

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: HALO

Report Number: P294436

Luminaire Tested: **RL6069S1EWHDM-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1809075B001)
Test Lab: EVERFINE
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RL6069S1EWHDM-4000K
Description: 6 IN HALO RL DIRECT MOUNT (600 LUMEN) - 4000K
Light Source: -
Ballast/Driver: -

Summary

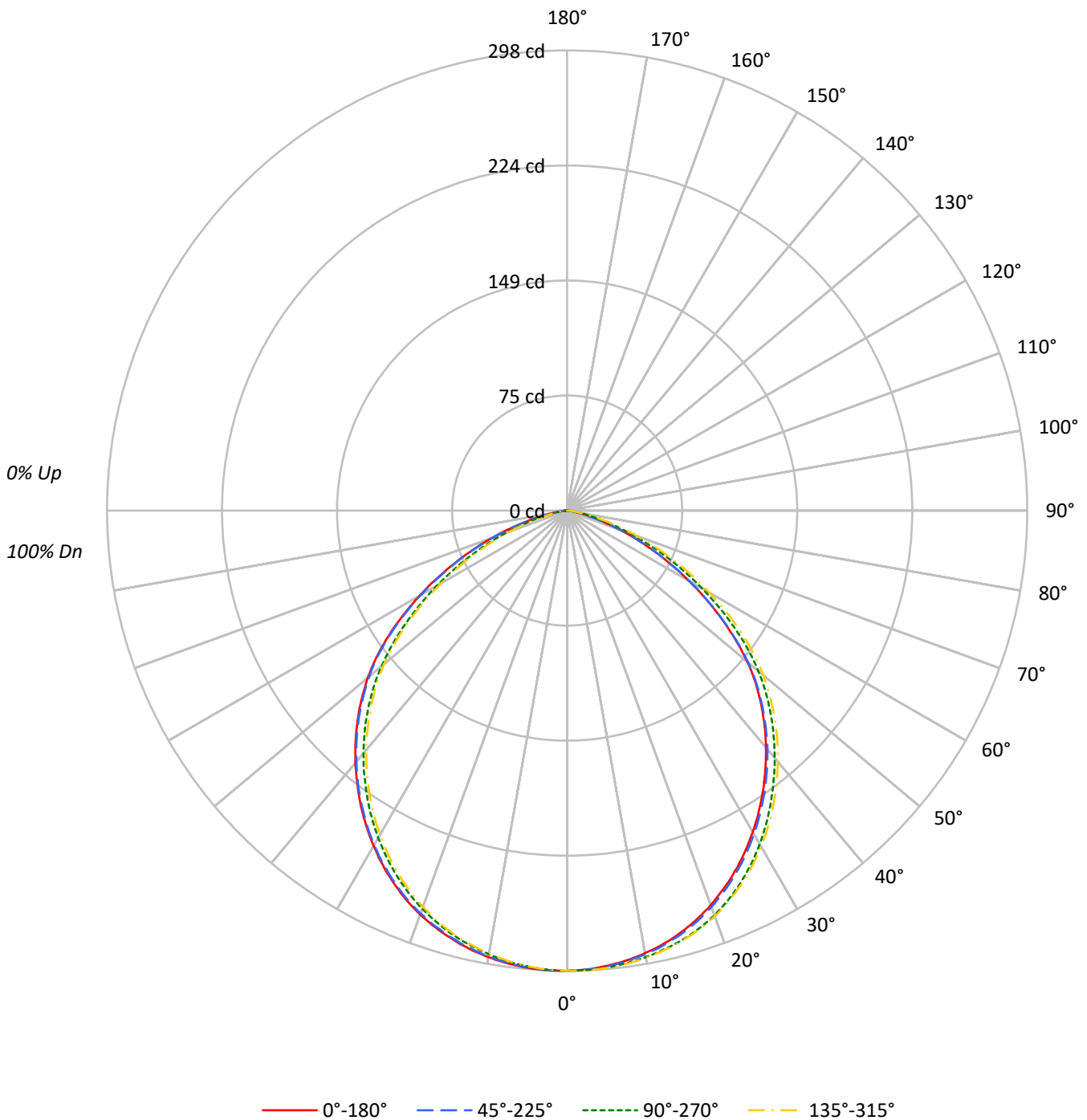
Lumens per Lamp: 706.09 (1 lamp)
Luminaire Lumens: 728.6 lumens
Efficiency: 103.2%
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8.7
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



TEST NUMBER: P294436
CATALOG NUMBER: RL6069S1EWHDM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

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 | 123 | 123 | 123 | 123 | 120 | 120 | 120 | 120 | 115 | 115 | 115 | 110 | 110 | 110 | 105 | 105 | 105 | 103 |
| 1 | 114 | 109 | 106 | 102 | 111 | 107 | 104 | 100 | 103 | 100 | 97 | 99 | 97 | 94 | 95 | 93 | 92 | 90 |
| 2 | 104 | 97 | 90 | 85 | 102 | 95 | 89 | 84 | 91 | 86 | 82 | 88 | 84 | 80 | 85 | 82 | 79 | 76 |
| 3 | 96 | 86 | 78 | 72 | 93 | 84 | 77 | 71 | 81 | 75 | 70 | 78 | 73 | 69 | 76 | 71 | 68 | 65 |
| 4 | 88 | 76 | 68 | 62 | 86 | 75 | 67 | 61 | 73 | 66 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 57 |
| 5 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 62 | 56 | 51 | 49 |
| 6 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 47 | 59 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 7 | 70 | 56 | 48 | 42 | 68 | 56 | 47 | 41 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 39 |
| 8 | 65 | 52 | 43 | 37 | 63 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 35 |
| 9 | 61 | 47 | 39 | 34 | 59 | 47 | 39 | 34 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 10 | 57 | 44 | 36 | 31 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 16342 | 16342 | 16342 | 16342 |
| 5° | 16283 | 16344 | 16355 | 16305 |
| 10° | 16199 | 16343 | 16343 | 16238 |
| 15° | 16067 | 16334 | 16305 | 16152 |
| 20° | 15862 | 16265 | 16241 | 16008 |
| 25° | 15569 | 16078 | 16090 | 15787 |
| 30° | 15218 | 15787 | 15863 | 15490 |
| 35° | 14803 | 15399 | 15600 | 15118 |
| 40° | 14334 | 14957 | 15271 | 14685 |
| 45° | 13777 | 14459 | 14878 | 14141 |
| 50° | 12980 | 13782 | 14379 | 13390 |
| 55° | 11670 | 12654 | 13467 | 12224 |
| 60° | 9999 | 11085 | 12104 | 10690 |
| 65° | 8068 | 9197 | 10377 | 8898 |
| 70° | 5882 | 7020 | 8319 | 6764 |
| 75° | 3558 | 4596 | 5825 | 4384 |
| 80° | 1831 | 2399 | 3315 | 2241 |
| 85° | 943 | 1447 | 2013 | 1447 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 28.2 | 3.9 | 4.0 |
| 10°-20° | 80.6 | 11.1 | 11.4 |
| 20°-30° | 120.9 | 16.6 | 17.1 |
| 30°-40° | 142.3 | 19.5 | 20.2 |
| 40°-50° | 142.3 | 19.5 | 20.2 |
| 50°-60° | 116.8 | 16.0 | 16.5 |
| 60°-70° | 70.2 | 9.6 | 9.9 |
| 70°-80° | 24.3 | 3.3 | 3.4 |
| 80°-90° | 2.9 | 0.4 | 0.4 |
| 90°-100° | 0.0 | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-30° | 229.7 | 31.5 | 32.5 |
| 0°-40° | 372.0 | 51.1 | 52.7 |
| 0°-60° | 631.2 | 86.6 | 89.4 |
| 0°-90° | 728.6 | 100.0 | 103.2 |
| 90°-120° | 0.0 | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 | 0.0 |
| 0°-180° | 728.6 | 100.0 | 103.2 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 298 | 298 | 298 | 298 | 298 | |
| 5° | 296 | 297 | 297 | 296 | 296 | 28 |
| 15° | 283 | 288 | 287 | 285 | 283 | 80 |
| 25° | 257 | 266 | 266 | 261 | 257 | 119 |
| 35° | 221 | 230 | 233 | 226 | 221 | 138 |
| 45° | 178 | 186 | 192 | 182 | 178 | 137 |
| 55° | 122 | 132 | 141 | 128 | 122 | 109 |
| 65° | 62 | 71 | 80 | 69 | 62 | 62 |
| 75° | 17 | 22 | 28 | 21 | 17 | 19 |
| 85° | 2 | 2 | 3 | 2 | 2 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 |
| 0.5° | 297.9 | 297.9 | 298.1 | 298.4 | 298.0 | 298.0 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 |
| 1° | 297.8 | 297.8 | 298.0 | 298.3 | 298.0 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 |
| 1.5° | 297.7 | 297.6 | 297.8 | 298.2 | 297.9 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 |
| 2° | 297.5 | 297.5 | 297.7 | 298.1 | 297.9 | 298.0 | 298.1 | 298.1 | 298.1 | 298.1 | 298.0 |
| 2.5° | 297.4 | 297.3 | 297.5 | 298.0 | 297.8 | 297.9 | 298.0 | 298.1 | 298.0 | 298.0 | 297.8 |
| 3° | 297.2 | 297.2 | 297.4 | 297.8 | 297.7 | 297.9 | 297.9 | 297.9 | 297.9 | 297.9 | 297.7 |
| 3.5° | 296.9 | 297.0 | 297.1 | 297.6 | 297.5 | 297.7 | 297.8 | 297.8 | 297.7 | 297.7 | 297.5 |
| 4° | 296.5 | 296.6 | 296.9 | 297.4 | 297.4 | 297.6 | 297.7 | 297.7 | 297.6 | 297.5 | 297.3 |
| 4.5° | 296.2 | 296.3 | 296.6 | 297.2 | 297.2 | 297.4 | 297.5 | 297.5 | 297.4 | 297.3 | 297.2 |
| 5° | 295.9 | 296.0 | 296.3 | 297.0 | 297.0 | 297.2 | 297.3 | 297.4 | 297.2 | 297.1 | 297.0 |
| 5.5° | 295.6 | 295.7 | 295.9 | 296.6 | 296.8 | 297.0 | 297.1 | 297.1 | 297.0 | 296.8 | 296.7 |
| 6° | 295.2 | 295.3 | 295.6 | 296.3 | 296.5 | 296.7 | 297.0 | 296.8 | 296.7 | 296.5 | 296.3 |
| 6.5° | 294.7 | 294.9 | 295.2 | 295.9 | 296.3 | 296.5 | 296.6 | 296.5 | 296.4 | 296.1 | 296.1 |
| 7° | 294.3 | 294.5 | 294.7 | 295.6 | 295.9 | 296.1 | 296.3 | 296.2 | 296.1 | 295.8 | 295.7 |
| 7.5° | 293.8 | 294.0 | 294.3 | 295.2 | 295.5 | 295.8 | 296.0 | 295.9 | 295.7 | 295.4 | 295.4 |
| 8° | 293.3 | 293.5 | 293.8 | 294.7 | 295.2 | 295.4 | 295.7 | 295.5 | 295.4 | 295.0 | 295.1 |
| 8.5° | 292.8 | 293.0 | 293.3 | 294.3 | 294.9 | 295.1 | 295.3 | 295.1 | 295.0 | 294.7 | 294.6 |
| 9° | 292.2 | 292.5 | 292.8 | 293.8 | 294.5 | 294.7 | 294.9 | 294.7 | 294.6 | 294.2 | 294.1 |
| 9.5° | 291.7 | 291.9 | 292.3 | 293.3 | 294.0 | 294.3 | 294.5 | 294.2 | 294.1 | 293.7 | 293.6 |
| 10° | 291.0 | 291.3 | 291.7 | 292.8 | 293.6 | 293.8 | 294.0 | 293.7 | 293.6 | 293.2 | 293.2 |
| 10.5° | 290.3 | 290.7 | 291.1 | 292.2 | 293.1 | 293.4 | 293.6 | 293.2 | 293.1 | 292.7 | 292.7 |
| 11° | 289.7 | 290.0 | 290.4 | 291.7 | 292.7 | 292.9 | 293.1 | 292.7 | 292.6 | 292.1 | 292.1 |
| 11.5° | 289.0 | 289.3 | 289.8 | 291.0 | 292.1 | 292.4 | 292.6 | 292.1 | 292.0 | 291.6 | 291.6 |
| 12° | 288.3 | 288.6 | 289.1 | 290.4 | 291.6 | 291.9 | 292.0 | 291.6 | 291.5 | 291.0 | 290.9 |
| 12.5° | 287.5 | 287.8 | 288.3 | 289.7 | 291.0 | 291.3 | 291.5 | 291.0 | 290.9 | 290.3 | 290.3 |
| 13° | 286.7 | 287.1 | 287.5 | 289.1 | 290.4 | 290.7 | 290.9 | 290.3 | 290.2 | 289.6 | 289.7 |
| 13.5° | 285.9 | 286.3 | 286.7 | 288.3 | 289.8 | 290.1 | 290.3 | 289.6 | 289.6 | 288.9 | 289.0 |
| 14° | 285.0 | 285.5 | 285.9 | 287.5 | 289.1 | 289.4 | 289.7 | 289.0 | 288.9 | 288.2 | 288.2 |
| 14.5° | 284.1 | 284.6 | 285.1 | 286.8 | 288.5 | 288.8 | 289.0 | 288.2 | 288.1 | 287.4 | 287.4 |
| 15° | 283.1 | 283.7 | 284.2 | 286.0 | 287.8 | 288.1 | 288.3 | 287.4 | 287.3 | 286.6 | 286.7 |
| 15.5° | 282.1 | 282.7 | 283.2 | 285.1 | 287.1 | 287.4 | 287.5 | 286.7 | 286.5 | 285.9 | 285.9 |
| 16° | 281.1 | 281.7 | 282.3 | 284.1 | 286.3 | 286.6 | 286.8 | 285.9 | 285.8 | 285.0 | 285.1 |
| 16.5° | 280.1 | 280.7 | 281.2 | 283.1 | 285.6 | 285.8 | 286.1 | 285.0 | 284.9 | 284.2 | 284.3 |
| 17° | 279.0 | 279.6 | 280.2 | 282.1 | 284.7 | 285.0 | 285.2 | 284.2 | 284.1 | 283.2 | 283.3 |
| 17.5° | 277.9 | 278.6 | 279.2 | 281.1 | 283.8 | 284.1 | 284.4 | 283.3 | 283.2 | 282.4 | 282.6 |
| 18° | 276.7 | 277.4 | 278.0 | 280.0 | 282.9 | 283.2 | 283.5 | 282.4 | 282.3 | 281.4 | 281.6 |
| 18.5° | 275.6 | 276.3 | 276.8 | 278.9 | 281.9 | 282.2 | 282.6 | 281.4 | 281.3 | 280.5 | 280.7 |
| 19° | 274.4 | 275.0 | 275.6 | 277.7 | 281.0 | 281.2 | 281.6 | 280.5 | 280.3 | 279.5 | 279.6 |
| 19.5° | 273.2 | 273.7 | 274.5 | 276.5 | 279.9 | 280.2 | 280.6 | 279.5 | 279.4 | 278.6 | 278.6 |
| 20° | 271.9 | 272.5 | 273.2 | 275.2 | 278.8 | 279.2 | 279.5 | 278.6 | 278.4 | 277.5 | 277.6 |
| 20.5° | 270.6 | 271.2 | 271.9 | 274.0 | 277.7 | 278.1 | 278.5 | 277.4 | 277.3 | 276.5 | 276.6 |
| 21° | 269.2 | 270.0 | 270.5 | 272.8 | 276.5 | 276.9 | 277.4 | 276.4 | 276.2 | 275.3 | 275.4 |
| 21.5° | 267.8 | 268.5 | 269.2 | 271.5 | 275.3 | 275.7 | 276.2 | 275.1 | 275.0 | 274.2 | 274.3 |
| 22° | 266.4 | 267.1 | 267.8 | 270.1 | 274.0 | 274.5 | 274.9 | 274.0 | 273.8 | 273.0 | 273.1 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 265.0 | 265.7 | 266.4 | 268.6 | 272.8 | 273.2 | 273.6 | 272.7 | 272.6 | 271.7 | 271.9 |
| 23° | 263.5 | 264.3 | 265.0 | 267.3 | 271.4 | 272.0 | 272.4 | 271.5 | 271.3 | 270.5 | 270.6 |
| 23.5° | 262.1 | 262.8 | 263.5 | 265.8 | 270.1 | 270.6 | 271.1 | 270.3 | 270.1 | 269.2 | 269.2 |
| 24° | 260.6 | 261.3 | 262.1 | 264.4 | 268.6 | 269.2 | 269.8 | 268.8 | 268.7 | 267.9 | 268.0 |
| 24.5° | 259.0 | 259.9 | 260.5 | 262.9 | 267.3 | 267.8 | 268.4 | 267.5 | 267.4 | 266.5 | 266.6 |
| 25° | 257.4 | 258.3 | 258.9 | 261.3 | 265.8 | 266.4 | 267.0 | 266.1 | 266.0 | 265.1 | 265.3 |
| 25.5° | 256.0 | 256.7 | 257.3 | 259.8 | 264.3 | 264.9 | 265.6 | 264.6 | 264.5 | 263.7 | 263.9 |
| 26° | 254.2 | 255.1 | 255.8 | 258.2 | 262.8 | 263.4 | 264.1 | 263.2 | 263.1 | 262.3 | 262.4 |
| 26.5° | 252.6 | 253.5 | 254.2 | 256.5 | 261.2 | 261.9 | 262.6 | 261.7 | 261.8 | 260.7 | 260.9 |
| 27° | 250.9 | 251.8 | 252.4 | 254.8 | 259.6 | 260.4 | 261.1 | 260.3 | 260.3 | 259.2 | 259.4 |
| 27.5° | 249.3 | 250.1 | 250.7 | 253.1 | 258.1 | 258.8 | 259.5 | 258.8 | 258.7 | 257.7 | 258.0 |
| 28° | 247.5 | 248.4 | 249.0 | 251.4 | 256.3 | 257.0 | 258.0 | 257.1 | 257.2 | 256.2 | 256.4 |
| 28.5° | 245.8 | 246.7 | 247.3 | 249.7 | 254.7 | 255.3 | 256.3 | 255.5 | 255.7 | 254.6 | 254.9 |
| 29° | 244.0 | 244.9 | 245.6 | 248.0 | 252.9 | 253.6 | 254.7 | 253.9 | 253.9 | 253.0 | 253.2 |
| 29.5° | 242.2 | 243.1 | 243.8 | 246.2 | 251.2 | 251.9 | 253.0 | 252.2 | 252.3 | 251.3 | 251.6 |
| 30° | 240.4 | 241.3 | 242.0 | 244.3 | 249.4 | 250.1 | 251.3 | 250.5 | 250.6 | 249.8 | 250.0 |
| 30.5° | 238.6 | 239.5 | 240.2 | 242.5 | 247.6 | 248.3 | 249.5 | 248.9 | 249.1 | 248.1 | 248.3 |
| 31° | 236.7 | 237.6 | 238.3 | 240.6 | 245.7 | 246.5 | 247.7 | 247.1 | 247.4 | 246.4 | 246.6 |
| 31.5° | 234.9 | 235.8 | 236.4 | 238.8 | 243.9 | 244.6 | 245.9 | 245.3 | 245.7 | 244.6 | 244.9 |
| 32° | 233.0 | 234.0 | 234.5 | 236.9 | 241.9 | 242.7 | 244.1 | 243.5 | 243.9 | 242.8 | 243.1 |
| 32.5° | 231.0 | 232.1 | 232.6 | 235.0 | 240.1 | 240.8 | 242.3 | 241.8 | 242.1 | 241.0 | 241.3 |
| 33° | 229.1 | 230.1 | 230.6 | 233.0 | 238.1 | 238.9 | 240.5 | 239.9 | 240.3 | 239.2 | 239.6 |
| 33.5° | 227.1 | 228.2 | 228.6 | 231.0 | 236.1 | 236.9 | 238.6 | 238.1 | 238.5 | 237.4 | 237.7 |
| 34° | 225.1 | 226.2 | 226.7 | 229.0 | 234.1 | 234.9 | 236.7 | 236.2 | 236.7 | 235.6 | 235.9 |
| 34.5° | 223.2 | 224.3 | 224.8 | 226.9 | 232.1 | 232.9 | 234.8 | 234.4 | 234.9 | 233.8 | 234.0 |
| 35° | 221.2 | 222.3 | 222.8 | 224.9 | 230.1 | 230.8 | 232.8 | 232.5 | 233.1 | 231.9 | 232.2 |
| 35.5° | 219.2 | 220.3 | 220.7 | 222.9 | 228.0 | 228.7 | 230.8 | 230.5 | 231.2 | 230.0 | 230.3 |
| 36° | 217.1 | 218.3 | 218.6 | 220.8 | 226.0 | 226.7 | 228.8 | 228.6 | 229.2 | 228.1 | 228.4 |
| 36.5° | 215.0 | 216.2 | 216.6 | 218.7 | 223.9 | 224.6 | 226.8 | 226.6 | 227.2 | 226.1 | 226.4 |
| 37° | 213.0 | 214.1 | 214.5 | 216.7 | 221.8 | 222.5 | 224.7 | 224.7 | 225.2 | 224.2 | 224.5 |
| 37.5° | 210.9 | 212.1 | 212.4 | 214.5 | 219.7 | 220.5 | 222.6 | 222.8 | 223.2 | 222.2 | 222.5 |
| 38° | 208.9 | 210.0 | 210.4 | 212.4 | 217.6 | 218.5 | 220.6 | 220.7 | 221.3 | 220.3 | 220.5 |
| 38.5° | 206.8 | 207.9 | 208.3 | 210.2 | 215.5 | 216.4 | 218.5 | 218.7 | 219.3 | 218.3 | 218.5 |
| 39° | 204.6 | 205.8 | 206.1 | 208.1 | 213.4 | 214.2 | 216.4 | 216.6 | 217.3 | 216.2 | 216.5 |
| 39.5° | 202.5 | 203.7 | 203.9 | 206.0 | 211.3 | 212.1 | 214.3 | 214.5 | 215.3 | 214.2 | 214.4 |
| 40° | 200.3 | 201.5 | 201.7 | 203.7 | 209.0 | 209.9 | 212.2 | 212.4 | 213.4 | 212.2 | 212.4 |
| 40.5° | 198.1 | 199.3 | 199.6 | 201.5 | 206.9 | 207.7 | 210.0 | 210.4 | 211.2 | 210.2 | 210.3 |
| 41° | 196.0 | 197.2 | 197.3 | 199.3 | 204.6 | 205.5 | 207.9 | 208.3 | 209.0 | 208.0 | 208.2 |
| 41.5° | 193.7 | 194.9 | 195.0 | 197.1 | 202.5 | 203.3 | 205.7 | 206.1 | 207.0 | 206.0 | 206.1 |
| 42° | 191.5 | 192.6 | 192.7 | 194.8 | 200.3 | 201.1 | 203.6 | 204.1 | 204.9 | 203.8 | 204.0 |
| 42.5° | 189.2 | 190.4 | 190.5 | 192.5 | 198.0 | 198.9 | 201.4 | 201.8 | 202.8 | 201.7 | 201.9 |
| 43° | 186.9 | 188.2 | 188.1 | 190.2 | 195.8 | 196.6 | 199.2 | 199.7 | 200.7 | 199.6 | 199.7 |
| 43.5° | 184.6 | 185.9 | 185.8 | 187.9 | 193.5 | 194.3 | 197.0 | 197.5 | 198.5 | 197.4 | 197.5 |
| 44° | 182.3 | 183.5 | 183.5 | 185.5 | 191.2 | 192.0 | 194.6 | 195.2 | 196.3 | 195.2 | 195.3 |
| 44.5° | 180.0 | 181.2 | 181.1 | 183.1 | 188.8 | 189.7 | 192.3 | 192.9 | 194.0 | 193.0 | 193.1 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 177.7 | 178.9 | 178.7 | 180.7 | 186.5 | 187.4 | 190.0 | 190.7 | 191.9 | 190.8 | 190.9 |
| 45.5° | 175.3 | 176.5 | 176.3 | 178.3 | 184.2 | 185.2 | 187.7 | 188.4 | 189.6 | 188.6 | 188.6 |
| 46° | 172.9 | 174.2 | 173.9 | 175.9 | 181.8 | 182.7 | 185.3 | 186.1 | 187.4 | 186.3 | 186.4 |
| 46.5° | 170.6 | 171.8 | 171.5 | 173.4 | 179.5 | 180.3 | 183.0 | 183.8 | 185.1 | 184.0 | 184.1 |
| 47° | 168.1 | 169.3 | 169.2 | 171.0 | 177.0 | 178.0 | 180.5 | 181.3 | 182.9 | 181.7 | 181.7 |
| 47.5° | 165.7 | 166.9 | 166.5 | 168.6 | 174.5 | 175.6 | 178.1 | 178.9 | 180.4 | 179.4 | 179.4 |
| 48° | 163.2 | 164.2 | 164.0 | 165.9 | 172.0 | 173.2 | 175.7 | 176.5 | 178.0 | 177.1 | 177.0 |
| 48.5° | 160.6 | 161.6 | 161.4 | 163.4 | 169.4 | 170.8 | 173.2 | 174.2 | 175.6 | 174.7 | 174.6 |
| 49° | 157.9 | 159.0 | 158.6 | 160.7 | 166.9 | 168.2 | 170.8 | 171.7 | 173.2 | 172.4 | 172.3 |
| 49.5° | 155.2 | 156.2 | 155.8 | 158.1 | 164.2 | 165.6 | 168.4 | 169.4 | 170.9 | 170.0 | 169.9 |
| 50° | 152.2 | 153.3 | 153.0 | 155.4 | 161.6 | 162.9 | 165.8 | 166.7 | 168.6 | 167.5 | 167.4 |
| 50.5° | 149.4 | 150.6 | 150.0 | 152.5 | 159.0 | 160.2 | 163.2 | 164.2 | 166.0 | 165.0 | 165.0 |
| 51° | 146.4 | 147.6 | 147.1 | 149.5 | 156.2 | 157.4 | 160.6 | 161.5 | 163.4 | 162.4 | 162.4 |
| 51.5° | 143.6 | 144.7 | 144.2 | 146.6 | 153.3 | 154.7 | 157.8 | 158.8 | 160.9 | 159.9 | 159.8 |
| 52° | 140.6 | 141.7 | 141.1 | 143.6 | 150.4 | 151.7 | 154.9 | 156.1 | 158.1 | 157.1 | 157.1 |
| 52.5° | 137.5 | 138.6 | 138.1 | 140.6 | 147.5 | 148.9 | 152.2 | 153.3 | 155.4 | 154.4 | 154.4 |
| 53° | 134.5 | 135.7 | 135.0 | 137.6 | 144.6 | 145.9 | 149.3 | 150.3 | 152.6 | 151.6 | 151.6 |
| 53.5° | 131.4 | 132.5 | 131.9 | 134.5 | 141.6 | 142.9 | 146.5 | 147.5 | 149.7 | 148.7 | 148.8 |
| 54° | 128.3 | 129.4 | 128.8 | 131.4 | 138.5 | 139.9 | 143.5 | 144.5 | 146.8 | 145.8 | 145.9 |
| 54.5° | 125.2 | 126.2 | 125.7 | 128.4 | 135.5 | 136.9 | 140.4 | 141.6 | 143.9 | 142.9 | 143.0 |
| 55° | 122.1 | 123.1 | 122.6 | 125.3 | 132.4 | 133.8 | 137.5 | 138.7 | 140.9 | 140.1 | 140.0 |
| 55.5° | 119.1 | 119.9 | 119.5 | 122.0 | 129.2 | 130.9 | 134.4 | 135.6 | 137.9 | 137.0 | 136.9 |
| 56° | 116.0 | 116.8 | 116.4 | 118.9 | 126.1 | 127.8 | 131.3 | 132.7 | 134.9 | 134.0 | 134.0 |
| 56.5° | 112.9 | 113.6 | 113.3 | 115.8 | 123.0 | 124.6 | 128.4 | 129.7 | 131.9 | 131.1 | 131.0 |
| 57° | 109.7 | 110.5 | 110.1 | 112.8 | 119.9 | 121.4 | 125.4 | 126.5 | 128.9 | 128.0 | 127.9 |
| 57.5° | 106.6 | 107.4 | 106.9 | 109.5 | 116.7 | 118.3 | 122.1 | 123.4 | 125.8 | 124.9 | 125.0 |
| 58° | 103.5 | 104.3 | 103.9 | 106.4 | 113.5 | 115.2 | 119.0 | 120.4 | 122.7 | 121.8 | 121.8 |
| 58.5° | 100.4 | 101.2 | 100.7 | 103.3 | 110.4 | 112.0 | 116.0 | 117.2 | 119.7 | 118.7 | 118.7 |
| 59° | 97.4 | 98.1 | 97.7 | 100.1 | 107.2 | 108.9 | 112.9 | 114.2 | 116.5 | 115.7 | 115.6 |
| 59.5° | 94.2 | 94.9 | 94.6 | 97.0 | 104.1 | 105.8 | 109.7 | 111.1 | 113.5 | 112.6 | 112.6 |
| 60° | 91.2 | 91.9 | 91.5 | 94.0 | 101.1 | 102.7 | 106.6 | 108.0 | 110.4 | 109.5 | 109.4 |
| 60.5° | 88.2 | 89.0 | 88.5 | 91.0 | 98.0 | 99.5 | 103.6 | 104.9 | 107.4 | 106.4 | 106.4 |
| 61° | 85.2 | 86.0 | 85.4 | 87.9 | 94.8 | 96.3 | 100.5 | 101.8 | 104.3 | 103.3 | 103.4 |
| 61.5° | 82.2 | 82.9 | 82.4 | 84.9 | 91.7 | 93.2 | 97.3 | 98.7 | 101.3 | 100.2 | 100.3 |
| 62° | 79.2 | 79.9 | 79.4 | 81.9 | 88.7 | 90.2 | 94.3 | 95.6 | 98.2 | 97.2 | 97.1 |
| 62.5° | 76.3 | 77.0 | 76.6 | 78.9 | 85.7 | 87.2 | 91.3 | 92.6 | 95.0 | 94.1 | 94.1 |
| 63° | 73.5 | 74.1 | 73.6 | 76.0 | 82.6 | 84.3 | 88.2 | 89.6 | 92.0 | 91.2 | 91.1 |
| 63.5° | 70.7 | 71.3 | 70.8 | 73.2 | 79.6 | 81.3 | 85.2 | 86.7 | 89.0 | 88.2 | 88.1 |
| 64° | 67.8 | 68.5 | 68.0 | 70.3 | 76.8 | 78.2 | 82.4 | 83.6 | 86.1 | 85.2 | 85.1 |
| 64.5° | 65.0 | 65.6 | 65.2 | 67.3 | 73.8 | 75.4 | 79.2 | 80.7 | 83.0 | 82.2 | 82.2 |
| 65° | 62.2 | 62.8 | 62.3 | 64.6 | 70.9 | 72.5 | 76.4 | 77.7 | 80.0 | 79.2 | 79.2 |
| 65.5° | 59.5 | 60.1 | 59.6 | 61.8 | 68.1 | 69.5 | 73.4 | 74.8 | 77.1 | 76.2 | 76.4 |
| 66° | 56.7 | 57.4 | 56.8 | 59.1 | 65.1 | 66.7 | 70.4 | 71.9 | 74.2 | 73.4 | 73.4 |
| 66.5° | 54.2 | 54.7 | 54.3 | 56.3 | 62.3 | 63.9 | 67.7 | 69.0 | 71.3 | 70.6 | 70.5 |
| 67° | 51.5 | 52.1 | 51.5 | 53.7 | 59.6 | 61.1 | 64.8 | 66.2 | 68.4 | 67.7 | 67.6 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 67.5° | 48.9 | 49.5 | 49.0 | 51.1 | 56.9 | 58.3 | 62.0 | 63.3 | 65.6 | 64.8 | 64.8 |
| 68° | 46.4 | 46.9 | 46.4 | 48.5 | 54.2 | 55.7 | 59.3 | 60.5 | 62.9 | 62.0 | 62.1 |
| 68.5° | 43.9 | 44.4 | 43.9 | 45.9 | 51.6 | 52.9 | 56.6 | 57.8 | 60.1 | 59.3 | 59.3 |
| 69° | 41.4 | 41.9 | 41.5 | 43.4 | 48.8 | 50.2 | 53.9 | 54.9 | 57.4 | 56.5 | 56.6 |
| 69.5° | 38.9 | 39.6 | 39.0 | 41.0 | 46.3 | 47.6 | 51.1 | 52.3 | 54.6 | 53.8 | 54.0 |
| 70° | 36.7 | 37.1 | 36.7 | 38.4 | 43.8 | 45.1 | 48.5 | 49.6 | 51.9 | 51.2 | 51.2 |
| 70.5° | 34.3 | 34.8 | 34.4 | 36.1 | 41.4 | 42.6 | 45.9 | 47.1 | 49.2 | 48.5 | 48.6 |
| 71° | 32.1 | 32.6 | 32.1 | 33.9 | 38.8 | 40.1 | 43.4 | 44.5 | 46.7 | 45.9 | 46.0 |
| 71.5° | 29.9 | 30.5 | 29.9 | 31.6 | 36.5 | 37.7 | 41.0 | 42.0 | 44.1 | 43.4 | 43.5 |
| 72° | 27.8 | 28.4 | 27.7 | 29.5 | 34.2 | 35.2 | 38.4 | 39.4 | 41.6 | 40.8 | 41.1 |
| 72.5° | 25.8 | 26.3 | 25.8 | 27.3 | 31.9 | 32.9 | 36.0 | 37.0 | 39.1 | 38.4 | 38.5 |
| 73° | 23.9 | 24.2 | 23.9 | 25.3 | 29.8 | 30.8 | 33.8 | 34.7 | 36.6 | 36.0 | 36.1 |
| 73.5° | 22.1 | 22.3 | 22.1 | 23.4 | 27.5 | 28.7 | 31.5 | 32.4 | 34.3 | 33.7 | 33.7 |
| 74° | 20.3 | 20.4 | 20.2 | 21.5 | 25.5 | 26.6 | 29.2 | 30.2 | 31.9 | 31.4 | 31.5 |
| 74.5° | 18.5 | 18.8 | 18.5 | 19.7 | 23.6 | 24.4 | 27.1 | 27.9 | 29.7 | 29.3 | 29.3 |
| 75° | 16.8 | 17.1 | 16.8 | 18.0 | 21.7 | 22.4 | 25.1 | 25.9 | 27.5 | 27.1 | 27.2 |
| 75.5° | 15.2 | 15.5 | 15.1 | 16.4 | 19.9 | 20.6 | 23.1 | 23.9 | 25.4 | 24.9 | 25.2 |
| 76° | 13.7 | 14.2 | 13.6 | 14.8 | 18.1 | 18.8 | 21.1 | 21.8 | 23.5 | 22.9 | 23.2 |
| 76.5° | 12.5 | 12.7 | 12.4 | 13.4 | 16.4 | 17.0 | 19.3 | 19.9 | 21.5 | 20.9 | 21.1 |
| 77° | 11.4 | 11.3 | 11.2 | 12.1 | 14.8 | 15.6 | 17.6 | 18.2 | 19.7 | 19.2 | 19.3 |
| 77.5° | 9.9 | 10.1 | 9.8 | 10.9 | 13.4 | 14.1 | 16.0 | 16.6 | 17.9 | 17.4 | 17.5 |
| 78° | 9.0 | 9.2 | 8.9 | 9.5 | 12.2 | 12.7 | 14.5 | 14.9 | 16.3 | 15.9 | 16.0 |
| 78.5° | 7.8 | 8.0 | 7.8 | 8.6 | 10.9 | 11.4 | 12.9 | 13.3 | 14.7 | 14.3 | 14.5 |
| 79° | 7.1 | 7.2 | 6.9 | 7.6 | 9.5 | 10.0 | 11.5 | 11.9 | 13.0 | 12.7 | 12.8 |
| 79.5° | 6.1 | 6.2 | 6.0 | 6.7 | 8.7 | 9.1 | 10.4 | 10.7 | 11.8 | 11.5 | 11.5 |
| 80° | 5.8 | 5.8 | 5.5 | 5.9 | 7.6 | 7.8 | 9.3 | 9.6 | 10.5 | 10.1 | 10.3 |
| 80.5° | 5.1 | 5.0 | 4.9 | 5.2 | 6.7 | 7.1 | 8.0 | 8.4 | 9.3 | 9.1 | 9.2 |
| 81° | 4.4 | 4.4 | 4.3 | 4.7 | 5.9 | 6.1 | 7.1 | 7.5 | 8.1 | 7.9 | 7.9 |
| 81.5° | 4.1 | 4.1 | 4.1 | 4.1 | 5.2 | 5.7 | 6.1 | 6.5 | 7.2 | 7.1 | 7.0 |
| 82° | 3.7 | 3.7 | 3.5 | 4.0 | 4.7 | 5.0 | 5.7 | 5.9 | 6.3 | 6.1 | 6.1 |
| 82.5° | 3.3 | 3.2 | 3.1 | 3.3 | 4.2 | 4.4 | 4.9 | 5.1 | 5.8 | 5.5 | 5.7 |
| 83° | 2.9 | 2.9 | 2.7 | 3.0 | 4.0 | 4.1 | 4.2 | 4.5 | 5.0 | 4.8 | 4.9 |
| 83.5° | 2.5 | 2.4 | 2.4 | 2.4 | 3.3 | 3.5 | 4.0 | 4.1 | 4.3 | 4.3 | 4.2 |
| 84° | 2.3 | 2.2 | 2.3 | 2.3 | 3.0 | 3.2 | 3.3 | 4.0 | 4.0 | 4.1 | 4.0 |
| 84.5° | 1.8 | 1.7 | 1.7 | 2.2 | 2.5 | 2.9 | 3.1 | 3.3 | 3.7 | 3.5 | 3.4 |
| 85° | 1.5 | 1.5 | 1.5 | 1.7 | 2.3 | 2.4 | 2.7 | 2.9 | 3.2 | 3.2 | 3.2 |
| 85.5° | 1.6 | 1.5 | 1.6 | 1.4 | 2.2 | 2.3 | 2.3 | 2.5 | 2.9 | 2.8 | 2.8 |
| 86° | 0.7 | 0.7 | 0.7 | 0.9 | 1.7 | 1.7 | 2.3 | 2.3 | 2.4 | 2.4 | 2.3 |
| 86.5° | 0.6 | 0.6 | 0.6 | 0.6 | 1.3 | 1.4 | 1.6 | 2.1 | 2.3 | 2.3 | 2.2 |
| 87° | 0.5 | 0.4 | 0.4 | 0.5 | 1.0 | 1.6 | 1.4 | 1.6 | 1.7 | 1.7 | 1.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.8 | 1.4 | 1.5 | 1.4 | 1.5 | 1.5 |
| 88° | 0.0 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 0.6 | 0.8 | 1.5 | 1.5 | 1.4 |
| 88.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.6 |
| 89° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 |
| 89.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (continued):

| | | | | | | | | | | | |
|-----|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 0° | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 | 298.1 |
| 0.5° | 298.4 | 298.0 | 297.9 | 298.0 | 297.9 | 297.9 |
| 1° | 298.4 | 297.9 | 297.8 | 297.9 | 297.8 | 297.8 |
| 1.5° | 298.3 | 297.8 | 297.7 | 297.8 | 297.7 | 297.7 |
| 2° | 298.3 | 297.7 | 297.6 | 297.7 | 297.5 | 297.5 |
| 2.5° | 298.2 | 297.5 | 297.4 | 297.4 | 297.4 | 297.4 |
| 3° | 298.0 | 297.4 | 297.2 | 297.3 | 297.2 | 297.2 |
| 3.5° | 297.9 | 297.1 | 297.0 | 297.0 | 297.0 | 296.9 |
| 4° | 297.6 | 296.9 | 296.8 | 296.7 | 296.7 | 296.5 |
| 4.5° | 297.4 | 296.6 | 296.5 | 296.4 | 296.3 | 296.2 |
| 5° | 297.2 | 296.3 | 296.2 | 296.1 | 296.0 | 295.9 |
| 5.5° | 296.9 | 295.9 | 295.8 | 295.7 | 295.7 | 295.6 |
| 6° | 296.6 | 295.6 | 295.4 | 295.4 | 295.3 | 295.2 |
| 6.5° | 296.3 | 295.2 | 295.1 | 294.9 | 294.9 | 294.7 |
| 7° | 295.9 | 294.8 | 294.7 | 294.5 | 294.5 | 294.3 |
| 7.5° | 295.5 | 294.3 | 294.2 | 294.0 | 294.0 | 293.8 |
| 8° | 295.1 | 293.8 | 293.8 | 293.6 | 293.5 | 293.3 |
| 8.5° | 294.7 | 293.4 | 293.3 | 293.0 | 293.0 | 292.8 |
| 9° | 294.2 | 292.9 | 292.8 | 292.5 | 292.5 | 292.2 |
| 9.5° | 293.8 | 292.3 | 292.2 | 291.9 | 291.8 | 291.7 |
| 10° | 293.2 | 291.7 | 291.7 | 291.3 | 291.3 | 291.0 |
| 10.5° | 292.7 | 291.1 | 291.1 | 290.7 | 290.7 | 290.3 |
| 11° | 292.1 | 290.5 | 290.5 | 290.0 | 290.0 | 289.7 |
| 11.5° | 291.5 | 289.9 | 289.8 | 289.3 | 289.3 | 289.0 |
| 12° | 290.9 | 289.2 | 289.1 | 288.6 | 288.5 | 288.3 |
| 12.5° | 290.3 | 288.5 | 288.5 | 287.9 | 287.8 | 287.5 |
| 13° | 289.6 | 287.8 | 287.8 | 287.2 | 287.1 | 286.7 |
| 13.5° | 288.9 | 287.1 | 287.1 | 286.4 | 286.2 | 285.9 |
| 14° | 288.1 | 286.4 | 286.2 | 285.5 | 285.4 | 285.0 |
| 14.5° | 287.4 | 285.4 | 285.5 | 284.7 | 284.5 | 284.1 |
| 15° | 286.6 | 284.6 | 284.6 | 283.8 | 283.6 | 283.1 |
| 15.5° | 285.8 | 283.8 | 283.7 | 282.9 | 282.6 | 282.1 |
| 16° | 285.0 | 282.9 | 282.8 | 281.9 | 281.6 | 281.1 |
| 16.5° | 284.2 | 281.9 | 281.9 | 280.9 | 280.7 | 280.1 |
| 17° | 283.3 | 281.0 | 280.9 | 279.9 | 279.6 | 279.0 |
| 17.5° | 282.4 | 279.9 | 279.9 | 278.8 | 278.5 | 277.9 |
| 18° | 281.4 | 278.9 | 278.9 | 277.7 | 277.4 | 276.7 |
| 18.5° | 280.5 | 277.8 | 277.8 | 276.6 | 276.3 | 275.6 |
| 19° | 279.5 | 276.7 | 276.6 | 275.4 | 275.0 | 274.4 |
| 19.5° | 278.5 | 275.6 | 275.4 | 274.2 | 273.8 | 273.2 |
| 20° | 277.4 | 274.4 | 274.3 | 273.1 | 272.7 | 271.9 |
| 20.5° | 276.3 | 273.2 | 273.1 | 271.8 | 271.3 | 270.6 |
| 21° | 275.2 | 272.0 | 271.8 | 270.5 | 270.1 | 269.2 |
| 21.5° | 274.0 | 270.7 | 270.5 | 269.2 | 268.7 | 267.8 |
| 22° | 272.8 | 269.4 | 269.2 | 267.8 | 267.3 | 266.4 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 22.5° | 271.5 | 268.1 | 267.9 | 266.4 | 265.8 | 265.0 |
| 23° | 270.3 | 266.7 | 266.5 | 265.0 | 264.4 | 263.5 |
| 23.5° | 269.0 | 265.3 | 265.0 | 263.6 | 263.0 | 262.1 |
| 24° | 267.6 | 264.0 | 263.8 | 262.2 | 261.5 | 260.6 |
| 24.5° | 266.2 | 262.5 | 262.3 | 260.6 | 260.1 | 259.0 |
| 25° | 264.8 | 261.0 | 260.8 | 259.1 | 258.5 | 257.4 |
| 25.5° | 263.4 | 259.5 | 259.3 | 257.6 | 256.9 | 256.0 |
| 26° | 261.9 | 257.9 | 257.7 | 256.0 | 255.5 | 254.2 |
| 26.5° | 260.5 | 256.4 | 256.1 | 254.4 | 253.7 | 252.6 |
| 27° | 258.9 | 254.8 | 254.6 | 252.8 | 252.1 | 250.9 |
| 27.5° | 257.4 | 253.2 | 252.9 | 251.1 | 250.4 | 249.3 |
| 28° | 255.9 | 251.5 | 251.3 | 249.4 | 248.8 | 247.5 |
| 28.5° | 254.2 | 249.9 | 249.6 | 247.7 | 247.0 | 245.8 |
| 29° | 252.6 | 248.1 | 247.8 | 246.0 | 245.3 | 244.0 |
| 29.5° | 250.9 | 246.4 | 246.1 | 244.3 | 243.6 | 242.2 |
| 30° | 249.3 | 244.7 | 244.3 | 242.4 | 241.7 | 240.4 |
| 30.5° | 247.7 | 242.9 | 242.4 | 240.6 | 239.8 | 238.6 |
| 31° | 246.0 | 241.1 | 240.6 | 238.8 | 238.1 | 236.7 |
| 31.5° | 244.2 | 239.3 | 238.8 | 237.0 | 236.2 | 234.9 |
| 32° | 242.3 | 237.4 | 236.9 | 235.1 | 234.3 | 233.0 |
| 32.5° | 240.5 | 235.6 | 235.0 | 233.1 | 232.4 | 231.0 |
| 33° | 238.7 | 233.7 | 233.2 | 231.2 | 230.5 | 229.1 |
| 33.5° | 236.9 | 231.9 | 231.2 | 229.2 | 228.6 | 227.1 |
| 34° | 235.0 | 229.9 | 229.2 | 227.3 | 226.6 | 225.1 |
| 34.5° | 233.2 | 228.0 | 227.2 | 225.3 | 224.7 | 223.2 |
| 35° | 231.2 | 225.9 | 225.2 | 223.2 | 222.7 | 221.2 |
| 35.5° | 229.3 | 223.9 | 223.2 | 221.2 | 220.7 | 219.2 |
| 36° | 227.3 | 221.8 | 221.2 | 219.2 | 218.7 | 217.1 |
| 36.5° | 225.4 | 219.8 | 219.1 | 217.2 | 216.7 | 215.0 |
| 37° | 223.3 | 217.8 | 217.1 | 215.1 | 214.6 | 213.0 |
| 37.5° | 221.4 | 215.8 | 215.0 | 213.1 | 212.5 | 210.9 |
| 38° | 219.4 | 213.8 | 212.9 | 211.0 | 210.4 | 208.9 |
| 38.5° | 217.4 | 211.7 | 210.8 | 208.8 | 208.3 | 206.8 |
| 39° | 215.3 | 209.5 | 208.7 | 206.7 | 206.3 | 204.6 |
| 39.5° | 213.3 | 207.3 | 206.6 | 204.6 | 204.1 | 202.5 |
| 40° | 211.2 | 205.2 | 204.4 | 202.4 | 201.9 | 200.3 |
| 40.5° | 209.0 | 203.0 | 202.2 | 200.2 | 199.8 | 198.1 |
| 41° | 206.9 | 200.8 | 200.0 | 198.0 | 197.6 | 196.0 |
| 41.5° | 204.8 | 198.6 | 197.8 | 195.9 | 195.4 | 193.7 |
| 42° | 202.6 | 196.4 | 195.6 | 193.5 | 193.1 | 191.5 |
| 42.5° | 200.3 | 194.1 | 193.4 | 191.2 | 190.9 | 189.2 |
| 43° | 198.1 | 191.8 | 191.2 | 189.0 | 188.7 | 186.9 |
| 43.5° | 195.9 | 189.5 | 188.9 | 186.7 | 186.4 | 184.6 |
| 44° | 193.6 | 187.2 | 186.6 | 184.4 | 184.0 | 182.3 |
| 44.5° | 191.4 | 184.9 | 184.3 | 182.0 | 181.7 | 180.0 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 189.1 | 182.4 | 181.9 | 179.7 | 179.4 | 177.7 |
| 45.5° | 186.7 | 180.1 | 179.6 | 177.4 | 177.1 | 175.3 |
| 46° | 184.3 | 177.6 | 177.2 | 175.0 | 174.7 | 172.9 |
| 46.5° | 182.0 | 175.1 | 174.8 | 172.6 | 172.3 | 170.6 |
| 47° | 179.5 | 172.7 | 172.5 | 170.2 | 170.0 | 168.1 |
| 47.5° | 177.2 | 170.2 | 170.0 | 167.8 | 167.5 | 165.7 |
| 48° | 174.7 | 167.7 | 167.4 | 165.3 | 165.0 | 163.2 |
| 48.5° | 172.3 | 165.1 | 165.0 | 162.9 | 162.4 | 160.6 |
| 49° | 169.8 | 162.4 | 162.4 | 160.2 | 159.9 | 157.9 |
| 49.5° | 167.4 | 159.8 | 159.8 | 157.5 | 157.3 | 155.2 |
| 50° | 164.8 | 157.0 | 157.1 | 154.9 | 154.5 | 152.2 |
| 50.5° | 162.2 | 154.3 | 154.4 | 151.9 | 151.6 | 149.4 |
| 51° | 159.5 | 151.5 | 151.5 | 149.1 | 148.8 | 146.4 |
| 51.5° | 156.9 | 148.6 | 148.7 | 146.2 | 145.8 | 143.6 |
| 52° | 154.1 | 145.8 | 145.8 | 143.4 | 142.9 | 140.6 |
| 52.5° | 151.3 | 142.8 | 142.9 | 140.5 | 139.9 | 137.5 |
| 53° | 148.4 | 139.9 | 139.9 | 137.3 | 136.8 | 134.5 |
| 53.5° | 145.5 | 136.9 | 136.9 | 134.4 | 133.8 | 131.4 |
| 54° | 142.6 | 133.8 | 133.9 | 131.3 | 130.7 | 128.3 |
| 54.5° | 139.5 | 130.8 | 130.8 | 128.2 | 127.6 | 125.2 |
| 55° | 136.5 | 127.9 | 127.7 | 125.2 | 124.5 | 122.1 |
| 55.5° | 133.5 | 124.8 | 124.7 | 122.2 | 121.4 | 119.1 |
| 56° | 130.6 | 121.8 | 121.6 | 119.0 | 118.2 | 116.0 |
| 56.5° | 127.6 | 118.7 | 118.5 | 115.9 | 115.1 | 112.9 |
| 57° | 124.5 | 115.6 | 115.5 | 112.8 | 112.0 | 109.7 |
| 57.5° | 121.3 | 112.6 | 112.5 | 109.7 | 108.9 | 106.6 |
| 58° | 118.2 | 109.5 | 109.3 | 106.5 | 105.8 | 103.5 |
| 58.5° | 115.2 | 106.5 | 106.2 | 103.5 | 102.7 | 100.4 |
| 59° | 112.2 | 103.5 | 103.3 | 100.4 | 99.5 | 97.4 |
| 59.5° | 109.1 | 100.4 | 100.2 | 97.4 | 96.5 | 94.2 |
| 60° | 106.0 | 97.5 | 97.1 | 94.2 | 93.5 | 91.2 |
| 60.5° | 103.0 | 94.4 | 94.1 | 91.3 | 90.5 | 88.2 |
| 61° | 99.8 | 91.5 | 91.1 | 88.2 | 87.5 | 85.2 |
| 61.5° | 96.8 | 88.5 | 88.1 | 85.1 | 84.5 | 82.2 |
| 62° | 93.8 | 85.5 | 85.1 | 82.2 | 81.5 | 79.2 |
| 62.5° | 90.9 | 82.7 | 82.2 | 79.3 | 78.5 | 76.3 |
| 63° | 87.9 | 79.8 | 79.2 | 76.4 | 75.6 | 73.5 |
| 63.5° | 85.0 | 77.0 | 76.4 | 73.6 | 72.8 | 70.7 |
| 64° | 81.9 | 74.1 | 73.6 | 70.8 | 70.0 | 67.8 |
| 64.5° | 79.0 | 71.2 | 70.7 | 67.9 | 67.0 | 65.0 |
| 65° | 76.2 | 68.6 | 68.0 | 65.1 | 64.3 | 62.2 |
| 65.5° | 73.3 | 65.7 | 65.1 | 62.2 | 61.5 | 59.5 |
| 66° | 70.6 | 63.0 | 62.3 | 59.6 | 58.7 | 56.7 |
| 66.5° | 67.7 | 60.3 | 59.6 | 56.8 | 56.0 | 54.2 |
| 67° | 64.9 | 57.7 | 57.0 | 54.3 | 53.4 | 51.5 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 62.0 | 55.0 | 54.3 | 51.5 | 50.8 | 48.9 |
| 68° | 59.4 | 52.4 | 51.8 | 49.0 | 48.2 | 46.4 |
| 68.5° | 56.6 | 49.7 | 49.1 | 46.4 | 45.7 | 43.9 |
| 69° | 53.9 | 47.2 | 46.6 | 43.9 | 43.3 | 41.4 |
| 69.5° | 51.3 | 44.7 | 44.0 | 41.5 | 40.7 | 38.9 |
| 70° | 48.7 | 42.2 | 41.5 | 39.0 | 38.3 | 36.7 |
| 70.5° | 46.2 | 40.0 | 39.3 | 36.7 | 36.0 | 34.3 |
| 71° | 43.7 | 37.6 | 36.8 | 34.4 | 33.8 | 32.1 |
| 71.5° | 41.3 | 35.1 | 34.5 | 32.2 | 31.5 | 29.9 |
| 72° | 38.7 | 33.0 | 32.4 | 29.9 | 29.4 | 27.8 |
| 72.5° | 36.4 | 30.9 | 30.1 | 27.7 | 27.2 | 25.8 |
| 73° | 34.1 | 28.8 | 28.0 | 25.9 | 25.3 | 23.9 |
| 73.5° | 31.9 | 26.7 | 25.8 | 23.9 | 23.4 | 22.1 |
| 74° | 29.6 | 24.6 | 23.8 | 22.0 | 21.5 | 20.3 |
| 74.5° | 27.5 | 22.6 | 22.0 | 20.2 | 19.7 | 18.5 |
| 75° | 25.5 | 20.7 | 20.1 | 18.4 | 18.0 | 16.8 |
| 75.5° | 23.4 | 19.0 | 18.4 | 16.8 | 16.4 | 15.2 |
| 76° | 21.5 | 17.2 | 16.8 | 15.2 | 14.7 | 13.7 |
| 76.5° | 19.6 | 15.8 | 15.3 | 13.5 | 13.3 | 12.5 |
| 77° | 17.8 | 14.3 | 13.7 | 12.3 | 12.1 | 11.4 |
| 77.5° | 16.2 | 12.7 | 12.3 | 11.0 | 10.9 | 9.9 |
| 78° | 14.7 | 11.5 | 11.1 | 9.7 | 9.6 | 9.0 |
| 78.5° | 13.1 | 10.0 | 9.7 | 8.7 | 8.6 | 7.8 |
| 79° | 11.7 | 9.1 | 8.7 | 7.8 | 7.6 | 7.1 |
| 79.5° | 10.5 | 7.9 | 7.6 | 6.8 | 6.8 | 6.1 |
| 80° | 9.5 | 7.1 | 6.7 | 6.0 | 5.9 | 5.8 |
| 80.5° | 8.1 | 6.1 | 5.9 | 5.3 | 5.3 | 5.1 |
| 81° | 7.3 | 5.5 | 5.2 | 4.8 | 4.7 | 4.4 |
| 81.5° | 6.3 | 4.9 | 4.7 | 4.2 | 4.1 | 4.1 |
| 82° | 5.9 | 4.3 | 4.1 | 4.0 | 4.0 | 3.7 |
| 82.5° | 5.1 | 4.0 | 3.9 | 3.4 | 3.3 | 3.3 |
| 83° | 4.4 | 3.4 | 3.3 | 3.1 | 3.0 | 2.9 |
| 83.5° | 4.1 | 3.2 | 3.0 | 2.6 | 2.6 | 2.5 |
| 84° | 3.7 | 2.8 | 2.5 | 2.4 | 2.3 | 2.3 |
| 84.5° | 3.2 | 2.4 | 2.3 | 2.3 | 2.2 | 1.8 |
| 85° | 2.9 | 2.3 | 2.2 | 1.7 | 1.7 | 1.5 |
| 85.5° | 2.5 | 1.7 | 1.8 | 1.5 | 1.5 | 1.6 |
| 86° | 2.3 | 1.4 | 1.3 | 1.6 | 1.4 | 0.7 |
| 86.5° | 1.9 | 1.7 | 1.2 | 0.7 | 0.6 | 0.6 |
| 87° | 1.5 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 |
| 87.5° | 1.5 | 0.6 | 0.5 | 0.5 | 0.0 | 0.0 |
| 88° | 0.8 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 88.5° | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 89° | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 89.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P294436

CATALOG NUMBER: RL6069S1EWHDM-4000K

CANDELA DISTRIBUTION (continued):

| | | | | | | |
|-----|--------|------|--------|------|--------|------|
| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)