

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: P197734

Luminaire Tested: **TT-C3-LED-E1-5WQ-PM-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-5WQ-PM-LWR-LW
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5281.2 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

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

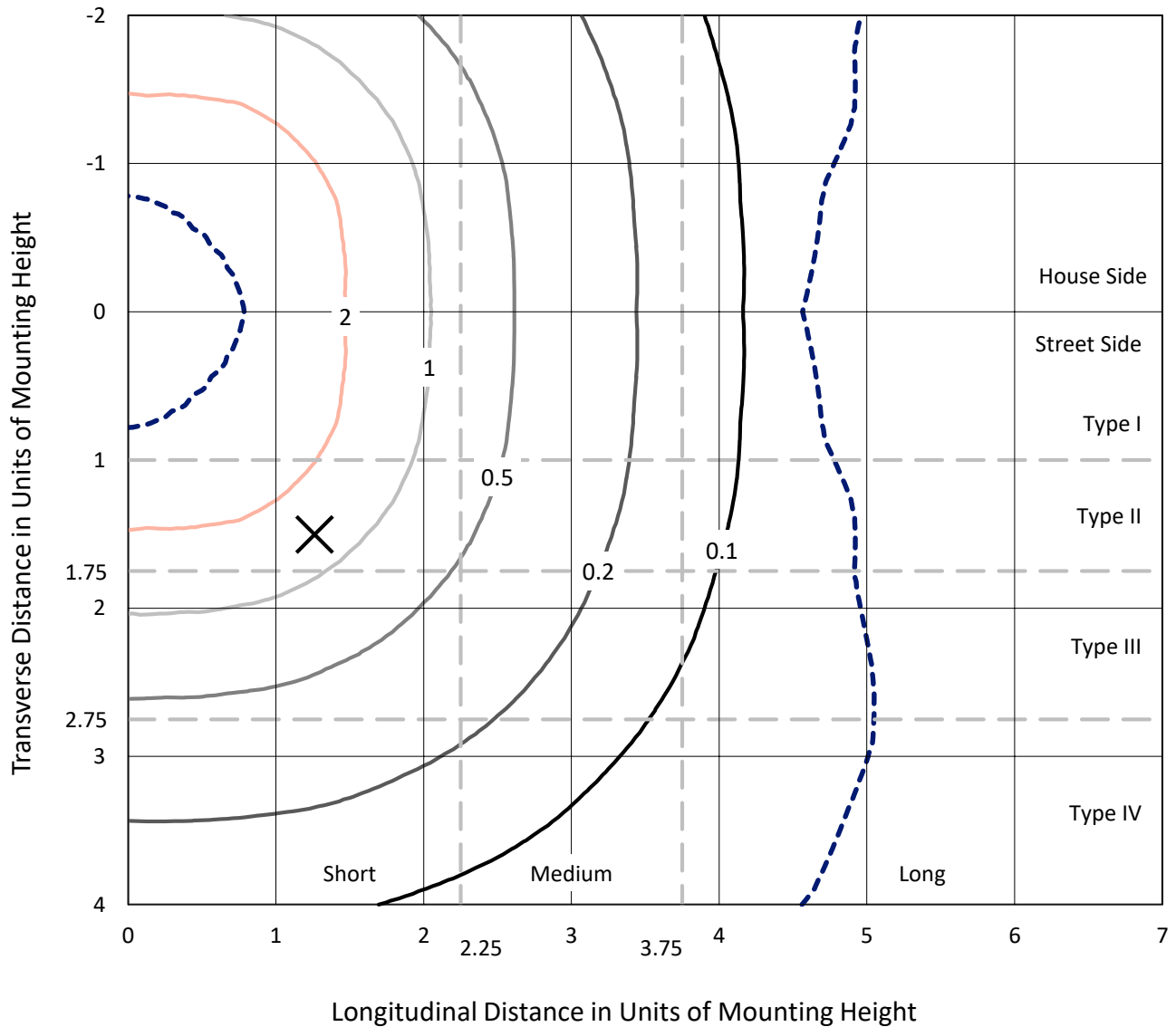


REPORT NUMBER: P197734

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Iso-Footcandle Lines of Horizontal Illumination

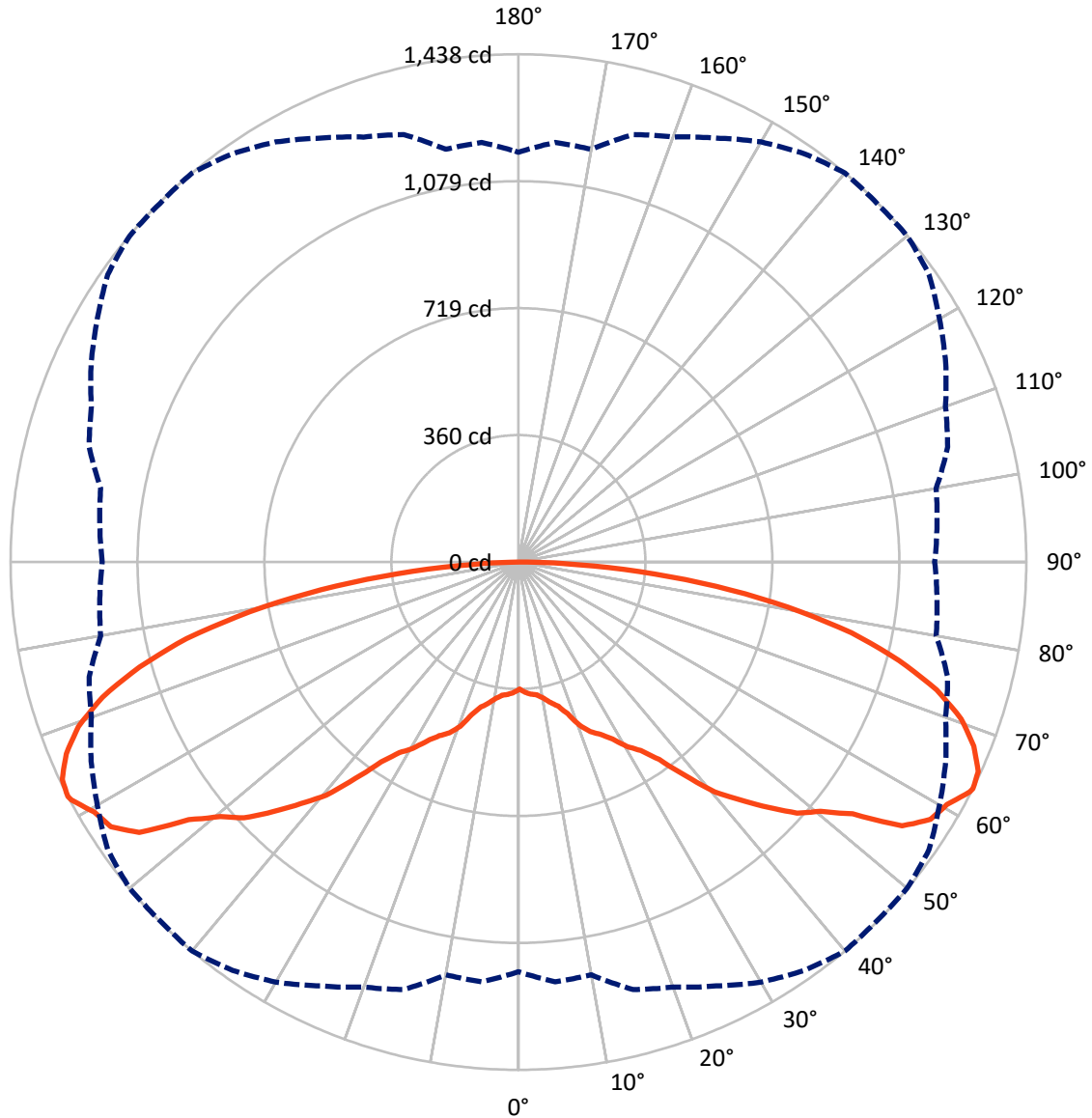
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197734
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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P197734

CATALOG NUMBER: TT-C3-LED-E1-5WQ-PM-LWR-LW

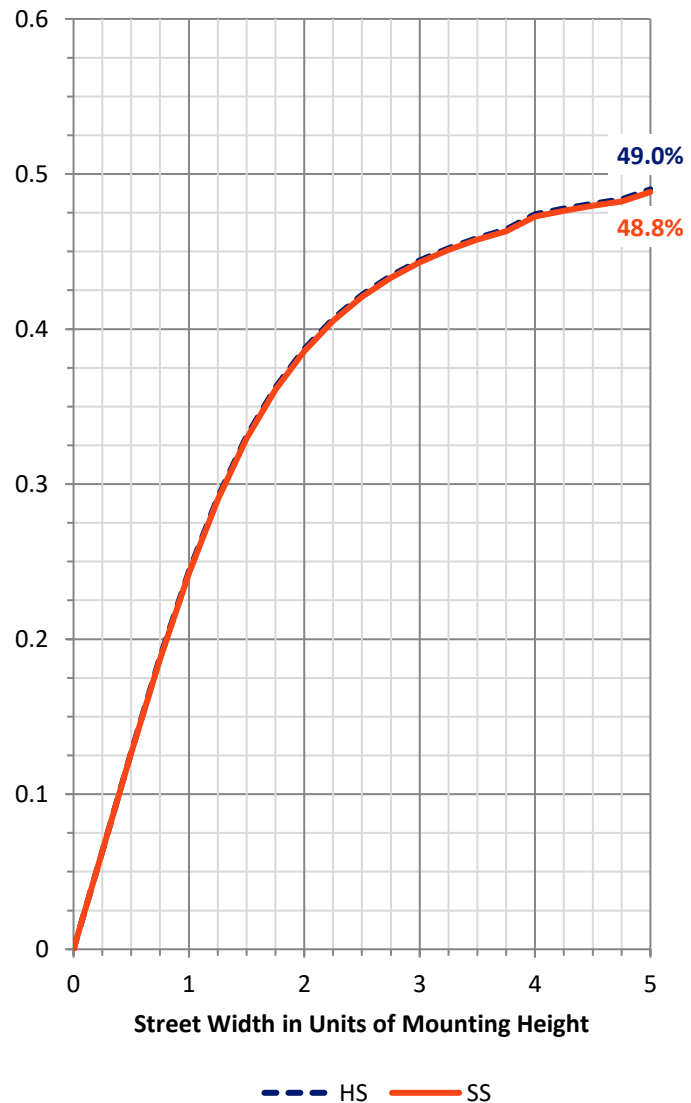
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2640.6 | 0.0 | 2640.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2640.6 | 0.0 | 2640.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5281.2 | 0.0 | 5281.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.3 | 0.7 |
| 10°-20° | 123.4 | 2.3 |
| 20°-30° | 250.8 | 4.7 |
| 30°-40° | 432.3 | 8.2 |
| 40°-50° | 728.2 | 13.8 |
| 50°-60° | 1072.3 | 20.3 |
| 60°-70° | 1275.2 | 24.1 |
| 70°-80° | 1032.3 | 19.5 |
| 80°-90° | 330.3 | 6.3 |
| 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° | 5281.2 | 100.0 |
| 0°-180° | 5281.2 | 100.0 |



REPORT NUMBER: P197734

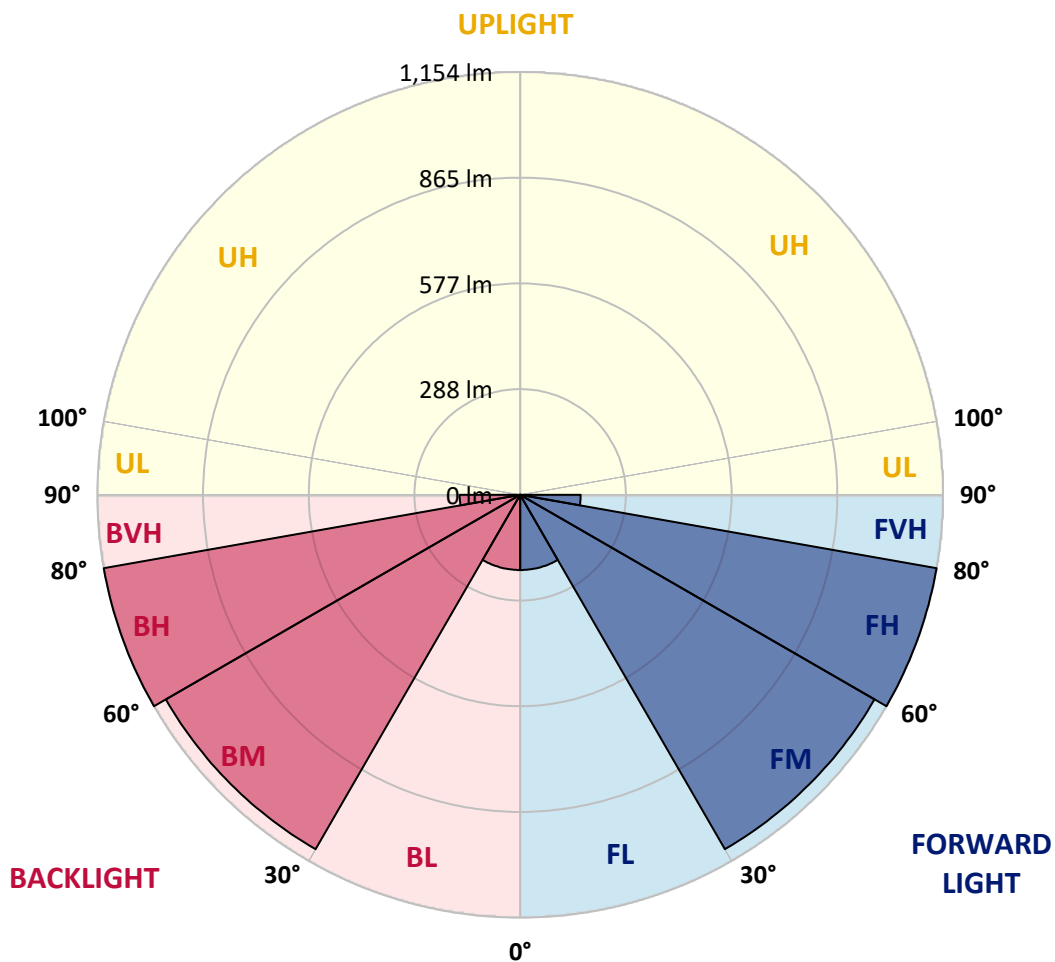
CATALOG NUMBER: TT-C3-LED-E1-5WQ-PM-LWR-LW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 205.3 | 3.9 | | | |
| FM | (30°-60°) | 1116.4 | 21.1 | | | |
| FH | (60°-80°) | 1153.8 | 21.8 | | | G1/1800 |
| FVH | (80°-90°) | 165.1 | 3.1 | | | G2/225 |
| BL | (0°-30°) | 205.3 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 1116.4 | 21.1 | B2/2500 | | |
| BH | (60°-80°) | 1153.8 | 21.8 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 165.1 | 3.1 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P197734

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 |
| 2.5° | 370.9 | 370.9 | 370.9 | 370.9 | 370.9 | 370.9 | 369.7 | 370.9 | 369.7 | 369.7 | 369.7 |
| 5° | 378.0 | 378.0 | 378.0 | 378.0 | 376.9 | 376.9 | 375.9 | 375.9 | 375.9 | 374.9 | 375.9 |
| 7.5° | 381.0 | 381.0 | 381.0 | 381.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 |
| 10° | 388.2 | 388.2 | 389.2 | 390.2 | 392.2 | 392.2 | 392.2 | 393.3 | 392.2 | 392.2 | 392.2 |
| 12.5° | 403.5 | 402.5 | 404.5 | 406.5 | 408.7 | 409.7 | 409.7 | 409.7 | 408.7 | 408.7 | 409.7 |
| 15° | 425.0 | 422.9 | 424.0 | 425.0 | 426.0 | 427.0 | 427.0 | 426.0 | 424.0 | 424.0 | 424.0 |
| 17.5° | 452.5 | 449.5 | 448.5 | 447.5 | 447.5 | 449.5 | 451.5 | 450.5 | 451.5 | 450.5 | 451.5 |
| 20° | 485.3 | 483.1 | 483.1 | 483.1 | 484.1 | 488.3 | 492.4 | 494.4 | 493.4 | 491.3 | 494.4 |
| 22.5° | 506.6 | 507.7 | 512.8 | 511.8 | 510.8 | 514.9 | 519.9 | 524.1 | 521.9 | 518.9 | 520.9 |
| 25° | 530.2 | 530.2 | 537.3 | 540.4 | 537.3 | 537.3 | 539.4 | 542.4 | 540.4 | 538.4 | 540.4 |
| 27.5° | 556.7 | 556.7 | 559.7 | 562.9 | 560.9 | 560.9 | 563.9 | 569.0 | 567.9 | 566.9 | 567.9 |
| 30° | 588.4 | 584.3 | 581.2 | 586.4 | 591.5 | 592.5 | 595.5 | 603.7 | 605.7 | 604.7 | 606.8 |
| 32.5° | 618.0 | 611.9 | 614.0 | 617.0 | 628.2 | 632.3 | 631.3 | 637.5 | 636.4 | 633.3 | 637.5 |
| 35° | 646.6 | 653.8 | 657.8 | 664.0 | 668.1 | 673.1 | 673.1 | 684.4 | 686.5 | 683.4 | 686.5 |
| 37.5° | 701.8 | 704.8 | 716.1 | 717.1 | 722.2 | 741.6 | 743.7 | 759.0 | 767.2 | 763.1 | 764.1 |
| 40° | 777.4 | 776.4 | 784.5 | 796.7 | 807.0 | 831.5 | 838.7 | 848.8 | 856.0 | 853.0 | 857.0 |
| 42.5° | 838.7 | 830.5 | 836.6 | 863.2 | 874.5 | 892.8 | 902.0 | 907.1 | 920.4 | 916.3 | 921.4 |
| 45° | 882.6 | 885.6 | 893.8 | 920.4 | 927.6 | 942.9 | 964.3 | 973.5 | 990.9 | 985.7 | 988.9 |
| 47.5° | 925.4 | 939.8 | 946.9 | 959.2 | 981.7 | 1002.1 | 1028.7 | 1037.8 | 1062.3 | 1060.3 | 1057.3 |
| 50° | 981.7 | 992.9 | 1001.0 | 1010.2 | 1041.0 | 1074.6 | 1097.1 | 1101.1 | 1109.3 | 1103.3 | 1113.4 |
| 52.5° | 1042.0 | 1041.0 | 1048.0 | 1073.6 | 1116.5 | 1129.8 | 1149.2 | 1167.6 | 1184.9 | 1191.1 | 1184.9 |
| 55° | 1121.6 | 1096.1 | 1125.7 | 1162.4 | 1180.9 | 1212.5 | 1259.5 | 1285.1 | 1318.8 | 1323.9 | 1313.6 |
| 57.5° | 1154.3 | 1154.3 | 1184.9 | 1206.4 | 1240.2 | 1296.3 | 1346.4 | 1358.6 | 1375.9 | 1366.8 | 1377.0 |
| 60° | 1150.2 | 1189.0 | 1189.0 | 1226.8 | 1282.0 | 1332.1 | 1350.4 | 1370.9 | 1394.4 | 1393.4 | 1393.4 |
| 62.5° | 1155.4 | 1193.1 | 1182.9 | 1248.3 | 1282.0 | 1322.8 | 1363.7 | 1401.5 | 1434.2 | 1433.2 | 1432.2 |
| 63° | 1160.4 | 1193.1 | 1187.0 | 1253.4 | 1281.0 | 1324.9 | 1373.9 | 1411.7 | 1438.3 | 1436.2 | 1437.2 |
| 65° | 1175.7 | 1166.6 | 1203.4 | 1245.2 | 1276.8 | 1342.3 | 1383.1 | 1412.7 | 1431.2 | 1430.2 | 1430.2 |
| 67.5° | 1147.1 | 1125.7 | 1177.8 | 1194.2 | 1254.5 | 1312.6 | 1344.3 | 1378.1 | 1391.2 | 1391.2 | 1389.2 |
| 70° | 1059.3 | 1068.5 | 1104.3 | 1130.8 | 1192.1 | 1244.2 | 1270.8 | 1313.6 | 1330.0 | 1330.0 | 1329.0 |
| 72.5° | 970.4 | 985.7 | 1010.2 | 1048.0 | 1106.3 | 1147.1 | 1178.9 | 1217.7 | 1239.0 | 1238.0 | 1238.0 |
| 75° | 857.0 | 871.3 | 899.9 | 935.7 | 986.7 | 1026.7 | 1052.2 | 1089.0 | 1113.4 | 1122.6 | 1112.4 |
| 77.5° | 729.4 | 733.4 | 760.0 | 796.7 | 841.7 | 869.3 | 908.1 | 943.9 | 964.3 | 963.2 | 960.2 |
| 80° | 574.1 | 579.2 | 601.7 | 643.5 | 668.1 | 700.8 | 736.6 | 755.9 | 773.2 | 773.2 | 771.2 |
| 82.5° | 396.3 | 407.5 | 430.0 | 457.6 | 483.1 | 511.8 | 531.2 | 550.6 | 564.9 | 563.9 | 560.9 |
| 85° | 223.7 | 228.8 | 250.3 | 267.6 | 287.1 | 305.4 | 318.7 | 330.9 | 343.2 | 343.2 | 341.2 |
| 87.5° | 67.4 | 60.3 | 72.6 | 79.6 | 89.9 | 99.1 | 105.2 | 117.4 | 125.6 | 116.4 | 116.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P197734

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 | 359.6 |
| 2.5° | 370.9 | 370.9 | 370.9 | 370.9 | 370.9 | 370.9 | 370.9 | 370.9 |
| 5° | 375.9 | 376.9 | 376.9 | 378.0 | 378.0 | 378.0 | 378.0 | 378.0 |
| 7.5° | 380.0 | 380.0 | 380.0 | 380.0 | 381.0 | 381.0 | 381.0 | 381.0 |
| 10° | 392.2 | 393.3 | 392.2 | 392.2 | 390.2 | 389.2 | 389.2 | 389.2 |
| 12.5° | 409.7 | 410.7 | 410.7 | 408.7 | 406.5 | 404.5 | 403.5 | 402.5 |
| 15° | 426.0 | 429.0 | 427.0 | 426.0 | 424.0 | 425.0 | 425.0 | 426.0 |
| 17.5° | 451.5 | 452.5 | 449.5 | 447.5 | 446.5 | 448.5 | 450.5 | 451.5 |
| 20° | 495.4 | 493.4 | 487.3 | 485.3 | 483.1 | 483.1 | 485.3 | 485.3 |
| 22.5° | 523.1 | 517.9 | 513.8 | 511.8 | 511.8 | 511.8 | 508.7 | 504.6 |
| 25° | 542.4 | 539.4 | 536.3 | 538.4 | 540.4 | 537.3 | 530.2 | 529.1 |
| 27.5° | 569.0 | 562.9 | 561.9 | 560.9 | 561.9 | 559.7 | 558.7 | 554.7 |
| 30° | 603.7 | 595.5 | 593.5 | 591.5 | 585.4 | 583.2 | 585.4 | 588.4 |
| 32.5° | 636.4 | 631.3 | 633.3 | 629.3 | 618.0 | 614.0 | 616.0 | 615.0 |
| 35° | 683.4 | 674.2 | 674.2 | 666.0 | 663.0 | 662.0 | 653.8 | 646.6 |
| 37.5° | 757.9 | 745.7 | 742.6 | 724.3 | 716.1 | 718.1 | 706.9 | 698.8 |
| 40° | 848.8 | 839.7 | 831.5 | 811.0 | 799.9 | 785.5 | 778.4 | 778.4 |
| 42.5° | 909.1 | 903.0 | 891.8 | 877.5 | 865.2 | 840.7 | 831.5 | 836.6 |
| 45° | 975.6 | 967.4 | 943.9 | 929.6 | 918.3 | 901.0 | 890.8 | 880.5 |
| 47.5° | 1043.0 | 1031.7 | 1004.2 | 985.7 | 959.2 | 954.1 | 942.9 | 928.6 |
| 50° | 1102.3 | 1098.1 | 1078.7 | 1048.0 | 1014.4 | 1006.2 | 996.0 | 982.7 |
| 52.5° | 1174.7 | 1150.2 | 1133.9 | 1120.6 | 1082.8 | 1056.3 | 1042.0 | 1048.0 |
| 55° | 1293.3 | 1262.6 | 1220.7 | 1178.9 | 1170.7 | 1138.9 | 1103.3 | 1122.6 |
| 57.5° | 1361.7 | 1344.3 | 1312.6 | 1246.2 | 1213.5 | 1192.1 | 1168.6 | 1151.2 |
| 60° | 1378.1 | 1346.4 | 1339.2 | 1289.1 | 1237.0 | 1192.1 | 1201.3 | 1160.4 |
| 62.5° | 1409.7 | 1366.8 | 1326.9 | 1287.1 | 1255.5 | 1194.2 | 1192.1 | 1170.7 |
| 63° | 1419.9 | 1377.0 | 1335.1 | 1287.1 | 1258.5 | 1201.3 | 1190.1 | 1178.9 |
| 65° | 1417.9 | 1381.1 | 1349.4 | 1287.1 | 1244.2 | 1221.7 | 1166.6 | 1192.1 |
| 67.5° | 1379.1 | 1348.4 | 1311.6 | 1268.7 | 1197.2 | 1179.9 | 1141.1 | 1146.1 |
| 70° | 1316.8 | 1276.8 | 1242.2 | 1202.4 | 1145.1 | 1105.3 | 1081.8 | 1062.3 |
| 72.5° | 1219.7 | 1183.9 | 1147.1 | 1110.4 | 1059.3 | 1011.3 | 994.9 | 973.5 |
| 75° | 1091.0 | 1056.3 | 1022.5 | 987.9 | 939.8 | 896.9 | 879.5 | 864.2 |
| 77.5° | 943.9 | 914.3 | 866.3 | 833.5 | 806.0 | 760.0 | 743.7 | 727.3 |
| 80° | 752.9 | 738.6 | 703.8 | 661.0 | 646.6 | 601.7 | 589.4 | 567.9 |
| 82.5° | 547.6 | 533.2 | 505.6 | 476.0 | 458.6 | 435.2 | 414.7 | 400.5 |
| 85° | 334.1 | 318.7 | 304.4 | 277.8 | 267.6 | 250.3 | 234.0 | 225.8 |
| 87.5° | 120.6 | 108.3 | 97.1 | 84.8 | 78.6 | 66.4 | 64.3 | 58.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)