

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: P198067

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198067  
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-7050  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS  
Light Source: (168) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3523 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

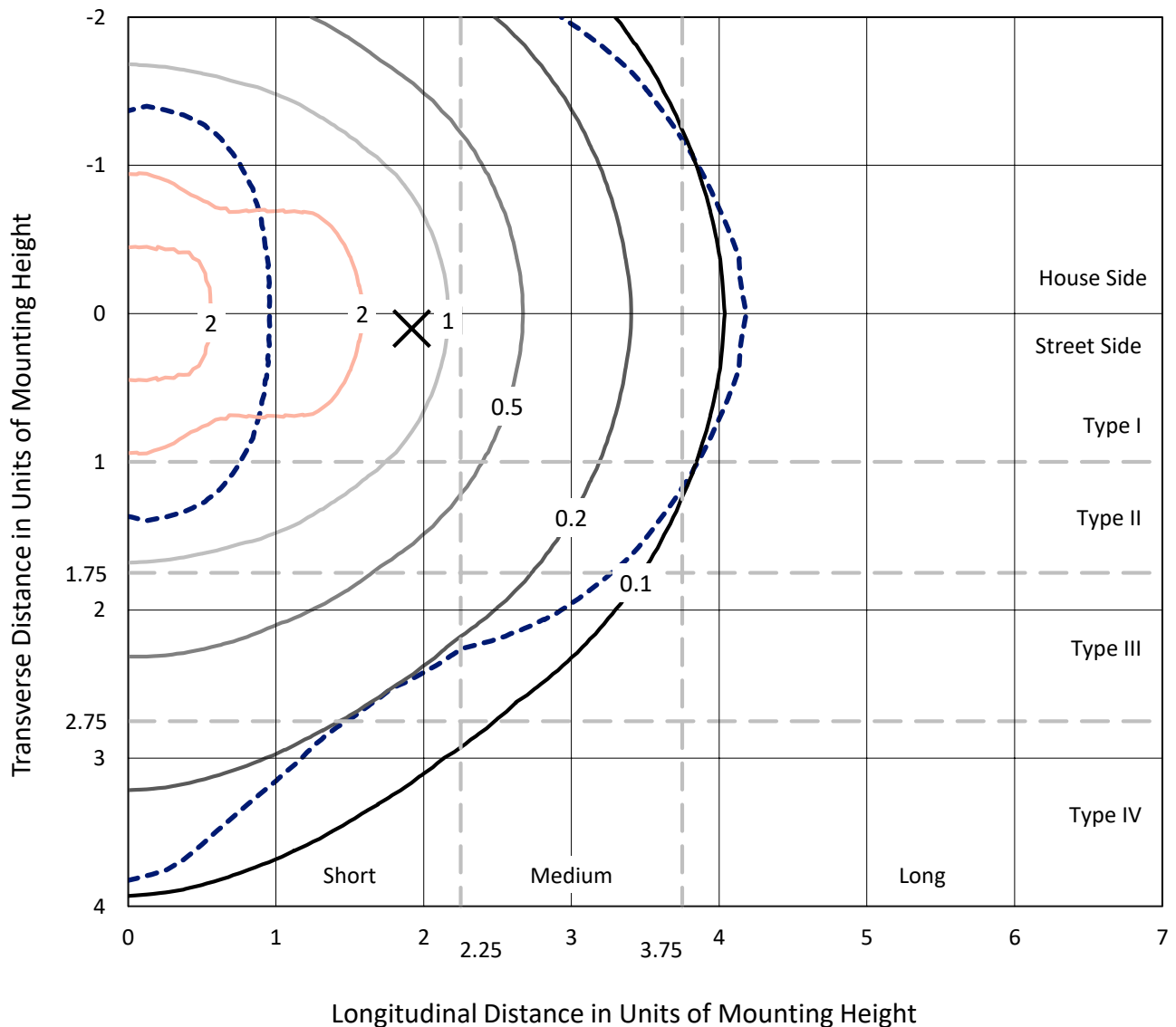
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

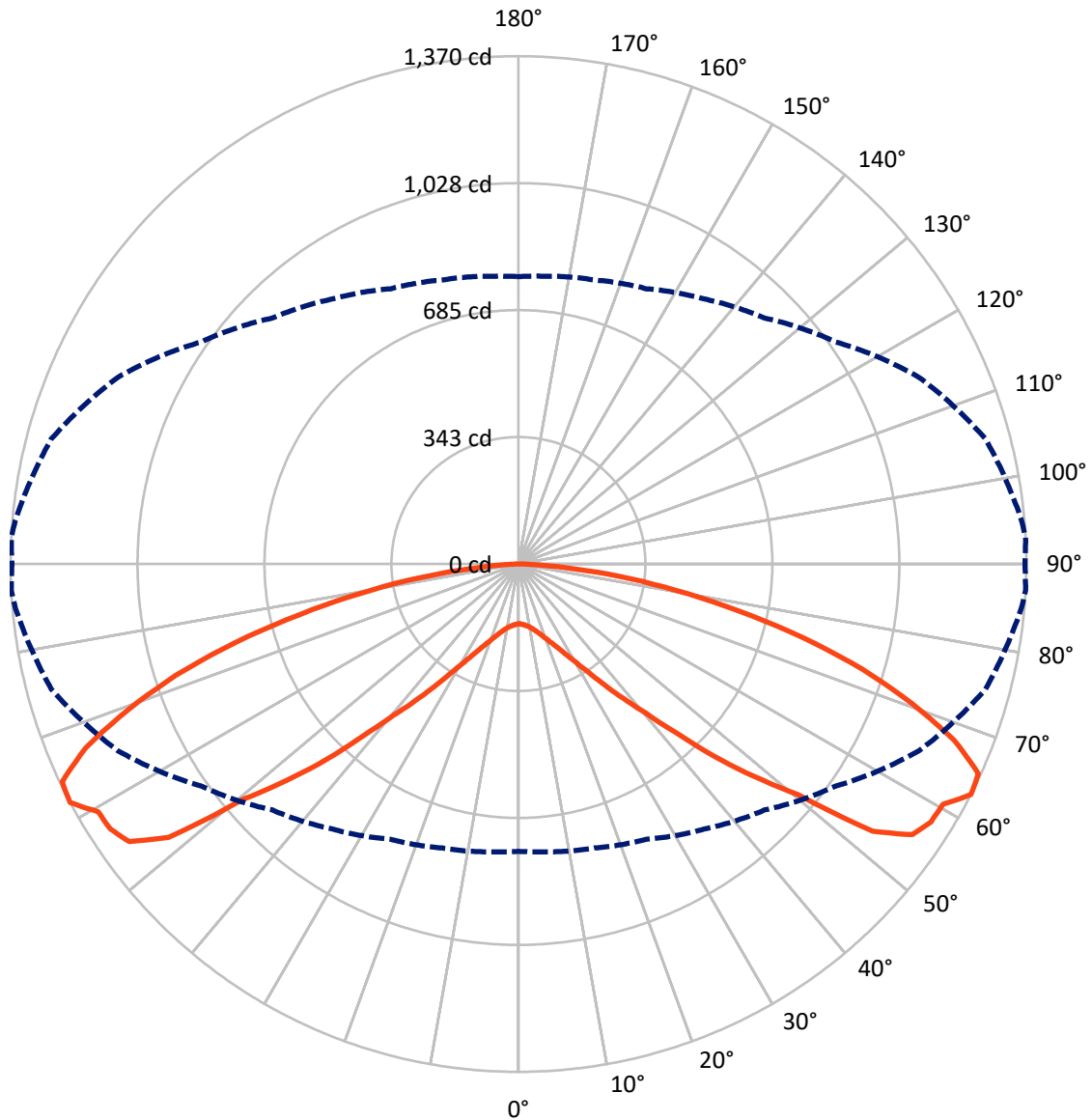
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 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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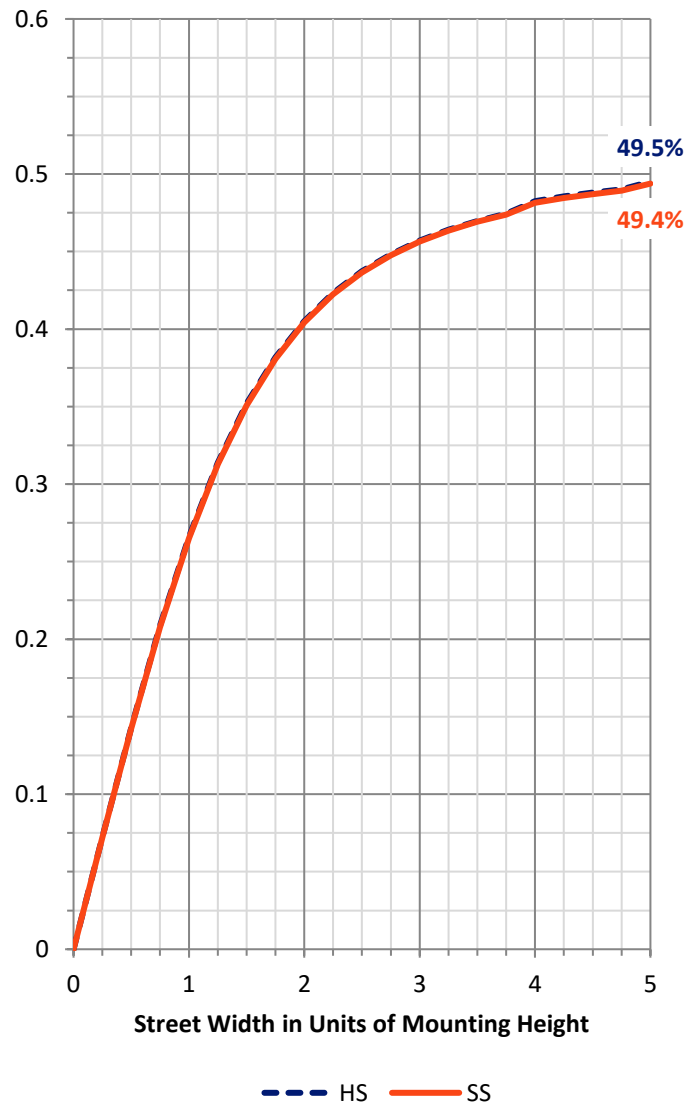
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1761.5   | 0.0    | 1761.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1761.5   | 0.0    | 1761.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3523.0   | 0.0    | 3523.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 16.1   | 0.5       |
| 10°-20°   | 55.6   | 1.6       |
| 20°-30°   | 122.8  | 3.5       |
| 30°-40°   | 247.3  | 7.0       |
| 40°-50°   | 471.7  | 13.4      |
| 50°-60°   | 807.6  | 22.9      |
| 60°-70°   | 978.4  | 27.8      |
| 70°-80°   | 677.9  | 19.2      |
| 80°-90°   | 145.7  | 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°    | 3523.0 | 100.0     |
| 0°-180°   | 3523.0 | 100.0     |



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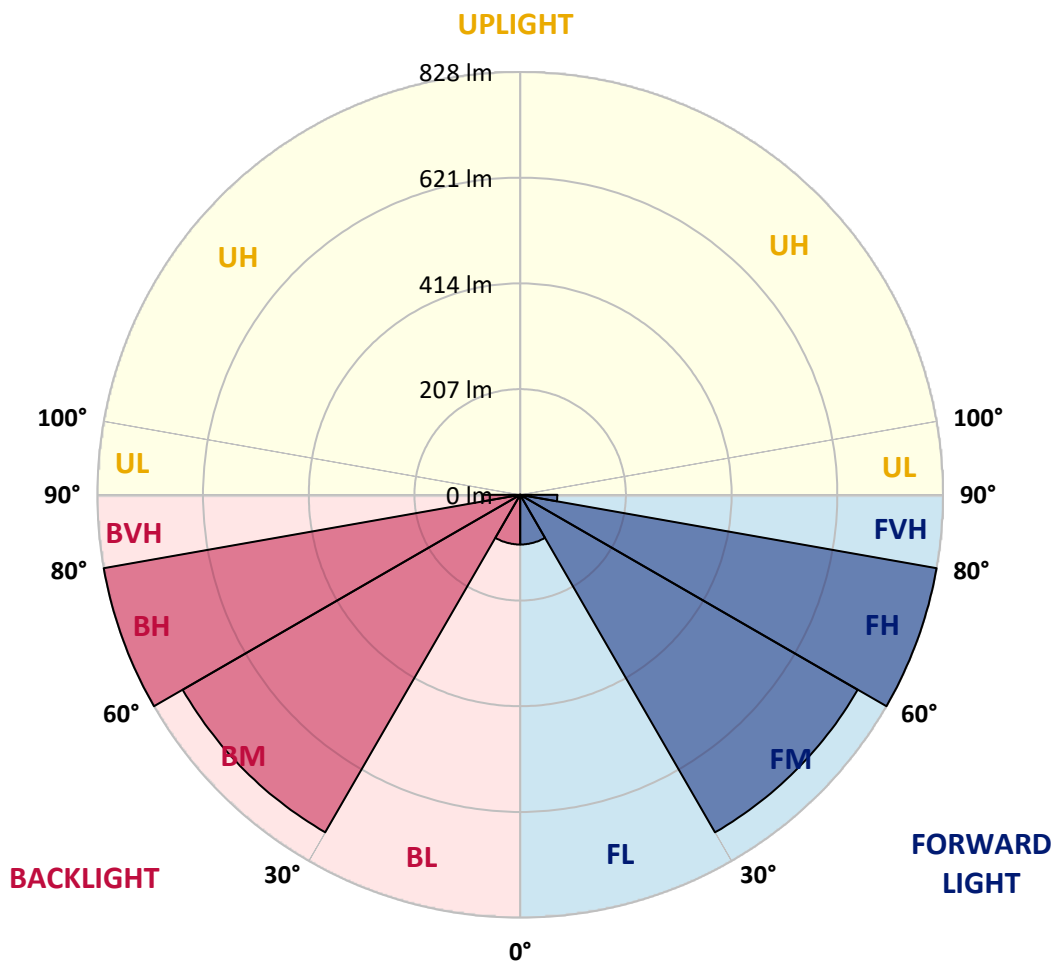
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 97.3   | 2.8       |                         |      |         |
| FM   | (30°-60°)   | 763.3  | 21.7      |                         |      |         |
| FH   | (60°-80°)   | 828.1  | 23.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 72.9   | 2.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 97.3   | 2.8       | B0/110                  |      |         |
| BM   | (30°-60°)   | 763.3  | 21.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 828.1  | 23.5      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 72.9   | 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°    | 160.7 | 160.7 | 160.7 | 160.7 | 160.7 | 160.7 | 160.7  | 160.7  | 160.7  | 160.7  | 160.7  |
| 2.5°  | 162.1 | 162.1 | 162.8 | 162.8 | 162.8 | 162.8 | 162.8  | 162.8  | 162.8  | 162.8  | 162.8  |
| 5°    | 165.0 | 165.0 | 165.0 | 165.7 | 165.7 | 165.7 | 165.7  | 165.7  | 165.0  | 165.0  | 165.0  |
| 7.5°  | 169.3 | 169.3 | 169.3 | 170.0 | 170.0 | 170.0 | 169.3  | 169.3  | 168.6  | 168.6  | 168.6  |
| 10°   | 175.1 | 175.1 | 175.8 | 175.8 | 175.1 | 175.1 | 174.4  | 173.6  | 174.4  | 173.6  | 173.6  |
| 12.5° | 183.0 | 184.4 | 183.7 | 183.7 | 182.3 | 182.3 | 181.6  | 181.6  | 181.6  | 180.8  | 180.8  |
| 15°   | 194.5 | 194.5 | 195.3 | 193.8 | 193.8 | 191.7 | 190.9  | 190.2  | 190.9  | 190.9  | 190.2  |
| 17.5° | 208.2 | 208.2 | 208.2 | 206.1 | 204.6 | 203.2 | 202.5  | 201.7  | 201.0  | 201.7  | 201.7  |
| 20°   | 229.1 | 227.7 | 224.8 | 223.4 | 219.8 | 218.3 | 216.9  | 216.2  | 215.4  | 215.4  | 215.4  |
| 22.5° | 250.7 | 249.3 | 245.7 | 242.8 | 239.9 | 236.3 | 234.9  | 232.0  | 231.3  | 232.7  | 232.0  |
| 25°   | 271.6 | 273.8 | 269.5 | 265.9 | 263.7 | 257.9 | 254.3  | 253.6  | 252.2  | 251.5  | 252.2  |
| 27.5° | 297.6 | 299.0 | 295.4 | 290.4 | 286.0 | 281.7 | 278.1  | 276.7  | 277.4  | 277.4  | 278.1  |
| 30°   | 326.4 | 329.3 | 323.5 | 320.6 | 314.1 | 308.4 | 305.5  | 306.9  | 308.4  | 310.5  | 309.8  |
| 32.5° | 359.5 | 359.5 | 356.6 | 351.6 | 344.4 | 339.4 | 337.9  | 340.1  | 346.6  | 349.4  | 348.7  |
| 35°   | 398.4 | 395.6 | 392.7 | 386.2 | 376.8 | 373.9 | 376.8  | 384.0  | 393.4  | 398.4  | 401.3  |
| 37.5° | 438.8 | 433.0 | 428.7 | 421.5 | 417.2 | 415.7 | 422.2  | 435.9  | 446.0  | 455.4  | 459.7  |
| 40°   | 473.4 | 473.4 | 467.6 | 459.7 | 455.4 | 461.8 | 471.9  | 491.4  | 510.8  | 520.9  | 528.1  |
| 42.5° | 508.0 | 512.3 | 505.8 | 499.3 | 499.3 | 508.0 | 527.4  | 557.7  | 594.4  | 616.0  | 619.6  |
| 45°   | 544.0 | 551.9 | 543.3 | 538.9 | 543.3 | 560.6 | 597.3  | 655.7  | 710.4  | 745.7  | 740.0  |
| 47.5° | 581.4 | 588.7 | 580.7 | 578.6 | 588.7 | 619.6 | 675.8  | 750.8  | 805.5  | 842.3  | 856.7  |
| 50°   | 627.6 | 622.5 | 619.6 | 618.9 | 639.8 | 685.9 | 758.7  | 839.4  | 927.3  | 960.4  | 978.4  |
| 52.5° | 666.5 | 657.8 | 656.4 | 661.4 | 696.0 | 751.5 | 842.3  | 990.7  | 1112.5 | 1194.6 | 1197.5 |
| 55°   | 700.3 | 691.0 | 696.0 | 708.3 | 755.1 | 832.2 | 946.7  | 1120.4 | 1223.4 | 1284.7 | 1289.7 |
| 57.5° | 729.1 | 724.1 | 732.8 | 749.3 | 809.8 | 902.1 | 1030.3 | 1173.7 | 1258.7 | 1307.7 | 1312.8 |
| 60°   | 755.1 | 754.4 | 763.7 | 791.8 | 859.6 | 943.1 | 1049.1 | 1177.3 | 1265.9 | 1309.9 | 1316.4 |
| 62.5° | 775.3 | 779.6 | 793.3 | 819.2 | 873.2 | 938.8 | 1044.7 | 1192.4 | 1304.8 | 1362.5 | 1370.4 |
| 65°   | 792.6 | 796.9 | 810.6 | 819.2 | 867.5 | 930.2 | 1068.5 | 1202.5 | 1299.1 | 1358.9 | 1363.9 |
| 67.5° | 801.9 | 807.0 | 804.8 | 806.2 | 843.7 | 892.7 | 1012.3 | 1127.6 | 1206.8 | 1261.6 | 1268.1 |
| 70°   | 800.5 | 796.2 | 778.9 | 760.9 | 768.8 | 803.4 | 911.4  | 1008.0 | 1080.0 | 1123.3 | 1125.4 |
| 72.5° | 770.2 | 763.0 | 721.9 | 680.2 | 667.9 | 691.0 | 785.3  | 858.1  | 919.4  | 959.0  | 971.2  |
| 75°   | 701.8 | 687.4 | 627.6 | 573.5 | 546.1 | 563.4 | 636.2  | 699.6  | 745.0  | 783.9  | 791.8  |
| 77.5° | 577.1 | 568.5 | 508.7 | 449.6 | 419.3 | 430.9 | 488.5  | 526.0  | 575.0  | 615.3  | 605.2  |
| 80°   | 420.1 | 418.6 | 370.3 | 317.7 | 296.1 | 301.2 | 332.2  | 368.9  | 399.9  | 430.1  | 431.6  |
| 82.5° | 274.5 | 270.2 | 237.8 | 199.6 | 177.2 | 180.1 | 199.6  | 219.0  | 248.6  | 268.0  | 273.8  |
| 85°   | 136.2 | 134.0 | 119.6 | 95.8  | 83.6  | 83.6  | 92.9   | 104.5  | 118.9  | 127.5  | 126.8  |
| 87.5° | 37.5  | 33.9  | 33.1  | 24.5  | 20.2  | 21.6  | 21.6   | 23.8   | 30.3   | 32.4   | 34.6   |
| 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°    | 160.7  |
| 2.5°  | 162.8  |
| 5°    | 165.0  |
| 7.5°  | 168.6  |
| 10°   | 174.4  |
| 12.5° | 180.8  |
| 15°   | 190.2  |
| 17.5° | 201.0  |
| 20°   | 215.4  |
| 22.5° | 233.4  |
| 25°   | 252.2  |
| 27.5° | 277.4  |
| 30°   | 310.5  |
| 32.5° | 349.4  |
| 35°   | 399.9  |
| 37.5° | 456.1  |
| 40°   | 525.2  |
| 42.5° | 616.0  |
| 45°   | 746.4  |
| 47.5° | 849.5  |
| 50°   | 969.1  |
| 52.5° | 1201.8 |
| 55°   | 1291.1 |
| 57.5° | 1314.2 |
| 60°   | 1317.1 |
| 62.5° | 1366.8 |
| 65°   | 1369.7 |
| 67.5° | 1263.0 |
| 70°   | 1129.0 |
| 72.5° | 969.8  |
| 75°   | 797.6  |
| 77.5° | 616.0  |
| 80°   | 430.9  |
| 82.5° | 269.5  |
| 85°   | 126.1  |
| 87.5° | 31.7   |
| 90°   | 0.0    |

(END OF REPORT)