

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: SURE-LITES

Report Number: P926693

Luminaire Tested: **APCH7RGSQ30**

Test Date: 2024-06-06

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P926693
 Test Lab: Cooper Lighting Solutions
 Test Date: 2024-06-06
 Issue Date: 6/6/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: SURE-LITES
 Catalog Number: APCH7RGSQ30
 Description: Combo Square Head
 Light Source: -
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 85.1 lumens
 Efficiency: N/A
 Efficacy: 77.4 lumens/watt
 Spacing Criteria (0/90/45): 0.3 / 0.84 / 0.42
 Luminous Opening: Circular (Dia: 0.16' x H: 0')
 CIE Type: Direct

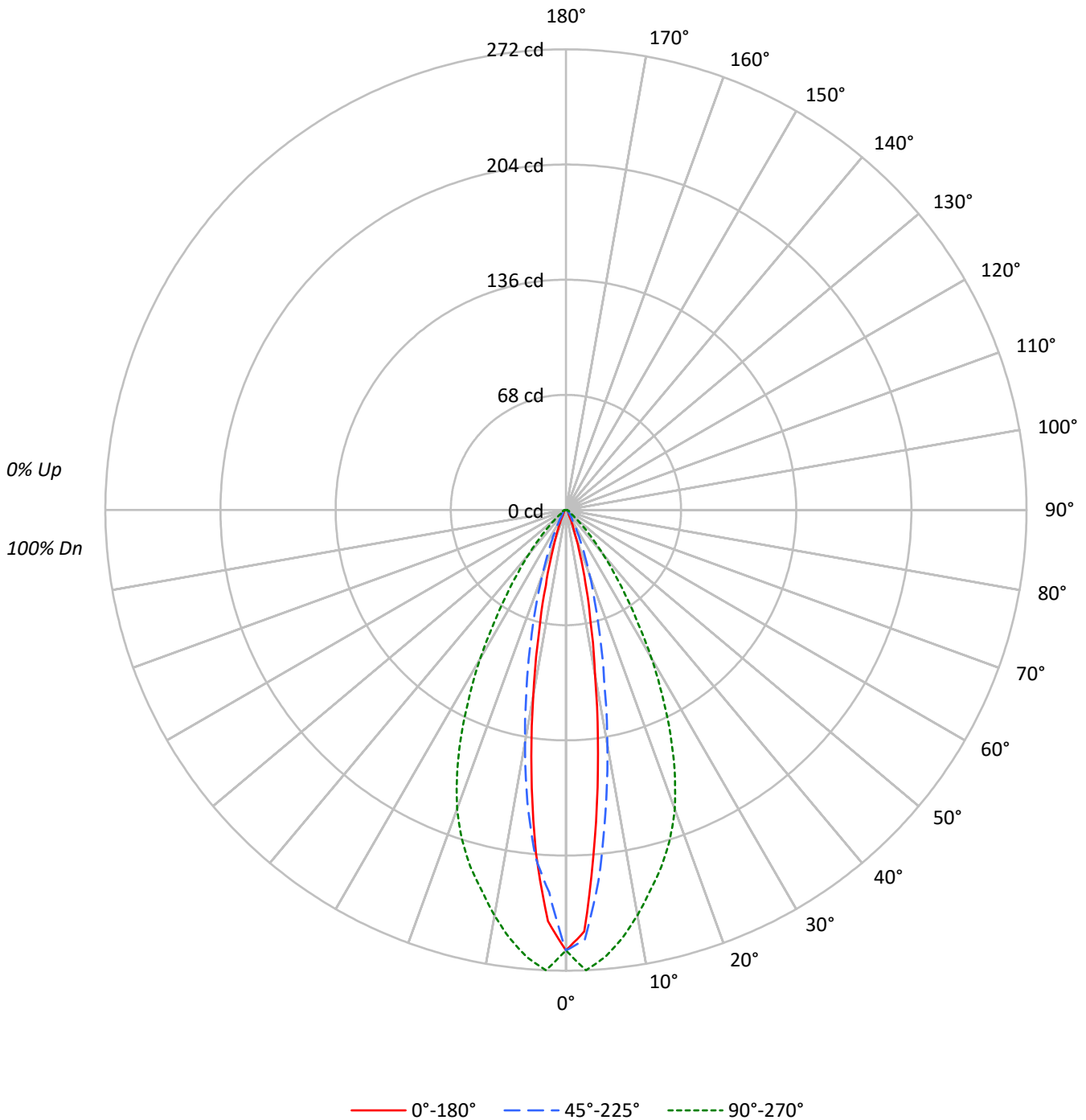
Input Watts (W): 1.1
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



| Meas | | Calibration Due Date | |
|------------------|-----------------------|----------------------|------------|
| Instrument | Identificatio | | |
| Photometer | GONIO 1 11111111 | 4/22/2021 | 10/22/2021 |
| Power Meter | XITRON 2801 IN0197 | 12/1/2020 | 12/1/2021 |
| AC Power Source | CHROMA 61505 IN0196 | 12/1/2020 | 12/1/2021 |
| DC Power Supply | AGILENT E3634A IN0198 | 11/30/2020 | 11/30/2021 |
| Room Thermometer | ONSET IN0143 | 12/1/2020 | 12/1/2021 |

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Luminous Intensity Polar Plot



TEST NUMBER: P926693
 CATALOG NUMBER: APCH7RGSQ30

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 98 | 97 | 96 | 94 | | |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | 94 | 92 | 90 | 89 | 89 | 83 | | |
| 2 | 109 | 104 | 100 | 97 | 107 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 | 89 | 87 | 85 | 83 | 83 | 79 | | |
| 3 | 104 | 98 | 93 | 90 | 102 | 97 | 92 | 89 | 94 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | 83 | 81 | 80 | 79 | 79 | 75 | | |
| 4 | 99 | 93 | 87 | 84 | 98 | 91 | 87 | 83 | 89 | 85 | 82 | 87 | 84 | 81 | 86 | 83 | 80 | 79 | 82 | 79 | 76 | 76 | 75 | 71 | | |
| 5 | 95 | 88 | 82 | 79 | 94 | 87 | 82 | 78 | 85 | 81 | 78 | 83 | 80 | 77 | 82 | 79 | 76 | 75 | 82 | 79 | 76 | 76 | 75 | 71 | | |
| 6 | 91 | 83 | 78 | 74 | 90 | 83 | 78 | 74 | 81 | 77 | 73 | 80 | 76 | 73 | 79 | 75 | 72 | 71 | 79 | 75 | 72 | 72 | 71 | 68 | | |
| 7 | 88 | 79 | 74 | 70 | 86 | 79 | 74 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 75 | 72 | 69 | 68 | 76 | 72 | 69 | 69 | 68 | 65 | | |
| 8 | 84 | 76 | 71 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 73 | 69 | 66 | 65 | 73 | 69 | 66 | 66 | 65 | 62 | | |
| 9 | 81 | 73 | 68 | 64 | 80 | 72 | 67 | 64 | 71 | 67 | 64 | 71 | 66 | 64 | 70 | 66 | 63 | 62 | 70 | 66 | 63 | 63 | 62 | 60 | | |
| 10 | 78 | 70 | 65 | 61 | 77 | 69 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 67 | 63 | 61 | 60 | 67 | 63 | 61 | 61 | 60 | 57 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 139336 | 139336 | 139336 |
| 5° | 104901 | 142558 | 109205 |
| 10° | 53873 | 132235 | 60404 |
| 15° | 24412 | 120949 | 25521 |
| 20° | 9695 | 107217 | 10265 |
| 25° | 4730 | 86331 | 4730 |
| 30° | 2475 | 62500 | 2475 |
| 35° | 1963 | 39908 | 1963 |
| 40° | 1399 | 23786 | 1399 |
| 45° | 1516 | 12884 | 1516 |
| 50° | 1667 | 5836 | 1667 |
| 55° | 1869 | 2803 | 1869 |
| 60° | 2144 | 3215 | 1072 |
| 65° | 1268 | 2536 | 1268 |
| 70° | 1567 | 3134 | 1567 |
| 75° | 2071 | 2071 | 0 |
| 80° | 0 | 3086 | 0 |
| 85° | 0 | 6149 | 0 |

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|-------------|--------------|
| 0°-10° | 19.1 | 22.4 |
| 10°-20° | 28.8 | 33.8 |
| 20°-30° | 19.8 | 23.2 |
| 30°-40° | 9.7 | 11.4 |
| 40°-50° | 4.0 | 4.7 |
| 50°-60° | 1.8 | 2.2 |
| 60°-70° | 1.2 | 1.4 |
| 70°-80° | 0.7 | 0.8 |
| 80°-90° | 0.1 | 0.1 |
| 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°-30° | 67.7 | 79.5 |
| 0°-40° | 77.3 | 90.8 |
| 0°-60° | 83.2 | 97.7 |
| 0°-90° | 85.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 85.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 260 | 260 | 260 | 260 | 260 | |
| 5° | 195 | 220 | 265 | 206 | 203 | 16 |
| 15° | 44 | 78 | 218 | 80 | 46 | 13 |
| 25° | 8 | 20 | 146 | 19 | 8 | 4 |
| 35° | 3 | 6 | 61 | 5 | 3 | 2 |
| 45° | 2 | 3 | 17 | 3 | 2 | 2 |
| 55° | 2 | 2 | 3 | 1 | 2 | 2 |
| 65° | 1 | 1 | 2 | 1 | 1 | 1 |
| 75° | 1 | 0 | 1 | 1 | 0 | 1 |
| 85° | 0 | 0 | 1 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 0° | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 |
| 2.5° | 249 | 247 | 247 | 241 | 245 | 244 | 250 | 242 | 252 | 252 | 254 |
| 5° | 195 | 195 | 196 | 194 | 199 | 198 | 205 | 201 | 210 | 215 | 220 |
| 7.5° | 145 | 141 | 144 | 141 | 147 | 147 | 154 | 152 | 164 | 170 | 179 |
| 10° | 99 | 98 | 100 | 101 | 105 | 107 | 110 | 112 | 122 | 131 | 141 |
| 12.5° | 67 | 66 | 66 | 67 | 72 | 73 | 77 | 80 | 89 | 97 | 105 |
| 15° | 44 | 44 | 45 | 46 | 49 | 50 | 53 | 55 | 62 | 70 | 78 |
| 17.5° | 28 | 27 | 29 | 29 | 32 | 33 | 35 | 37 | 44 | 50 | 56 |
| 20° | 17 | 17 | 18 | 18 | 21 | 22 | 23 | 25 | 30 | 35 | 41 |
| 22.5° | 11 | 11 | 11 | 12 | 13 | 14 | 15 | 17 | 20 | 24 | 29 |
| 25° | 8 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 14 | 16 | 20 |
| 27.5° | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 10 | 11 | 14 |
| 30° | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 7 | 8 | 10 |
| 32.5° | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 6 | 7 |
| 35° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 6 |
| 37.5° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 |
| 40° | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 42.5° | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 |
| 45° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 47.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 52.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 55° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 |
| 57.5° | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 |
| 60° | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 62.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 67.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 72.5° | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|
| 0° | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 |
| 2.5° | 256 | 262 | 259 | 266 | 262 | 261 | 267 | 269 | 269 | 272 | 266 |
| 5° | 225 | 235 | 237 | 247 | 246 | 246 | 255 | 259 | 261 | 265 | 260 |
| 7.5° | 189 | 199 | 207 | 222 | 222 | 226 | 238 | 245 | 249 | 255 | 250 |
| 10° | 151 | 165 | 176 | 194 | 196 | 202 | 219 | 229 | 237 | 243 | 238 |
| 12.5° | 117 | 131 | 145 | 165 | 170 | 178 | 198 | 213 | 224 | 230 | 225 |
| 15° | 89 | 104 | 117 | 139 | 144 | 153 | 177 | 195 | 209 | 218 | 213 |
| 17.5° | 66 | 79 | 92 | 113 | 121 | 131 | 155 | 177 | 193 | 204 | 198 |
| 20° | 49 | 60 | 72 | 91 | 99 | 109 | 134 | 158 | 176 | 188 | 181 |
| 22.5° | 35 | 45 | 55 | 72 | 79 | 88 | 112 | 136 | 156 | 168 | 160 |
| 25° | 26 | 33 | 41 | 55 | 62 | 70 | 91 | 114 | 135 | 146 | 139 |
| 27.5° | 18 | 24 | 31 | 42 | 47 | 55 | 73 | 92 | 112 | 123 | 117 |
| 30° | 13 | 17 | 22 | 31 | 36 | 41 | 56 | 74 | 91 | 101 | 95 |
| 32.5° | 9 | 12 | 17 | 23 | 27 | 31 | 43 | 57 | 71 | 79 | 75 |
| 35° | 7 | 9 | 12 | 17 | 20 | 23 | 32 | 43 | 54 | 61 | 56 |
| 37.5° | 5 | 7 | 9 | 13 | 14 | 17 | 24 | 32 | 41 | 46 | 43 |
| 40° | 4 | 5 | 7 | 9 | 11 | 13 | 18 | 24 | 30 | 34 | 31 |
| 42.5° | 4 | 4 | 5 | 7 | 8 | 9 | 13 | 17 | 21 | 24 | 22 |
| 45° | 3 | 3 | 4 | 6 | 6 | 7 | 9 | 12 | 15 | 17 | 15 |
| 47.5° | 3 | 3 | 3 | 4 | 5 | 5 | 7 | 8 | 10 | 11 | 10 |
| 50° | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 6 | 7 | 7 | 7 |
| 52.5° | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 4 |
| 55° | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 57.5° | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 |
| 60° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 |
| 62.5° | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| 67.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| 70° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 |
| 72.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|------|------|------|--------|------|------|------|------|------|------|------|
| 0° | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 |
| 2.5° | 272 | 262 | 245 | 255 | 255 | 233 | 248 | 238 | 226 | 231 | 236 |
| 5° | 265 | 255 | 235 | 244 | 243 | 220 | 231 | 219 | 206 | 207 | 209 |
| 7.5° | 254 | 241 | 221 | 226 | 223 | 198 | 204 | 190 | 174 | 171 | 168 |
| 10° | 240 | 224 | 202 | 205 | 200 | 172 | 172 | 155 | 139 | 133 | 128 |
| 12.5° | 225 | 206 | 181 | 181 | 173 | 146 | 141 | 122 | 107 | 99 | 94 |
| 15° | 209 | 188 | 159 | 157 | 148 | 119 | 112 | 94 | 80 | 73 | 65 |
| 17.5° | 191 | 167 | 137 | 133 | 123 | 96 | 86 | 71 | 58 | 50 | 44 |
| 20° | 172 | 146 | 114 | 110 | 100 | 75 | 65 | 51 | 40 | 34 | 30 |
| 22.5° | 150 | 123 | 94 | 89 | 78 | 57 | 47 | 36 | 28 | 23 | 20 |
| 25° | 126 | 101 | 75 | 69 | 60 | 42 | 34 | 25 | 19 | 16 | 13 |
| 27.5° | 104 | 81 | 59 | 53 | 45 | 31 | 24 | 18 | 13 | 11 | 10 |
| 30° | 82 | 62 | 44 | 40 | 34 | 22 | 17 | 12 | 9 | 8 | 7 |
| 32.5° | 64 | 48 | 33 | 30 | 24 | 16 | 12 | 9 | 7 | 6 | 5 |
| 35° | 48 | 36 | 24 | 21 | 17 | 11 | 9 | 7 | 5 | 5 | 4 |
| 37.5° | 36 | 26 | 18 | 15 | 13 | 8 | 7 | 6 | 4 | 4 | 3 |
| 40° | 26 | 19 | 13 | 11 | 9 | 6 | 5 | 4 | 4 | 3 | 3 |
| 42.5° | 18 | 14 | 9 | 8 | 7 | 5 | 4 | 3 | 3 | 3 | 3 |
| 45° | 13 | 10 | 7 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 2 |
| 47.5° | 9 | 7 | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 2 |
| 50° | 6 | 5 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| 52.5° | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| 55° | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 |
| 57.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 |
| 60° | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 62.5° | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 65° | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 67.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 72.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| 77.5° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 80° | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|------|------|--------|------|------|------|------|------|
| 0° | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 |
| 2.5° | 232 | 243 | 238 | 233 | 249 | 230 | 219 | 243 |
| 5° | 203 | 210 | 204 | 200 | 212 | 194 | 183 | 203 |
| 7.5° | 161 | 163 | 159 | 154 | 160 | 147 | 139 | 156 |
| 10° | 120 | 121 | 116 | 112 | 116 | 104 | 100 | 111 |
| 12.5° | 86 | 85 | 81 | 77 | 78 | 70 | 65 | 73 |
| 15° | 58 | 56 | 52 | 50 | 51 | 44 | 42 | 46 |
| 17.5° | 38 | 36 | 34 | 32 | 32 | 28 | 26 | 28 |
| 20° | 25 | 23 | 22 | 20 | 20 | 18 | 16 | 18 |
| 22.5° | 17 | 16 | 14 | 13 | 13 | 12 | 11 | 12 |
| 25° | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 8 |
| 27.5° | 8 | 8 | 7 | 6 | 6 | 6 | 5 | 6 |
| 30° | 6 | 5 | 5 | 5 | 5 | 4 | 4 | 4 |
| 32.5° | 5 | 4 | 4 | 4 | 4 | 3 | 3 | 3 |
| 35° | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| 37.5° | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 40° | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 42.5° | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| 45° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 47.5° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 52.5° | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| 55° | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| 57.5° | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 |
| 60° | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| 62.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 67.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 72.5° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)