

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: P197975

Luminaire Tested: **TT-C3-LED-E1-RW-MS/DIM-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34692)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-C3-LED-E1-RW-MS/DIM-7050  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
RECTANGULAR DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR  
Light Source: (168) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4501 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 45  
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



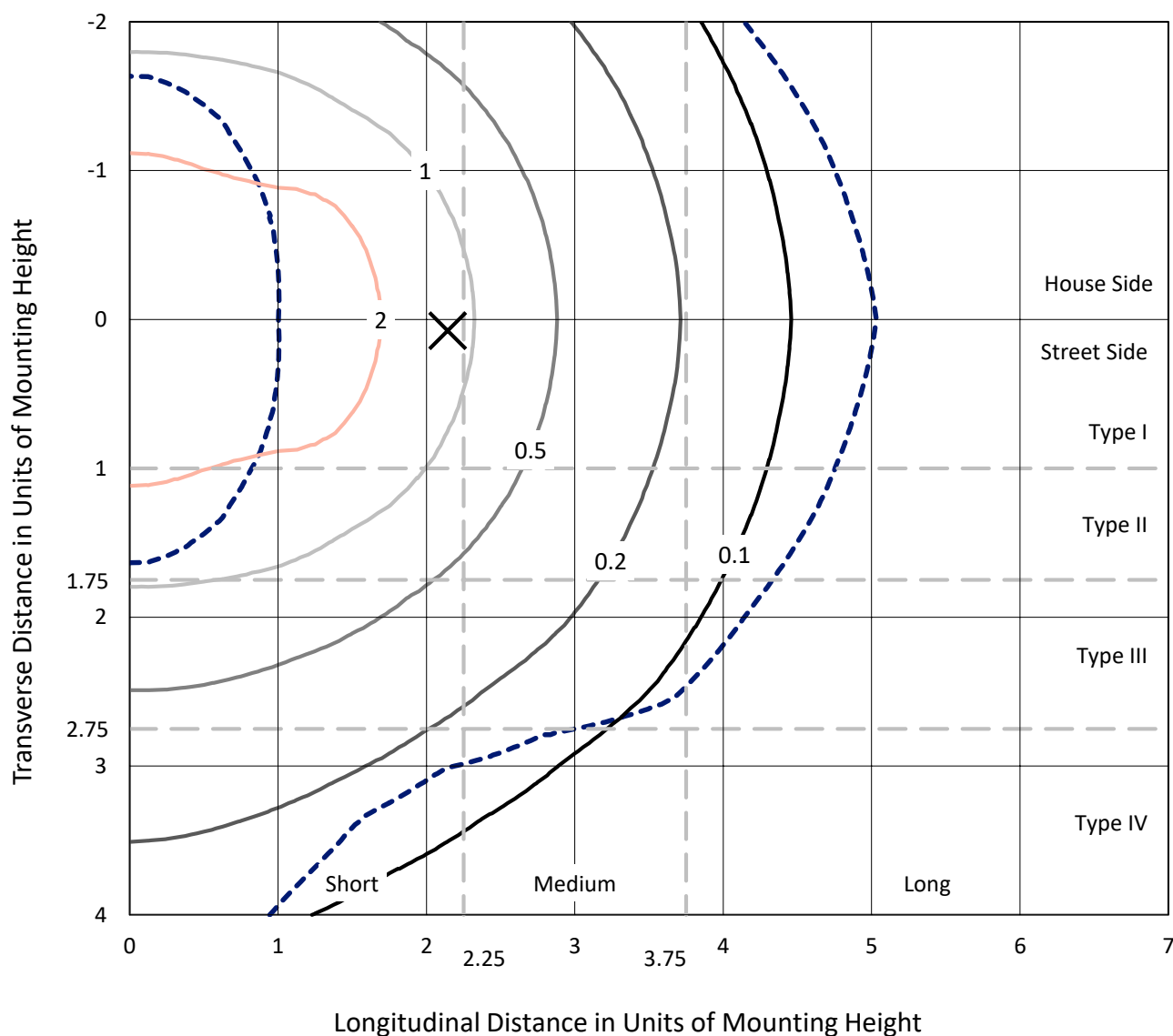
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

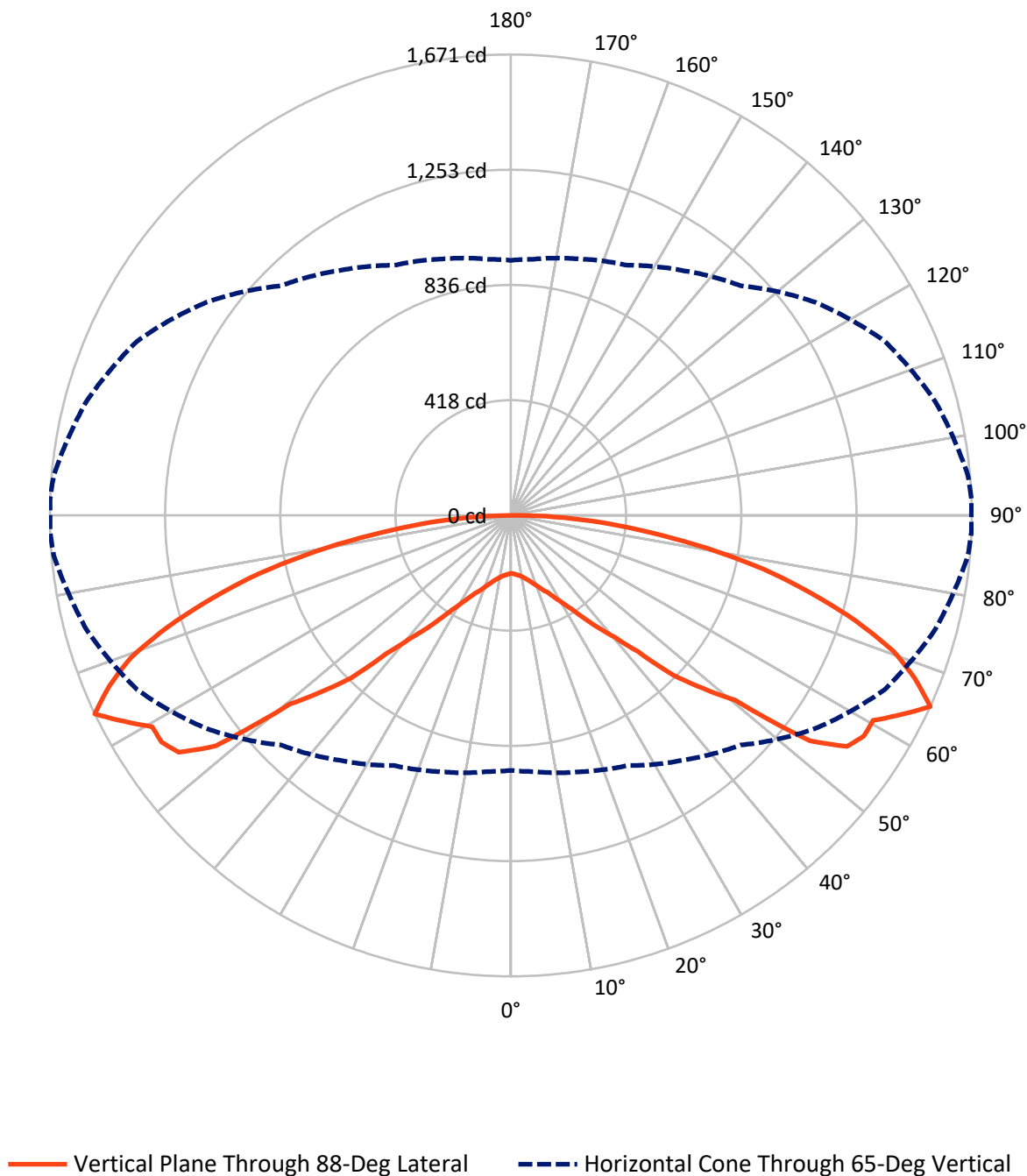


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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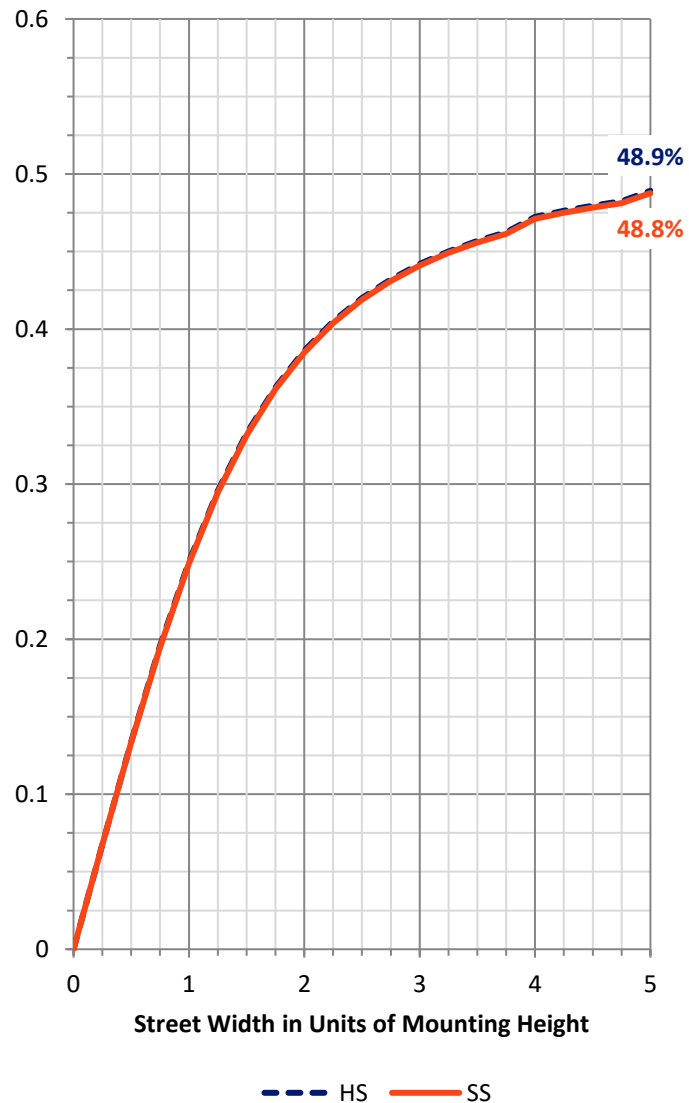
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2250.5   | 0.0    | 2250.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2250.5   | 0.0    | 2250.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4501.0   | 0.0    | 4501.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 21.0   | 0.5       |
| 10°-20°   | 71.7   | 1.6       |
| 20°-30°   | 152.4  | 3.4       |
| 30°-40°   | 291.1  | 6.5       |
| 40°-50°   | 535.1  | 11.9      |
| 50°-60°   | 926.8  | 20.6      |
| 60°-70°   | 1205.8 | 26.8      |
| 70°-80°   | 988.2  | 22.0      |
| 80°-90°   | 308.9  | 6.9       |
| 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°    | 4501.0 | 100.0     |
| 0°-180°   | 4501.0 | 100.0     |

**Coefficient of Utilization**



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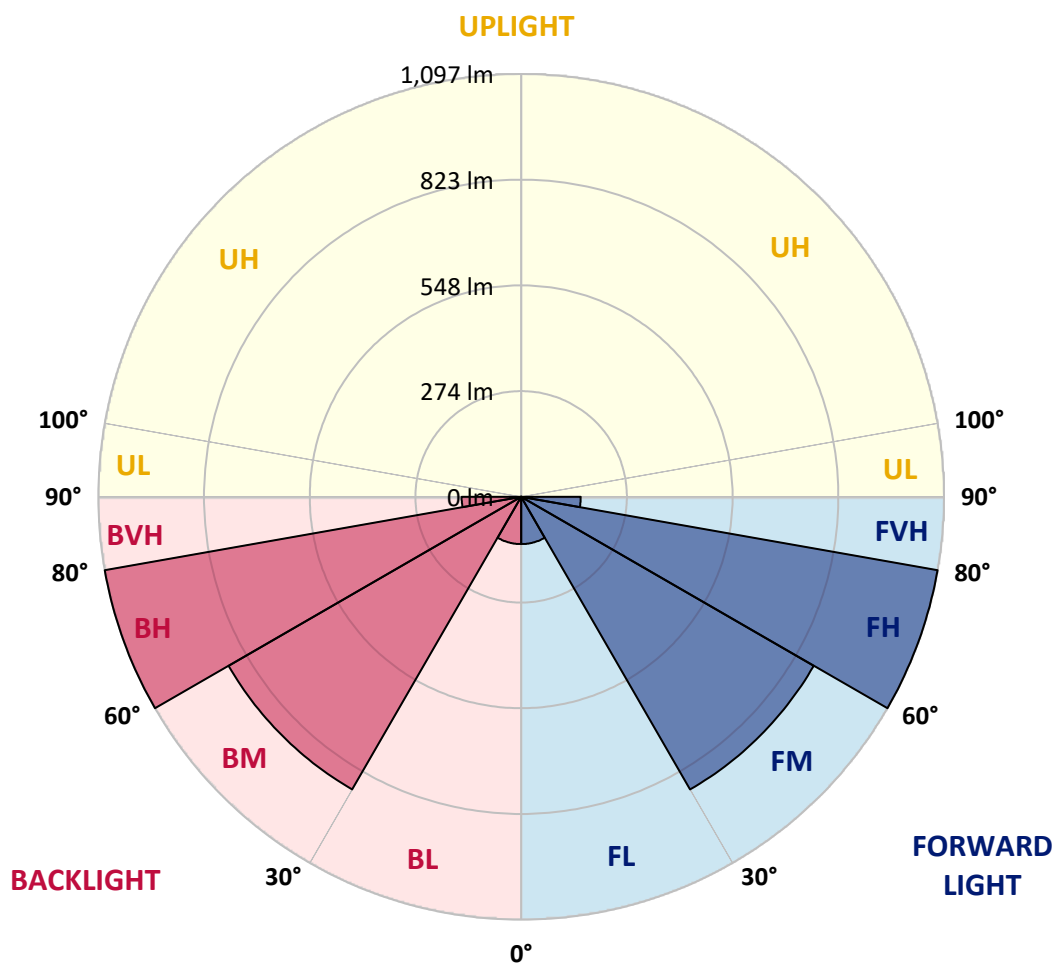
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 122.5  | 2.7       |                         |      |         |
| FM   | (30°-60°)   | 876.5  | 19.5      |                         |      |         |
| FH   | (60°-80°)   | 1097.0 | 24.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 154.5  | 3.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 122.5  | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 876.5  | 19.5      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1097.0 | 24.4      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 154.5  | 3.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 88°    |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 210.3 | 210.3 | 210.3 | 210.3  | 210.3  | 210.3  | 210.3  | 210.3  | 210.3  | 210.3  | 210.3  |
| 2.5°  | 212.2 | 212.2 | 212.2 | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  |
| 5°    | 216.0 | 216.0 | 216.0 | 216.9  | 216.9  | 216.9  | 216.9  | 216.9  | 216.0  | 216.0  | 216.0  |
| 7.5°  | 220.7 | 220.7 | 221.7 | 221.7  | 221.7  | 221.7  | 220.7  | 220.7  | 219.8  | 219.8  | 219.8  |
| 10°   | 228.3 | 228.3 | 229.3 | 229.3  | 228.3  | 227.4  | 227.4  | 227.4  | 226.4  | 226.4  | 226.4  |
| 12.5° | 238.7 | 238.7 | 239.7 | 238.7  | 237.8  | 236.8  | 236.8  | 235.9  | 234.9  | 234.9  | 234.9  |
| 15°   | 252.9 | 252.9 | 252.0 | 250.1  | 248.2  | 248.2  | 245.4  | 245.4  | 245.4  | 245.4  | 244.4  |
| 17.5° | 271.9 | 270.9 | 267.2 | 266.2  | 263.4  | 261.5  | 259.6  | 258.6  | 257.7  | 257.7  | 258.6  |
| 20°   | 292.7 | 290.8 | 286.1 | 286.1  | 281.4  | 278.5  | 276.6  | 274.7  | 274.7  | 273.8  | 272.8  |
| 22.5° | 317.4 | 315.5 | 309.8 | 307.9  | 303.2  | 298.4  | 296.5  | 291.8  | 290.8  | 290.8  | 291.8  |
| 25°   | 342.0 | 342.9 | 338.2 | 334.4  | 327.8  | 323.1  | 316.4  | 313.6  | 310.7  | 310.7  | 308.8  |
| 27.5° | 370.4 | 371.4 | 365.7 | 360.9  | 355.3  | 345.8  | 342.0  | 338.2  | 335.4  | 337.3  | 335.4  |
| 30°   | 400.7 | 402.6 | 397.9 | 392.2  | 383.7  | 374.2  | 369.5  | 368.5  | 365.7  | 367.6  | 366.6  |
| 32.5° | 435.8 | 434.8 | 432.0 | 426.3  | 414.9  | 407.4  | 403.6  | 402.6  | 404.5  | 405.5  | 404.5  |
| 35°   | 476.5 | 472.7 | 469.9 | 461.4  | 450.9  | 445.3  | 441.5  | 445.3  | 453.8  | 459.5  | 457.6  |
| 37.5° | 519.2 | 513.5 | 510.6 | 501.2  | 491.7  | 488.8  | 493.6  | 501.2  | 509.7  | 517.3  | 517.3  |
| 40°   | 554.2 | 556.1 | 549.5 | 540.9  | 533.4  | 536.2  | 544.7  | 558.0  | 575.0  | 582.6  | 581.7  |
| 42.5° | 589.3 | 594.9 | 588.3 | 579.8  | 580.7  | 589.3  | 601.6  | 626.2  | 664.1  | 675.5  | 674.5  |
| 45°   | 620.5 | 632.8 | 627.2 | 621.5  | 630.0  | 644.2  | 677.4  | 732.3  | 784.4  | 823.3  | 826.1  |
| 47.5° | 661.3 | 667.9 | 665.0 | 665.0  | 678.3  | 711.5  | 761.7  | 838.4  | 893.4  | 930.3  | 936.0  |
| 50°   | 707.7 | 701.0 | 702.0 | 710.5  | 743.7  | 792.9  | 861.2  | 933.2  | 1031.7 | 1048.7 | 1053.5 |
| 52.5° | 746.5 | 735.2 | 741.8 | 757.9  | 806.2  | 868.7  | 954.0  | 1101.8 | 1227.8 | 1341.5 | 1357.6 |
| 55°   | 786.3 | 773.0 | 786.3 | 811.9  | 882.9  | 970.1  | 1095.1 | 1266.6 | 1399.3 | 1470.3 | 1478.8 |
| 57.5° | 816.6 | 814.7 | 833.7 | 870.6  | 957.8  | 1074.3 | 1215.5 | 1362.3 | 1451.4 | 1501.6 | 1509.1 |
| 60°   | 854.5 | 856.4 | 878.2 | 927.5  | 1031.7 | 1143.5 | 1248.6 | 1383.1 | 1471.3 | 1500.6 | 1509.1 |
| 62.5° | 890.5 | 898.1 | 923.7 | 979.6  | 1070.5 | 1155.8 | 1257.1 | 1420.1 | 1531.9 | 1595.4 | 1589.7 |
| 65°   | 924.6 | 932.2 | 962.5 | 1000.4 | 1083.8 | 1177.6 | 1347.1 | 1494.9 | 1593.5 | 1663.6 | 1671.1 |
| 67.5° | 958.7 | 968.2 | 980.5 | 1010.8 | 1091.4 | 1179.5 | 1326.3 | 1450.4 | 1530.0 | 1578.3 | 1581.1 |
| 70°   | 988.1 | 987.2 | 984.3 | 992.8  | 1043.0 | 1111.3 | 1247.7 | 1346.2 | 1421.0 | 1460.8 | 1470.3 |
| 72.5° | 991.9 | 989.0 | 955.9 | 931.3  | 947.4  | 1001.4 | 1132.1 | 1210.7 | 1267.6 | 1300.7 | 1307.4 |
| 75°   | 960.6 | 944.5 | 879.2 | 826.1  | 823.3  | 877.3  | 987.2  | 1044.0 | 1078.1 | 1120.7 | 1123.6 |
| 77.5° | 859.3 | 841.3 | 768.3 | 696.3  | 696.3  | 731.4  | 823.3  | 853.6  | 896.2  | 928.4  | 936.9  |
| 80°   | 692.5 | 690.6 | 614.8 | 558.0  | 537.2  | 566.5  | 641.4  | 652.7  | 684.9  | 712.4  | 720.9  |
| 82.5° | 501.2 | 486.9 | 445.3 | 396.9  | 379.9  | 398.8  | 450.0  | 461.4  | 473.7  | 498.3  | 508.7  |
| 85°   | 303.2 | 304.1 | 275.7 | 248.2  | 226.4  | 233.1  | 272.8  | 288.9  | 305.1  | 321.2  | 326.8  |
| 87.5° | 108.9 | 126.0 | 98.5  | 87.2   | 75.8   | 72.0   | 84.3   | 104.2  | 122.2  | 144.9  | 157.3  |
| 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°    | 210.3  |
| 2.5°  | 212.2  |
| 5°    | 215.1  |
| 7.5°  | 219.8  |
| 10°   | 226.4  |
| 12.5° | 234.9  |
| 15°   | 244.4  |
| 17.5° | 256.7  |
| 20°   | 272.8  |
| 22.5° | 289.9  |
| 25°   | 309.8  |
| 27.5° | 337.3  |
| 30°   | 365.7  |
| 32.5° | 404.5  |
| 35°   | 462.3  |
| 37.5° | 517.3  |
| 40°   | 584.5  |
| 42.5° | 678.3  |
| 45°   | 829.9  |
| 47.5° | 935.0  |
| 50°   | 1062.0 |
| 52.5° | 1344.3 |
| 55°   | 1481.7 |
| 57.5° | 1511.0 |
| 60°   | 1509.1 |
| 62.5° | 1604.8 |
| 65°   | 1670.2 |
| 67.5° | 1583.0 |
| 70°   | 1474.1 |
| 72.5° | 1304.5 |
| 75°   | 1130.2 |
| 77.5° | 941.7  |
| 80°   | 724.7  |
| 82.5° | 504.9  |
| 85°   | 340.1  |
| 87.5° | 140.2  |
| 90°   | 0.0    |

(END OF REPORT)