

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: NEO-RAY

Report Number: P331253-930

Luminaire Tested: **SA2XXDIP-C290D530U930-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331253-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C290D530U930-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2517.6 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

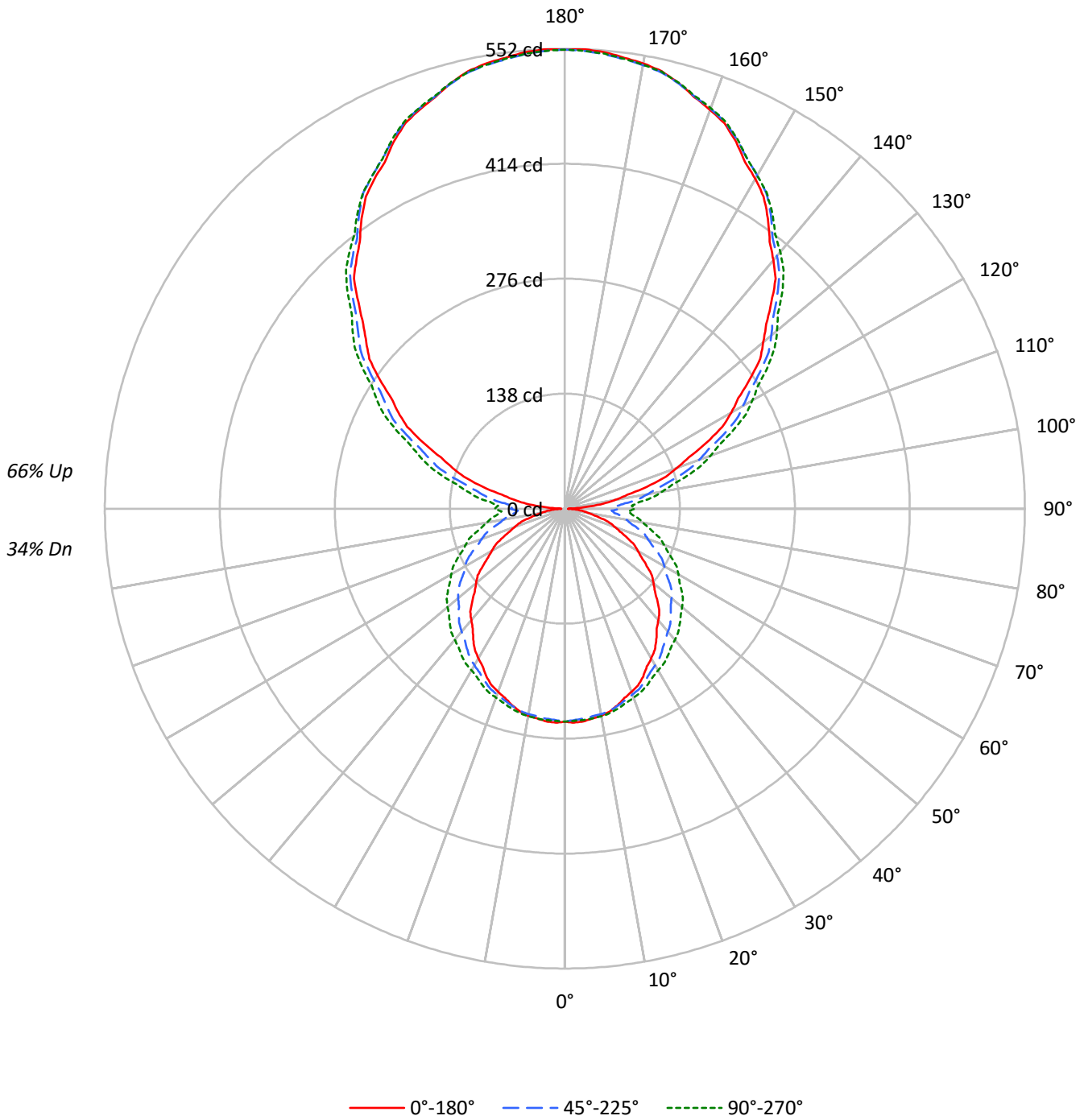
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331253-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331253-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-D1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 34 | | | | 34 |
| 1 | 93 | 89 | 84 | 81 | 84 | 80 | 76 | 73 | 64 | 61 | 59 | 49 | 47 | 46 | 35 | 34 | 33 | | | | 27 | |
| 2 | 84 | 77 | 70 | 65 | 76 | 69 | 64 | 59 | 55 | 51 | 48 | 42 | 40 | 37 | 30 | 29 | 27 | | | | 22 | |
| 3 | 77 | 67 | 60 | 54 | 69 | 61 | 54 | 49 | 48 | 44 | 40 | 37 | 34 | 31 | 27 | 24 | 23 | | | | 18 | |
| 4 | 70 | 59 | 51 | 45 | 63 | 53 | 46 | 41 | 43 | 38 | 34 | 33 | 29 | 26 | 24 | 21 | 19 | | | | 15 | |
| 5 | 64 | 52 | 44 | 38 | 57 | 47 | 40 | 35 | 38 | 33 | 29 | 29 | 25 | 23 | 21 | 19 | 17 | | | | 13 | |
| 6 | 59 | 47 | 39 | 33 | 53 | 42 | 35 | 30 | 34 | 29 | 25 | 26 | 22 | 20 | 19 | 16 | 14 | | | | 11 | |
| 7 | 54 | 42 | 34 | 28 | 49 | 38 | 31 | 26 | 31 | 25 | 22 | 24 | 20 | 17 | 17 | 15 | 13 | | | | 10 | |
| 8 | 50 | 38 | 30 | 25 | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 16 | 13 | 11 | | | | 9 | |
| 9 | 47 | 35 | 27 | 22 | 42 | 31 | 25 | 20 | 25 | 20 | 17 | 20 | 16 | 13 | 15 | 12 | 10 | | | | 8 | |
| 10 | 44 | 32 | 24 | 20 | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 12 | 14 | 11 | 9 | | | | 7 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4127 | 4127 | 4127 |
| 5° | 4146 | 3973 | 3957 |
| 10° | 4121 | 3855 | 3812 |
| 15° | 4063 | 3730 | 3659 |
| 20° | 3992 | 3597 | 3511 |
| 25° | 3922 | 3468 | 3376 |
| 30° | 3821 | 3336 | 3241 |
| 35° | 3720 | 3209 | 3148 |
| 40° | 3615 | 3101 | 3051 |
| 45° | 3512 | 3004 | 2971 |
| 50° | 3404 | 2917 | 2891 |
| 55° | 3289 | 2822 | 2810 |
| 60° | 3151 | 2723 | 2724 |
| 65° | 3006 | 2608 | 2622 |
| 70° | 2844 | 2485 | 2512 |
| 75° | 2639 | 2365 | 2410 |
| 80° | 2312 | 2240 | 2305 |
| 85° | 2005 | 2134 | 2226 |



TEST NUMBER: P331253-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.2 | 1.0 |
| 10°-20° | 69.4 | 2.8 |
| 20°-30° | 105.2 | 4.2 |
| 30°-40° | 128.2 | 5.1 |
| 40°-50° | 137.9 | 5.5 |
| 50°-60° | 133.9 | 5.3 |
| 60°-70° | 116.9 | 4.6 |
| 70°-80° | 90.0 | 3.6 |
| 80°-90° | 62.6 | 2.5 |
| 90°-100° | 76.5 | 3.0 |
| 100°-110° | 138.8 | 5.5 |
| 110°-120° | 205.4 | 8.2 |
| 120°-130° | 254.9 | 10.1 |
| 130°-140° | 278.2 | 11.1 |
| 140°-150° | 269.0 | 10.7 |
| 150°-160° | 225.0 | 8.9 |
| 160°-170° | 149.2 | 5.9 |
| 170°-180° | 52.2 | 2.1 |
| 0°-30° | 198.9 | 7.9 |
| 0°-40° | 327.1 | 13.0 |
| 0°-60° | 598.8 | 23.8 |
| 0°-90° | 868.4 | 34.5 |
| 90°-120° | 420.7 | 16.7 |
| 90°-150° | 1222.9 | 48.6 |
| 90°-180° | 1649.0 | 65.5 |
| 0°-180° | 2517.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 256 | 256 | 256 | 256 | 256 | |
| 5° | 256 | 255 | 253 | 255 | 255 | 24 |
| 15° | 244 | 245 | 245 | 248 | 248 | 69 |
| 25° | 222 | 225 | 228 | 232 | 234 | 102 |
| 35° | 192 | 198 | 205 | 213 | 216 | 120 |
| 45° | 157 | 167 | 180 | 191 | 195 | 121 |
| 55° | 120 | 134 | 153 | 166 | 171 | 108 |
| 65° | 82 | 101 | 122 | 137 | 142 | 82 |
| 75° | 46 | 66 | 90 | 105 | 111 | 48 |
| 85° | 13 | 36 | 60 | 75 | 81 | 14 |
| 90° | 4 | 32 | 65 | 79 | 84 | 4 |
| 95° | 27 | 49 | 72 | 86 | 90 | 30 |
| 105° | 102 | 114 | 134 | 148 | 152 | 108 |
| 115° | 187 | 195 | 210 | 220 | 223 | 185 |
| 125° | 271 | 276 | 286 | 294 | 297 | 243 |
| 135° | 350 | 356 | 360 | 367 | 369 | 271 |
| 145° | 425 | 428 | 431 | 434 | 434 | 265 |
| 155° | 486 | 487 | 489 | 491 | 490 | 224 |
| 165° | 529 | 528 | 528 | 531 | 529 | 149 |
| 175° | 550 | 549 | 548 | 551 | 548 | 52 |
| 180° | 551 | 551 | 551 | 551 | 551 | |



TEST NUMBER: P331253-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 |
| 2.5° | 257.1 | 256.8 | 256.7 | 256.4 | 256.2 | 255.9 | 255.4 | 255.0 | 254.5 | 254.0 | 254.4 |
| 5° | 256.3 | 256.1 | 255.8 | 255.6 | 255.3 | 254.9 | 254.5 | 254.0 | 253.5 | 253.0 | 253.5 |
| 7.5° | 254.0 | 253.8 | 253.6 | 253.5 | 253.3 | 253.1 | 252.7 | 252.3 | 251.9 | 251.5 | 252.2 |
| 10° | 252.3 | 252.1 | 251.9 | 251.8 | 251.6 | 251.4 | 251.1 | 250.9 | 250.6 | 250.4 | 251.0 |
| 12.5° | 249.2 | 249.3 | 249.3 | 249.4 | 249.4 | 249.3 | 249.2 | 249.0 | 248.7 | 248.6 | 249.2 |
| 15° | 244.4 | 244.6 | 244.8 | 244.9 | 245.1 | 245.2 | 245.2 | 245.2 | 245.2 | 245.2 | 245.9 |
| 17.5° | 238.2 | 238.6 | 238.9 | 239.3 | 239.6 | 239.9 | 240.2 | 240.4 | 240.7 | 241.0 | 241.7 |
| 20° | 234.1 | 234.5 | 234.9 | 235.3 | 235.7 | 236.1 | 236.4 | 236.8 | 237.1 | 237.4 | 238.3 |
| 22.5° | 229.7 | 230.1 | 230.6 | 231.1 | 231.5 | 232.0 | 232.4 | 232.9 | 233.4 | 233.8 | 234.7 |
| 25° | 222.3 | 222.8 | 223.4 | 224.0 | 224.5 | 225.2 | 225.9 | 226.7 | 227.4 | 228.1 | 229.1 |
| 27.5° | 213.4 | 214.3 | 215.2 | 216.1 | 217.1 | 218.0 | 218.8 | 219.7 | 220.6 | 221.5 | 222.7 |
| 30° | 207.4 | 208.5 | 209.5 | 210.6 | 211.7 | 212.8 | 213.9 | 214.9 | 216.0 | 217.0 | 218.3 |
| 32.5° | 200.9 | 202.1 | 203.3 | 204.5 | 205.7 | 206.9 | 208.2 | 209.5 | 210.8 | 212.0 | 213.5 |
| 35° | 191.5 | 192.9 | 194.3 | 195.7 | 197.1 | 198.5 | 200.2 | 201.7 | 203.3 | 204.8 | 206.6 |
| 37.5° | 181.2 | 182.9 | 184.5 | 186.1 | 187.7 | 189.6 | 191.6 | 193.6 | 195.6 | 197.6 | 199.7 |
| 40° | 174.5 | 176.3 | 178.1 | 179.9 | 181.6 | 183.7 | 185.9 | 188.2 | 190.4 | 192.6 | 194.7 |
| 42.5° | 168.0 | 169.7 | 171.5 | 173.3 | 175.2 | 177.3 | 179.9 | 182.5 | 185.0 | 187.5 | 189.9 |
| 45° | 157.0 | 159.2 | 161.5 | 163.7 | 165.9 | 168.4 | 171.4 | 174.2 | 177.1 | 180.0 | 182.5 |
| 47.5° | 146.3 | 148.7 | 151.2 | 153.5 | 156.0 | 158.9 | 162.2 | 165.6 | 169.0 | 172.4 | 175.0 |
| 50° | 138.9 | 141.5 | 144.0 | 146.5 | 149.1 | 152.2 | 156.0 | 159.6 | 163.3 | 167.1 | 169.8 |
| 52.5° | 131.8 | 134.4 | 137.1 | 139.8 | 142.5 | 145.8 | 149.7 | 153.6 | 157.5 | 161.4 | 164.3 |
| 55° | 120.3 | 123.4 | 126.3 | 129.2 | 132.2 | 135.8 | 140.1 | 144.4 | 148.7 | 153.0 | 156.0 |
| 57.5° | 109.1 | 112.4 | 115.8 | 119.1 | 122.5 | 126.3 | 130.7 | 135.0 | 139.4 | 143.8 | 147.0 |
| 60° | 101.1 | 104.7 | 108.2 | 111.7 | 115.3 | 119.4 | 124.1 | 128.7 | 133.5 | 138.1 | 141.3 |
| 62.5° | 94.0 | 97.7 | 101.3 | 105.0 | 108.7 | 112.8 | 117.6 | 122.2 | 126.9 | 131.7 | 134.9 |
| 65° | 82.2 | 86.3 | 90.3 | 94.3 | 98.3 | 102.8 | 107.6 | 112.5 | 117.4 | 122.2 | 125.6 |
| 67.5° | 71.4 | 75.7 | 79.8 | 84.1 | 88.3 | 92.9 | 97.8 | 102.8 | 107.8 | 112.8 | 116.2 |
| 70° | 63.7 | 68.0 | 72.2 | 76.6 | 80.8 | 85.5 | 90.6 | 95.7 | 100.9 | 105.9 | 109.5 |
| 72.5° | 56.6 | 61.0 | 65.4 | 69.8 | 74.3 | 79.0 | 84.2 | 89.4 | 94.6 | 99.7 | 103.2 |
| 75° | 45.6 | 50.1 | 54.8 | 59.4 | 64.0 | 68.9 | 74.2 | 79.5 | 84.7 | 90.0 | 93.5 |
| 77.5° | 34.9 | 39.7 | 44.5 | 49.3 | 54.2 | 59.3 | 64.7 | 70.0 | 75.3 | 80.6 | 84.2 |
| 80° | 27.8 | 32.8 | 37.8 | 42.8 | 47.9 | 53.1 | 58.4 | 63.8 | 69.1 | 74.4 | 77.9 |
| 82.5° | 21.9 | 26.8 | 31.8 | 36.7 | 41.7 | 46.9 | 52.3 | 57.7 | 63.1 | 68.5 | 72.0 |
| 85° | 13.4 | 18.4 | 23.6 | 28.6 | 33.8 | 38.9 | 44.2 | 49.5 | 54.7 | 60.0 | 63.4 |
| 87.5° | 7.3 | 12.5 | 17.7 | 22.8 | 28.0 | 33.4 | 39.1 | 44.8 | 50.5 | 56.3 | 59.6 |
| 90° | 4.2 | 10.2 | 16.2 | 22.2 | 28.2 | 35.0 | 42.6 | 50.1 | 57.6 | 65.1 | 68.2 |
| 92.5° | 11.7 | 17.0 | 22.4 | 27.7 | 33.1 | 38.6 | 44.2 | 49.8 | 55.4 | 61.0 | 64.2 |
| 95° | 27.1 | 32.0 | 36.9 | 41.8 | 46.7 | 51.8 | 56.9 | 62.0 | 67.2 | 72.3 | 75.5 |
| 97.5° | 46.8 | 51.1 | 55.4 | 59.8 | 64.2 | 68.9 | 74.0 | 79.2 | 84.3 | 89.4 | 92.5 |
| 100° | 61.6 | 65.5 | 69.4 | 73.2 | 77.1 | 81.5 | 86.4 | 91.4 | 96.3 | 101.2 | 104.3 |
| 102.5° | 77.0 | 80.4 | 83.8 | 87.3 | 90.7 | 94.9 | 99.8 | 104.6 | 109.5 | 114.4 | 117.4 |
| 105° | 101.8 | 104.5 | 107.2 | 109.9 | 112.6 | 116.2 | 120.7 | 125.1 | 129.6 | 134.1 | 137.2 |
| 107.5° | 127.2 | 129.6 | 131.9 | 134.3 | 136.6 | 139.9 | 144.0 | 148.1 | 152.2 | 156.3 | 159.1 |
| 110° | 143.2 | 145.5 | 147.8 | 150.1 | 152.4 | 155.5 | 159.6 | 163.5 | 167.6 | 171.6 | 174.2 |



TEST NUMBER: P331253-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 161.1 | 163.1 | 165.2 | 167.1 | 169.2 | 172.0 | 175.8 | 179.5 | 183.3 | 187.0 | 189.4 |
| 115° | 187.4 | 189.0 | 190.5 | 192.0 | 193.6 | 196.1 | 199.6 | 203.1 | 206.5 | 210.0 | 212.4 |
| 117.5° | 213.3 | 214.7 | 216.1 | 217.5 | 219.0 | 221.1 | 224.0 | 226.8 | 229.7 | 232.5 | 234.6 |
| 120° | 230.8 | 232.0 | 233.1 | 234.2 | 235.4 | 237.3 | 239.7 | 242.1 | 244.6 | 247.1 | 249.4 |
| 122.5° | 246.8 | 247.9 | 249.0 | 250.1 | 251.3 | 253.1 | 255.6 | 258.1 | 260.7 | 263.2 | 265.1 |
| 125° | 271.3 | 272.2 | 273.2 | 274.1 | 275.1 | 276.6 | 279.0 | 281.3 | 283.6 | 285.9 | 287.9 |
| 127.5° | 295.6 | 296.7 | 297.7 | 298.9 | 299.9 | 301.4 | 303.1 | 304.9 | 306.6 | 308.4 | 310.1 |
| 130° | 310.9 | 312.1 | 313.4 | 314.6 | 315.8 | 317.3 | 318.8 | 320.3 | 321.9 | 323.3 | 325.1 |
| 132.5° | 327.9 | 329.0 | 330.0 | 331.0 | 332.0 | 333.2 | 334.6 | 336.0 | 337.3 | 338.7 | 340.1 |
| 135° | 350.4 | 351.6 | 352.7 | 353.8 | 355.0 | 356.1 | 357.1 | 358.2 | 359.1 | 360.2 | 361.8 |
| 137.5° | 374.5 | 375.4 | 376.3 | 377.2 | 378.2 | 379.0 | 379.6 | 380.3 | 380.8 | 381.5 | 382.9 |
| 140° | 389.1 | 389.9 | 390.8 | 391.6 | 392.4 | 393.2 | 393.9 | 394.5 | 395.3 | 395.9 | 397.2 |
| 142.5° | 403.9 | 404.8 | 405.6 | 406.4 | 407.3 | 407.9 | 408.3 | 408.7 | 409.1 | 409.4 | 410.6 |
| 145° | 424.9 | 425.7 | 426.4 | 427.1 | 427.9 | 428.5 | 429.1 | 429.7 | 430.4 | 431.0 | 431.5 |
| 147.5° | 444.0 | 444.8 | 445.7 | 446.6 | 447.4 | 448.1 | 448.5 | 448.9 | 449.3 | 449.8 | 450.0 |
| 150° | 457.1 | 457.6 | 458.3 | 458.9 | 459.5 | 460.0 | 460.4 | 460.8 | 461.2 | 461.7 | 461.9 |
| 152.5° | 468.6 | 469.2 | 469.8 | 470.4 | 471.0 | 471.6 | 472.1 | 472.5 | 473.0 | 473.6 | 473.9 |
| 155° | 485.8 | 486.2 | 486.5 | 486.7 | 487.1 | 487.4 | 487.7 | 488.0 | 488.3 | 488.6 | 489.2 |
| 157.5° | 500.6 | 500.8 | 501.0 | 501.2 | 501.5 | 501.7 | 501.8 | 502.1 | 502.2 | 502.4 | 503.1 |
| 160° | 509.6 | 509.7 | 510.0 | 510.1 | 510.4 | 510.5 | 510.6 | 510.7 | 510.9 | 510.9 | 511.6 |
| 162.5° | 517.7 | 517.8 | 517.8 | 517.9 | 517.9 | 518.0 | 518.0 | 518.2 | 518.3 | 518.4 | 519.1 |
| 165° | 528.6 | 528.5 | 528.4 | 528.3 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.2 | 528.9 |
| 167.5° | 537.7 | 537.4 | 537.1 | 536.8 | 536.5 | 536.3 | 536.3 | 536.3 | 536.2 | 536.2 | 537.0 |
| 170° | 542.6 | 542.3 | 541.9 | 541.6 | 541.4 | 541.1 | 541.0 | 540.9 | 540.8 | 540.7 | 541.4 |
| 172.5° | 545.9 | 545.6 | 545.3 | 544.9 | 544.7 | 544.5 | 544.4 | 544.3 | 544.1 | 544.0 | 544.8 |
| 175° | 550.0 | 549.7 | 549.3 | 549.1 | 548.8 | 548.5 | 548.3 | 548.1 | 547.9 | 547.6 | 548.4 |
| 177.5° | 551.7 | 551.4 | 551.1 | 550.9 | 550.7 | 550.5 | 550.3 | 550.2 | 550.0 | 549.8 | 550.3 |
| 180° | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 |



TEST NUMBER: P331253-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 | 255.6 |
| 2.5° | 254.7 | 255.0 | 255.4 | 255.5 | 255.4 | 255.2 | 255.1 | 254.9 |
| 5° | 254.0 | 254.5 | 254.9 | 255.1 | 255.0 | 254.9 | 254.9 | 254.8 |
| 7.5° | 252.7 | 253.3 | 254.0 | 254.2 | 254.1 | 254.0 | 254.0 | 253.9 |
| 10° | 251.7 | 252.3 | 253.0 | 253.3 | 253.2 | 253.2 | 253.1 | 253.0 |
| 12.5° | 249.9 | 250.5 | 251.2 | 251.5 | 251.4 | 251.4 | 251.3 | 251.2 |
| 15° | 246.6 | 247.4 | 248.2 | 248.5 | 248.4 | 248.3 | 248.3 | 248.2 |
| 17.5° | 242.6 | 243.3 | 244.0 | 244.4 | 244.4 | 244.4 | 244.4 | 244.4 |
| 20° | 239.2 | 240.1 | 241.0 | 241.5 | 241.5 | 241.5 | 241.5 | 241.5 |
| 22.5° | 235.7 | 236.6 | 237.5 | 238.0 | 238.1 | 238.2 | 238.4 | 238.6 |
| 25° | 230.2 | 231.1 | 232.1 | 232.7 | 232.9 | 233.2 | 233.4 | 233.7 |
| 27.5° | 224.0 | 225.3 | 226.5 | 227.2 | 227.4 | 227.6 | 227.7 | 228.0 |
| 30° | 219.6 | 221.0 | 222.3 | 223.1 | 223.3 | 223.6 | 223.8 | 224.0 |
| 32.5° | 215.0 | 216.5 | 218.1 | 219.1 | 219.5 | 220.0 | 220.4 | 220.8 |
| 35° | 208.5 | 210.3 | 212.1 | 213.3 | 213.9 | 214.4 | 215.0 | 215.6 |
| 37.5° | 201.6 | 203.7 | 205.7 | 207.0 | 207.6 | 208.2 | 208.8 | 209.4 |
| 40° | 196.9 | 199.0 | 201.1 | 202.6 | 203.3 | 204.1 | 204.8 | 205.5 |
| 42.5° | 192.2 | 194.5 | 196.9 | 198.4 | 199.2 | 199.9 | 200.6 | 201.4 |
| 45° | 185.1 | 187.7 | 190.2 | 191.9 | 192.7 | 193.6 | 194.4 | 195.2 |
| 47.5° | 177.7 | 180.3 | 183.0 | 184.8 | 185.7 | 186.6 | 187.5 | 188.4 |
| 50° | 172.6 | 175.5 | 178.2 | 180.1 | 181.0 | 181.9 | 182.8 | 183.7 |
| 52.5° | 167.1 | 170.0 | 172.8 | 174.8 | 175.8 | 176.8 | 177.7 | 178.6 |
| 55° | 158.9 | 161.8 | 164.9 | 166.8 | 167.9 | 169.0 | 170.1 | 171.1 |
| 57.5° | 150.2 | 153.4 | 156.5 | 158.7 | 159.8 | 160.9 | 161.9 | 163.1 |
| 60° | 144.4 | 147.6 | 150.7 | 152.8 | 153.9 | 155.1 | 156.3 | 157.4 |
| 62.5° | 138.3 | 141.6 | 145.0 | 147.2 | 148.2 | 149.3 | 150.4 | 151.5 |
| 65° | 129.0 | 132.3 | 135.7 | 137.9 | 139.0 | 140.1 | 141.1 | 142.2 |
| 67.5° | 119.5 | 122.9 | 126.4 | 128.7 | 129.7 | 130.9 | 132.0 | 133.1 |
| 70° | 113.0 | 116.5 | 120.1 | 122.4 | 123.4 | 124.3 | 125.3 | 126.3 |
| 72.5° | 106.6 | 110.1 | 113.6 | 115.9 | 117.1 | 118.3 | 119.5 | 120.7 |
| 75° | 97.1 | 100.6 | 104.2 | 106.5 | 107.5 | 108.6 | 109.7 | 110.7 |
| 77.5° | 87.7 | 91.2 | 94.7 | 97.1 | 98.2 | 99.4 | 100.5 | 101.7 |
| 80° | 81.4 | 84.8 | 88.3 | 90.6 | 91.7 | 92.9 | 94.0 | 95.1 |
| 82.5° | 75.4 | 78.9 | 82.3 | 84.6 | 85.7 | 86.8 | 87.9 | 88.9 |
| 85° | 66.9 | 70.4 | 73.9 | 76.1 | 77.3 | 78.4 | 79.6 | 80.7 |
| 87.5° | 62.9 | 66.2 | 69.5 | 71.7 | 72.8 | 73.9 | 75.0 | 76.1 |
| 90° | 71.3 | 74.4 | 77.5 | 79.6 | 80.7 | 81.8 | 82.8 | 84.0 |
| 92.5° | 67.5 | 70.8 | 74.1 | 76.2 | 77.2 | 78.3 | 79.2 | 80.2 |
| 95° | 78.6 | 81.7 | 84.9 | 86.8 | 87.6 | 88.4 | 89.2 | 89.9 |
| 97.5° | 95.6 | 98.6 | 101.6 | 103.6 | 104.6 | 105.5 | 106.5 | 107.4 |
| 100° | 107.3 | 110.3 | 113.4 | 115.3 | 116.1 | 116.9 | 117.7 | 118.5 |
| 102.5° | 120.5 | 123.5 | 126.6 | 128.6 | 129.4 | 130.1 | 130.9 | 131.8 |
| 105° | 140.3 | 143.4 | 146.5 | 148.5 | 149.4 | 150.3 | 151.2 | 152.1 |
| 107.5° | 162.0 | 164.9 | 167.7 | 169.3 | 169.7 | 170.2 | 170.6 | 171.0 |
| 110° | 176.9 | 179.5 | 182.1 | 183.8 | 184.3 | 185.0 | 185.6 | 186.1 |



TEST NUMBER: P331253-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 191.8 | 194.2 | 196.6 | 198.1 | 198.8 | 199.5 | 200.2 | 200.8 |
| 115° | 214.7 | 217.1 | 219.5 | 221.0 | 221.6 | 222.2 | 222.7 | 223.4 |
| 117.5° | 236.8 | 239.0 | 241.2 | 242.6 | 243.1 | 243.7 | 244.2 | 244.8 |
| 120° | 251.7 | 254.0 | 256.3 | 257.7 | 258.4 | 258.9 | 259.5 | 260.2 |
| 122.5° | 267.2 | 269.1 | 271.1 | 272.4 | 273.0 | 273.5 | 274.0 | 274.6 |
| 125° | 289.8 | 291.7 | 293.6 | 294.9 | 295.5 | 296.2 | 296.8 | 297.4 |
| 127.5° | 311.8 | 313.4 | 315.1 | 316.1 | 316.5 | 316.9 | 317.3 | 317.7 |
| 130° | 326.9 | 328.6 | 330.4 | 331.4 | 331.7 | 331.9 | 332.2 | 332.4 |
| 132.5° | 341.6 | 343.1 | 344.5 | 345.4 | 345.8 | 346.1 | 346.4 | 346.7 |
| 135° | 363.5 | 365.1 | 366.7 | 367.7 | 368.0 | 368.4 | 368.8 | 369.1 |
| 137.5° | 384.3 | 385.8 | 387.2 | 388.0 | 388.2 | 388.3 | 388.4 | 388.6 |
| 140° | 398.5 | 399.9 | 401.2 | 401.9 | 401.9 | 402.0 | 402.1 | 402.2 |
| 142.5° | 411.7 | 412.9 | 414.0 | 414.6 | 414.6 | 414.6 | 414.7 | 414.7 |
| 145° | 432.2 | 432.8 | 433.3 | 433.7 | 433.7 | 433.7 | 433.7 | 433.7 |
| 147.5° | 450.4 | 450.6 | 450.9 | 451.0 | 450.8 | 450.6 | 450.4 | 450.2 |
| 150° | 462.3 | 462.6 | 462.9 | 462.9 | 462.6 | 462.3 | 461.9 | 461.7 |
| 152.5° | 474.3 | 474.7 | 475.2 | 475.2 | 474.7 | 474.3 | 473.9 | 473.6 |
| 155° | 489.7 | 490.2 | 490.7 | 490.8 | 490.5 | 490.2 | 489.8 | 489.6 |
| 157.5° | 503.8 | 504.5 | 505.2 | 505.3 | 504.8 | 504.3 | 503.9 | 503.3 |
| 160° | 512.2 | 512.8 | 513.4 | 513.6 | 513.1 | 512.7 | 512.3 | 511.8 |
| 162.5° | 519.8 | 520.5 | 521.2 | 521.3 | 520.8 | 520.3 | 519.8 | 519.3 |
| 165° | 529.6 | 530.4 | 531.0 | 531.2 | 530.6 | 530.1 | 529.6 | 529.0 |
| 167.5° | 537.7 | 538.4 | 539.2 | 539.2 | 538.7 | 538.2 | 537.6 | 537.0 |
| 170° | 542.2 | 542.9 | 543.6 | 543.6 | 543.0 | 542.4 | 541.8 | 541.2 |
| 172.5° | 545.5 | 546.3 | 546.9 | 547.0 | 546.4 | 545.8 | 545.1 | 544.5 |
| 175° | 549.1 | 549.8 | 550.6 | 550.7 | 550.0 | 549.3 | 548.8 | 548.1 |
| 177.5° | 550.8 | 551.3 | 551.8 | 551.8 | 551.3 | 550.8 | 550.3 | 549.8 |
| 180° | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 | 550.9 |

(END OF REPORT)