

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: P198065

Luminaire Tested: **TT-C2-LED-E1-RW-PM-CG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34695)
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-CG-8030
Description: TOPTIER LED AREA/SITE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3182.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

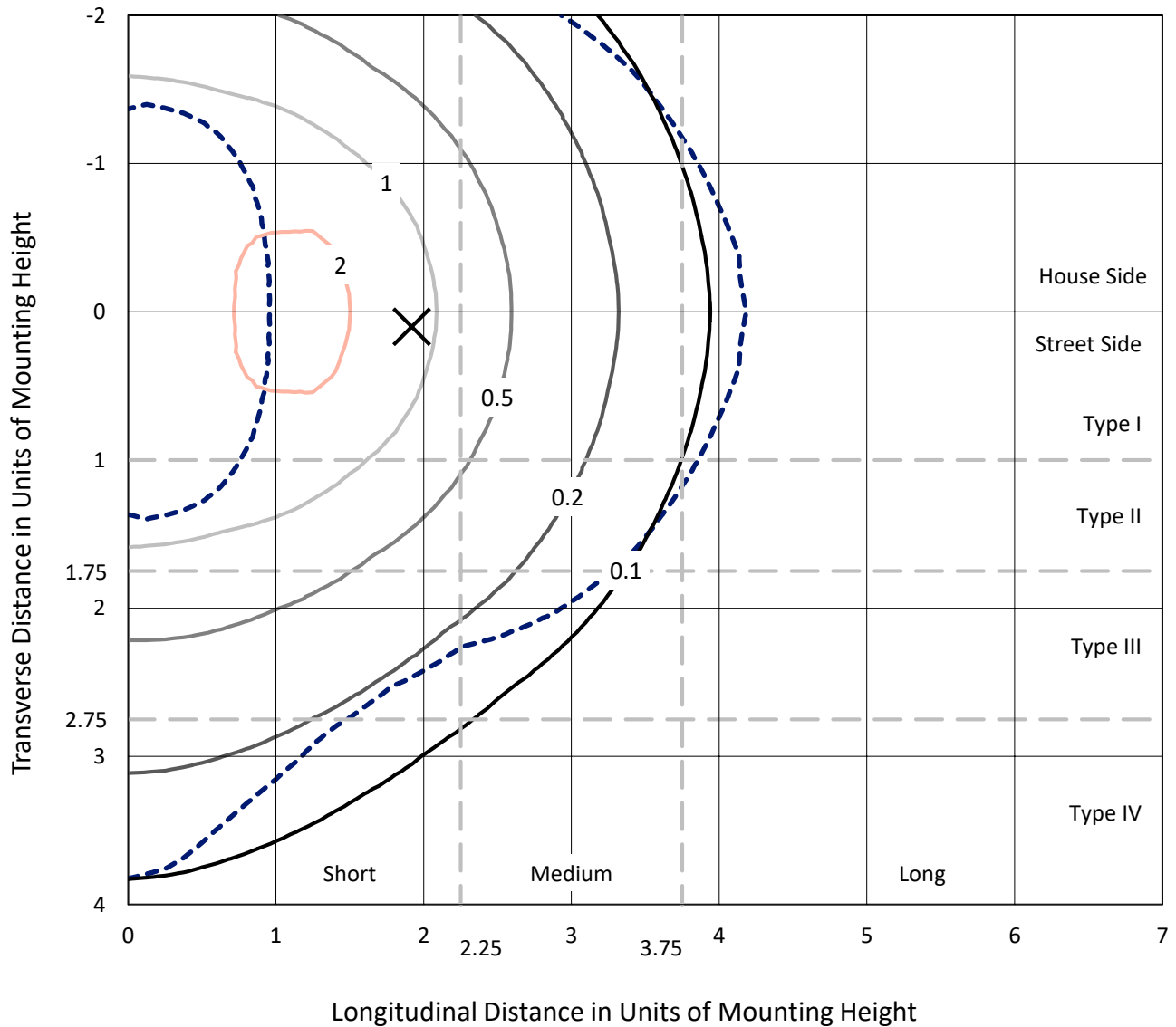
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

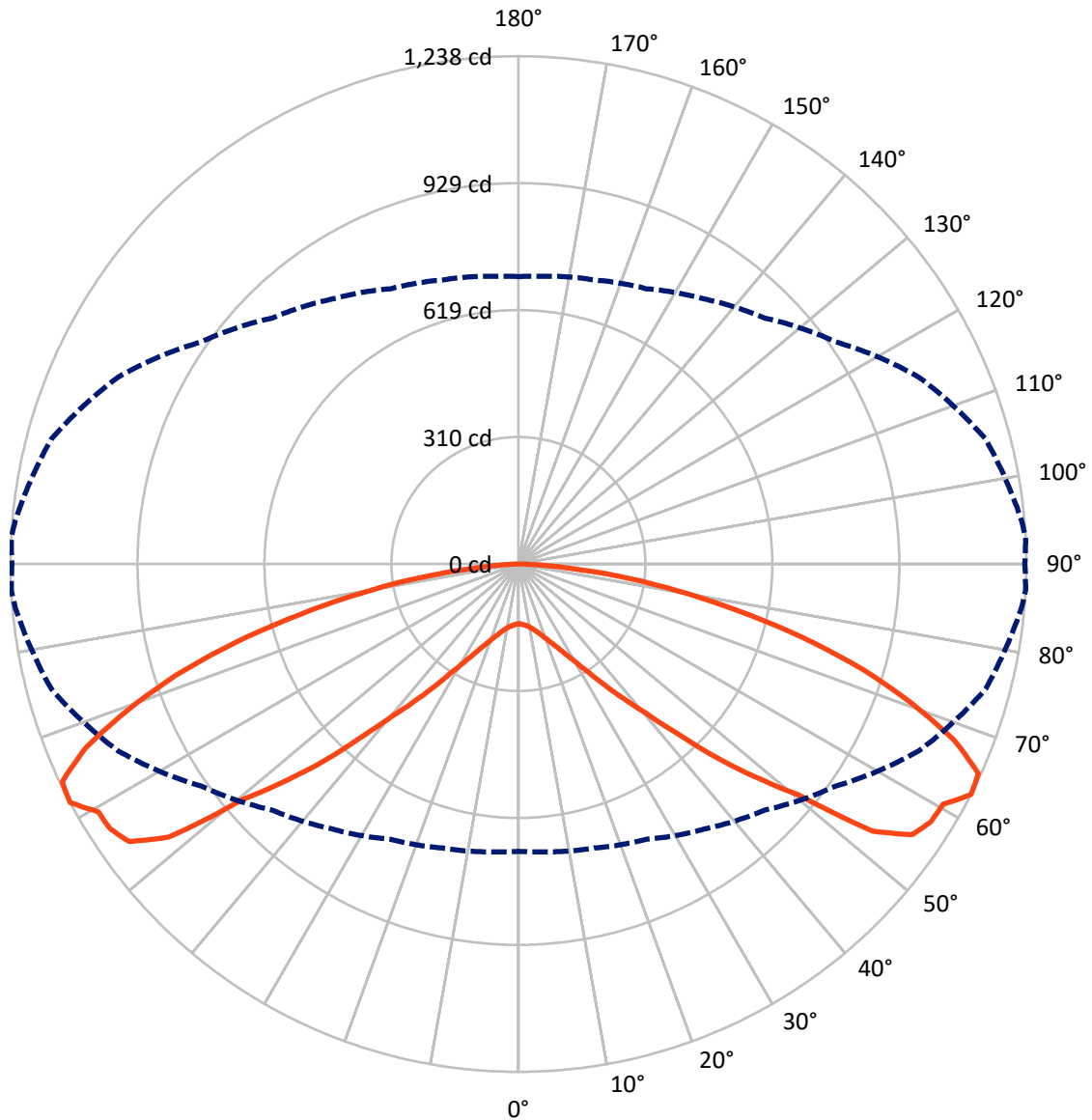
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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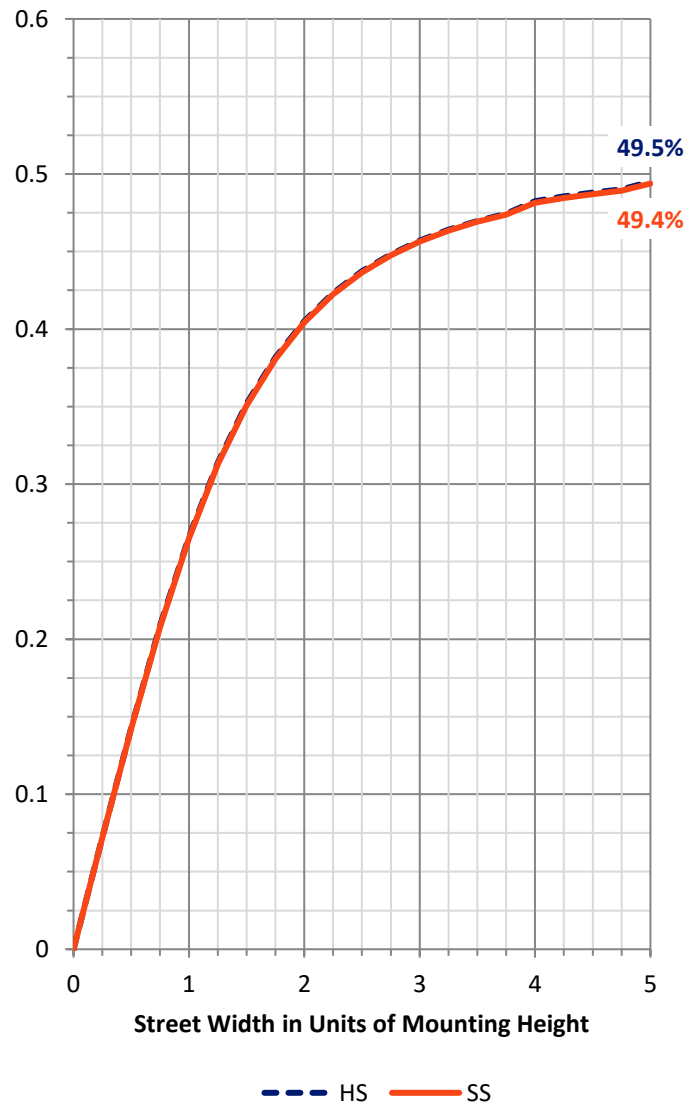
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1591.4 | 0.0 | 1591.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1591.4 | 0.0 | 1591.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3182.8 | 0.0 | 3182.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 14.5 | 0.5 |
| 10°-20° | 50.3 | 1.6 |
| 20°-30° | 110.9 | 3.5 |
| 30°-40° | 223.4 | 7.0 |
| 40°-50° | 426.1 | 13.4 |
| 50°-60° | 729.6 | 22.9 |
| 60°-70° | 883.9 | 27.8 |
| 70°-80° | 612.4 | 19.2 |
| 80°-90° | 131.6 | 4.1 |
| 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° | 3182.8 | 100.0 |
| 0°-180° | 3182.8 | 100.0 |



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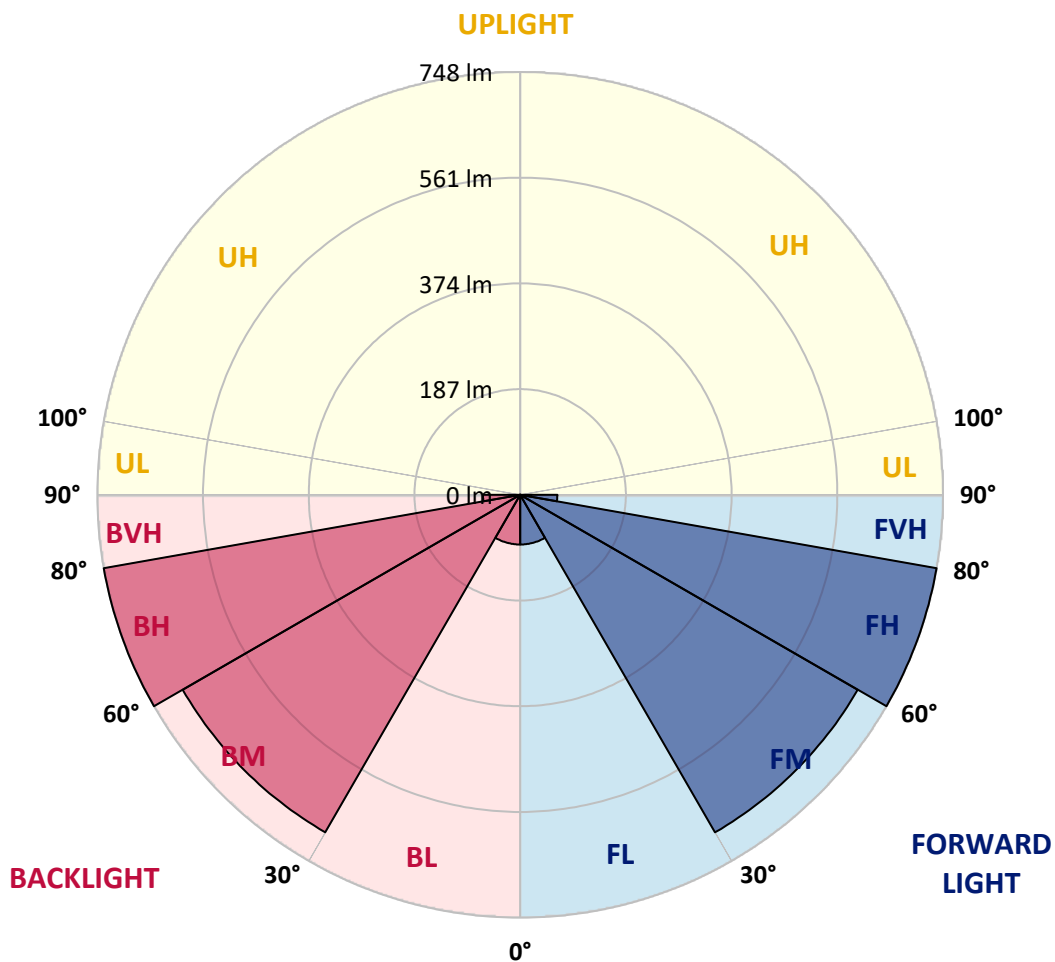
CATALOG NUMBER: TT-C2-LED-E1-RW-PM-CG-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 87.9 | 2.8 | | | |
| FM | (30°-60°) | 689.6 | 21.7 | | | |
| FH | (60°-80°) | 748.2 | 23.5 | | | G1/1800 |
| FVH | (80°-90°) | 65.8 | 2.1 | | | G1/100 |
| BL | (0°-30°) | 87.9 | 2.8 | B0/110 | | |
| BM | (30°-60°) | 689.6 | 21.7 | B1/1000 | | |
| BH | (60°-80°) | 748.2 | 23.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 65.8 | 2.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 87° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 145.2 | 145.2 | 145.2 | 145.2 | 145.2 | 145.2 | 145.2 | 145.2 | 145.2 | 145.2 | 145.2 |
| 2.5° | 146.5 | 146.5 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 | 147.1 |
| 5° | 149.1 | 149.1 | 149.1 | 149.7 | 149.7 | 149.7 | 149.7 | 149.7 | 149.1 | 149.1 | 149.1 |
| 7.5° | 153.0 | 153.0 | 153.0 | 153.6 | 153.6 | 153.6 | 153.0 | 153.0 | 152.3 | 152.3 | 152.3 |
| 10° | 158.2 | 158.2 | 158.8 | 158.8 | 158.2 | 158.2 | 157.5 | 156.9 | 157.5 | 156.9 | 156.9 |
| 12.5° | 165.3 | 166.6 | 166.0 | 166.0 | 164.7 | 164.7 | 164.0 | 164.0 | 164.0 | 163.4 | 163.4 |
| 15° | 175.8 | 175.8 | 176.4 | 175.1 | 175.1 | 173.1 | 172.5 | 171.8 | 172.5 | 172.5 | 171.8 |
| 17.5° | 188.1 | 188.1 | 188.1 | 186.2 | 184.9 | 183.6 | 182.9 | 182.3 | 181.6 | 182.3 | 182.3 |
| 20° | 207.0 | 205.7 | 203.1 | 201.8 | 198.5 | 197.2 | 195.9 | 195.3 | 194.6 | 194.6 | 194.6 |
| 22.5° | 226.5 | 225.2 | 222.0 | 219.4 | 216.8 | 213.5 | 212.2 | 209.6 | 208.9 | 210.3 | 209.6 |
| 25° | 245.4 | 247.4 | 243.4 | 240.2 | 238.2 | 233.0 | 229.8 | 229.1 | 227.8 | 227.2 | 227.8 |
| 27.5° | 268.8 | 270.1 | 266.9 | 262.3 | 258.4 | 254.5 | 251.3 | 250.0 | 250.6 | 250.6 | 251.3 |
| 30° | 294.9 | 297.5 | 292.3 | 289.7 | 283.8 | 278.6 | 276.0 | 277.3 | 278.6 | 280.6 | 279.9 |
| 32.5° | 324.8 | 324.8 | 322.2 | 317.7 | 311.1 | 306.6 | 305.3 | 307.2 | 313.1 | 315.7 | 315.1 |
| 35° | 360.0 | 357.4 | 354.8 | 348.9 | 340.4 | 337.8 | 340.4 | 346.9 | 355.4 | 360.0 | 362.6 |
| 37.5° | 396.4 | 391.2 | 387.3 | 380.8 | 376.9 | 375.6 | 381.4 | 393.8 | 402.9 | 411.4 | 415.3 |
| 40° | 427.7 | 427.7 | 422.5 | 415.3 | 411.4 | 417.2 | 426.4 | 443.9 | 461.5 | 470.6 | 477.1 |
| 42.5° | 458.9 | 462.8 | 457.0 | 451.1 | 451.1 | 458.9 | 476.5 | 503.8 | 537.0 | 556.5 | 559.8 |
| 45° | 491.5 | 498.6 | 490.8 | 486.9 | 490.8 | 506.4 | 539.6 | 592.3 | 641.8 | 673.7 | 668.5 |
| 47.5° | 525.3 | 531.8 | 524.7 | 522.7 | 531.8 | 559.8 | 610.6 | 678.3 | 727.7 | 760.9 | 774.0 |
| 50° | 567.0 | 562.4 | 559.8 | 559.1 | 578.0 | 619.7 | 685.4 | 758.3 | 837.7 | 867.7 | 884.0 |
| 52.5° | 602.1 | 594.3 | 593.0 | 597.6 | 628.8 | 678.9 | 760.9 | 895.0 | 1005.0 | 1079.2 | 1081.8 |
| 55° | 632.7 | 624.2 | 628.8 | 639.9 | 682.2 | 751.8 | 855.3 | 1012.2 | 1105.3 | 1160.6 | 1165.2 |
| 57.5° | 658.7 | 654.2 | 662.0 | 677.0 | 731.6 | 815.0 | 930.8 | 1060.4 | 1137.2 | 1181.4 | 1186.0 |
| 60° | 682.2 | 681.5 | 690.0 | 715.4 | 776.6 | 852.1 | 947.8 | 1063.6 | 1143.7 | 1183.4 | 1189.3 |
| 62.5° | 700.4 | 704.3 | 716.7 | 740.1 | 788.9 | 848.2 | 943.9 | 1077.3 | 1178.8 | 1230.9 | 1238.1 |
| 65° | 716.0 | 719.9 | 732.3 | 740.1 | 783.7 | 840.4 | 965.3 | 1086.4 | 1173.6 | 1227.7 | 1232.2 |
| 67.5° | 724.5 | 729.0 | 727.1 | 728.4 | 762.2 | 806.5 | 914.6 | 1018.7 | 1090.3 | 1139.8 | 1145.6 |
| 70° | 723.2 | 719.3 | 703.7 | 687.4 | 694.5 | 725.8 | 823.4 | 910.7 | 975.7 | 1014.8 | 1016.8 |
| 72.5° | 695.8 | 689.3 | 652.2 | 614.5 | 603.4 | 624.2 | 709.5 | 775.3 | 830.6 | 866.4 | 877.5 |
| 75° | 634.0 | 621.0 | 567.0 | 518.1 | 493.4 | 509.0 | 574.8 | 632.1 | 673.1 | 708.2 | 715.4 |
| 77.5° | 521.4 | 513.6 | 459.6 | 406.2 | 378.8 | 389.3 | 441.3 | 475.2 | 519.4 | 555.9 | 546.8 |
| 80° | 379.5 | 378.2 | 334.6 | 287.1 | 267.5 | 272.1 | 300.1 | 333.3 | 361.3 | 388.6 | 389.9 |
| 82.5° | 248.0 | 244.1 | 214.8 | 180.3 | 160.1 | 162.7 | 180.3 | 197.9 | 224.6 | 242.1 | 247.4 |
| 85° | 123.0 | 121.1 | 108.1 | 86.6 | 75.5 | 75.5 | 84.0 | 94.4 | 107.4 | 115.2 | 114.6 |
| 87.5° | 33.8 | 30.6 | 29.9 | 22.1 | 18.2 | 19.5 | 19.5 | 21.5 | 27.3 | 29.3 | 31.2 |
| 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° | 145.2 |
| 2.5° | 147.1 |
| 5° | 149.1 |
| 7.5° | 152.3 |
| 10° | 157.5 |
| 12.5° | 163.4 |
| 15° | 171.8 |
| 17.5° | 181.6 |
| 20° | 194.6 |
| 22.5° | 210.9 |
| 25° | 227.8 |
| 27.5° | 250.6 |
| 30° | 280.6 |
| 32.5° | 315.7 |
| 35° | 361.3 |
| 37.5° | 412.0 |
| 40° | 474.5 |
| 42.5° | 556.5 |
| 45° | 674.4 |
| 47.5° | 767.4 |
| 50° | 875.5 |
| 52.5° | 1085.8 |
| 55° | 1166.5 |
| 57.5° | 1187.3 |
| 60° | 1189.9 |
| 62.5° | 1234.8 |
| 65° | 1237.4 |
| 67.5° | 1141.1 |
| 70° | 1020.0 |
| 72.5° | 876.2 |
| 75° | 720.6 |
| 77.5° | 556.5 |
| 80° | 389.3 |
| 82.5° | 243.4 |
| 85° | 113.9 |
| 87.5° | 28.6 |
| 90° | 0.0 |

(END OF REPORT)