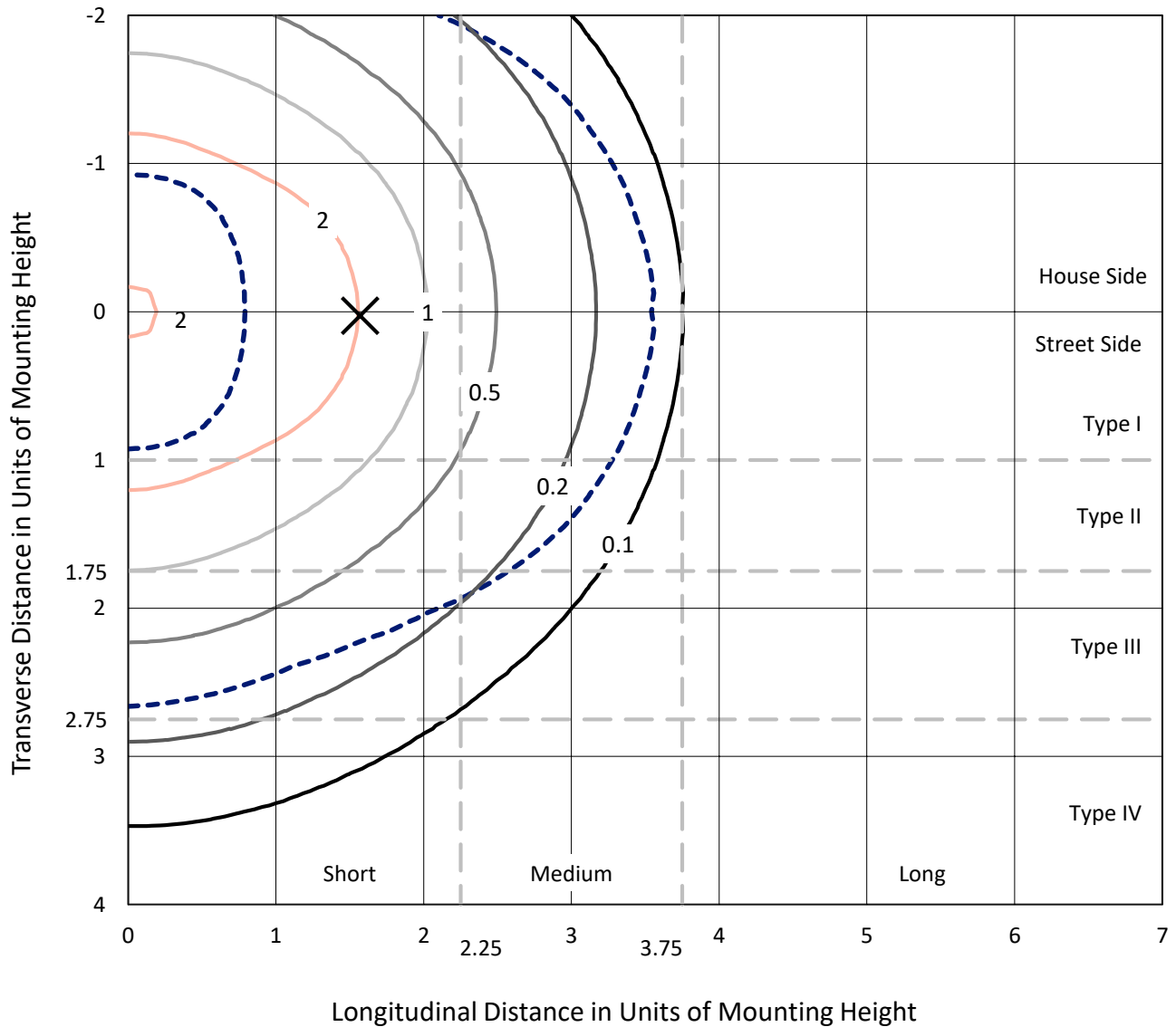
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

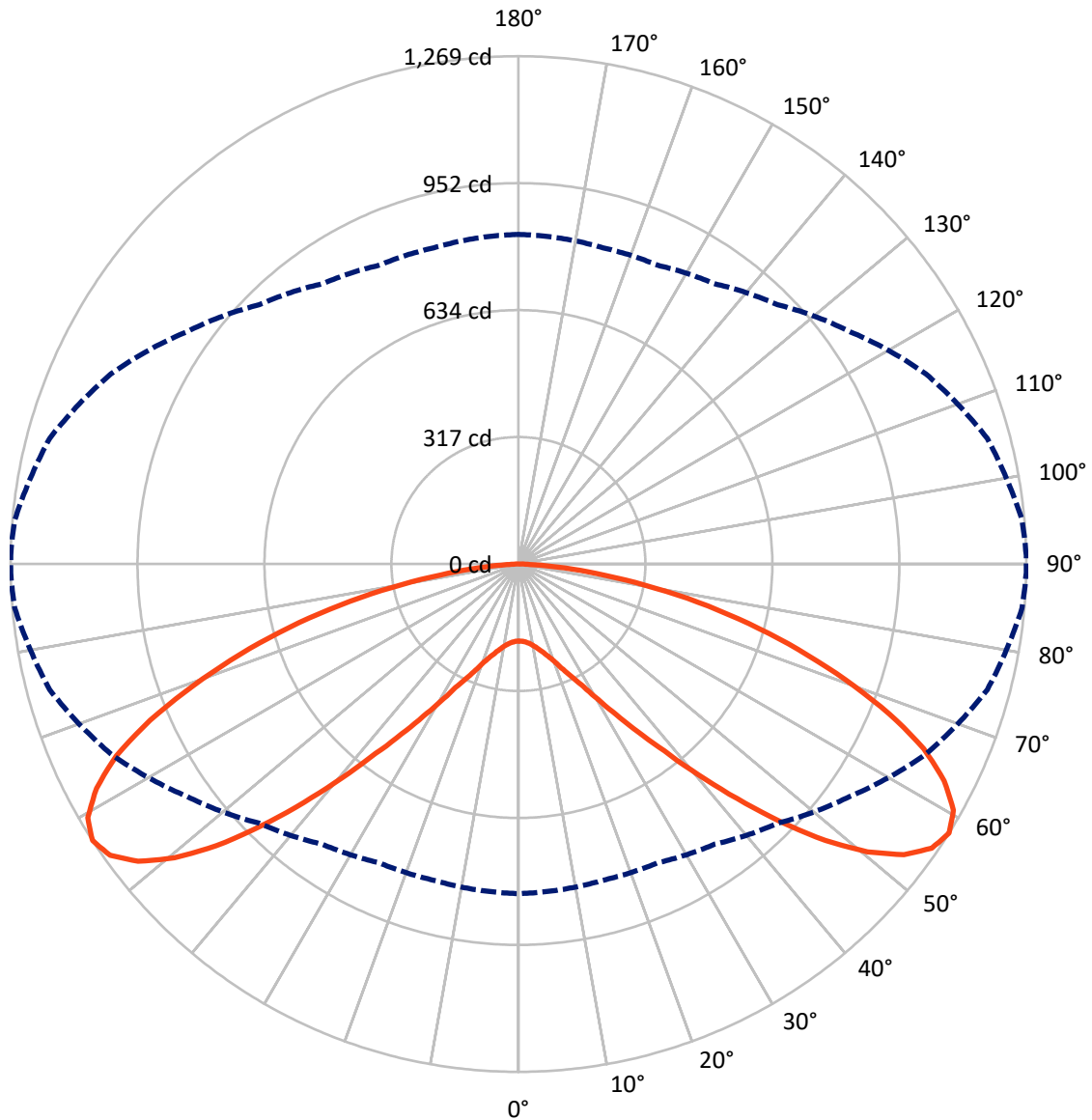
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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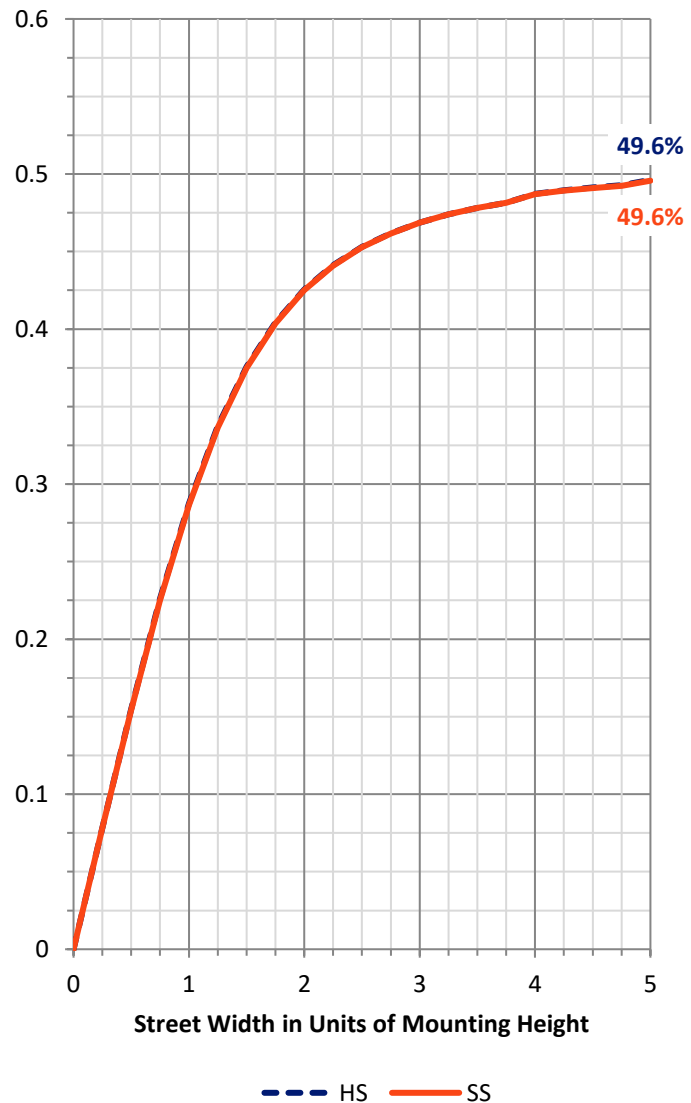
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1731.7 | 0.0 | 1731.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1731.7 | 0.0 | 1731.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3463.5 | 0.0 | 3463.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 19.1 | 0.6 |
| 10°-20° | 66.7 | 1.9 |
| 20°-30° | 149.4 | 4.3 |
| 30°-40° | 309.2 | 8.9 |
| 40°-50° | 586.9 | 16.9 |
| 50°-60° | 858.7 | 24.8 |
| 60°-70° | 856.2 | 24.7 |
| 70°-80° | 509.6 | 14.7 |
| 80°-90° | 107.8 | 3.1 |
| 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° | 3463.5 | 100.0 |
| 0°-180° | 3463.5 | 100.0 |



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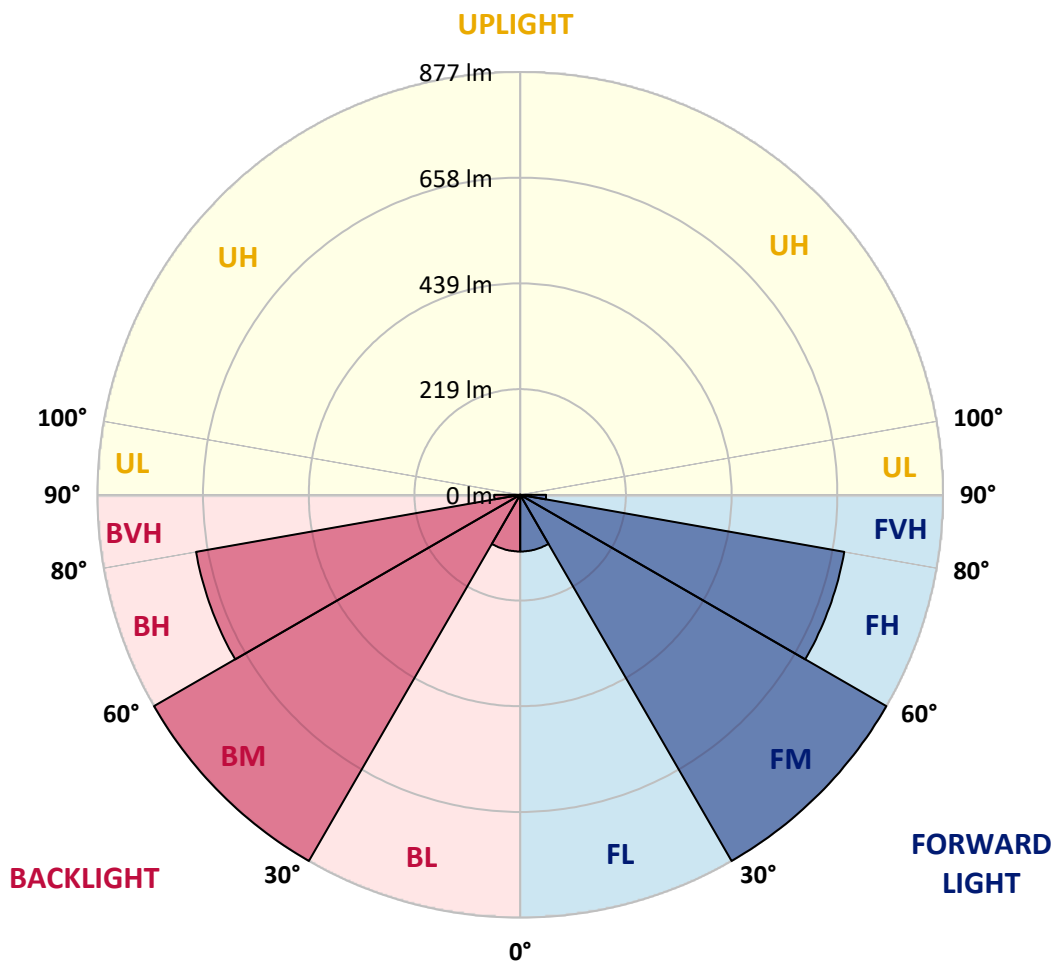
CATALOG NUMBER: TT-C2-LED-E1-RW-PM-SG-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 117.6 | 3.4 | | | |
| FM (30°-60°) | 877.4 | 25.3 | | | |
| FH (60°-80°) | 682.9 | 19.7 | | | G1/1800 |
| FVH (80°-90°) | 53.9 | 1.6 | | | G1/100 |
| BL (0°-30°) | 117.6 | 3.4 | B1/500 | | |
| BM (30°-60°) | 877.4 | 25.3 | B1/1000 | | |
| BH (60°-80°) | 682.9 | 19.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 53.9 | 1.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 89° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 192.4 | 192.4 | 192.4 | 192.4 | 192.4 | 192.4 | 192.4 | 192.4 | 192.4 | 192.4 | 192.4 |
| 2.5° | 193.8 | 193.8 | 193.8 | 193.8 | 193.1 | 193.1 | 193.1 | 193.1 | 193.1 | 193.1 | 193.1 |
| 5° | 196.7 | 196.7 | 196.0 | 196.7 | 196.0 | 196.0 | 196.0 | 196.0 | 196.0 | 196.0 | 196.0 |
| 7.5° | 201.0 | 201.0 | 201.0 | 201.0 | 201.0 | 201.0 | 200.3 | 201.0 | 200.3 | 200.3 | 200.3 |
| 10° | 208.9 | 208.2 | 208.9 | 208.2 | 208.2 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 |
| 12.5° | 219.0 | 219.0 | 219.0 | 218.3 | 217.6 | 217.6 | 216.9 | 216.9 | 216.9 | 216.2 | 216.9 |
| 15° | 232.7 | 233.4 | 231.3 | 230.6 | 230.6 | 229.1 | 228.4 | 229.1 | 228.4 | 227.7 | 228.4 |
| 17.5° | 249.3 | 250.0 | 248.6 | 247.1 | 245.7 | 245.0 | 244.3 | 243.5 | 243.5 | 243.5 | 242.8 |
| 20° | 270.9 | 270.9 | 269.5 | 266.6 | 264.4 | 263.0 | 263.0 | 262.3 | 262.3 | 263.0 | 260.8 |
| 22.5° | 295.4 | 294.7 | 293.2 | 291.8 | 288.9 | 286.0 | 284.6 | 283.9 | 283.9 | 285.3 | 286.0 |
| 25° | 325.7 | 326.4 | 322.1 | 319.2 | 316.3 | 311.3 | 310.5 | 311.3 | 312.0 | 312.0 | 313.4 |
| 27.5° | 356.6 | 358.1 | 354.5 | 350.2 | 345.8 | 343.7 | 342.2 | 343.7 | 345.1 | 347.3 | 346.6 |
| 30° | 393.4 | 392.7 | 392.0 | 385.5 | 380.4 | 378.3 | 379.7 | 384.0 | 387.6 | 392.7 | 393.4 |
| 32.5° | 433.0 | 434.5 | 429.4 | 424.4 | 422.2 | 420.1 | 422.2 | 431.6 | 441.7 | 444.5 | 448.2 |
| 35° | 479.9 | 477.0 | 474.1 | 470.5 | 466.9 | 466.9 | 477.7 | 488.5 | 504.4 | 515.2 | 515.2 |
| 37.5° | 527.4 | 525.2 | 520.2 | 515.2 | 515.2 | 522.4 | 533.2 | 559.8 | 582.9 | 598.7 | 592.3 |
| 40° | 576.4 | 573.5 | 572.1 | 566.3 | 567.0 | 584.3 | 607.4 | 640.5 | 673.7 | 696.0 | 691.7 |
| 42.5° | 626.1 | 626.8 | 621.8 | 619.6 | 626.1 | 645.6 | 685.9 | 730.6 | 772.4 | 800.5 | 801.2 |
| 45° | 677.3 | 677.3 | 673.7 | 672.2 | 684.5 | 714.0 | 764.5 | 825.7 | 881.9 | 914.3 | 917.9 |
| 47.5° | 724.1 | 723.4 | 720.5 | 719.8 | 740.7 | 776.0 | 839.4 | 917.9 | 987.1 | 1023.1 | 1032.5 |
| 50° | 764.5 | 765.2 | 760.9 | 764.5 | 783.2 | 830.0 | 906.4 | 1001.5 | 1080.8 | 1126.1 | 1130.5 |
| 52.5° | 796.2 | 796.9 | 791.8 | 794.7 | 819.9 | 874.0 | 959.0 | 1065.6 | 1152.1 | 1200.4 | 1206.1 |
| 55° | 817.8 | 814.9 | 811.3 | 815.6 | 844.4 | 904.2 | 997.2 | 1108.1 | 1198.2 | 1248.6 | 1253.0 |
| 57.5° | 823.5 | 821.4 | 817.8 | 823.5 | 854.5 | 915.8 | 1011.6 | 1123.3 | 1212.6 | 1263.0 | 1268.8 |
| 60° | 814.9 | 814.9 | 810.6 | 817.0 | 848.0 | 907.8 | 1001.5 | 1109.6 | 1194.6 | 1240.7 | 1248.6 |
| 62.5° | 792.6 | 792.6 | 787.5 | 792.6 | 822.1 | 877.6 | 966.9 | 1067.1 | 1144.2 | 1184.5 | 1193.9 |
| 65° | 750.8 | 750.0 | 747.2 | 748.6 | 773.1 | 825.7 | 907.1 | 997.9 | 1064.9 | 1100.9 | 1113.2 |
| 67.5° | 690.2 | 688.1 | 685.2 | 688.1 | 706.1 | 752.9 | 827.9 | 907.1 | 962.6 | 997.2 | 1000.1 |
| 70° | 613.1 | 611.0 | 607.4 | 605.9 | 624.7 | 662.1 | 722.7 | 792.6 | 838.7 | 863.9 | 866.8 |
| 72.5° | 521.6 | 524.5 | 521.6 | 517.3 | 529.6 | 562.7 | 613.1 | 666.5 | 704.7 | 727.7 | 731.3 |
| 75° | 431.6 | 432.3 | 425.1 | 423.7 | 433.0 | 453.9 | 495.0 | 536.1 | 569.2 | 588.7 | 594.4 |
| 77.5° | 334.3 | 334.3 | 327.8 | 324.2 | 329.3 | 347.3 | 375.4 | 408.5 | 435.9 | 448.2 | 458.2 |
| 80° | 240.6 | 240.6 | 234.9 | 226.2 | 231.3 | 240.6 | 265.9 | 283.9 | 305.5 | 319.2 | 320.6 |
| 82.5° | 150.6 | 148.4 | 149.9 | 143.4 | 144.8 | 147.7 | 163.6 | 175.8 | 188.8 | 196.0 | 196.7 |
| 85° | 78.5 | 75.7 | 74.2 | 70.6 | 68.4 | 73.5 | 80.7 | 89.3 | 92.2 | 98.7 | 96.5 |
| 87.5° | 24.5 | 23.1 | 22.3 | 22.3 | 20.2 | 21.6 | 22.3 | 23.8 | 27.4 | 27.4 | 28.8 |
| 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° |
|-------|--------|
| 0° | 192.4 |
| 2.5° | 193.1 |
| 5° | 196.0 |
| 7.5° | 200.3 |
| 10° | 207.5 |
| 12.5° | 216.2 |
| 15° | 228.4 |
| 17.5° | 243.5 |
| 20° | 260.8 |
| 22.5° | 283.9 |
| 25° | 312.0 |
| 27.5° | 345.1 |
| 30° | 392.7 |
| 32.5° | 446.0 |
| 35° | 510.8 |
| 37.5° | 599.5 |
| 40° | 691.0 |
| 42.5° | 806.2 |
| 45° | 917.9 |
| 47.5° | 1032.5 |
| 50° | 1128.3 |
| 52.5° | 1204.0 |
| 55° | 1255.1 |
| 57.5° | 1268.8 |
| 60° | 1246.5 |
| 62.5° | 1191.7 |
| 65° | 1111.7 |
| 67.5° | 1000.1 |
| 70° | 871.1 |
| 72.5° | 729.1 |
| 75° | 587.9 |
| 77.5° | 455.4 |
| 80° | 320.6 |
| 82.5° | 202.5 |
| 85° | 96.5 |
| 87.5° | 31.0 |
| 90° | 0.0 |

(END OF REPORT)