

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: P198005

Luminaire Tested: **TT-C5-LED-E1-RW-PM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34691)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-RW-PM-8030
Description: TOPTIER LED AREA/SITE LUMINAIRE
RECTANGULAR DISTRIBUTION
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5881.5 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

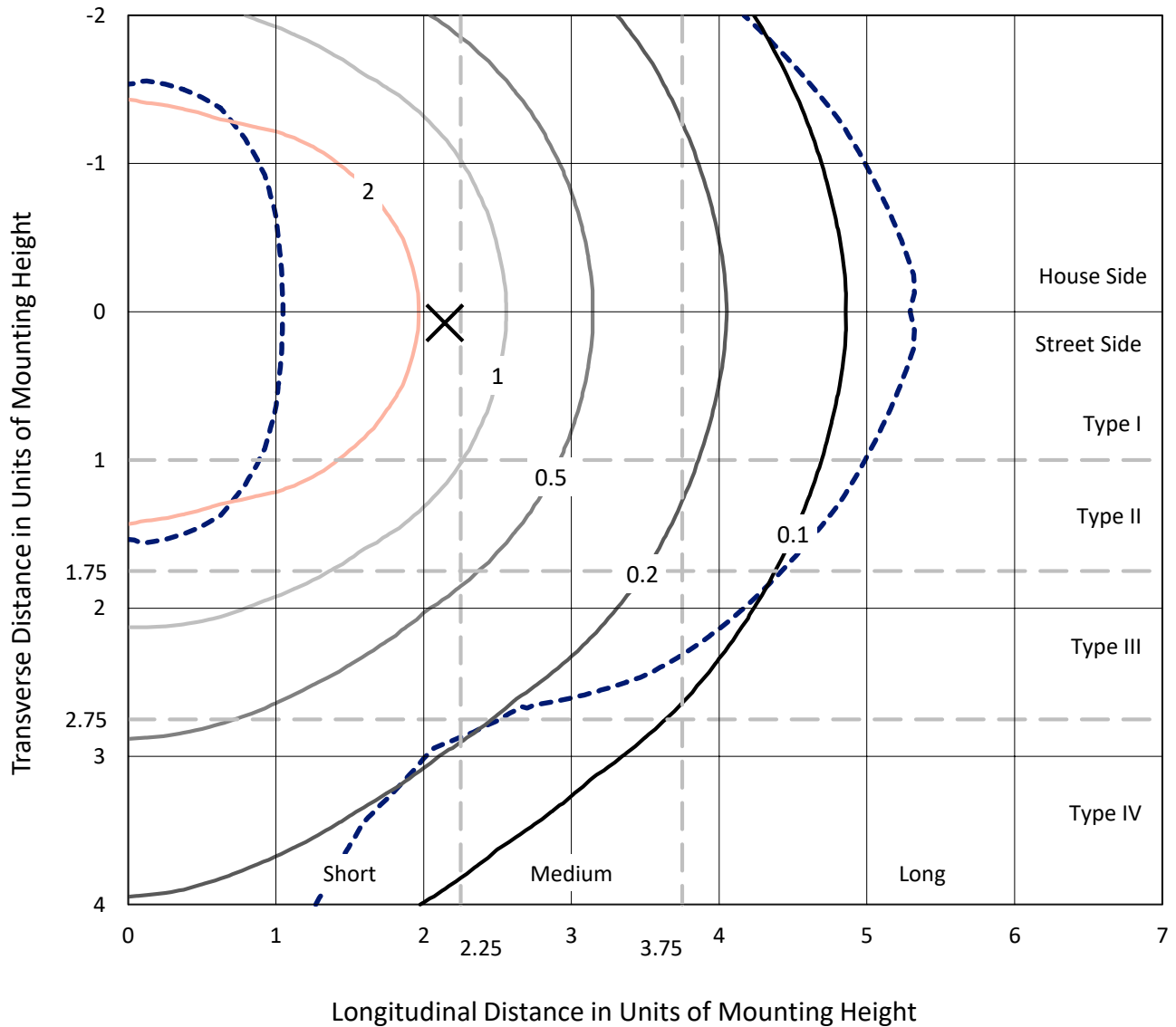
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

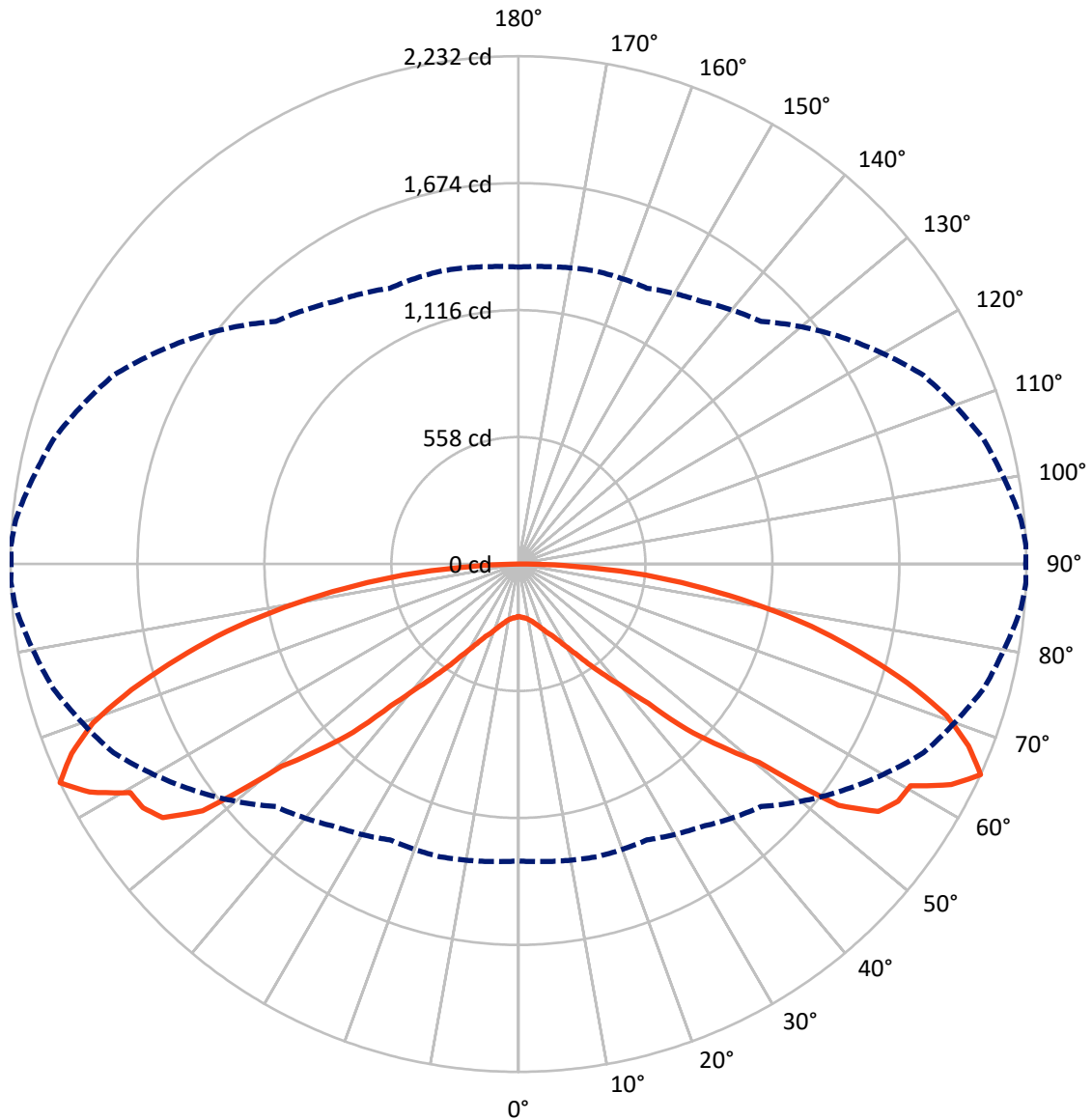
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 88-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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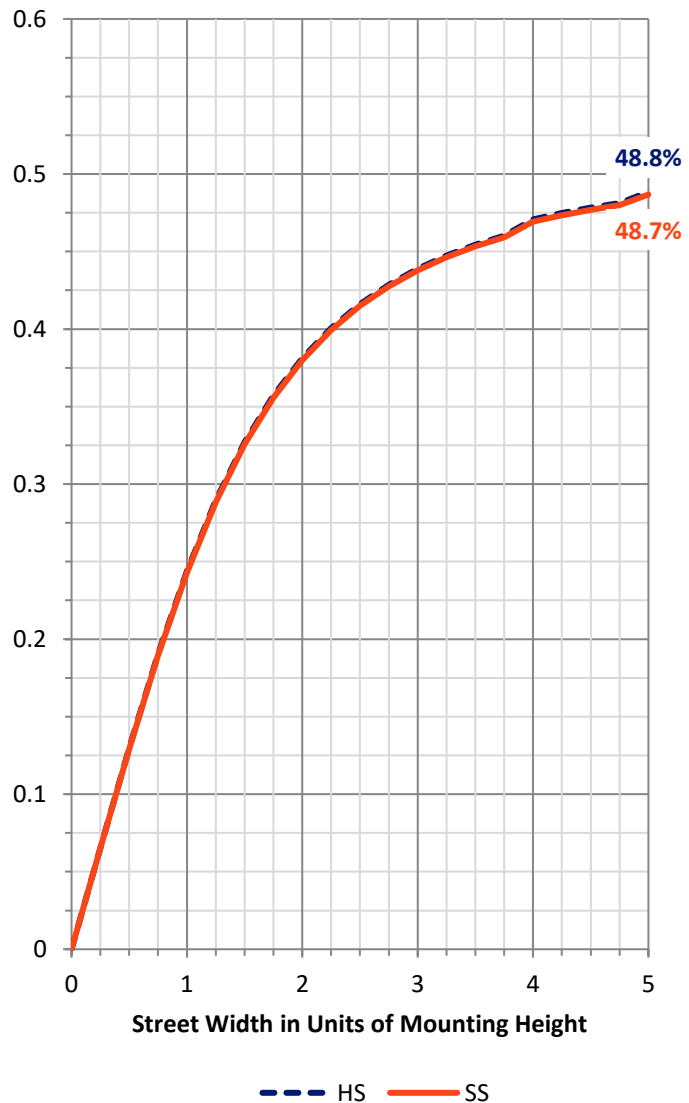
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2940.8 | 0.0 | 2940.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2940.8 | 0.0 | 2940.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5881.5 | 0.0 | 5881.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.1 | 0.4 |
| 10°-20° | 80.1 | 1.4 |
| 20°-30° | 176.9 | 3.0 |
| 30°-40° | 352.5 | 6.0 |
| 40°-50° | 674.7 | 11.5 |
| 50°-60° | 1207.7 | 20.5 |
| 60°-70° | 1600.3 | 27.2 |
| 70°-80° | 1335.5 | 22.7 |
| 80°-90° | 430.9 | 7.3 |
| 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° | 5881.5 | 100.0 |
| 0°-180° | 5881.5 | 100.0 |



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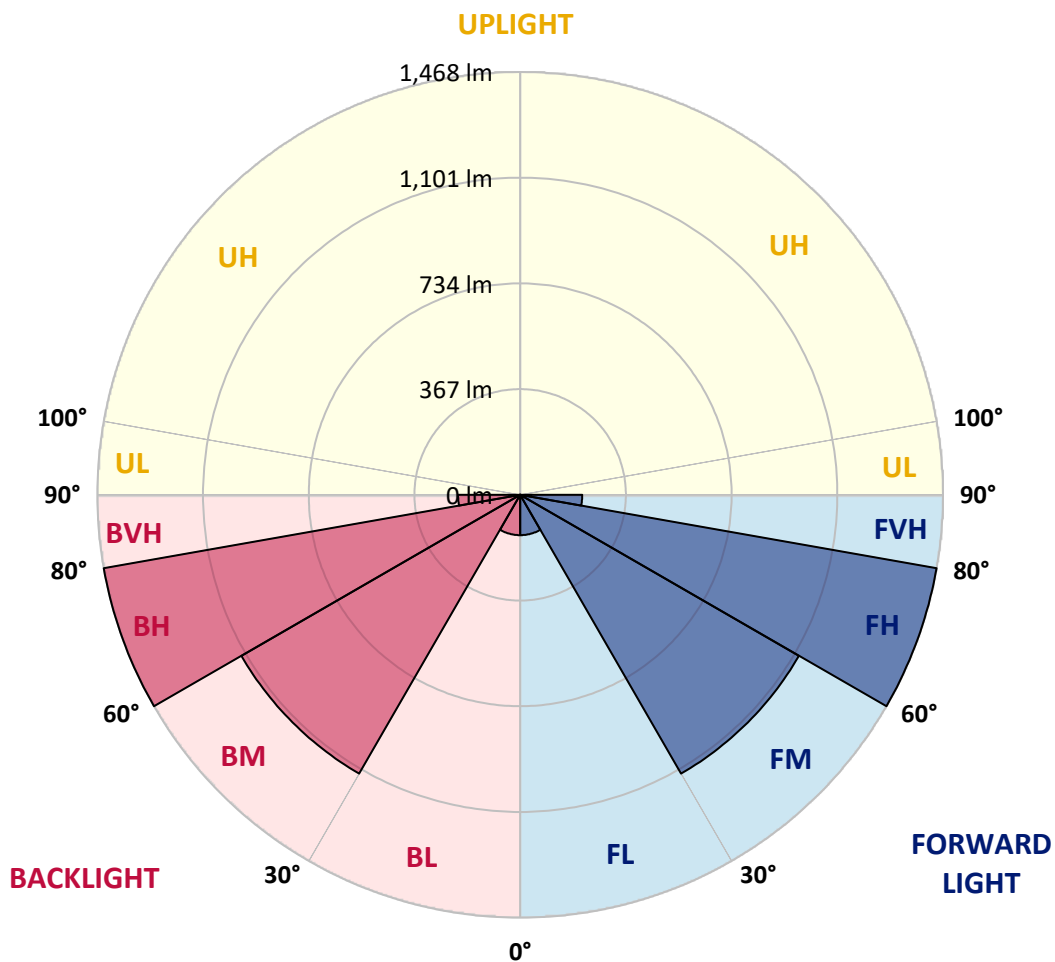
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 140.0 | 2.4 | | | |
| FM (30°-60°) | 1117.4 | 19.0 | | | |
| FH (60°-80°) | 1467.9 | 25.0 | | | G1/1800 |
| FVH (80°-90°) | 215.4 | 3.7 | | | G2/225 |
| BL (0°-30°) | 140.0 | 2.4 | B1/500 | | |
| BM (30°-60°) | 1117.4 | 19.0 | B2/2500 | | |
| BH (60°-80°) | 1467.9 | 25.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 215.4 | 3.7 | | | 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° | 230.3 | 230.3 | 230.3 | 230.3 | 230.3 | 230.3 | 230.3 | 230.3 | 230.3 | 230.3 | 230.3 |
| 2.5° | 232.6 | 232.6 | 232.6 | 232.6 | 233.8 | 233.8 | 233.8 | 233.8 | 233.8 | 233.8 | 233.8 |
| 5° | 236.1 | 236.1 | 237.2 | 237.2 | 238.4 | 238.4 | 238.4 | 238.4 | 237.2 | 237.2 | 237.2 |
| 7.5° | 241.9 | 243.0 | 244.2 | 244.2 | 244.2 | 243.0 | 241.9 | 241.9 | 240.7 | 240.7 | 240.7 |
| 10° | 252.3 | 252.3 | 253.4 | 253.4 | 252.3 | 251.1 | 250.0 | 248.8 | 248.8 | 248.8 | 247.7 |
| 12.5° | 265.0 | 265.0 | 266.2 | 265.0 | 262.7 | 261.5 | 259.2 | 258.1 | 258.1 | 256.9 | 256.9 |
| 15° | 282.4 | 284.7 | 284.7 | 281.2 | 277.7 | 274.3 | 273.1 | 270.8 | 270.8 | 270.8 | 270.8 |
| 17.5° | 309.0 | 307.8 | 303.2 | 299.7 | 297.4 | 291.6 | 289.3 | 288.2 | 285.8 | 285.8 | 285.8 |
| 20° | 339.1 | 336.8 | 331.0 | 326.4 | 321.7 | 314.8 | 310.2 | 307.8 | 306.7 | 305.5 | 305.5 |
| 22.5° | 372.6 | 369.2 | 361.1 | 357.6 | 348.3 | 341.4 | 335.6 | 331.0 | 327.5 | 326.4 | 328.7 |
| 25° | 407.4 | 407.4 | 400.4 | 391.2 | 381.9 | 371.5 | 363.4 | 357.6 | 353.0 | 351.8 | 350.7 |
| 27.5° | 444.4 | 446.7 | 437.5 | 428.2 | 417.8 | 403.9 | 395.8 | 387.7 | 386.5 | 385.4 | 384.2 |
| 30° | 483.7 | 488.4 | 479.1 | 469.9 | 456.0 | 442.1 | 431.7 | 428.2 | 424.7 | 427.0 | 427.0 |
| 32.5° | 532.4 | 534.7 | 524.2 | 517.3 | 498.8 | 484.9 | 475.6 | 473.3 | 474.5 | 473.3 | 476.8 |
| 35° | 589.1 | 585.6 | 577.5 | 563.6 | 547.4 | 534.7 | 527.7 | 532.4 | 545.1 | 549.7 | 547.4 |
| 37.5° | 651.6 | 638.8 | 634.2 | 616.8 | 601.8 | 591.4 | 593.7 | 605.3 | 615.7 | 623.8 | 621.5 |
| 40° | 697.8 | 700.2 | 687.4 | 671.2 | 657.3 | 655.0 | 667.8 | 682.8 | 702.5 | 709.4 | 711.7 |
| 42.5° | 745.3 | 759.2 | 744.1 | 727.9 | 721.0 | 725.6 | 744.1 | 774.2 | 818.2 | 841.3 | 837.9 |
| 45° | 799.7 | 814.7 | 798.5 | 785.8 | 784.6 | 802.0 | 842.5 | 921.2 | 986.0 | 1032.3 | 1036.9 |
| 47.5° | 856.4 | 868.0 | 852.9 | 844.8 | 856.4 | 890.0 | 959.4 | 1064.7 | 1134.1 | 1188.5 | 1197.8 |
| 50° | 928.1 | 923.5 | 911.9 | 910.8 | 936.2 | 997.6 | 1091.3 | 1197.8 | 1322.8 | 1358.7 | 1370.2 |
| 52.5° | 998.7 | 981.4 | 979.1 | 984.8 | 1030.0 | 1099.4 | 1224.4 | 1433.9 | 1617.9 | 1747.5 | 1761.4 |
| 55° | 1064.7 | 1045.0 | 1049.7 | 1064.7 | 1128.4 | 1233.7 | 1407.3 | 1663.0 | 1823.9 | 1915.3 | 1919.9 |
| 57.5° | 1124.9 | 1113.3 | 1123.7 | 1144.6 | 1239.5 | 1374.9 | 1558.9 | 1769.5 | 1891.0 | 1955.8 | 1967.4 |
| 60° | 1186.2 | 1183.9 | 1196.6 | 1234.8 | 1336.7 | 1457.0 | 1610.9 | 1797.3 | 1918.8 | 1968.5 | 1980.1 |
| 62.5° | 1244.1 | 1252.2 | 1268.4 | 1305.4 | 1384.1 | 1477.9 | 1627.1 | 1855.1 | 2036.8 | 2115.5 | 2135.2 |
| 65° | 1305.4 | 1312.4 | 1332.0 | 1337.8 | 1408.4 | 1507.9 | 1737.1 | 1963.9 | 2116.7 | 2218.5 | 2232.4 |
| 67.5° | 1361.0 | 1370.2 | 1363.3 | 1358.7 | 1420.0 | 1507.9 | 1715.1 | 1914.1 | 2041.4 | 2119.0 | 2134.0 |
| 70° | 1414.2 | 1403.8 | 1376.0 | 1340.1 | 1357.5 | 1417.7 | 1607.5 | 1779.9 | 1908.4 | 1981.3 | 1996.3 |
| 72.5° | 1428.1 | 1414.2 | 1340.1 | 1258.0 | 1232.5 | 1277.6 | 1452.4 | 1605.2 | 1710.5 | 1778.7 | 1788.0 |
| 75° | 1392.2 | 1363.3 | 1238.3 | 1124.9 | 1076.3 | 1121.4 | 1267.2 | 1398.0 | 1472.1 | 1546.1 | 1551.9 |
| 77.5° | 1248.7 | 1230.2 | 1091.3 | 953.6 | 899.2 | 932.8 | 1054.3 | 1146.9 | 1232.5 | 1304.3 | 1318.1 |
| 80° | 1025.4 | 1009.2 | 886.5 | 774.2 | 701.3 | 724.5 | 813.6 | 887.6 | 969.8 | 1026.5 | 1043.9 |
| 82.5° | 754.5 | 752.2 | 664.3 | 559.0 | 508.0 | 505.7 | 572.9 | 645.8 | 708.3 | 762.6 | 774.2 |
| 85° | 474.5 | 474.5 | 414.3 | 350.7 | 297.4 | 298.6 | 339.1 | 392.3 | 471.0 | 505.7 | 509.2 |
| 87.5° | 160.9 | 152.8 | 142.3 | 115.7 | 92.6 | 83.3 | 89.1 | 101.8 | 155.1 | 192.1 | 199.1 |
| 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° | 230.3 |
| 2.5° | 233.8 |
| 5° | 237.2 |
| 7.5° | 240.7 |
| 10° | 247.7 |
| 12.5° | 258.1 |
| 15° | 269.6 |
| 17.5° | 285.8 |
| 20° | 305.5 |
| 22.5° | 327.5 |
| 25° | 350.7 |
| 27.5° | 385.4 |
| 30° | 425.9 |
| 32.5° | 475.6 |
| 35° | 548.6 |
| 37.5° | 623.8 |
| 40° | 717.5 |
| 42.5° | 847.1 |
| 45° | 1025.4 |
| 47.5° | 1197.8 |
| 50° | 1357.5 |
| 52.5° | 1732.5 |
| 55° | 1924.6 |
| 57.5° | 1966.2 |
| 60° | 1976.6 |
| 62.5° | 2124.8 |
| 65° | 2230.1 |
| 67.5° | 2132.9 |
| 70° | 1992.8 |
| 72.5° | 1781.1 |
| 75° | 1561.2 |
| 77.5° | 1318.1 |
| 80° | 1030.0 |
| 82.5° | 774.2 |
| 85° | 501.1 |
| 87.5° | 193.3 |
| 90° | 0.0 |

(END OF REPORT)