

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P731739

Luminaire Tested: **NHRS50U33BZ730-VS_50**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731739
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50U33BZ730-VS_50
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 3 AT 3000K WITH VISOR @ 50% output
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

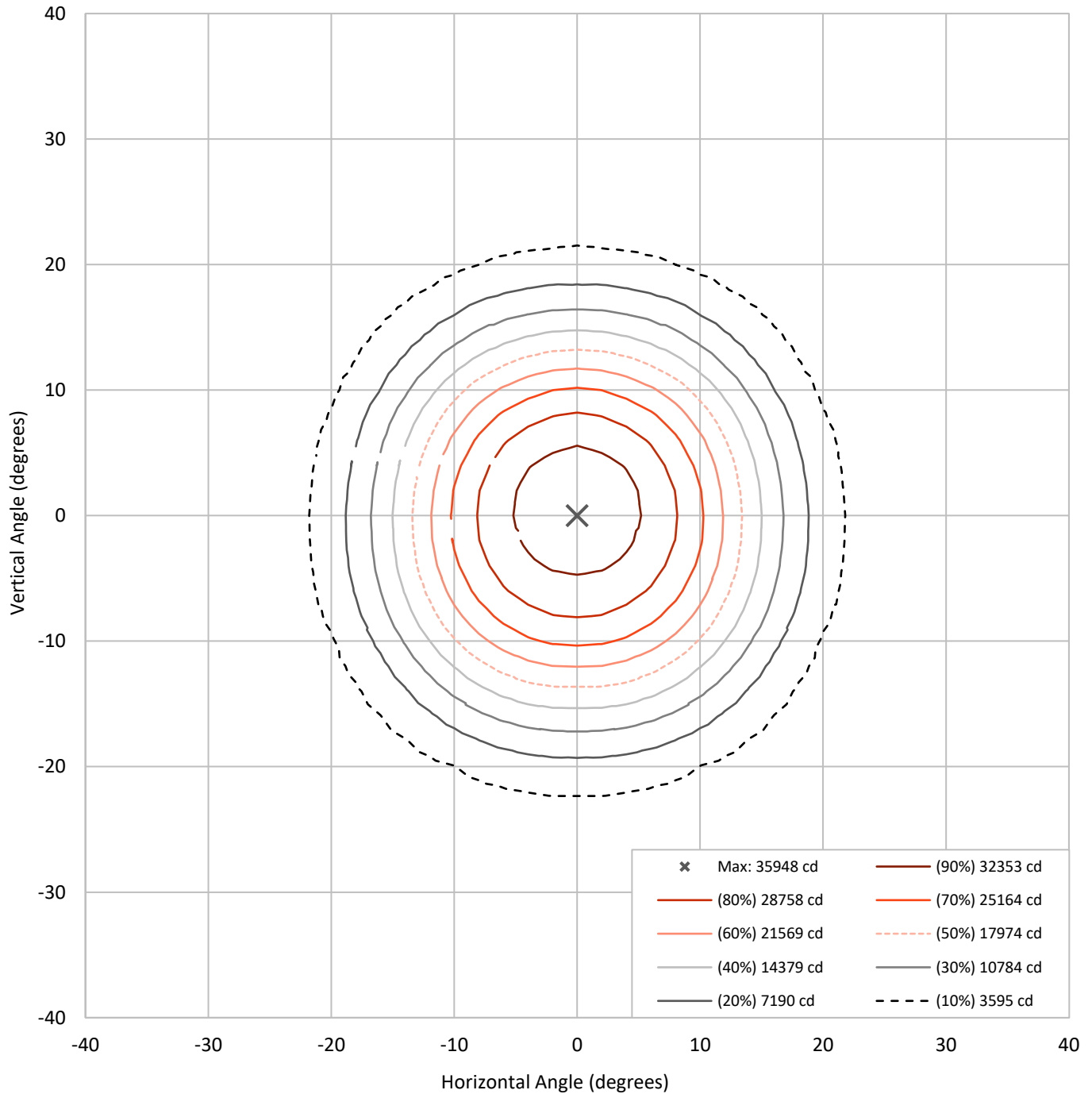
Summary

| | | | |
|-----------------------------------|--|----------------------|-----------------|
| Lumens per Lamp: | N/A | NEMA Type: | 3H x 3V |
| Luminaire Lumens: | 9196.7 lumens | Max Intensity: | 35948 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 0°V |
| Efficacy: | 119.3 lumens/watt | | |
| Luminous Opening: | Rectangular (W 1.25' x L: 0.46' x H: 0') | | |
| Beam Angle (50%): | 26.8°H x 26.9°V | Field Angle (10%): | 43.6°H x 43.7°V |
| Beam Lumens: | 4472.8 lumens | Field Lumens: | 7241.5 lumens |
| Beam Efficiency: | 48.6% | Field Efficiency: | 78.7% |
| Input Watts (W): | 77.1 | | |
| Input Voltage (V): | 120 | | |
| Input Current (A _{in}): | 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: | 28.75 FT | | |



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Iso-Candela Plot





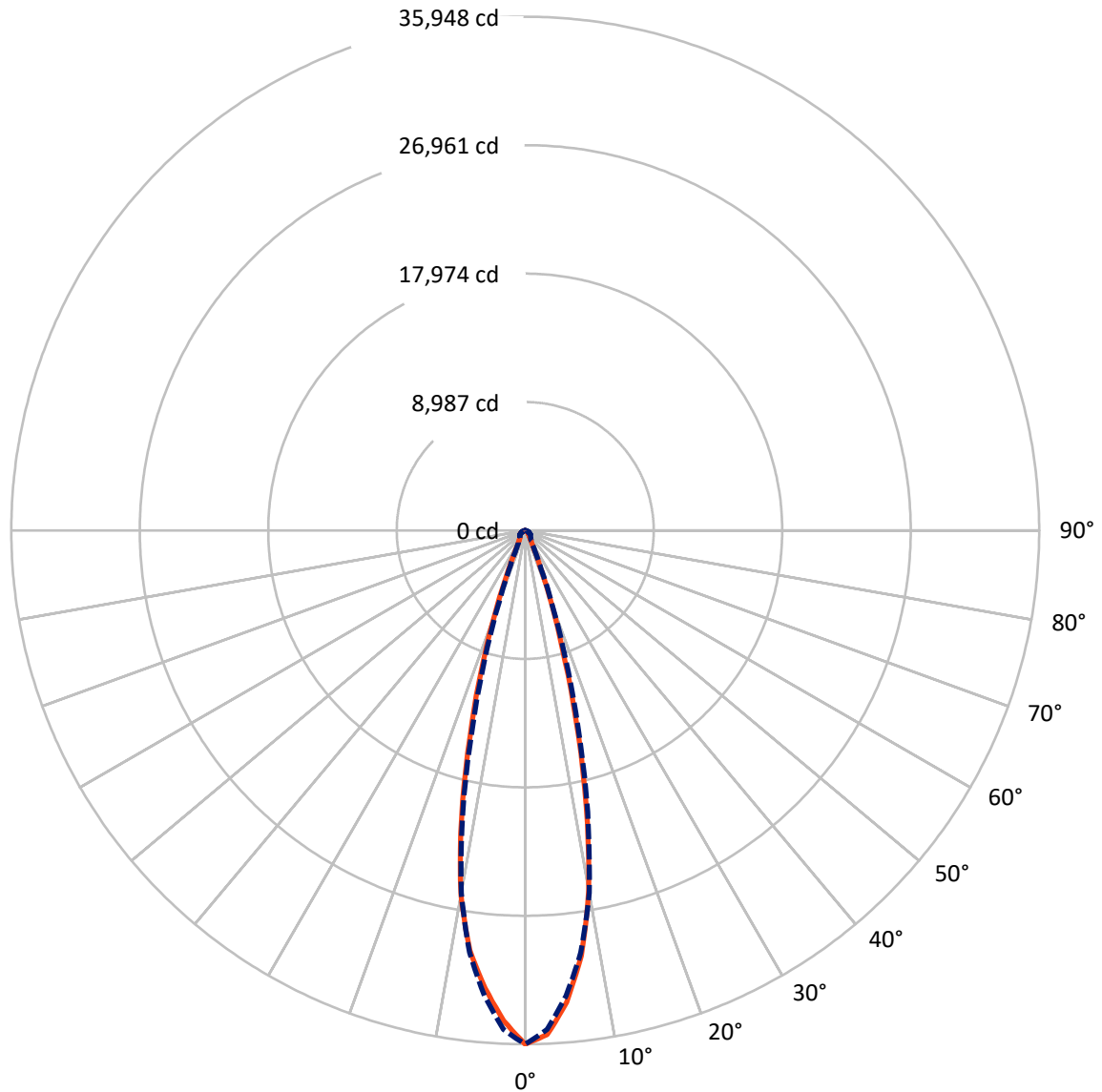
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 CATALOG NUMBER: NHRS50U33BZ730-VS_50

Lumen Table

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|------|------|------|-------|-------|-------|-------|------|------|------|-----|-----|-----|----|----|----|
| 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| 70 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | | | |
| 60 | | 0.2 | 0.5 | 0.9 | 1.2 | 1.6 | 2.0 | 2.1 | 2.1 | 2.0 | 1.6 | 1.2 | 0.9 | 0.5 | 0.2 | | | | |
| 50 | 0.6 | 0.8 | 1.9 | 3.3 | 5.0 | 6.5 | 7.6 | 8.2 | 8.2 | 7.6 | 6.5 | 5.0 | 3.3 | 1.9 | 0.8 | 0.6 | | | |
| 40 | | 1.6 | 3.7 | 6.5 | 9.4 | 11.8 | 13.9 | 15.7 | 15.7 | 13.9 | 11.8 | 9.4 | 6.5 | 3.7 | 1.6 | | | | |
| 30 | 1.4 | 2.3 | 5.3 | 9.1 | 12.6 | 17.5 | 29.7 | 52.8 | 52.8 | 29.7 | 17.5 | 12.6 | 9.1 | 5.3 | 2.3 | 1.4 | | | |
| 20 | | 2.9 | 6.4 | 10.7 | 15.1 | 29.9 | 144.2 | 377.6 | 377.6 | 144.2 | 29.9 | 15.1 | 10.7 | 6.4 | 2.9 | | | | |
| 10 | 1.9 | 3.2 | 7.1 | 11.5 | 16.7 | 53.6 | 377.3 | 876.0 | 876.0 | 377.3 | 53.6 | 16.7 | 11.5 | 7.1 | 3.2 | 1.9 | | | |
| 0 | | 3.3 | 7.3 | 11.7 | 16.8 | 55.3 | 389.0 | 875.6 | 875.6 | 389.0 | 55.3 | 16.8 | 11.7 | 7.3 | 3.3 | | | | |
| -10 | 1.9 | 3.2 | 7.1 | 11.4 | 15.6 | 31.5 | 163.3 | 415.4 | 415.4 | 163.3 | 31.5 | 15.6 | 11.4 | 7.1 | 3.2 | 1.9 | | | |
| -20 | | 3.0 | 6.5 | 10.8 | 14.3 | 19.5 | 34.6 | 66.3 | 66.3 | 34.6 | 19.5 | 14.3 | 10.8 | 6.5 | 3.0 | | | | |
| -30 | 1.4 | 2.7 | 5.8 | 9.7 | 13.2 | 15.8 | 18.5 | 20.9 | 20.9 | 18.5 | 15.8 | 13.2 | 9.7 | 5.8 | 2.7 | 1.4 | | | |
| -40 | | 2.2 | 4.8 | 8.0 | 11.3 | 13.8 | 15.5 | 16.5 | 16.5 | 15.5 | 13.8 | 11.3 | 8.0 | 4.8 | 2.2 | | | | |
| -50 | 0.7 | 1.6 | 3.6 | 5.8 | 8.3 | 10.4 | 11.9 | 12.8 | 12.8 | 11.9 | 10.4 | 8.3 | 5.8 | 3.6 | 1.6 | 0.7 | | | |
| -60 | | 1.0 | 2.2 | 3.6 | 5.2 | 6.5 | 7.4 | 7.8 | 7.8 | 7.4 | 6.5 | 5.2 | 3.6 | 2.2 | 1.0 | | | | |
| -70 | 0.1 | 1.3 | 4.1 | 6.6 | 7.4 | 6.6 | 4.1 | 1.3 | 0.1 | 1.3 | 4.1 | 6.6 | 7.4 | 6.6 | 4.1 | 0.1 | | | |
| -80 | | 1.3 | 4.1 | 6.6 | 7.4 | 6.6 | 4.1 | 1.3 | 0.1 | 1.3 | 4.1 | 6.6 | 7.4 | 6.6 | 4.1 | | | | |
| -90 | 0.1 | 1.3 | 4.1 | 6.6 | 7.4 | 6.6 | 4.1 | 1.3 | 0.1 | 1.3 | 4.1 | 6.6 | 7.4 | 6.6 | 4.1 | 0.1 | | | |
| | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |

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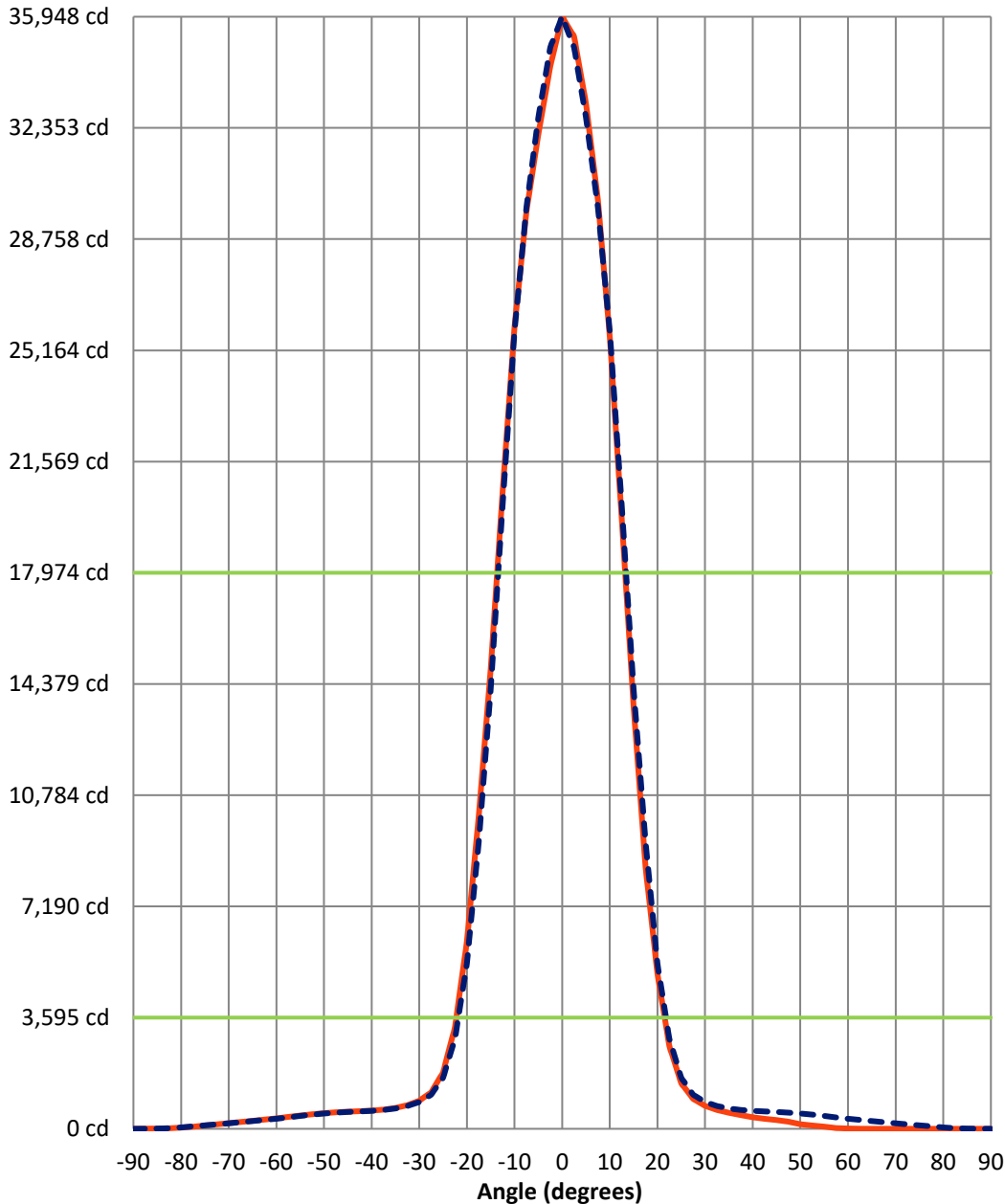
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
H Angle: 26.8°
V Angle: 26.9°
Lumens: 4472.8
Efficiency: 48.6%

Field:
H Angle: 43.6°
V Angle: 43.7°
Lumens: 7241.5
Efficiency: 78.7%

Spill:
Lumens: 1955.3
Efficiency: 21.3%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



REPORT NUMBER: P731739
 CATALOG NUMBER: NHRS50U33BZ730-VS_50

FIELD
 BEAM

CANDELA DISTRIBUTION:

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 82.5° | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 80° | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 77.5° | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 72.5° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 67.5° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |
| 65° | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 62.5° | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 2 | 3 | 4 | 4 |
| 60° | 0 | 1 | 1 | 2 | 2 | 4 | 4 | 4 | 4 | 6 | 6 |
| 57.5° | 0 | 1 | 1 | 2 | 3 | 5 | 5 | 5 | 7 | 9 | 11 |
| 55° | 0 | 1 | 1 | 2 | 4 | 6 | 7 | 7 | 10 | 13 | 16 |
| 52.5° | 0 | 1 | 1 | 2 | 5 | 7 | 10 | 11 | 14 | 20 | 23 |
| 50° | 0 | 1 | 2 | 2 | 6 | 9 | 12 | 15 | 19 | 27 | 34 |
| 47.5° | 0 | 1 | 2 | 3 | 7 | 12 | 15 | 21 | 26 | 35 | 46 |
| 45° | 0 | 1 | 2 | 4 | 9 | 14 | 20 | 26 | 35 | 46 | 59 |
| 42.5° | 0 | 1 | 2 | 4 | 10 | 16 | 25 | 33 | 43 | 58 | 75 |
| 40° | 0 | 1 | 3 | 5 | 11 | 19 | 30 | 41 | 53 | 71 | 92 |
| 37.5° | 0 | 1 | 3 | 6 | 13 | 22 | 36 | 48 | 64 | 84 | 109 |
| 35° | 0 | 1 | 3 | 7 | 15 | 26 | 41 | 56 | 76 | 99 | 125 |
| 32.5° | 0 | 1 | 3 | 9 | 18 | 30 | 47 | 64 | 87 | 113 | 139 |
| 30° | 0 | 1 | 4 | 10 | 20 | 35 | 53 | 72 | 98 | 126 | 152 |
| 27.5° | 0 | 1 | 4 | 11 | 22 | 39 | 59 | 81 | 108 | 138 | 165 |
| 25° | 0 | 1 | 4 | 12 | 24 | 44 | 66 | 90 | 119 | 149 | 177 |
| 22.5° | 0 | 1 | 4 | 12 | 27 | 48 | 72 | 98 | 129 | 160 | 188 |
| 20° | 0 | 1 | 5 | 13 | 29 | 52 | 78 | 106 | 138 | 169 | 198 |
| 17.5° | 0 | 1 | 5 | 14 | 31 | 56 | 83 | 114 | 147 | 178 | 209 |
| 15° | 0 | 1 | 5 | 15 | 33 | 61 | 88 | 121 | 155 | 187 | 218 |
| 12.5° | 0 | 1 | 5 | 16 | 35 | 64 | 92 | 126 | 161 | 195 | 227 |
| 10° | 0 | 1 | 6 | 16 | 37 | 68 | 97 | 131 | 166 | 201 | 234 |
| 7.5° | 0 | 1 | 6 | 18 | 40 | 71 | 101 | 135 | 170 | 205 | 239 |
| 5° | 0 | 1 | 6 | 18 | 41 | 75 | 106 | 139 | 174 | 210 | 244 |
| 2.5° | 0 | 1 | 6 | 19 | 42 | 78 | 109 | 141 | 176 | 212 | 248 |
| 0° | 0 | 1 | 6 | 19 | 44 | 80 | 111 | 143 | 178 | 214 | 250 |
| -2.5° | 0 | 1 | 6 | 20 | 45 | 81 | 113 | 144 | 179 | 216 | 253 |
| -5° | 0 | 1 | 7 | 20 | 46 | 83 | 114 | 145 | 180 | 218 | 253 |
| -7.5° | 0 | 1 | 7 | 21 | 47 | 83 | 114 | 145 | 179 | 217 | 254 |
| -10° | 0 | 1 | 7 | 20 | 46 | 83 | 114 | 145 | 179 | 217 | 253 |
| -12.5° | 0 | 1 | 7 | 20 | 46 | 83 | 114 | 144 | 178 | 215 | 252 |
| -15° | 0 | 1 | 7 | 20 | 46 | 82 | 114 | 143 | 177 | 213 | 249 |
| -17.5° | 0 | 1 | 7 | 20 | 46 | 81 | 113 | 142 | 175 | 211 | 247 |
| -20° | 0 | 1 | 7 | 20 | 45 | 80 | 111 | 140 | 172 | 207 | 243 |



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CANDELA DISTRIBUTION (continued):

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| -22.5° | 0 | 1 | 7 | 20 | 44 | 78 | 109 | 137 | 169 | 203 | 239 |
| -25° | 0 | 1 | 6 | 19 | 43 | 76 | 107 | 135 | 165 | 198 | 234 |
| -27.5° | 0 | 1 | 6 | 19 | 41 | 73 | 104 | 131 | 161 | 194 | 228 |
| -30° | 0 | 1 | 6 | 18 | 39 | 69 | 101 | 127 | 157 | 188 | 222 |
| -32.5° | 0 | 1 | 6 | 18 | 37 | 65 | 98 | 123 | 152 | 183 | 214 |
| -35° | 0 | 1 | 6 | 16 | 35 | 62 | 93 | 119 | 146 | 176 | 207 |
| -37.5° | 0 | 1 | 6 | 15 | 32 | 57 | 88 | 114 | 140 | 169 | 198 |
| -40° | 0 | 1 | 5 | 14 | 29 | 54 | 82 | 109 | 134 | 162 | 190 |
| -42.5° | 0 | 1 | 5 | 13 | 27 | 50 | 76 | 104 | 127 | 153 | 180 |
| -45° | 0 | 1 | 5 | 12 | 26 | 46 | 71 | 98 | 120 | 144 | 170 |
| -47.5° | 0 | 1 | 4 | 10 | 23 | 42 | 64 | 90 | 114 | 135 | 159 |
| -50° | 0 | 1 | 4 | 9 | 21 | 37 | 59 | 83 | 106 | 125 | 148 |
| -52.5° | 0 | 1 | 3 | 9 | 19 | 33 | 53 | 75 | 97 | 116 | 137 |
| -55° | 0 | 1 | 3 | 8 | 16 | 29 | 47 | 68 | 87 | 106 | 125 |
| -57.5° | 0 | 1 | 3 | 7 | 14 | 26 | 41 | 59 | 78 | 96 | 113 |
| -60° | 0 | 1 | 2 | 6 | 11 | 22 | 36 | 52 | 67 | 84 | 101 |
| -62.5° | 0 | 1 | 2 | 5 | 10 | 18 | 30 | 44 | 58 | 73 | 88 |
| -65° | 0 | 1 | 2 | 4 | 9 | 14 | 25 | 36 | 47 | 61 | 75 |
| -67.5° | 0 | 1 | 2 | 3 | 7 | 11 | 19 | 29 | 37 | 49 | 62 |
| -70° | 0 | 1 | 2 | 3 | 5 | 9 | 14 | 22 | 29 | 36 | 47 |
| -72.5° | 0 | 1 | 1 | 2 | 4 | 7 | 11 | 15 | 21 | 28 | 33 |
| -75° | 0 | 1 | 1 | 2 | 3 | 5 | 9 | 11 | 13 | 19 | 23 |
| -77.5° | 0 | 1 | 1 | 2 | 2 | 3 | 6 | 8 | 10 | 11 | 14 |
| -80° | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 5 | 6 | 7 | 9 |
| -82.5° | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 |
| -85° | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| -87.5° | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 82.5° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 80° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 70° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| 65° | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| 62.5° | 2 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 4 |
| 60° | 5 | 5 | 7 | 9 | 7 | 8 | 9 | 11 | 10 | 8 | 11 |
| 57.5° | 10 | 11 | 15 | 17 | 18 | 15 | 19 | 20 | 22 | 21 | 23 |
| 55° | 16 | 19 | 25 | 30 | 30 | 30 | 33 | 38 | 40 | 40 | 40 |
| 52.5° | 28 | 31 | 39 | 45 | 47 | 49 | 54 | 61 | 64 | 64 | 67 |
| 50° | 40 | 48 | 56 | 62 | 67 | 73 | 80 | 89 | 93 | 96 | 102 |
| 47.5° | 56 | 66 | 73 | 82 | 91 | 101 | 111 | 119 | 125 | 136 | 151 |
| 45° | 74 | 85 | 93 | 104 | 117 | 133 | 144 | 151 | 162 | 177 | 192 |
| 42.5° | 93 | 104 | 115 | 127 | 149 | 165 | 176 | 185 | 200 | 223 | 236 |
| 40° | 109 | 123 | 136 | 157 | 180 | 195 | 209 | 222 | 248 | 268 | 281 |
| 37.5° | 127 | 142 | 159 | 186 | 209 | 226 | 244 | 265 | 291 | 314 | 325 |
| 35° | 144 | 161 | 184 | 211 | 236 | 258 | 279 | 303 | 328 | 351 | 367 |
| 32.5° | 161 | 181 | 209 | 235 | 262 | 289 | 311 | 336 | 362 | 385 | 402 |
| 30° | 177 | 201 | 230 | 258 | 288 | 315 | 340 | 367 | 396 | 417 | 432 |
| 27.5° | 191 | 221 | 251 | 281 | 312 | 340 | 367 | 398 | 426 | 446 | 461 |
| 25° | 204 | 237 | 271 | 303 | 335 | 365 | 395 | 428 | 453 | 473 | 488 |
| 22.5° | 217 | 251 | 286 | 324 | 358 | 389 | 421 | 451 | 476 | 498 | 513 |
| 20° | 229 | 264 | 300 | 340 | 378 | 412 | 444 | 473 | 495 | 515 | 534 |
| 17.5° | 240 | 275 | 313 | 353 | 393 | 431 | 464 | 494 | 512 | 529 | 548 |
| 15° | 251 | 286 | 324 | 366 | 406 | 445 | 479 | 507 | 524 | 541 | 560 |
| 12.5° | 261 | 296 | 335 | 377 | 419 | 457 | 490 | 515 | 533 | 551 | 575 |
| 10° | 269 | 304 | 344 | 387 | 429 | 468 | 499 | 522 | 541 | 559 | 586 |
| 7.5° | 275 | 310 | 352 | 395 | 439 | 478 | 507 | 529 | 547 | 566 | 595 |
| 5° | 280 | 316 | 358 | 404 | 447 | 486 | 513 | 534 | 552 | 572 | 602 |
| 2.5° | 285 | 322 | 364 | 412 | 454 | 491 | 518 | 541 | 557 | 577 | 607 |
| 0° | 288 | 325 | 367 | 417 | 458 | 495 | 522 | 545 | 561 | 580 | 609 |
| -2.5° | 290 | 328 | 370 | 418 | 460 | 496 | 525 | 546 | 562 | 580 | 609 |
| -5° | 290 | 329 | 371 | 417 | 460 | 495 | 525 | 546 | 561 | 578 | 606 |
| -7.5° | 289 | 329 | 371 | 415 | 457 | 493 | 523 | 544 | 559 | 576 | 602 |
| -10° | 288 | 327 | 369 | 412 | 454 | 490 | 519 | 541 | 557 | 573 | 596 |
| -12.5° | 287 | 325 | 366 | 408 | 450 | 486 | 515 | 538 | 554 | 568 | 589 |
| -15° | 284 | 321 | 361 | 402 | 444 | 481 | 509 | 533 | 551 | 564 | 580 |
| -17.5° | 281 | 316 | 354 | 395 | 437 | 475 | 504 | 529 | 547 | 560 | 575 |
| -20° | 278 | 311 | 348 | 387 | 428 | 467 | 498 | 522 | 541 | 556 | 569 |



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CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| -22.5° | 273 | 305 | 340 | 378 | 419 | 457 | 490 | 516 | 535 | 551 | 562 |
| -25° | 269 | 300 | 333 | 370 | 409 | 446 | 480 | 508 | 529 | 544 | 557 |
| -27.5° | 262 | 293 | 325 | 360 | 397 | 435 | 469 | 497 | 519 | 536 | 550 |
| -30° | 255 | 287 | 317 | 350 | 386 | 421 | 455 | 484 | 509 | 527 | 542 |
| -32.5° | 247 | 279 | 308 | 339 | 373 | 408 | 440 | 469 | 495 | 515 | 532 |
| -35° | 238 | 269 | 298 | 328 | 361 | 393 | 423 | 453 | 479 | 501 | 519 |
| -37.5° | 229 | 259 | 288 | 316 | 346 | 375 | 407 | 434 | 461 | 486 | 503 |
| -40° | 219 | 248 | 276 | 304 | 330 | 358 | 386 | 414 | 440 | 464 | 487 |
| -42.5° | 210 | 237 | 264 | 290 | 314 | 340 | 366 | 393 | 418 | 441 | 463 |
| -45° | 197 | 224 | 252 | 275 | 297 | 321 | 345 | 370 | 393 | 415 | 437 |
| -47.5° | 184 | 211 | 237 | 259 | 280 | 301 | 324 | 346 | 368 | 389 | 410 |
| -50° | 171 | 196 | 221 | 241 | 262 | 282 | 302 | 321 | 341 | 361 | 380 |
| -52.5° | 158 | 180 | 203 | 223 | 242 | 261 | 280 | 297 | 314 | 331 | 349 |
| -55° | 144 | 165 | 184 | 204 | 222 | 239 | 255 | 272 | 287 | 302 | 317 |
| -57.5° | 131 | 149 | 167 | 184 | 201 | 217 | 231 | 246 | 260 | 273 | 287 |
| -60° | 117 | 133 | 149 | 165 | 180 | 194 | 207 | 220 | 232 | 245 | 257 |
| -62.5° | 103 | 117 | 131 | 145 | 159 | 172 | 183 | 194 | 206 | 216 | 228 |
| -65° | 89 | 101 | 115 | 127 | 140 | 149 | 159 | 169 | 178 | 188 | 197 |
| -67.5° | 74 | 85 | 97 | 109 | 119 | 127 | 136 | 144 | 152 | 160 | 168 |
| -70° | 58 | 67 | 77 | 88 | 98 | 106 | 113 | 119 | 126 | 133 | 140 |
| -72.5° | 41 | 50 | 58 | 66 | 74 | 81 | 88 | 94 | 99 | 106 | 111 |
| -75° | 29 | 34 | 40 | 46 | 52 | 57 | 63 | 68 | 73 | 78 | 82 |
| -77.5° | 18 | 22 | 26 | 29 | 32 | 36 | 40 | 44 | 47 | 50 | 52 |
| -80° | 10 | 11 | 14 | 17 | 19 | 21 | 22 | 23 | 24 | 27 | 29 |
| -82.5° | 6 | 7 | 8 | 9 | 9 | 10 | 10 | 11 | 12 | 13 | 14 |
| -85° | 3 | 4 | 4 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| -87.5° | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: NHRS50U33BZ730-VS_50

CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 62.5° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 |
| 60° | 11 | 9 | 9 | 10 | 10 | 9 | 10 | 10 | 10 | 10 | 10 |
| 57.5° | 24 | 22 | 21 | 24 | 25 | 22 | 23 | 28 | 29 | 29 | 28 |
| 55° | 43 | 46 | 46 | 49 | 52 | 55 | 58 | 61 | 62 | 63 | 65 |
| 52.5° | 73 | 78 | 78 | 81 | 90 | 93 | 92 | 98 | 100 | 100 | 101 |
| 50° | 114 | 119 | 125 | 132 | 138 | 141 | 142 | 146 | 150 | 150 | 151 |
| 47.5° | 158 | 167 | 175 | 184 | 191 | 196 | 203 | 209 | 210 | 212 | 216 |
| 45° | 201 | 210 | 222 | 231 | 239 | 246 | 252 | 258 | 262 | 266 | 270 |
| 42.5° | 242 | 256 | 271 | 278 | 279 | 290 | 299 | 302 | 308 | 311 | 312 |
| 40° | 292 | 308 | 321 | 327 | 333 | 344 | 349 | 350 | 353 | 360 | 362 |
| 37.5° | 341 | 358 | 371 | 379 | 386 | 395 | 400 | 406 | 415 | 420 | 425 |
| 35° | 383 | 399 | 415 | 421 | 430 | 440 | 449 | 460 | 471 | 482 | 491 |
| 32.5° | 417 | 432 | 445 | 455 | 466 | 481 | 495 | 514 | 530 | 548 | 568 |
| 30° | 445 | 461 | 475 | 488 | 505 | 527 | 552 | 582 | 612 | 639 | 672 |
| 27.5° | 474 | 490 | 508 | 527 | 554 | 586 | 631 | 673 | 725 | 764 | 830 |
| 25° | 503 | 521 | 545 | 576 | 614 | 669 | 732 | 798 | 892 | 977 | 1121 |
| 22.5° | 530 | 553 | 586 | 628 | 689 | 767 | 860 | 988 | 1178 | 1410 | 1712 |
| 20° | 554 | 584 | 627 | 690 | 770 | 874 | 1036 | 1311 | 1659 | 2265 | 2873 |
| 17.5° | 576 | 617 | 671 | 746 | 849 | 1018 | 1323 | 1807 | 2583 | 3822 | 5133 |
| 15° | 593 | 642 | 712 | 809 | 958 | 1224 | 1690 | 2589 | 4203 | 6192 | 8518 |
| 12.5° | 612 | 667 | 747 | 860 | 1059 | 1479 | 2330 | 3851 | 6200 | 9336 | 12481 |
| 10° | 628 | 691 | 785 | 936 | 1227 | 1833 | 3021 | 5232 | 8606 | 12688 | 16629 |
| 7.5° | 640 | 709 | 816 | 999 | 1391 | 2258 | 3971 | 6895 | 10957 | 15662 | 20483 |
| 5° | 648 | 722 | 839 | 1056 | 1526 | 2578 | 4672 | 8177 | 12786 | 18127 | 23603 |
| 2.5° | 655 | 734 | 860 | 1097 | 1616 | 2778 | 5120 | 8948 | 13840 | 19605 | 25245 |
| 0° | 657 | 737 | 865 | 1104 | 1653 | 2912 | 5344 | 9294 | 14213 | 20161 | 25765 |
| -2.5° | 657 | 734 | 867 | 1108 | 1617 | 2859 | 5267 | 9178 | 13963 | 19962 | 25456 |
| -5° | 652 | 725 | 847 | 1071 | 1553 | 2669 | 4957 | 8609 | 13175 | 18692 | 23899 |
| -7.5° | 645 | 714 | 824 | 1017 | 1435 | 2370 | 4278 | 7409 | 11594 | 16334 | 21272 |
| -10° | 635 | 697 | 794 | 954 | 1272 | 1953 | 3306 | 5811 | 9421 | 13565 | 17640 |
| -12.5° | 623 | 676 | 757 | 875 | 1096 | 1577 | 2567 | 4343 | 7022 | 10406 | 13721 |
| -15° | 609 | 655 | 724 | 826 | 993 | 1300 | 1841 | 2954 | 4903 | 7270 | 9852 |
| -17.5° | 598 | 635 | 690 | 767 | 878 | 1077 | 1439 | 2046 | 3063 | 4687 | 6329 |
| -20° | 586 | 613 | 658 | 721 | 805 | 924 | 1115 | 1455 | 1885 | 2742 | 3541 |



REPORT NUMBER: P731739
 CATALOG NUMBER: NHRS50U33BZ730-VS_50

CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| -22.5° | 577 | 598 | 630 | 675 | 739 | 826 | 934 | 1094 | 1325 | 1629 | 2060 |
| -25° | 569 | 583 | 606 | 642 | 685 | 744 | 819 | 903 | 1025 | 1144 | 1346 |
| -27.5° | 561 | 574 | 588 | 612 | 645 | 679 | 730 | 784 | 851 | 908 | 1001 |
| -30° | 554 | 565 | 577 | 591 | 611 | 635 | 664 | 701 | 739 | 776 | 822 |
| -32.5° | 545 | 557 | 567 | 577 | 586 | 602 | 619 | 643 | 665 | 690 | 715 |
| -35° | 534 | 547 | 558 | 564 | 571 | 579 | 589 | 602 | 614 | 630 | 645 |
| -37.5° | 520 | 534 | 544 | 552 | 558 | 563 | 569 | 576 | 582 | 592 | 601 |
| -40° | 503 | 518 | 529 | 537 | 543 | 550 | 554 | 558 | 563 | 569 | 574 |
| -42.5° | 482 | 497 | 509 | 519 | 527 | 533 | 539 | 543 | 548 | 552 | 555 |
| -45° | 458 | 472 | 486 | 497 | 507 | 514 | 520 | 527 | 531 | 535 | 539 |
| -47.5° | 428 | 444 | 457 | 469 | 480 | 489 | 496 | 503 | 508 | 513 | 518 |
| -50° | 396 | 412 | 426 | 438 | 448 | 458 | 467 | 474 | 480 | 485 | 491 |
| -52.5° | 366 | 379 | 392 | 404 | 414 | 423 | 432 | 439 | 445 | 449 | 455 |
| -55° | 332 | 345 | 357 | 368 | 378 | 386 | 394 | 400 | 405 | 409 | 415 |
| -57.5° | 300 | 313 | 324 | 333 | 341 | 349 | 355 | 360 | 364 | 368 | 373 |
| -60° | 269 | 280 | 290 | 298 | 306 | 312 | 317 | 321 | 324 | 327 | 331 |
| -62.5° | 238 | 248 | 256 | 264 | 271 | 277 | 281 | 284 | 287 | 289 | 291 |
| -65° | 207 | 216 | 224 | 231 | 238 | 243 | 247 | 249 | 251 | 253 | 255 |
| -67.5° | 176 | 184 | 191 | 197 | 204 | 209 | 212 | 214 | 215 | 218 | 219 |
| -70° | 145 | 151 | 157 | 162 | 168 | 172 | 175 | 177 | 179 | 180 | 182 |
| -72.5° | 116 | 120 | 125 | 130 | 134 | 137 | 139 | 141 | 142 | 144 | 145 |
| -75° | 87 | 90 | 93 | 96 | 99 | 101 | 104 | 105 | 106 | 107 | 108 |
| -77.5° | 54 | 57 | 61 | 63 | 64 | 66 | 67 | 68 | 68 | 68 | 69 |
| -80° | 31 | 32 | 33 | 35 | 36 | 36 | 37 | 38 | 38 | 38 | 39 |
| -82.5° | 15 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 16 | 17 | 17 |
| -85° | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 |
| -87.5° | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P731739
 CATALOG NUMBER: NHRS50U33BZ730-VS_50

CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 62.5° | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 |
| 60° | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 57.5° | 27 | 24 | 23 | 23 | 23 | 24 | 27 | 28 | 29 | 29 | 28 |
| 55° | 67 | 68 | 70 | 70 | 70 | 68 | 67 | 65 | 63 | 62 | 61 |
| 52.5° | 103 | 104 | 105 | 106 | 105 | 104 | 103 | 101 | 100 | 100 | 98 |
| 50° | 150 | 146 | 146 | 148 | 146 | 146 | 150 | 151 | 150 | 150 | 146 |
| 47.5° | 222 | 226 | 231 | 230 | 231 | 226 | 222 | 216 | 212 | 210 | 209 |
| 45° | 274 | 277 | 280 | 282 | 280 | 277 | 274 | 270 | 266 | 262 | 258 |
| 42.5° | 316 | 318 | 321 | 323 | 321 | 318 | 316 | 312 | 311 | 308 | 302 |
| 40° | 367 | 370 | 373 | 372 | 373 | 370 | 367 | 362 | 360 | 353 | 350 |
| 37.5° | 431 | 436 | 440 | 443 | 440 | 436 | 431 | 425 | 420 | 415 | 406 |
| 35° | 500 | 509 | 517 | 518 | 517 | 509 | 500 | 491 | 482 | 471 | 460 |
| 32.5° | 583 | 597 | 608 | 609 | 608 | 597 | 583 | 568 | 548 | 530 | 514 |
| 30° | 695 | 715 | 730 | 742 | 730 | 715 | 695 | 672 | 639 | 612 | 582 |
| 27.5° | 879 | 923 | 953 | 969 | 953 | 923 | 879 | 830 | 764 | 725 | 673 |
| 25° | 1254 | 1351 | 1409 | 1472 | 1409 | 1351 | 1254 | 1121 | 977 | 892 | 798 |
| 22.5° | 2070 | 2328 | 2485 | 2680 | 2485 | 2328 | 2070 | 1712 | 1410 | 1178 | 988 |
| 20° | 3769 | 4402 | 4711 | 5020 | 4711 | 4402 | 3769 | 2873 | 2265 | 1659 | 1311 |
| 17.5° | 6716 | 7743 | 8551 | 8474 | 8551 | 7743 | 6716 | 5133 | 3822 | 2583 | 1807 |
| 15° | 10734 | 12314 | 13311 | 13655 | 13311 | 12314 | 10734 | 8518 | 6192 | 4203 | 2589 |
| 12.5° | 15358 | 17762 | 19398 | 19733 | 19398 | 17762 | 15358 | 12481 | 9336 | 6200 | 3851 |
| 10° | 20519 | 23227 | 25032 | 25595 | 25032 | 23227 | 20519 | 16629 | 12688 | 8606 | 5232 |
| 7.5° | 24879 | 27776 | 29366 | 30025 | 29366 | 27776 | 24879 | 20483 | 15662 | 10957 | 6895 |
| 5° | 27769 | 30823 | 32369 | 33142 | 32369 | 30823 | 27769 | 23603 | 18127 | 12786 | 8177 |
| 2.5° | 29445 | 32349 | 34505 | 35303 | 34505 | 32349 | 29445 | 25245 | 19605 | 13840 | 8948 |
| 0° | 29782 | 32691 | 34952 | 35948 | 34952 | 32691 | 29782 | 25765 | 20161 | 14213 | 9294 |
| -2.5° | 29421 | 31989 | 33820 | 34338 | 33820 | 31989 | 29421 | 25456 | 19962 | 13963 | 9178 |
| -5° | 27993 | 30483 | 31829 | 32146 | 31829 | 30483 | 27993 | 23899 | 18692 | 13175 | 8609 |
| -7.5° | 25289 | 27938 | 29350 | 29646 | 29350 | 27938 | 25289 | 21272 | 16334 | 11594 | 7409 |
| -10° | 21394 | 24110 | 25572 | 25916 | 25572 | 24110 | 21394 | 17640 | 13565 | 9421 | 5811 |
| -12.5° | 16707 | 19105 | 20475 | 20596 | 20475 | 19105 | 16707 | 13721 | 10406 | 7022 | 4343 |
| -15° | 12195 | 13948 | 14936 | 14872 | 14936 | 13948 | 12195 | 9852 | 7270 | 4903 | 2954 |
| -17.5° | 8003 | 9234 | 9910 | 10128 | 9910 | 9234 | 8003 | 6329 | 4687 | 3063 | 2046 |
| -20° | 4678 | 5484 | 6001 | 6055 | 6001 | 5484 | 4678 | 3541 | 2742 | 1885 | 1455 |



REPORT NUMBER: P731739
 CATALOG NUMBER: NHRS50U33BZ730-VS_50

CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|------|-------|------|------|------|------|------|-------|------|-------|
| -22.5° | 2603 | 3023 | 3293 | 3289 | 3293 | 3023 | 2603 | 2060 | 1629 | 1325 | 1094 |
| -25° | 1551 | 1710 | 1807 | 1824 | 1807 | 1710 | 1551 | 1346 | 1144 | 1025 | 903 |
| -27.5° | 1076 | 1138 | 1180 | 1179 | 1180 | 1138 | 1076 | 1001 | 908 | 851 | 784 |
| -30° | 860 | 889 | 916 | 908 | 916 | 889 | 860 | 822 | 776 | 739 | 701 |
| -32.5° | 736 | 752 | 764 | 764 | 764 | 752 | 736 | 715 | 690 | 665 | 643 |
| -35° | 657 | 668 | 675 | 674 | 675 | 668 | 657 | 645 | 630 | 614 | 602 |
| -37.5° | 608 | 614 | 619 | 620 | 619 | 614 | 608 | 601 | 592 | 582 | 576 |
| -40° | 579 | 584 | 587 | 588 | 587 | 584 | 579 | 574 | 569 | 563 | 558 |
| -42.5° | 560 | 564 | 568 | 569 | 568 | 564 | 560 | 555 | 552 | 548 | 543 |
| -45° | 544 | 548 | 551 | 553 | 551 | 548 | 544 | 539 | 535 | 531 | 527 |
| -47.5° | 524 | 529 | 533 | 534 | 533 | 529 | 524 | 518 | 513 | 508 | 503 |
| -50° | 497 | 501 | 505 | 505 | 505 | 501 | 497 | 491 | 485 | 480 | 474 |
| -52.5° | 461 | 465 | 468 | 470 | 468 | 465 | 461 | 455 | 449 | 445 | 439 |
| -55° | 421 | 425 | 428 | 429 | 428 | 425 | 421 | 415 | 409 | 405 | 400 |
| -57.5° | 377 | 380 | 383 | 384 | 383 | 380 | 377 | 373 | 368 | 364 | 360 |
| -60° | 334 | 336 | 338 | 337 | 338 | 336 | 334 | 331 | 327 | 324 | 321 |
| -62.5° | 293 | 294 | 297 | 298 | 297 | 294 | 293 | 291 | 289 | 287 | 284 |
| -65° | 256 | 257 | 257 | 256 | 257 | 257 | 256 | 255 | 253 | 251 | 249 |
| -67.5° | 220 | 221 | 221 | 220 | 221 | 221 | 220 | 219 | 218 | 215 | 214 |
| -70° | 183 | 184 | 183 | 182 | 183 | 184 | 183 | 182 | 180 | 179 | 177 |
| -72.5° | 145 | 146 | 146 | 145 | 146 | 146 | 145 | 145 | 144 | 142 | 141 |
| -75° | 109 | 110 | 109 | 107 | 109 | 110 | 109 | 108 | 107 | 106 | 105 |
| -77.5° | 69 | 69 | 68 | 67 | 68 | 69 | 69 | 69 | 68 | 68 | 68 |
| -80° | 40 | 39 | 39 | 38 | 39 | 39 | 40 | 39 | 38 | 38 | 38 |
| -82.5° | 18 | 18 | 18 | 17 | 18 | 18 | 18 | 17 | 17 | 16 | 17 |
| -85° | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| -87.5° | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P731739
 CATALOG NUMBER: NHRS50U33BZ730-VS_50

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|------|-------|------|-------|-----|-------|-----|-------|-----|-------|-----|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 65° | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 62.5° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 |
| 60° | 10 | 9 | 10 | 10 | 9 | 9 | 11 | 11 | 8 | 10 | 11 |
| 57.5° | 23 | 22 | 25 | 24 | 21 | 22 | 24 | 23 | 21 | 22 | 20 |
| 55° | 58 | 55 | 52 | 49 | 46 | 46 | 43 | 40 | 40 | 40 | 38 |
| 52.5° | 92 | 93 | 90 | 81 | 78 | 78 | 73 | 67 | 64 | 64 | 61 |
| 50° | 142 | 141 | 138 | 132 | 125 | 119 | 114 | 102 | 96 | 93 | 89 |
| 47.5° | 203 | 196 | 191 | 184 | 175 | 167 | 158 | 151 | 136 | 125 | 119 |
| 45° | 252 | 246 | 239 | 231 | 222 | 210 | 201 | 192 | 177 | 162 | 151 |
| 42.5° | 299 | 290 | 279 | 278 | 271 | 256 | 242 | 236 | 223 | 200 | 185 |
| 40° | 349 | 344 | 333 | 327 | 321 | 308 | 292 | 281 | 268 | 248 | 222 |
| 37.5° | 400 | 395 | 386 | 379 | 371 | 358 | 341 | 325 | 314 | 291 | 265 |
| 35° | 449 | 440 | 430 | 421 | 415 | 399 | 383 | 367 | 351 | 328 | 303 |
| 32.5° | 495 | 481 | 466 | 455 | 445 | 432 | 417 | 402 | 385 | 362 | 336 |
| 30° | 552 | 527 | 505 | 488 | 475 | 461 | 445 | 432 | 417 | 396 | 367 |
| 27.5° | 631 | 586 | 554 | 527 | 508 | 490 | 474 | 461 | 446 | 426 | 398 |
| 25° | 732 | 669 | 614 | 576 | 545 | 521 | 503 | 488 | 473 | 453 | 428 |
| 22.5° | 860 | 767 | 689 | 628 | 586 | 553 | 530 | 513 | 498 | 476 | 451 |
| 20° | 1036 | 874 | 770 | 690 | 627 | 584 | 554 | 534 | 515 | 495 | 473 |
| 17.5° | 1323 | 1018 | 849 | 746 | 671 | 617 | 576 | 548 | 529 | 512 | 494 |
| 15° | 1690 | 1224 | 958 | 809 | 712 | 642 | 593 | 560 | 541 | 524 | 507 |
| 12.5° | 2330 | 1479 | 1059 | 860 | 747 | 667 | 612 | 575 | 551 | 533 | 515 |
| 10° | 3021 | 1833 | 1227 | 936 | 785 | 691 | 628 | 586 | 559 | 541 | 522 |
| 7.5° | 3971 | 2258 | 1391 | 999 | 816 | 709 | 640 | 595 | 566 | 547 | 529 |
| 5° | 4672 | 2578 | 1526 | 1056 | 839 | 722 | 648 | 602 | 572 | 552 | 534 |
| 2.5° | 5120 | 2778 | 1616 | 1097 | 860 | 734 | 655 | 607 | 577 | 557 | 541 |
| 0° | 5344 | 2912 | 1653 | 1104 | 865 | 737 | 657 | 609 | 580 | 561 | 545 |
| -2.5° | 5267 | 2859 | 1617 | 1108 | 867 | 734 | 657 | 609 | 580 | 562 | 546 |
| -5° | 4957 | 2669 | 1553 | 1071 | 847 | 725 | 652 | 606 | 578 | 561 | 546 |
| -7.5° | 4278 | 2370 | 1435 | 1017 | 824 | 714 | 645 | 602 | 576 | 559 | 544 |
| -10° | 3306 | 1953 | 1272 | 954 | 794 | 697 | 635 | 596 | 573 | 557 | 541 |
| -12.5° | 2567 | 1577 | 1096 | 875 | 757 | 676 | 623 | 589 | 568 | 554 | 538 |
| -15° | 1841 | 1300 | 993 | 826 | 724 | 655 | 609 | 580 | 564 | 551 | 533 |
| -17.5° | 1439 | 1077 | 878 | 767 | 690 | 635 | 598 | 575 | 560 | 547 | 529 |
| -20° | 1115 | 924 | 805 | 721 | 658 | 613 | 586 | 569 | 556 | 541 | 522 |



REPORT NUMBER: P731739
 CATALOG NUMBER: NHRS50U33BZ730-VS_50

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| -22.5° | 934 | 826 | 739 | 675 | 630 | 598 | 577 | 562 | 551 | 535 | 516 |
| -25° | 819 | 744 | 685 | 642 | 606 | 583 | 569 | 557 | 544 | 529 | 508 |
| -27.5° | 730 | 679 | 645 | 612 | 588 | 574 | 561 | 550 | 536 | 519 | 497 |
| -30° | 664 | 635 | 611 | 591 | 577 | 565 | 554 | 542 | 527 | 509 | 484 |
| -32.5° | 619 | 602 | 586 | 577 | 567 | 557 | 545 | 532 | 515 | 495 | 469 |
| -35° | 589 | 579 | 571 | 564 | 558 | 547 | 534 | 519 | 501 | 479 | 453 |
| -37.5° | 569 | 563 | 558 | 552 | 544 | 534 | 520 | 503 | 486 | 461 | 434 |
| -40° | 554 | 550 | 543 | 537 | 529 | 518 | 503 | 487 | 464 | 440 | 414 |
| -42.5° | 539 | 533 | 527 | 519 | 509 | 497 | 482 | 463 | 441 | 418 | 393 |
| -45° | 520 | 514 | 507 | 497 | 486 | 472 | 458 | 437 | 415 | 393 | 370 |
| -47.5° | 496 | 489 | 480 | 469 | 457 | 444 | 428 | 410 | 389 | 368 | 346 |
| -50° | 467 | 458 | 448 | 438 | 426 | 412 | 396 | 380 | 361 | 341 | 321 |
| -52.5° | 432 | 423 | 414 | 404 | 392 | 379 | 366 | 349 | 331 | 314 | 297 |
| -55° | 394 | 386 | 378 | 368 | 357 | 345 | 332 | 317 | 302 | 287 | 272 |
| -57.5° | 355 | 349 | 341 | 333 | 324 | 313 | 300 | 287 | 273 | 260 | 246 |
| -60° | 317 | 312 | 306 | 298 | 290 | 280 | 269 | 257 | 245 | 232 | 220 |
| -62.5° | 281 | 277 | 271 | 264 | 256 | 248 | 238 | 228 | 216 | 206 | 194 |
| -65° | 247 | 243 | 238 | 231 | 224 | 216 | 207 | 197 | 188 | 178 | 169 |
| -67.5° | 212 | 209 | 204 | 197 | 191 | 184 | 176 | 168 | 160 | 152 | 144 |
| -70° | 175 | 172 | 168 | 162 | 157 | 151 | 145 | 140 | 133 | 126 | 119 |
| -72.5° | 139 | 137 | 134 | 130 | 125 | 120 | 116 | 111 | 106 | 99 | 94 |
| -75° | 104 | 101 | 99 | 96 | 93 | 90 | 87 | 82 | 78 | 73 | 68 |
| -77.5° | 67 | 66 | 64 | 63 | 61 | 57 | 54 | 52 | 50 | 47 | 44 |
| -80° | 37 | 36 | 36 | 35 | 33 | 32 | 31 | 29 | 27 | 24 | 23 |
| -82.5° | 17 | 16 | 16 | 16 | 16 | 16 | 15 | 14 | 13 | 12 | 11 |
| -85° | 9 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 6 |
| -87.5° | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 3 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P731739
 CATALOG NUMBER: NHRS50U33BZ730-VS_50

CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 82.5° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 80° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 77.5° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 72.5° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 67.5° | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| 65° | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 |
| 62.5° | 4 | 3 | 3 | 4 | 3 | 3 | 2 | 4 | 4 | 3 | 2 |
| 60° | 9 | 8 | 7 | 9 | 7 | 5 | 5 | 6 | 6 | 4 | 4 |
| 57.5° | 19 | 15 | 18 | 17 | 15 | 11 | 10 | 11 | 9 | 7 | 5 |
| 55° | 33 | 30 | 30 | 30 | 25 | 19 | 16 | 16 | 13 | 10 | 7 |
| 52.5° | 54 | 49 | 47 | 45 | 39 | 31 | 28 | 23 | 20 | 14 | 11 |
| 50° | 80 | 73 | 67 | 62 | 56 | 48 | 40 | 34 | 27 | 19 | 15 |
| 47.5° | 111 | 101 | 91 | 82 | 73 | 66 | 56 | 46 | 35 | 26 | 21 |
| 45° | 144 | 133 | 117 | 104 | 93 | 85 | 74 | 59 | 46 | 35 | 26 |
| 42.5° | 176 | 165 | 149 | 127 | 115 | 104 | 93 | 75 | 58 | 43 | 33 |
| 40° | 209 | 195 | 180 | 157 | 136 | 123 | 109 | 92 | 71 | 53 | 41 |
| 37.5° | 244 | 226 | 209 | 186 | 159 | 142 | 127 | 109 | 84 | 64 | 48 |
| 35° | 279 | 258 | 236 | 211 | 184 | 161 | 144 | 125 | 99 | 76 | 56 |
| 32.5° | 311 | 289 | 262 | 235 | 209 | 181 | 161 | 139 | 113 | 87 | 64 |
| 30° | 340 | 315 | 288 | 258 | 230 | 201 | 177 | 152 | 126 | 98 | 72 |
| 27.5° | 367 | 340 | 312 | 281 | 251 | 221 | 191 | 165 | 138 | 108 | 81 |
| 25° | 395 | 365 | 335 | 303 | 271 | 237 | 204 | 177 | 149 | 119 | 90 |
| 22.5° | 421 | 389 | 358 | 324 | 286 | 251 | 217 | 188 | 160 | 129 | 98 |
| 20° | 444 | 412 | 378 | 340 | 300 | 264 | 229 | 198 | 169 | 138 | 106 |
| 17.5° | 464 | 431 | 393 | 353 | 313 | 275 | 240 | 209 | 178 | 147 | 114 |
| 15° | 479 | 445 | 406 | 366 | 324 | 286 | 251 | 218 | 187 | 155 | 121 |
| 12.5° | 490 | 457 | 419 | 377 | 335 | 296 | 261 | 227 | 195 | 161 | 126 |
| 10° | 499 | 468 | 429 | 387 | 344 | 304 | 269 | 234 | 201 | 166 | 131 |
| 7.5° | 507 | 478 | 439 | 395 | 352 | 310 | 275 | 239 | 205 | 170 | 135 |
| 5° | 513 | 486 | 447 | 404 | 358 | 316 | 280 | 244 | 210 | 174 | 139 |
| 2.5° | 518 | 491 | 454 | 412 | 364 | 322 | 285 | 248 | 212 | 176 | 141 |
| 0° | 522 | 495 | 458 | 417 | 367 | 325 | 288 | 250 | 214 | 178 | 143 |
| -2.5° | 525 | 496 | 460 | 418 | 370 | 328 | 290 | 253 | 216 | 179 | 144 |
| -5° | 525 | 495 | 460 | 417 | 371 | 329 | 290 | 253 | 218 | 180 | 145 |
| -7.5° | 523 | 493 | 457 | 415 | 371 | 329 | 289 | 254 | 217 | 179 | 145 |
| -10° | 519 | 490 | 454 | 412 | 369 | 327 | 288 | 253 | 217 | 179 | 145 |
| -12.5° | 515 | 486 | 450 | 408 | 366 | 325 | 287 | 252 | 215 | 178 | 144 |
| -15° | 509 | 481 | 444 | 402 | 361 | 321 | 284 | 249 | 213 | 177 | 143 |
| -17.5° | 504 | 475 | 437 | 395 | 354 | 316 | 281 | 247 | 211 | 175 | 142 |
| -20° | 498 | 467 | 428 | 387 | 348 | 311 | 278 | 243 | 207 | 172 | 140 |



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CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| -22.5° | 490 | 457 | 419 | 378 | 340 | 305 | 273 | 239 | 203 | 169 | 137 |
| -25° | 480 | 446 | 409 | 370 | 333 | 300 | 269 | 234 | 198 | 165 | 135 |
| -27.5° | 469 | 435 | 397 | 360 | 325 | 293 | 262 | 228 | 194 | 161 | 131 |
| -30° | 455 | 421 | 386 | 350 | 317 | 287 | 255 | 222 | 188 | 157 | 127 |
| -32.5° | 440 | 408 | 373 | 339 | 308 | 279 | 247 | 214 | 183 | 152 | 123 |
| -35° | 423 | 393 | 361 | 328 | 298 | 269 | 238 | 207 | 176 | 146 | 119 |
| -37.5° | 407 | 375 | 346 | 316 | 288 | 259 | 229 | 198 | 169 | 140 | 114 |
| -40° | 386 | 358 | 330 | 304 | 276 | 248 | 219 | 190 | 162 | 134 | 109 |
| -42.5° | 366 | 340 | 314 | 290 | 264 | 237 | 210 | 180 | 153 | 127 | 104 |
| -45° | 345 | 321 | 297 | 275 | 252 | 224 | 197 | 170 | 144 | 120 | 98 |
| -47.5° | 324 | 301 | 280 | 259 | 237 | 211 | 184 | 159 | 135 | 114 | 90 |
| -50° | 302 | 282 | 262 | 241 | 221 | 196 | 171 | 148 | 125 | 106 | 83 |
| -52.5° | 280 | 261 | 242 | 223 | 203 | 180 | 158 | 137 | 116 | 97 | 75 |
| -55° | 255 | 239 | 222 | 204 | 184 | 165 | 144 | 125 | 106 | 87 | 68 |
| -57.5° | 231 | 217 | 201 | 184 | 167 | 149 | 131 | 113 | 96 | 78 | 59 |
| -60° | 207 | 194 | 180 | 165 | 149 | 133 | 117 | 101 | 84 | 67 | 52 |
| -62.5° | 183 | 172 | 159 | 145 | 131 | 117 | 103 | 88 | 73 | 58 | 44 |
| -65° | 159 | 149 | 140 | 127 | 115 | 101 | 89 | 75 | 61 | 47 | 36 |
| -67.5° | 136 | 127 | 119 | 109 | 97 | 85 | 74 | 62 | 49 | 37 | 29 |
| -70° | 113 | 106 | 98 | 88 | 77 | 67 | 58 | 47 | 36 | 29 | 22 |
| -72.5° | 88 | 81 | 74 | 66 | 58 | 50 | 41 | 33 | 28 | 21 | 15 |
| -75° | 63 | 57 | 52 | 46 | 40 | 34 | 29 | 23 | 19 | 13 | 11 |
| -77.5° | 40 | 36 | 32 | 29 | 26 | 22 | 18 | 14 | 11 | 10 | 8 |
| -80° | 22 | 21 | 19 | 17 | 14 | 11 | 10 | 9 | 7 | 6 | 5 |
| -82.5° | 10 | 10 | 9 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 3 |
| -85° | 6 | 6 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 2 |
| -87.5° | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|-------|-----|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 80° | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 77.5° | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 75° | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 72.5° | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 70° | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 67.5° | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 65° | 2 | 2 | 2 | 1 | 1 | 1 | 0 |
| 62.5° | 3 | 3 | 2 | 1 | 1 | 1 | 0 |
| 60° | 4 | 4 | 2 | 2 | 1 | 1 | 0 |
| 57.5° | 5 | 5 | 3 | 2 | 1 | 1 | 0 |
| 55° | 7 | 6 | 4 | 2 | 1 | 1 | 0 |
| 52.5° | 10 | 7 | 5 | 2 | 1 | 1 | 0 |
| 50° | 12 | 9 | 6 | 2 | 2 | 1 | 0 |
| 47.5° | 15 | 12 | 7 | 3 | 2 | 1 | 0 |
| 45° | 20 | 14 | 9 | 4 | 2 | 1 | 0 |
| 42.5° | 25 | 16 | 10 | 4 | 2 | 1 | 0 |
| 40° | 30 | 19 | 11 | 5 | 3 | 1 | 0 |
| 37.5° | 36 | 22 | 13 | 6 | 3 | 1 | 0 |
| 35° | 41 | 26 | 15 | 7 | 3 | 1 | 0 |
| 32.5° | 47 | 30 | 18 | 9 | 3 | 1 | 0 |
| 30° | 53 | 35 | 20 | 10 | 4 | 1 | 0 |
| 27.5° | 59 | 39 | 22 | 11 | 4 | 1 | 0 |
| 25° | 66 | 44 | 24 | 12 | 4 | 1 | 0 |
| 22.5° | 72 | 48 | 27 | 12 | 4 | 1 | 0 |
| 20° | 78 | 52 | 29 | 13 | 5 | 1 | 0 |
| 17.5° | 83 | 56 | 31 | 14 | 5 | 1 | 0 |
| 15° | 88 | 61 | 33 | 15 | 5 | 1 | 0 |
| 12.5° | 92 | 64 | 35 | 16 | 5 | 1 | 0 |
| 10° | 97 | 68 | 37 | 16 | 6 | 1 | 0 |
| 7.5° | 101 | 71 | 40 | 18 | 6 | 1 | 0 |
| 5° | 106 | 75 | 41 | 18 | 6 | 1 | 0 |
| 2.5° | 109 | 78 | 42 | 19 | 6 | 1 | 0 |
| 0° | 111 | 80 | 44 | 19 | 6 | 1 | 0 |
| -2.5° | 113 | 81 | 45 | 20 | 6 | 1 | 0 |
| -5° | 114 | 83 | 46 | 20 | 7 | 1 | 0 |
| -7.5° | 114 | 83 | 47 | 21 | 7 | 1 | 0 |
| -10° | 114 | 83 | 46 | 20 | 7 | 1 | 0 |
| -12.5° | 114 | 83 | 46 | 20 | 7 | 1 | 0 |
| -15° | 114 | 82 | 46 | 20 | 7 | 1 | 0 |
| -17.5° | 113 | 81 | 46 | 20 | 7 | 1 | 0 |
| -20° | 111 | 80 | 45 | 20 | 7 | 1 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|-------|-----|
| -22.5° | 109 | 78 | 44 | 20 | 7 | 1 | 0 |
| -25° | 107 | 76 | 43 | 19 | 6 | 1 | 0 |
| -27.5° | 104 | 73 | 41 | 19 | 6 | 1 | 0 |
| -30° | 101 | 69 | 39 | 18 | 6 | 1 | 0 |
| -32.5° | 98 | 65 | 37 | 18 | 6 | 1 | 0 |
| -35° | 93 | 62 | 35 | 16 | 6 | 1 | 0 |
| -37.5° | 88 | 57 | 32 | 15 | 6 | 1 | 0 |
| -40° | 82 | 54 | 29 | 14 | 5 | 1 | 0 |
| -42.5° | 76 | 50 | 27 | 13 | 5 | 1 | 0 |
| -45° | 71 | 46 | 26 | 12 | 5 | 1 | 0 |
| -47.5° | 64 | 42 | 23 | 10 | 4 | 1 | 0 |
| -50° | 59 | 37 | 21 | 9 | 4 | 1 | 0 |
| -52.5° | 53 | 33 | 19 | 9 | 3 | 1 | 0 |
| -55° | 47 | 29 | 16 | 8 | 3 | 1 | 0 |
| -57.5° | 41 | 26 | 14 | 7 | 3 | 1 | 0 |
| -60° | 36 | 22 | 11 | 6 | 2 | 1 | 0 |
| -62.5° | 30 | 18 | 10 | 5 | 2 | 1 | 0 |
| -65° | 25 | 14 | 9 | 4 | 2 | 1 | 0 |
| -67.5° | 19 | 11 | 7 | 3 | 2 | 1 | 0 |
| -70° | 14 | 9 | 5 | 3 | 2 | 1 | 0 |
| -72.5° | 11 | 7 | 4 | 2 | 1 | 1 | 0 |
| -75° | 9 | 5 | 3 | 2 | 1 | 1 | 0 |
| -77.5° | 6 | 3 | 2 | 2 | 1 | 1 | 0 |
| -80° | 3 | 2 | 2 | 1 | 1 | 1 | 0 |
| -82.5° | 2 | 2 | 1 | 1 | 1 | 0 | 0 |
| -85° | 2 | 1 | 1 | 1 | 1 | 0 | 0 |
| -87.5° | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)