

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: P331245-930

Luminaire Tested: **S122DIP-S290D330U930-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331245-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S290D330U930-4F0-1E-UDD-D4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2018.7 lumens  
Efficiency: N/A  
Efficacy: 99.4 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: General Diffuse

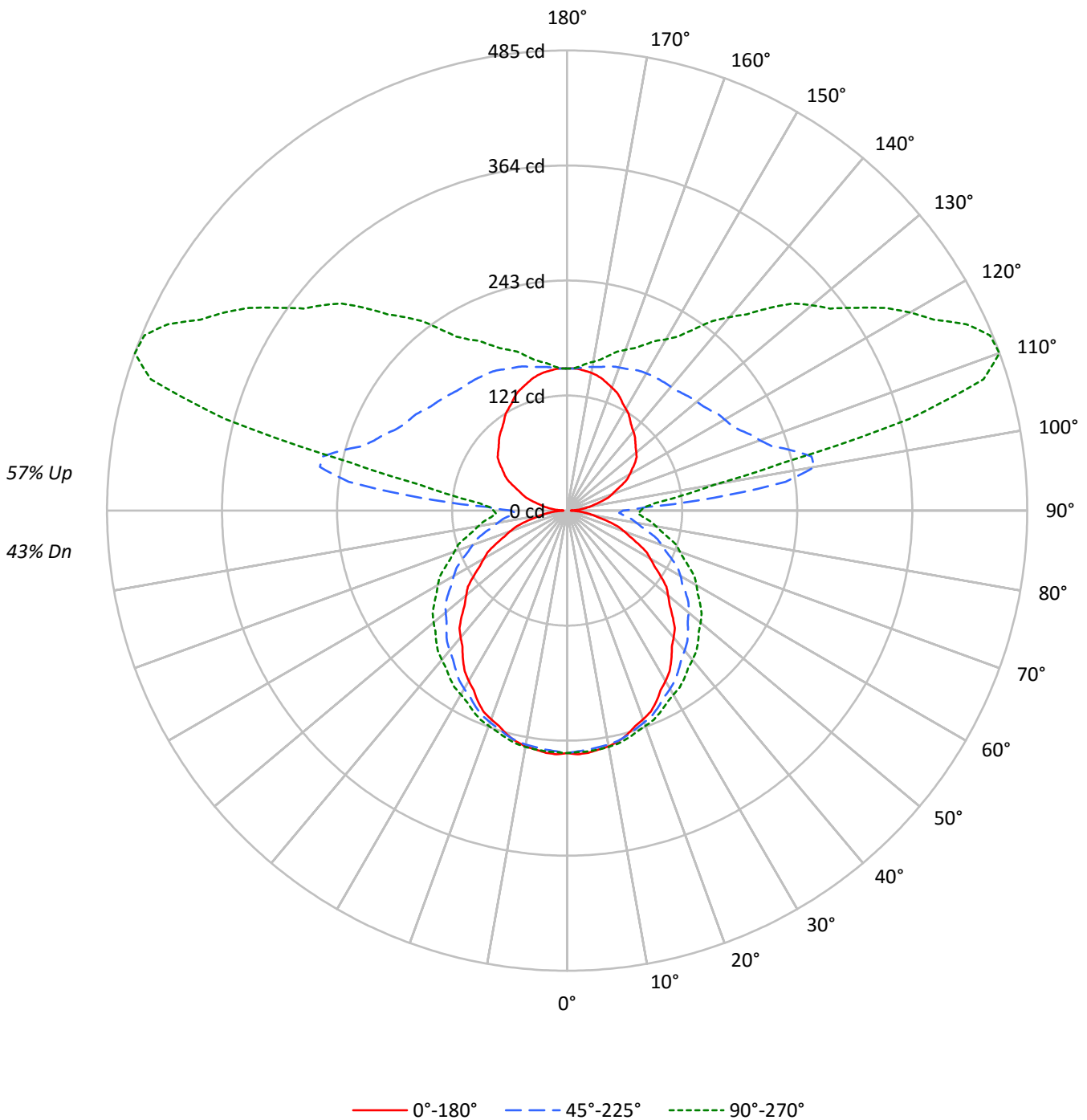
Input Watts (W): 20.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331245-930

CATALOG NUMBER: S122DIP-S290D330U930-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P331245-930

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**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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |  |    |    |    |  |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 |  | 64 | 64 | 64 |  | 50 | 50 | 50 | 43 |
| 1   | 95  | 90  | 86  | 82  | 86 | 82 | 79 | 75 | 68 | 65 | 62 |  | 54 | 52 | 51 |  | 42 | 41 | 39 | 34 |
| 2   | 86  | 78  | 71  | 66  | 78 | 71 | 65 | 61 | 59 | 54 | 51 |  | 47 | 44 | 41 |  | 36 | 34 | 32 | 27 |
| 3   | 78  | 68  | 60  | 54  | 71 | 62 | 55 | 50 | 51 | 46 | 42 |  | 41 | 37 | 34 |  | 32 | 29 | 27 | 22 |
| 4   | 71  | 60  | 52  | 45  | 64 | 55 | 48 | 42 | 45 | 40 | 35 |  | 36 | 32 | 29 |  | 28 | 25 | 23 | 19 |
| 5   | 65  | 53  | 45  | 39  | 59 | 49 | 41 | 36 | 40 | 35 | 30 |  | 32 | 28 | 25 |  | 25 | 22 | 20 | 16 |
| 6   | 60  | 47  | 39  | 33  | 54 | 44 | 36 | 31 | 36 | 30 | 26 |  | 29 | 25 | 22 |  | 23 | 19 | 17 | 14 |
| 7   | 55  | 43  | 35  | 29  | 50 | 39 | 32 | 27 | 33 | 27 | 23 |  | 26 | 22 | 19 |  | 21 | 17 | 15 | 12 |
| 8   | 51  | 39  | 31  | 25  | 47 | 36 | 29 | 24 | 30 | 24 | 20 |  | 24 | 20 | 17 |  | 19 | 16 | 13 | 11 |
| 9   | 48  | 35  | 28  | 22  | 43 | 32 | 26 | 21 | 27 | 22 | 18 |  | 22 | 18 | 15 |  | 17 | 14 | 12 | 10 |
| 10  | 44  | 32  | 25  | 20  | 40 | 30 | 23 | 19 | 25 | 20 | 16 |  | 20 | 16 | 13 |  | 16 | 13 | 11 | 9  |

**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 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.2   | 1.2       |
| 10°-20°   | 69.4   | 3.4       |
| 20°-30°   | 105.2  | 5.2       |
| 30°-40°   | 128.2  | 6.3       |
| 40°-50°   | 137.9  | 6.8       |
| 50°-60°   | 133.9  | 6.6       |
| 60°-70°   | 116.9  | 5.8       |
| 70°-80°   | 90.0   | 4.5       |
| 80°-90°   | 61.8   | 3.1       |
| 90°-100°  | 101.5  | 5.0       |
| 100°-110° | 233.6  | 11.6      |
| 110°-120° | 236.0  | 11.7      |
| 120°-130° | 189.0  | 9.4       |
| 130°-140° | 147.4  | 7.3       |
| 140°-150° | 108.7  | 5.4       |
| 150°-160° | 75.8   | 3.8       |
| 160°-170° | 44.6   | 2.2       |
| 170°-180° | 14.5   | 0.7       |
| 0°-30°    | 198.9  | 9.9       |
| 0°-40°    | 327.1  | 16.2      |
| 0°-60°    | 598.8  | 29.7      |
| 0°-90°    | 867.5  | 43.0      |
| 90°-120°  | 571.1  | 28.3      |
| 90°-150°  | 1016.2 | 50.3      |
| 90°-180°  | 1151.0 | 57.0      |
| 0°-180°   | 2018.7 | 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   | 29    | 59  | 72    | 78  | 3    |
| 95°  | 13  | 45    | 156 | 99    | 94  | 13   |
| 105° | 37  | 66    | 245 | 426   | 374 | 39   |
| 115° | 63  | 84    | 201 | 402   | 465 | 63   |
| 125° | 87  | 104   | 184 | 321   | 372 | 77   |
| 135° | 102 | 122   | 174 | 262   | 302 | 79   |
| 145° | 116 | 133   | 169 | 212   | 233 | 73   |
| 155° | 132 | 142   | 164 | 185   | 193 | 61   |
| 165° | 144 | 148   | 157 | 166   | 169 | 40   |
| 175° | 150 | 150   | 151 | 153   | 152 | 14   |
| 180° | 150 | 150   | 150 | 150   | 150 |      |



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**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   | 12.4  | 17.5  | 22.6  | 27.6  | 32.9  | 38.4  | 44.0  | 49.7  | 55.0  | 58.3  |
| 90°    | 4.0   | 9.6   | 15.6  | 20.9  | 26.3  | 32.1  | 38.8  | 46.1  | 53.2  | 58.7  | 61.7  |
| 92.5°  | 6.9   | 12.9  | 19.4  | 25.2  | 31.6  | 39.1  | 50.6  | 64.8  | 78.1  | 83.6  | 81.0  |
| 95°    | 13.0  | 18.1  | 24.8  | 31.3  | 39.8  | 51.0  | 69.2  | 99.2  | 137.6 | 155.5 | 144.6 |
| 97.5°  | 19.0  | 24.0  | 30.5  | 37.8  | 46.6  | 58.5  | 79.9  | 119.6 | 179.9 | 232.2 | 244.7 |
| 100°   | 24.8  | 28.7  | 34.3  | 42.0  | 50.8  | 62.7  | 82.6  | 122.3 | 189.1 | 264.6 | 309.2 |
| 102.5° | 29.8  | 33.2  | 38.6  | 46.0  | 54.7  | 66.4  | 85.0  | 120.7 | 182.8 | 263.7 | 331.9 |
| 105°   | 37.0  | 40.5  | 44.9  | 51.6  | 60.3  | 71.7  | 89.6  | 119.5 | 171.3 | 245.3 | 324.8 |
| 107.5° | 45.2  | 48.0  | 51.9  | 57.8  | 66.0  | 77.1  | 94.3  | 120.8 | 164.2 | 225.9 | 296.4 |
| 110°   | 50.5  | 53.2  | 56.7  | 62.0  | 69.7  | 80.9  | 97.6  | 122.4 | 161.6 | 216.3 | 278.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 55.5  | 58.0  | 61.4  | 66.3  | 73.5  | 84.7  | 100.8 | 124.2 | 159.9 | 209.1 | 265.5 |
| 115°   | 63.4  | 65.8  | 68.4  | 72.7  | 79.4  | 89.5  | 105.6 | 126.9 | 158.5 | 200.8 | 248.8 |
| 117.5° | 71.3  | 73.0  | 75.3  | 78.9  | 85.0  | 95.1  | 110.1 | 130.0 | 157.8 | 195.1 | 237.1 |
| 120°   | 76.3  | 77.8  | 79.8  | 82.8  | 88.9  | 98.7  | 113.2 | 132.1 | 157.6 | 191.7 | 230.6 |
| 122.5° | 81.1  | 82.2  | 84.1  | 87.0  | 92.9  | 102.8 | 116.4 | 134.0 | 157.6 | 189.0 | 224.8 |
| 125°   | 87.2  | 88.1  | 89.8  | 93.2  | 99.0  | 108.4 | 121.4 | 137.0 | 157.4 | 184.3 | 216.1 |
| 127.5° | 92.2  | 93.3  | 95.6  | 99.4  | 104.8 | 114.1 | 126.3 | 140.1 | 157.8 | 180.7 | 208.1 |
| 130°   | 95.2  | 96.3  | 99.1  | 103.1 | 108.8 | 117.6 | 129.4 | 142.1 | 158.2 | 178.4 | 202.8 |
| 132.5° | 98.0  | 99.3  | 102.3 | 106.5 | 112.4 | 121.1 | 132.1 | 144.1 | 158.7 | 176.3 | 198.2 |
| 135°   | 101.7 | 102.9 | 106.4 | 110.7 | 117.3 | 125.8 | 135.8 | 146.8 | 159.1 | 173.7 | 191.9 |
| 137.5° | 105.7 | 107.0 | 110.5 | 115.1 | 121.6 | 129.3 | 138.8 | 148.5 | 159.4 | 171.5 | 186.8 |
| 140°   | 108.7 | 109.7 | 113.2 | 117.6 | 123.9 | 131.4 | 140.2 | 149.4 | 159.3 | 170.2 | 183.8 |
| 142.5° | 111.7 | 112.5 | 115.7 | 120.2 | 126.2 | 133.2 | 141.7 | 150.4 | 159.6 | 169.5 | 181.3 |
| 145°   | 115.8 | 117.0 | 119.8 | 124.2 | 130.0 | 136.2 | 144.1 | 152.1 | 160.1 | 168.8 | 178.6 |
| 147.5° | 120.7 | 121.5 | 124.3 | 128.2 | 133.1 | 138.7 | 146.0 | 153.1 | 160.4 | 167.8 | 175.9 |
| 150°   | 123.8 | 124.7 | 127.0 | 130.8 | 135.1 | 140.3 | 146.9 | 153.5 | 160.1 | 167.1 | 174.0 |
| 152.5° | 127.1 | 127.5 | 129.8 | 133.1 | 137.2 | 141.9 | 147.8 | 153.8 | 159.7 | 165.9 | 172.4 |
| 155°   | 131.7 | 131.9 | 133.6 | 136.8 | 140.0 | 144.3 | 149.2 | 154.1 | 159.0 | 163.9 | 169.4 |
| 157.5° | 135.4 | 135.7 | 137.1 | 139.9 | 142.4 | 146.0 | 150.2 | 154.1 | 157.7 | 161.8 | 166.6 |
| 160°   | 137.9 | 138.3 | 139.4 | 141.7 | 144.1 | 147.2 | 150.7 | 154.1 | 157.0 | 160.5 | 164.4 |
| 162.5° | 140.6 | 140.3 | 141.5 | 143.3 | 145.4 | 147.9 | 150.9 | 153.8 | 156.3 | 159.3 | 162.7 |
| 165°   | 143.5 | 143.2 | 143.7 | 145.4 | 146.9 | 148.6 | 151.2 | 153.3 | 155.0 | 157.0 | 159.6 |
| 167.5° | 145.9 | 145.5 | 146.0 | 147.2 | 148.2 | 149.3 | 151.2 | 152.9 | 153.7 | 155.0 | 156.6 |
| 170°   | 147.5 | 146.9 | 147.2 | 148.1 | 148.6 | 149.5 | 150.9 | 152.4 | 153.0 | 153.8 | 155.0 |
| 172.5° | 148.4 | 148.1 | 147.9 | 148.8 | 149.1 | 149.8 | 150.7 | 151.7 | 152.1 | 152.5 | 153.4 |
| 175°   | 149.5 | 149.2 | 149.0 | 149.5 | 149.5 | 149.8 | 150.3 | 150.9 | 150.7 | 150.9 | 151.2 |
| 177.5° | 150.0 | 149.5 | 149.4 | 149.8 | 149.8 | 149.8 | 150.0 | 150.5 | 150.0 | 149.8 | 150.0 |
| 180°   | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 |



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**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°  | 61.6  | 64.8  | 68.3  | 70.6  | 71.7  | 72.6  | 73.7  | 74.8  |
| 90°    | 64.7  | 67.4  | 71.3  | 73.7  | 74.7  | 75.7  | 76.6  | 77.6  |
| 92.5°  | 77.8  | 77.5  | 78.3  | 78.6  | 79.3  | 79.4  | 80.6  | 81.1  |
| 95°    | 124.3 | 109.9 | 100.9 | 96.6  | 93.8  | 92.5  | 92.7  | 93.9  |
| 97.5°  | 221.6 | 192.7 | 164.5 | 145.7 | 132.9 | 126.8 | 123.6 | 122.1 |
| 100°   | 306.1 | 273.5 | 237.0 | 204.2 | 181.2 | 169.7 | 162.2 | 157.9 |
| 102.5° | 360.9 | 355.8 | 329.9 | 294.9 | 269.8 | 249.6 | 240.0 | 233.9 |
| 105°   | 387.6 | 423.1 | 429.7 | 422.1 | 405.1 | 388.2 | 376.7 | 373.6 |
| 107.5° | 362.6 | 414.5 | 447.2 | 463.0 | 466.1 | 466.0 | 464.5 | 460.1 |
| 110°   | 342.0 | 396.2 | 435.7 | 461.1 | 474.3 | 480.8 | 484.2 | 484.9 |





TEST NUMBER: P331245-930

CATALOG NUMBER: S122DIP-S290D330U930-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 322.9 | 375.0 | 417.0 | 445.9 | 464.0 | 474.1 | 479.9 | 482.3 |
| 115°   | 298.8 | 345.6 | 385.9 | 417.2 | 438.5 | 452.7 | 461.1 | 464.6 |
| 117.5° | 279.9 | 321.3 | 358.0 | 387.4 | 409.1 | 424.0 | 432.7 | 435.7 |
| 120°   | 270.0 | 308.1 | 340.9 | 368.8 | 389.8 | 404.2 | 413.5 | 417.3 |
| 122.5° | 261.9 | 296.9 | 328.0 | 353.2 | 372.1 | 386.2 | 394.4 | 397.5 |
| 125°   | 249.8 | 281.7 | 309.2 | 332.3 | 349.8 | 361.5 | 369.4 | 372.5 |
| 127.5° | 237.8 | 266.8 | 292.7 | 314.0 | 329.3 | 340.3 | 347.2 | 349.8 |
| 130°   | 230.2 | 256.9 | 281.7 | 302.0 | 316.7 | 327.2 | 333.6 | 336.6 |
| 132.5° | 222.7 | 247.5 | 270.4 | 289.5 | 304.1 | 314.5 | 320.5 | 323.2 |
| 135°   | 212.4 | 233.1 | 253.8 | 271.2 | 284.2 | 294.4 | 300.2 | 302.0 |
| 137.5° | 203.6 | 221.0 | 237.7 | 252.7 | 264.6 | 273.3 | 278.4 | 280.7 |
| 140°   | 198.1 | 213.3 | 227.8 | 241.4 | 251.1 | 259.1 | 263.9 | 266.1 |
| 142.5° | 193.8 | 206.6 | 219.0 | 230.4 | 239.5 | 246.8 | 251.1 | 251.8 |
| 145°   | 187.9 | 198.0 | 207.3 | 216.1 | 223.5 | 228.8 | 232.1 | 233.3 |
| 147.5° | 183.6 | 191.1 | 198.2 | 204.4 | 210.3 | 214.4 | 216.5 | 217.3 |
| 150°   | 180.9 | 187.3 | 193.3 | 198.4 | 202.8 | 206.3 | 208.0 | 208.3 |
| 152.5° | 178.4 | 184.3 | 189.4 | 193.9 | 197.3 | 200.2 | 201.5 | 201.6 |
| 155°   | 174.9 | 179.4 | 183.8 | 186.9 | 190.1 | 192.2 | 193.3 | 192.7 |
| 157.5° | 170.8 | 174.6 | 178.2 | 180.8 | 183.0 | 184.7 | 185.2 | 185.2 |
| 160°   | 168.2 | 171.4 | 174.6 | 176.6 | 178.6 | 180.0 | 180.3 | 180.3 |
| 162.5° | 165.7 | 168.4 | 171.1 | 172.7 | 174.7 | 175.7 | 175.9 | 175.7 |
| 165°   | 161.9 | 163.9 | 165.9 | 167.1 | 168.2 | 169.4 | 169.4 | 169.1 |
| 167.5° | 158.2 | 159.8 | 161.2 | 162.2 | 162.7 | 163.4 | 163.3 | 163.0 |
| 170°   | 156.5 | 157.3 | 158.4 | 159.0 | 159.3 | 160.1 | 159.9 | 159.3 |
| 172.5° | 154.3 | 155.0 | 155.9 | 156.2 | 156.5 | 156.9 | 156.6 | 156.3 |
| 175°   | 152.1 | 152.4 | 152.7 | 153.0 | 153.0 | 153.3 | 153.0 | 152.4 |
| 177.5° | 150.5 | 150.5 | 150.7 | 150.7 | 150.7 | 150.7 | 150.5 | 150.0 |
| 180°   | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 | 149.8 |

(END OF REPORT)