

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: McGRAW-EDISON

Report Number: P228606

Luminaire Tested: **ISS-AF-800-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-800-LED-E1-SLR-8030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3329 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

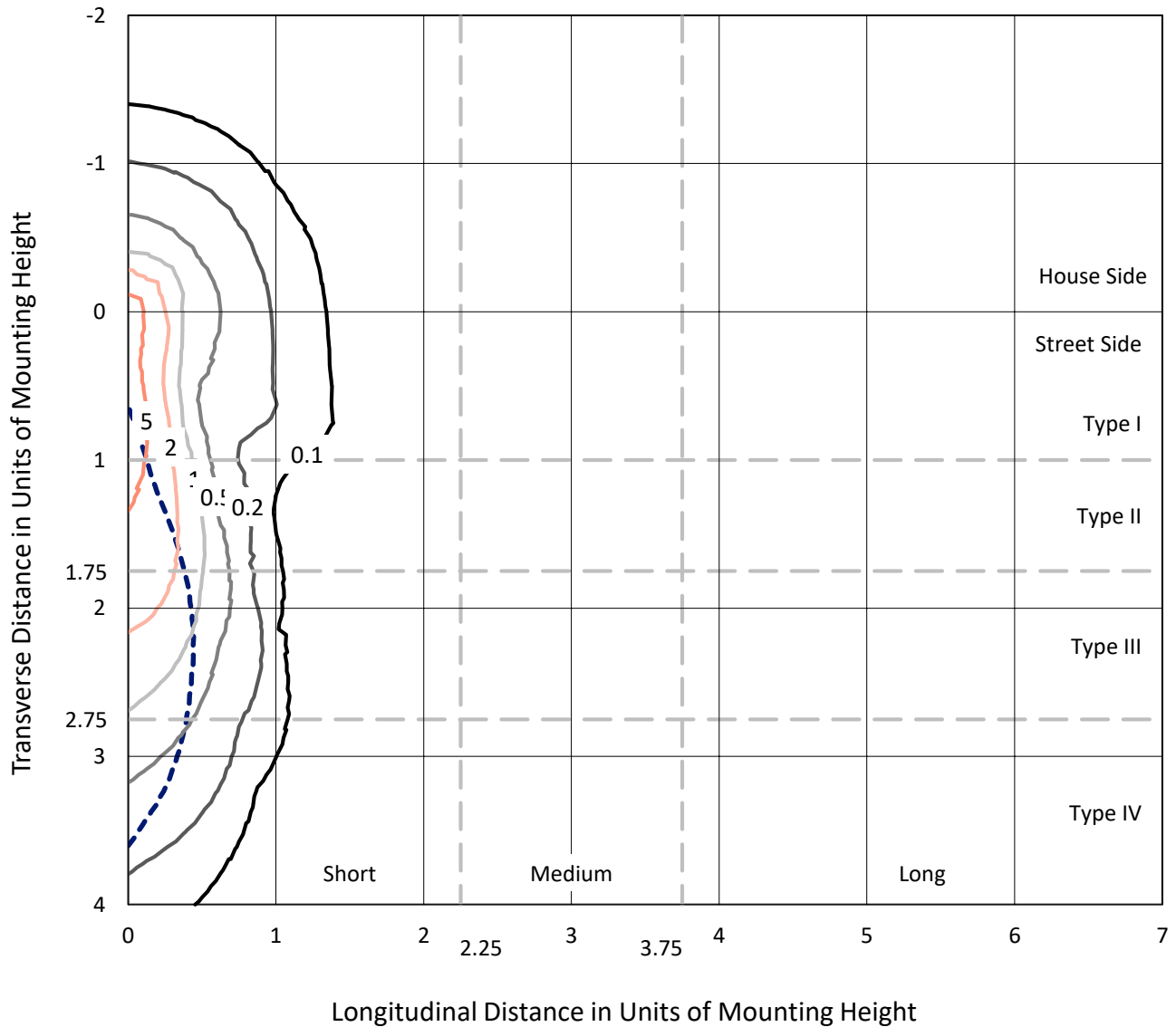
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

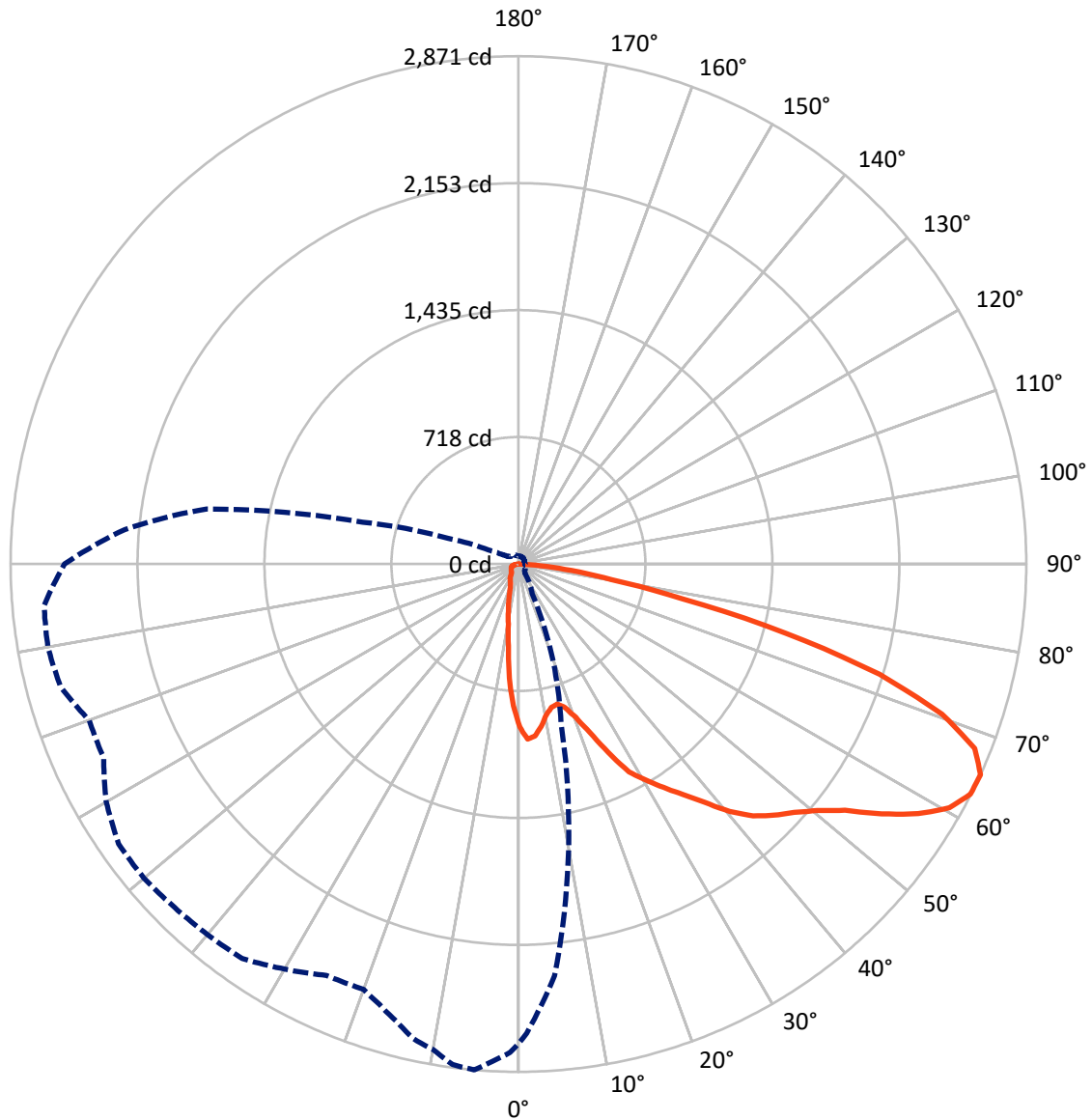
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 553.5 | 0.0 | 553.5 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 2775.5 | 0.0 | 2775.5 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 3329.0 | 0.0 | 3329.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.7 | 2.1 |
| 10°-20° | 145.8 | 4.4 |
| 20°-30° | 211.9 | 6.4 |
| 30°-40° | 313.4 | 9.4 |
| 40°-50° | 456.6 | 13.7 |
| 50°-60° | 684.5 | 20.6 |
| 60°-70° | 853.0 | 25.6 |
| 70°-80° | 499.7 | 15.0 |
| 80°-90° | 93.4 | 2.8 |
| 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°-90° | 3329.0 | 100.0 |
| 0°-180° | 3329.0 | 100.0 |



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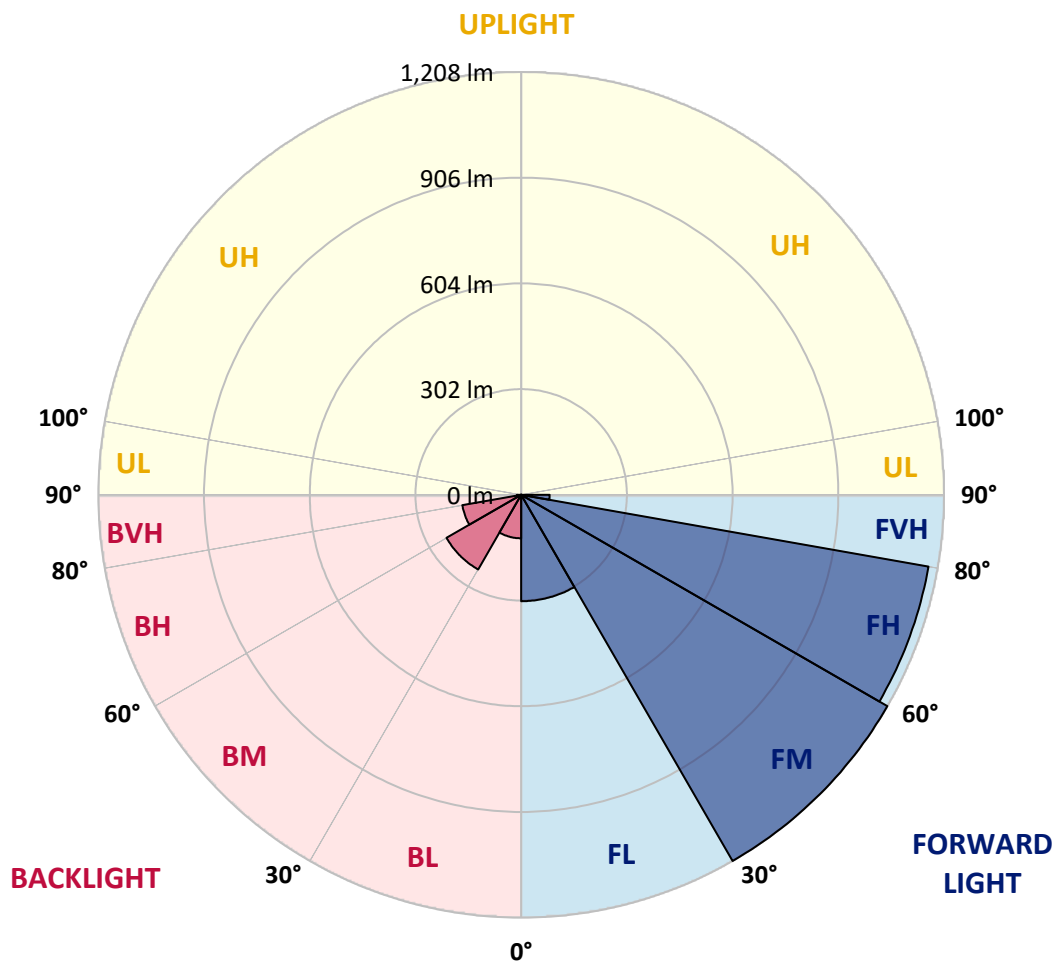
CATALOG NUMBER: ISS-AF-800-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 304.1 | 9.1 | | | |
| FM | (30°-60°) | 1208.2 | 36.3 | | | |
| FH | (60°-80°) | 1181.8 | 35.5 | | | G1/1800 |
| FVH | (80°-90°) | 81.4 | 2.4 | | | G1/100 |
| BL | (0°-30°) | 124.3 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 246.4 | 7.4 | B1/1000 | | |
| BH | (60°-80°) | 170.8 | 5.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 12.0 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short





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CATALOG NUMBER: ISS-AF-800-LED-E1-SLR-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 |
| 2.5° | 977.9 | 970.0 | 954.2 | 922.6 | 889.6 | 858.0 | 852.7 | 840.9 | 842.2 | 835.6 | 833.0 |
| 5° | 946.3 | 935.8 | 902.8 | 836.9 | 780.2 | 722.3 | 718.3 | 694.6 | 697.2 | 682.7 | 674.8 |
| 7.5° | 876.5 | 862.0 | 825.1 | 734.1 | 655.0 | 578.6 | 570.7 | 543.0 | 539.1 | 524.6 | 512.7 |
| 10° | 807.9 | 793.4 | 747.3 | 643.2 | 552.2 | 495.6 | 486.3 | 473.2 | 462.6 | 456.0 | 444.2 |
| 12.5° | 764.4 | 756.5 | 701.2 | 581.2 | 510.1 | 463.9 | 452.1 | 438.9 | 428.3 | 416.5 | 404.6 |
| 15° | 755.2 | 739.4 | 682.7 | 561.5 | 478.4 | 421.8 | 407.3 | 392.8 | 380.9 | 369.0 | 351.9 |
| 17.5° | 780.2 | 764.4 | 701.2 | 552.2 | 442.8 | 374.3 | 355.9 | 336.1 | 324.2 | 309.7 | 291.3 |
| 20° | 839.6 | 814.5 | 736.7 | 539.1 | 404.6 | 319.0 | 296.5 | 272.8 | 259.6 | 234.6 | 221.4 |
| 22.5° | 934.4 | 902.8 | 797.4 | 539.1 | 369.0 | 261.0 | 235.9 | 214.8 | 200.3 | 177.9 | 163.4 |
| 25° | 1070.2 | 1042.5 | 896.2 | 553.6 | 337.4 | 212.2 | 187.2 | 166.1 | 151.6 | 135.8 | 126.5 |
| 27.5° | 1196.7 | 1153.2 | 1001.7 | 574.6 | 312.4 | 177.9 | 152.9 | 135.8 | 125.2 | 117.3 | 112.0 |
| 30° | 1291.6 | 1256.0 | 1093.9 | 589.1 | 275.5 | 148.9 | 133.1 | 122.6 | 117.3 | 113.3 | 110.7 |
| 32.5° | 1378.6 | 1337.7 | 1159.8 | 598.4 | 253.1 | 126.5 | 112.0 | 104.1 | 98.8 | 93.6 | 92.3 |
| 35° | 1470.9 | 1431.3 | 1237.6 | 597.0 | 238.6 | 116.0 | 101.5 | 92.3 | 87.0 | 85.7 | 83.0 |
| 37.5° | 1598.7 | 1544.7 | 1327.2 | 597.0 | 233.3 | 112.0 | 94.9 | 85.7 | 81.7 | 79.1 | 77.8 |
| 40° | 1722.6 | 1662.0 | 1426.1 | 601.0 | 228.0 | 109.4 | 94.9 | 85.7 | 79.1 | 76.4 | 73.8 |
| 42.5° | 1838.6 | 1771.4 | 1515.7 | 607.6 | 225.4 | 101.5 | 89.6 | 84.4 | 81.7 | 76.4 | 72.5 |
| 45° | 1926.9 | 1874.2 | 1585.5 | 620.8 | 225.4 | 96.2 | 84.4 | 80.4 | 79.1 | 79.1 | 77.8 |
| 47.5° | 2012.6 | 1953.2 | 1665.9 | 645.8 | 229.3 | 92.3 | 80.4 | 75.1 | 75.1 | 75.1 | 76.4 |
| 50° | 2123.3 | 2053.4 | 1776.6 | 697.2 | 229.3 | 90.9 | 76.4 | 71.2 | 69.9 | 72.5 | 72.5 |
| 52.5° | 2273.5 | 2223.4 | 1938.7 | 771.0 | 226.7 | 89.6 | 75.1 | 67.2 | 65.9 | 67.2 | 69.9 |
| 55° | 2485.7 | 2429.0 | 2135.1 | 862.0 | 224.1 | 87.0 | 72.5 | 65.9 | 63.3 | 61.9 | 63.3 |
| 57.5° | 2668.9 | 2620.1 | 2315.7 | 934.4 | 217.5 | 80.4 | 69.9 | 64.6 | 60.6 | 59.3 | 58.0 |
| 60° | 2749.3 | 2708.4 | 2431.7 | 983.2 | 205.6 | 73.8 | 65.9 | 61.9 | 58.0 | 56.7 | 55.4 |
| 62.5° | 2762.5 | 2711.1 | 2433.0 | 993.8 | 192.4 | 67.2 | 61.9 | 58.0 | 55.4 | 54.0 | 52.7 |
| 65° | 2711.1 | 2653.1 | 2336.8 | 929.2 | 181.9 | 67.2 | 59.3 | 55.4 | 51.4 | 50.1 | 48.8 |
| 67.5° | 2595.1 | 2505.5 | 2092.9 | 788.2 | 172.7 | 68.5 | 58.0 | 51.4 | 48.8 | 47.4 | 46.1 |
| 70° | 2315.7 | 2215.5 | 1767.4 | 626.0 | 168.7 | 69.9 | 58.0 | 48.8 | 44.8 | 43.5 | 43.5 |
| 72.5° | 1855.7 | 1741.0 | 1378.6 | 471.8 | 162.1 | 71.2 | 56.7 | 46.1 | 42.2 | 39.5 | 39.5 |
| 75° | 1256.0 | 1155.9 | 934.4 | 319.0 | 134.4 | 61.9 | 51.4 | 42.2 | 36.9 | 34.3 | 32.9 |
| 77.5° | 699.8 | 666.9 | 594.4 | 168.7 | 85.7 | 46.1 | 39.5 | 34.3 | 30.3 | 29.0 | 27.7 |
| 80° | 411.2 | 394.1 | 350.6 | 93.6 | 52.7 | 26.4 | 23.7 | 22.4 | 19.8 | 19.8 | 19.8 |
| 82.5° | 251.7 | 234.6 | 217.5 | 42.2 | 25.0 | 13.2 | 13.2 | 10.5 | 10.5 | 9.2 | 9.2 |
| 85° | 68.5 | 63.3 | 88.3 | 9.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ISS-AF-800-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 |
| 2.5° | 822.4 | 819.8 | 819.8 | 800.0 | 800.0 | 789.5 | 786.8 | 786.8 | 790.8 | 788.2 | 772.3 |
| 5° | 661.6 | 653.7 | 648.4 | 624.7 | 618.1 | 606.3 | 601.0 | 599.7 | 603.6 | 597.0 | 576.0 |
| 7.5° | 498.2 | 491.6 | 483.7 | 465.2 | 457.3 | 456.0 | 440.2 | 436.3 | 433.6 | 428.3 | 415.2 |
| 10° | 434.9 | 425.7 | 419.1 | 405.9 | 396.7 | 390.1 | 376.9 | 370.4 | 365.1 | 357.2 | 353.2 |
| 12.5° | 391.4 | 382.2 | 373.0 | 355.9 | 344.0 | 336.1 | 328.2 | 315.0 | 309.7 | 300.5 | 295.2 |
| 15° | 337.4 | 326.9 | 316.3 | 297.9 | 282.0 | 274.1 | 258.3 | 250.4 | 245.1 | 234.6 | 229.3 |
| 17.5° | 271.5 | 257.0 | 245.1 | 228.0 | 220.1 | 206.9 | 197.7 | 184.5 | 174.0 | 170.0 | 166.1 |
| 20° | 204.3 | 191.1 | 180.6 | 166.1 | 158.2 | 147.6 | 142.3 | 133.1 | 127.8 | 125.2 | 122.6 |
| 22.5° | 150.2 | 139.7 | 133.1 | 125.2 | 121.3 | 117.3 | 114.7 | 112.0 | 109.4 | 108.1 | 108.1 |
| 25° | 118.6 | 114.7 | 112.0 | 109.4 | 108.1 | 106.8 | 104.1 | 102.8 | 101.5 | 100.2 | 100.2 |
| 27.5° | 108.1 | 105.4 | 104.1 | 102.8 | 101.5 | 98.8 | 98.8 | 96.2 | 94.9 | 94.9 | 93.6 |
| 30° | 109.4 | 109.4 | 109.4 | 106.8 | 105.4 | 102.8 | 101.5 | 97.5 | 94.9 | 92.3 | 90.9 |
| 32.5° | 89.6 | 89.6 | 88.3 | 85.7 | 84.4 | 83.0 | 83.0 | 80.4 | 79.1 | 79.1 | 81.7 |
| 35° | 81.7 | 80.4 | 79.1 | 76.4 | 75.1 | 72.5 | 71.2 | 69.9 | 68.5 | 67.2 | 67.2 |
| 37.5° | 77.8 | 76.4 | 75.1 | 72.5 | 71.2 | 69.9 | 68.5 | 65.9 | 64.6 | 64.6 | 63.3 |
| 40° | 73.8 | 73.8 | 73.8 | 71.2 | 69.9 | 67.2 | 65.9 | 64.6 | 63.3 | 61.9 | 61.9 |
| 42.5° | 71.2 | 71.2 | 71.2 | 69.9 | 68.5 | 67.2 | 64.6 | 63.3 | 61.9 | 60.6 | 59.3 |
| 45° | 72.5 | 71.2 | 71.2 | 69.9 | 68.5 | 65.9 | 64.6 | 61.9 | 60.6 | 59.3 | 58.0 |
| 47.5° | 77.8 | 76.4 | 73.8 | 71.2 | 68.5 | 65.9 | 63.3 | 60.6 | 59.3 | 58.0 | 56.7 |
| 50° | 73.8 | 79.1 | 80.4 | 76.4 | 69.9 | 65.9 | 63.3 | 60.6 | 58.0 | 56.7 | 55.4 |
| 52.5° | 72.5 | 73.8 | 79.1 | 79.1 | 72.5 | 67.2 | 63.3 | 60.6 | 58.0 | 55.4 | 54.0 |
| 55° | 65.9 | 69.9 | 71.2 | 72.5 | 71.2 | 65.9 | 61.9 | 58.0 | 56.7 | 54.0 | 51.4 |
| 57.5° | 58.0 | 60.6 | 61.9 | 64.6 | 65.9 | 64.6 | 59.3 | 55.4 | 54.0 | 51.4 | 48.8 |
| 60° | 54.0 | 54.0 | 54.0 | 55.4 | 61.9 | 67.2 | 61.9 | 54.0 | 50.1 | 48.8 | 46.1 |
| 62.5° | 50.1 | 50.1 | 48.8 | 50.1 | 51.4 | 58.0 | 56.7 | 51.4 | 48.8 | 47.4 | 44.8 |
| 65° | 48.8 | 47.4 | 46.1 | 46.1 | 46.1 | 46.1 | 46.1 | 46.1 | 44.8 | 44.8 | 43.5 |
| 67.5° | 44.8 | 43.5 | 43.5 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 40.9 | 40.9 | 39.5 |
| 70° | 42.2 | 40.9 | 39.5 | 39.5 | 39.5 | 38.2 | 38.2 | 38.2 | 36.9 | 36.9 | 36.9 |
| 72.5° | 38.2 | 36.9 | 36.9 | 36.9 | 35.6 | 35.6 | 35.6 | 34.3 | 34.3 | 32.9 | 32.9 |
| 75° | 32.9 | 32.9 | 31.6 | 31.6 | 31.6 | 30.3 | 30.3 | 30.3 | 30.3 | 29.0 | 29.0 |
| 77.5° | 27.7 | 26.4 | 27.7 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 25.0 | 25.0 | 23.7 |
| 80° | 18.5 | 18.5 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 18.5 |
| 82.5° | 10.5 | 9.2 | 10.5 | 10.5 | 10.5 | 11.9 | 11.9 | 13.2 | 11.9 | 11.9 | 10.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 2.6 | 2.6 | 2.6 | 2.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 77.5° | 80° | 85° | 90° | 95° | 100° | 102.5° | 105° | 107.5° | 110° | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|
| 0° | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 |
| 2.5° | 780.2 | 778.9 | 765.7 | 768.4 | 764.4 | 756.5 | 757.8 | 759.2 | 761.8 | 756.5 | 753.9 |
| 5° | 586.5 | 587.8 | 570.7 | 576.0 | 572.0 | 570.7 | 574.6 | 581.2 | 585.2 | 583.9 | 579.9 |
| 7.5° | 416.5 | 417.8 | 403.3 | 402.0 | 398.0 | 396.7 | 402.0 | 408.6 | 412.5 | 411.2 | 412.5 |
| 10° | 344.0 | 340.0 | 326.9 | 317.6 | 308.4 | 300.5 | 299.2 | 299.2 | 299.2 | 296.5 | 293.9 |
| 12.5° | 284.7 | 280.7 | 264.9 | 257.0 | 249.1 | 238.6 | 237.2 | 235.9 | 232.0 | 228.0 | 222.7 |
| 15° | 221.4 | 217.5 | 204.3 | 199.0 | 192.4 | 188.5 | 187.2 | 187.2 | 184.5 | 181.9 | 179.2 |
| 17.5° | 160.8 | 158.2 | 150.2 | 145.0 | 143.7 | 145.0 | 146.3 | 148.9 | 150.2 | 151.6 | 151.6 |
| 20° | 121.3 | 119.9 | 117.3 | 117.3 | 118.6 | 122.6 | 123.9 | 127.8 | 129.2 | 131.8 | 134.4 |
| 22.5° | 106.8 | 106.8 | 105.4 | 105.4 | 108.1 | 112.0 | 114.7 | 116.0 | 117.3 | 118.6 | 118.6 |
| 25° | 98.8 | 98.8 | 97.5 | 100.2 | 104.1 | 104.1 | 104.1 | 104.1 | 101.5 | 100.2 | 100.2 |
| 27.5° | 93.6 | 93.6 | 93.6 | 94.9 | 93.6 | 92.3 | 92.3 | 92.3 | 90.9 | 90.9 | 89.6 |
| 30° | 89.6 | 89.6 | 89.6 | 88.3 | 88.3 | 87.0 | 87.0 | 85.7 | 85.7 | 84.4 | 84.4 |
| 32.5° | 83.0 | 80.4 | 83.0 | 80.4 | 80.4 | 79.1 | 80.4 | 80.4 | 77.8 | 77.8 | 77.8 |
| 35° | 65.9 | 64.6 | 64.6 | 64.6 | 63.3 | 64.6 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 |
| 37.5° | 61.9 | 61.9 | 60.6 | 59.3 | 59.3 | 58.0 | 59.3 | 58.0 | 58.0 | 58.0 | 59.3 |
| 40° | 60.6 | 59.3 | 58.0 | 58.0 | 56.7 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 |
| 42.5° | 58.0 | 58.0 | 55.4 | 54.0 | 54.0 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 |
| 45° | 56.7 | 55.4 | 54.0 | 52.7 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 50.1 |
| 47.5° | 55.4 | 54.0 | 52.7 | 51.4 | 50.1 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 |
| 50° | 54.0 | 52.7 | 50.1 | 50.1 | 48.8 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 |
| 52.5° | 51.4 | 51.4 | 48.8 | 47.4 | 46.1 | 46.1 | 46.1 | 46.1 | 46.1 | 46.1 | 46.1 |
| 55° | 48.8 | 48.8 | 46.1 | 44.8 | 43.5 | 43.5 | 43.5 | 43.5 | 44.8 | 44.8 | 44.8 |
| 57.5° | 47.4 | 46.1 | 43.5 | 43.5 | 40.9 | 40.9 | 40.9 | 42.2 | 42.2 | 43.5 | 43.5 |
| 60° | 44.8 | 43.5 | 42.2 | 40.9 | 40.9 | 39.5 | 39.5 | 39.5 | 39.5 | 40.9 | 40.9 |
| 62.5° | 43.5 | 42.2 | 39.5 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 |
| 65° | 40.9 | 40.9 | 38.2 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 |
| 67.5° | 38.2 | 38.2 | 35.6 | 34.3 | 34.3 | 34.3 | 35.6 | 34.3 | 34.3 | 34.3 | 34.3 |
| 70° | 35.6 | 34.3 | 32.9 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 |
| 72.5° | 31.6 | 31.6 | 30.3 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 30.3 |
| 75° | 27.7 | 26.4 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| 77.5° | 23.7 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 22.4 |
| 80° | 17.1 | 15.8 | 15.8 | 15.8 | 15.8 | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 | 17.1 |
| 82.5° | 10.5 | 9.2 | 9.2 | 9.2 | 10.5 | 11.9 | 11.9 | 11.9 | 11.9 | 13.2 | 13.2 |
| 85° | 2.6 | 2.6 | 2.6 | 2.6 | 5.3 | 6.6 | 6.6 | 6.6 | 7.9 | 6.6 | 6.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ISS-AF-800-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

| | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 135° | 145° | 155° | 165° |
|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 |
| 2.5° | 751.2 | 767.1 | 767.1 | 756.5 | 761.8 | 756.5 | 755.2 | 764.4 | 769.7 | 786.8 | 797.4 |
| 5° | 581.2 | 601.0 | 602.3 | 597.0 | 603.6 | 599.7 | 603.6 | 615.5 | 624.7 | 636.6 | 647.1 |
| 7.5° | 415.2 | 433.6 | 437.6 | 433.6 | 445.5 | 444.2 | 446.8 | 460.0 | 467.9 | 474.5 | 475.8 |
| 10° | 292.6 | 295.2 | 305.8 | 303.1 | 311.0 | 309.7 | 313.7 | 324.2 | 334.8 | 338.7 | 341.4 |
| 12.5° | 220.1 | 217.5 | 221.4 | 216.1 | 220.1 | 220.1 | 221.4 | 228.0 | 241.2 | 246.5 | 259.6 |
| 15° | 177.9 | 175.3 | 175.3 | 172.7 | 172.7 | 171.3 | 172.7 | 177.9 | 187.2 | 195.1 | 205.6 |
| 17.5° | 151.6 | 151.6 | 151.6 | 150.2 | 148.9 | 148.9 | 150.2 | 152.9 | 158.2 | 163.4 | 168.7 |
| 20° | 135.8 | 138.4 | 139.7 | 141.0 | 142.3 | 143.7 | 145.0 | 148.9 | 147.6 | 142.3 | 135.8 |
| 22.5° | 118.6 | 118.6 | 119.9 | 119.9 | 118.6 | 118.6 | 118.6 | 118.6 | 118.6 | 122.6 | 126.5 |
| 25° | 98.8 | 98.8 | 98.8 | 100.2 | 98.8 | 98.8 | 100.2 | 100.2 | 101.5 | 104.1 | 108.1 |
| 27.5° | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 90.9 | 92.3 | 96.2 | 98.8 |
| 30° | 83.0 | 83.0 | 81.7 | 81.7 | 81.7 | 80.4 | 81.7 | 81.7 | 83.0 | 88.3 | 92.3 |
| 32.5° | 76.4 | 75.1 | 75.1 | 75.1 | 73.8 | 73.8 | 73.8 | 76.4 | 77.8 | 80.4 | 84.4 |
| 35° | 67.2 | 67.2 | 67.2 | 68.5 | 68.5 | 68.5 | 68.5 | 71.2 | 71.2 | 72.5 | 72.5 |
| 37.5° | 60.6 | 60.6 | 61.9 | 63.3 | 63.3 | 64.6 | 64.6 | 65.9 | 67.2 | 65.9 | 64.6 |
| 40° | 55.4 | 56.7 | 56.7 | 59.3 | 59.3 | 59.3 | 60.6 | 61.9 | 63.3 | 60.6 | 60.6 |
| 42.5° | 52.7 | 52.7 | 52.7 | 54.0 | 54.0 | 54.0 | 55.4 | 56.7 | 58.0 | 58.0 | 58.0 |
| 45° | 50.1 | 50.1 | 50.1 | 51.4 | 50.1 | 50.1 | 50.1 | 51.4 | 54.0 | 54.0 | 55.4 |
| 47.5° | 48.8 | 48.8 | 48.8 | 47.4 | 47.4 | 47.4 | 47.4 | 48.8 | 50.1 | 52.7 | 54.0 |
| 50° | 47.4 | 46.1 | 46.1 | 46.1 | 46.1 | 46.1 | 46.1 | 47.4 | 48.8 | 50.1 | 52.7 |
| 52.5° | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 46.1 | 47.4 | 48.8 | 50.1 |
| 55° | 44.8 | 44.8 | 43.5 | 43.5 | 44.8 | 44.8 | 44.8 | 46.1 | 47.4 | 48.8 | 48.8 |
| 57.5° | 43.5 | 42.2 | 42.2 | 43.5 | 43.5 | 43.5 | 43.5 | 44.8 | 46.1 | 47.4 | 47.4 |
| 60° | 40.9 | 40.9 | 40.9 | 40.9 | 42.2 | 42.2 | 43.5 | 44.8 | 44.8 | 46.1 | 46.1 |
| 62.5° | 38.2 | 39.5 | 39.5 | 39.5 | 40.9 | 40.9 | 42.2 | 43.5 | 44.8 | 46.1 | 44.8 |
| 65° | 36.9 | 38.2 | 38.2 | 38.2 | 39.5 | 39.5 | 39.5 | 42.2 | 43.5 | 43.5 | 44.8 |
| 67.5° | 35.6 | 35.6 | 35.6 | 36.9 | 36.9 | 38.2 | 38.2 | 40.9 | 40.9 | 42.2 | 43.5 |
| 70° | 32.9 | 32.9 | 32.9 | 34.3 | 34.3 | 35.6 | 36.9 | 38.2 | 38.2 | 39.5 | 40.9 |
| 72.5° | 30.3 | 30.3 | 30.3 | 31.6 | 31.6 | 32.9 | 34.3 | 36.9 | 35.6 | 36.9 | 36.9 |
| 75° | 26.4 | 26.4 | 27.7 | 27.7 | 29.0 | 30.3 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 |
| 77.5° | 22.4 | 22.4 | 23.7 | 23.7 | 25.0 | 26.4 | 26.4 | 26.4 | 27.7 | 26.4 | 26.4 |
| 80° | 18.5 | 18.5 | 19.8 | 19.8 | 19.8 | 19.8 | 21.1 | 19.8 | 21.1 | 19.8 | 21.1 |
| 82.5° | 13.2 | 13.2 | 14.5 | 13.2 | 14.5 | 13.2 | 13.2 | 11.9 | 14.5 | 13.2 | 13.2 |
| 85° | 5.3 | 6.6 | 6.6 | 6.6 | 6.6 | 5.3 | 5.3 | 4.0 | 5.3 | 5.3 | 4.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 175° | 180° | 185° | 195° | 205° | 215° | 225° | 230° | 235° | 240° | 245° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 |
| 2.5° | 801.3 | 800.0 | 819.8 | 834.3 | 843.5 | 879.1 | 894.9 | 914.7 | 923.9 | 937.1 | 950.3 |
| 5° | 648.4 | 645.8 | 669.5 | 688.0 | 703.8 | 755.2 | 785.5 | 813.2 | 835.6 | 856.7 | 887.0 |
| 7.5° | 463.9 | 458.7 | 474.5 | 490.3 | 511.4 | 566.7 | 619.4 | 656.4 | 689.3 | 724.9 | 764.4 |
| 10° | 342.7 | 346.6 | 362.4 | 386.2 | 413.8 | 456.0 | 498.2 | 524.6 | 553.6 | 593.1 | 640.5 |
| 12.5° | 274.1 | 290.0 | 303.1 | 332.1 | 365.1 | 412.5 | 457.3 | 478.4 | 499.5 | 519.3 | 544.3 |
| 15° | 220.1 | 229.3 | 239.9 | 267.5 | 307.1 | 362.4 | 415.2 | 438.9 | 463.9 | 487.7 | 510.1 |
| 17.5° | 170.0 | 174.0 | 179.2 | 199.0 | 234.6 | 300.5 | 358.5 | 388.8 | 417.8 | 450.7 | 481.1 |
| 20° | 135.8 | 135.8 | 137.1 | 146.3 | 171.3 | 222.7 | 293.9 | 332.1 | 369.0 | 411.2 | 454.7 |
| 22.5° | 118.6 | 117.3 | 118.6 | 122.6 | 134.4 | 164.7 | 229.3 | 274.1 | 321.6 | 374.3 | 428.3 |
| 25° | 112.0 | 110.7 | 109.4 | 112.0 | 118.6 | 133.1 | 179.2 | 226.7 | 275.5 | 338.7 | 404.6 |
| 27.5° | 101.5 | 102.8 | 104.1 | 106.8 | 112.0 | 119.9 | 148.9 | 184.5 | 238.6 | 308.4 | 387.5 |
| 30° | 94.9 | 96.2 | 97.5 | 100.2 | 109.4 | 118.6 | 135.8 | 158.2 | 204.3 | 272.8 | 361.1 |
| 32.5° | 87.0 | 88.3 | 89.6 | 90.9 | 93.6 | 104.1 | 116.0 | 134.4 | 174.0 | 241.2 | 333.4 |
| 35° | 71.2 | 71.2 | 72.5 | 76.4 | 81.7 | 92.3 | 104.1 | 118.6 | 155.5 | 220.1 | 316.3 |
| 37.5° | 65.9 | 65.9 | 67.2 | 71.2 | 76.4 | 85.7 | 96.2 | 109.4 | 147.6 | 212.2 | 300.5 |
| 40° | 61.9 | 63.3 | 63.3 | 67.2 | 72.5 | 83.0 | 89.6 | 105.4 | 143.7 | 200.3 | 284.7 |
| 42.5° | 59.3 | 59.3 | 60.6 | 64.6 | 71.2 | 79.1 | 88.3 | 102.8 | 133.1 | 189.8 | 275.5 |
| 45° | 56.7 | 58.0 | 58.0 | 61.9 | 69.9 | 76.4 | 89.6 | 97.5 | 126.5 | 181.9 | 267.5 |
| 47.5° | 55.4 | 55.4 | 56.7 | 60.6 | 68.5 | 77.8 | 87.0 | 92.3 | 119.9 | 175.3 | 261.0 |
| 50° | 52.7 | 54.0 | 55.4 | 59.3 | 67.2 | 85.7 | 83.0 | 88.3 | 114.7 | 170.0 | 257.0 |
| 52.5° | 51.4 | 52.7 | 54.0 | 58.0 | 67.2 | 87.0 | 80.4 | 83.0 | 110.7 | 164.7 | 254.4 |
| 55° | 50.1 | 50.1 | 51.4 | 56.7 | 67.2 | 80.4 | 75.1 | 80.4 | 102.8 | 156.8 | 247.8 |
| 57.5° | 47.4 | 48.8 | 50.1 | 54.0 | 65.9 | 73.8 | 71.2 | 76.4 | 94.9 | 143.7 | 238.6 |
| 60° | 47.4 | 47.4 | 48.8 | 52.7 | 65.9 | 65.9 | 67.2 | 72.5 | 85.7 | 127.8 | 222.7 |
| 62.5° | 46.1 | 46.1 | 47.4 | 52.7 | 67.2 | 59.3 | 63.3 | 68.5 | 79.1 | 114.7 | 203.0 |
| 65° | 44.8 | 44.8 | 46.1 | 50.1 | 58.0 | 56.7 | 60.6 | 64.6 | 76.4 | 105.4 | 185.8 |
| 67.5° | 42.2 | 42.2 | 43.5 | 47.4 | 51.4 | 52.7 | 58.0 | 61.9 | 75.1 | 104.1 | 170.0 |
| 70° | 39.5 | 39.5 | 39.5 | 43.5 | 46.1 | 50.1 | 54.0 | 59.3 | 75.1 | 102.8 | 158.2 |
| 72.5° | 36.9 | 35.6 | 36.9 | 39.5 | 42.2 | 44.8 | 48.8 | 55.4 | 73.8 | 104.1 | 152.9 |
| 75° | 31.6 | 31.6 | 31.6 | 34.3 | 36.9 | 39.5 | 43.5 | 51.4 | 69.9 | 97.5 | 137.1 |
| 77.5° | 26.4 | 26.4 | 25.0 | 29.0 | 31.6 | 32.9 | 36.9 | 44.8 | 60.6 | 83.0 | 110.7 |
| 80° | 19.8 | 18.5 | 18.5 | 22.4 | 23.7 | 26.4 | 29.0 | 34.3 | 47.4 | 60.6 | 81.7 |
| 82.5° | 11.9 | 10.5 | 10.5 | 14.5 | 15.8 | 17.1 | 22.4 | 25.0 | 31.6 | 39.5 | 55.4 |
| 85° | 4.0 | 4.0 | 4.0 | 6.6 | 7.9 | 9.2 | 13.2 | 14.5 | 19.8 | 25.0 | 29.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 4.0 | 6.6 | 7.9 | 6.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA

| | 250° | 255° | 260° | 265° | 270° | 275° | 280° | 285° | 290° | 295° | 300° | |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 0° |
| 2.5° | 966.1 | 979.3 | 996.4 | 1012.2 | 1024.1 | 1034.6 | 1047.8 | 1047.8 | 1063.6 | 1068.9 | 1079.4 | 2.5° |
| 5° | 910.7 | 935.8 | 972.7 | 1003.0 | 1039.9 | 1075.5 | 1108.4 | 1126.9 | 1158.5 | 1179.6 | 1200.7 | 5° |
| 7.5° | 798.7 | 833.0 | 879.1 | 921.3 | 975.3 | 1033.3 | 1087.3 | 1137.4 | 1190.1 | 1234.9 | 1267.9 | 7.5° |
| 10° | 681.4 | 728.8 | 777.6 | 831.6 | 889.6 | 951.6 | 1017.5 | 1084.7 | 1148.0 | 1211.2 | 1265.3 | 10° |
| 12.5° | 585.2 | 639.2 | 694.6 | 761.8 | 829.0 | 894.9 | 972.7 | 1030.7 | 1096.6 | 1159.8 | 1212.5 | 12.5° |
| 15° | 544.3 | 591.8 | 656.4 | 730.2 | 801.3 | 868.5 | 941.0 | 1000.3 | 1062.3 | 1113.7 | 1150.6 | 15° |
| 17.5° | 527.2 | 587.8 | 661.6 | 739.4 | 815.8 | 897.5 | 962.1 | 1012.2 | 1058.3 | 1082.1 | 1087.3 | 17.5° |
| 20° | 508.7 | 591.8 | 690.6 | 785.5 | 879.1 | 964.8 | 1012.2 | 1045.2 | 1053.1 | 1051.7 | 1032.0 | 20° |
| 22.5° | 498.2 | 605.0 | 727.5 | 860.6 | 977.9 | 1078.1 | 1111.1 | 1104.5 | 1071.5 | 1029.3 | 996.4 | 22.5° |
| 25° | 495.6 | 635.3 | 790.8 | 967.4 | 1111.1 | 1211.2 | 1229.7 | 1192.8 | 1119.0 | 1037.2 | 981.9 | 25° |
| 27.5° | 498.2 | 669.5 | 869.9 | 1082.1 | 1250.8 | 1353.6 | 1347.0 | 1291.6 | 1186.2 | 1071.5 | 983.2 | 27.5° |
| 30° | 486.3 | 705.1 | 948.9 | 1182.2 | 1349.6 | 1435.3 | 1408.9 | 1325.9 | 1208.6 | 1093.9 | 1000.3 | 30° |
| 32.5° | 466.6 | 731.5 | 1018.8 | 1262.6 | 1452.4 | 1517.0 | 1469.5 | 1379.9 | 1258.7 | 1141.4 | 1045.2 | 32.5° |
| 35° | 444.2 | 743.3 | 1068.9 | 1337.7 | 1563.1 | 1597.4 | 1520.9 | 1430.0 | 1319.3 | 1200.7 | 1096.6 | 35° |
| 37.5° | 420.4 | 744.7 | 1116.3 | 1416.8 | 1669.9 | 1684.4 | 1573.7 | 1476.1 | 1368.1 | 1261.3 | 1166.4 | 37.5° |
| 40° | 407.3 | 739.4 | 1165.1 | 1514.4 | 1784.5 | 1764.8 | 1629.0 | 1514.4 | 1407.6 | 1325.9 | 1248.1 | 40° |
| 42.5° | 402.0 | 730.2 | 1200.7 | 1588.2 | 1883.4 | 1839.9 | 1680.4 | 1552.6 | 1456.4 | 1387.8 | 1333.8 | 42.5° |
| 45° | 402.0 | 720.9 | 1233.6 | 1643.5 | 1957.2 | 1900.5 | 1729.2 | 1589.5 | 1503.8 | 1461.6 | 1435.3 | 45° |
| 47.5° | 403.3 | 724.9 | 1273.2 | 1733.1 | 2020.5 | 1958.5 | 1767.4 | 1643.5 | 1569.7 | 1553.9 | 1563.1 | 47.5° |
| 50° | 409.9 | 769.7 | 1340.4 | 1832.0 | 2099.5 | 2020.5 | 1818.8 | 1704.1 | 1659.3 | 1675.1 | 1727.9 | 50° |
| 52.5° | 420.4 | 840.9 | 1456.4 | 1949.3 | 2222.1 | 2119.3 | 1904.5 | 1791.1 | 1770.0 | 1826.7 | 1926.9 | 52.5° |
| 55° | 431.0 | 913.4 | 1607.9 | 2145.7 | 2419.8 | 2298.6 | 2056.0 | 1942.7 | 1917.7 | 2004.6 | 2148.3 | 55° |
| 57.5° | 440.2 | 967.4 | 1755.5 | 2340.7 | 2591.1 | 2498.9 | 2256.4 | 2119.3 | 2108.8 | 2202.3 | 2359.2 | 57.5° |
| 60° | 449.4 | 1009.6 | 1841.2 | 2427.7 | 2668.9 | 2659.7 | 2463.3 | 2336.8 | 2321.0 | 2407.9 | 2556.9 | 60° |
| 62.5° | 444.2 | 993.8 | 1864.9 | 2384.2 | 2662.3 | 2738.8 | 2632.0 | 2542.4 | 2488.3 | 2560.8 | 2705.8 | 62.5° |
| 65° | 424.4 | 910.7 | 1789.8 | 2234.0 | 2566.1 | 2691.3 | 2700.5 | 2679.4 | 2581.9 | 2587.2 | 2690.0 | 65° |
| 67.5° | 370.4 | 765.7 | 1559.2 | 1996.7 | 2377.6 | 2526.6 | 2682.1 | 2675.5 | 2551.6 | 2442.2 | 2463.3 | 67.5° |
| 70° | 307.1 | 601.0 | 1271.8 | 1700.2 | 2110.1 | 2237.9 | 2485.7 | 2535.8 | 2359.2 | 2154.9 | 2058.7 | 70° |
| 72.5° | 258.3 | 449.4 | 977.9 | 1316.7 | 1691.0 | 1839.9 | 2207.6 | 2277.5 | 2036.3 | 1749.0 | 1600.0 | 72.5° |
| 75° | 214.8 | 317.6 | 688.0 | 906.8 | 1166.4 | 1362.8 | 1926.9 | 1933.5 | 1652.7 | 1376.0 | 1215.2 | 75° |
| 77.5° | 159.5 | 216.1 | 498.2 | 633.9 | 801.3 | 970.0 | 1557.8 | 1575.0 | 1311.4 | 1043.8 | 905.5 | 77.5° |
| 80° | 106.8 | 133.1 | 317.6 | 442.8 | 539.1 | 649.8 | 1142.7 | 1070.2 | 865.9 | 723.6 | 688.0 | 80° |
| 82.5° | 64.6 | 77.8 | 183.2 | 309.7 | 340.0 | 404.6 | 718.3 | 670.9 | 570.7 | 521.9 | 535.1 | 82.5° |
| 85° | 35.6 | 48.8 | 112.0 | 203.0 | 158.2 | 221.4 | 392.8 | 383.5 | 359.8 | 315.0 | 274.1 | 85° |
| 87.5° | 9.2 | 10.5 | 25.0 | 9.2 | 4.0 | 11.9 | 76.4 | 50.1 | 50.1 | 29.0 | 10.5 | 87.5° |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90° |

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 305° | 310° | 315° | 325° | 335° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 921.3 | 0° 921.3 |
| 1070.2 | 1074.2 | 1072.8 | 1063.6 | 1039.9 | 1030.7 | 1026.7 | 1016.2 | 1004.3 | 1004.3 | 993.8 | 2.5° 991.1 |
| 1199.4 | 1205.9 | 1198.0 | 1175.6 | 1115.0 | 1086.0 | 1068.9 | 1047.8 | 1030.7 | 1014.8 | 999.0 | 5° 976.6 |
| 1290.3 | 1295.6 | 1282.4 | 1231.0 | 1122.9 | 1074.2 | 1047.8 | 1022.8 | 1001.7 | 974.0 | 948.9 | 7.5° 926.5 |
| 1307.4 | 1319.3 | 1304.8 | 1231.0 | 1105.8 | 1045.2 | 1016.2 | 988.5 | 958.2 | 929.2 | 893.6 | 10° 865.9 |
| 1258.7 | 1283.7 | 1273.2 | 1219.1 | 1097.9 | 1033.3 | 999.0 | 966.1 | 929.2 | 898.9 | 858.0 | 12.5° 831.6 |
| 1183.5 | 1186.2 | 1192.8 | 1191.5 | 1083.4 | 1020.1 | 985.8 | 951.6 | 918.6 | 889.6 | 854.0 | 15° 821.1 |
| 1100.5 | 1097.9 | 1105.8 | 1130.8 | 1079.4 | 1029.3 | 1006.9 | 974.0 | 950.3 | 917.3 | 889.6 | 17.5° 852.7 |
| 1025.4 | 1021.4 | 1029.3 | 1054.4 | 1063.6 | 1051.7 | 1042.5 | 1022.8 | 1004.3 | 983.2 | 960.8 | 20° 925.2 |
| 977.9 | 964.8 | 963.4 | 1000.3 | 1071.5 | 1103.1 | 1109.7 | 1107.1 | 1105.8 | 1090.0 | 1074.2 | 22.5° 1033.3 |
| 951.6 | 937.1 | 943.7 | 985.8 | 1104.5 | 1163.8 | 1194.1 | 1204.6 | 1219.1 | 1219.1 | 1219.1 | 25° 1179.6 |
| 943.7 | 927.9 | 937.1 | 984.5 | 1138.7 | 1237.6 | 1281.1 | 1307.4 | 1335.1 | 1347.0 | 1354.9 | 27.5° 1329.8 |
| 948.9 | 933.1 | 937.1 | 993.8 | 1155.9 | 1254.7 | 1306.1 | 1344.3 | 1387.8 | 1416.8 | 1436.6 | 30° 1416.8 |
| 979.3 | 951.6 | 948.9 | 1021.4 | 1187.5 | 1292.9 | 1347.0 | 1390.5 | 1439.2 | 1472.2 | 1507.8 | 32.5° 1505.1 |
| 1020.1 | 980.6 | 975.3 | 1066.2 | 1228.4 | 1341.7 | 1395.7 | 1434.0 | 1484.0 | 1528.9 | 1580.3 | 35° 1598.7 |
| 1088.6 | 1039.9 | 1032.0 | 1141.4 | 1283.7 | 1382.6 | 1436.6 | 1486.7 | 1540.7 | 1598.7 | 1664.6 | 37.5° 1708.1 |
| 1180.9 | 1132.1 | 1132.1 | 1237.6 | 1358.8 | 1439.2 | 1498.5 | 1551.3 | 1610.6 | 1688.3 | 1768.7 | 40° 1838.6 |
| 1285.0 | 1253.4 | 1258.7 | 1353.6 | 1444.5 | 1510.4 | 1567.1 | 1623.7 | 1685.7 | 1763.5 | 1857.0 | 42.5° 1946.7 |
| 1423.4 | 1406.3 | 1432.6 | 1499.9 | 1531.5 | 1576.3 | 1626.4 | 1676.5 | 1743.7 | 1824.1 | 1930.8 | 45° 2025.7 |
| 1585.5 | 1600.0 | 1636.9 | 1658.0 | 1619.8 | 1643.5 | 1683.1 | 1729.2 | 1808.3 | 1890.0 | 1995.4 | 47.5° 2098.2 |
| 1788.5 | 1826.7 | 1862.3 | 1857.0 | 1729.2 | 1721.3 | 1758.2 | 1793.8 | 1872.8 | 1966.4 | 2078.4 | 50° 2189.2 |
| 2021.8 | 2071.9 | 2096.9 | 2067.9 | 1851.8 | 1805.6 | 1835.9 | 1884.7 | 1971.7 | 2078.4 | 2203.7 | 52.5° 2311.7 |
| 2259.0 | 2319.6 | 2311.7 | 2278.8 | 1984.9 | 1922.9 | 1941.4 | 1999.4 | 2106.1 | 2227.4 | 2385.5 | 55° 2492.3 |
| 2473.8 | 2521.3 | 2542.4 | 2471.2 | 2147.0 | 2065.3 | 2086.4 | 2147.0 | 2260.3 | 2396.1 | 2558.2 | 57.5° 2663.6 |
| 2643.9 | 2695.3 | 2695.3 | 2625.4 | 2323.6 | 2228.7 | 2264.3 | 2323.6 | 2421.1 | 2555.6 | 2707.1 | 60° 2798.1 |
| 2767.8 | 2808.6 | 2794.1 | 2726.9 | 2475.2 | 2402.7 | 2430.3 | 2512.1 | 2600.4 | 2700.5 | 2820.5 | 62.5° 2866.6 |
| 2758.5 | 2762.5 | 2746.7 | 2721.6 | 2566.1 | 2558.2 | 2610.9 | 2674.2 | 2748.0 | 2786.2 | 2853.4 | 65° 2870.6 |
| 2498.9 | 2500.2 | 2531.8 | 2521.3 | 2497.6 | 2595.1 | 2663.6 | 2716.4 | 2780.9 | 2780.9 | 2773.0 | 67.5° 2780.9 |
| 2048.1 | 2069.2 | 2123.3 | 2107.4 | 2228.7 | 2429.0 | 2508.1 | 2588.5 | 2645.2 | 2645.2 | 2578.0 | 70° 2539.7 |
| 1559.2 | 1572.3 | 1636.9 | 1622.4 | 1787.2 | 2007.3 | 2181.3 | 2315.7 | 2371.0 | 2405.3 | 2319.6 | 72.5° 2133.8 |
| 1134.8 | 1133.5 | 1161.1 | 1140.1 | 1348.3 | 1593.4 | 1772.7 | 1940.1 | 2031.0 | 2060.0 | 1904.5 | 75° 1564.4 |
| 873.8 | 850.1 | 844.8 | 847.5 | 955.5 | 1158.5 | 1300.8 | 1407.6 | 1419.5 | 1423.4 | 1213.9 | 77.5° 947.6 |
| 705.1 | 705.1 | 697.2 | 668.2 | 585.2 | 677.4 | 749.9 | 834.3 | 864.6 | 908.1 | 727.5 | 80° 533.8 |
| 562.8 | 540.4 | 500.8 | 444.2 | 375.6 | 400.7 | 434.9 | 466.6 | 518.0 | 536.4 | 442.8 | 82.5° 303.1 |
| 280.7 | 272.8 | 238.6 | 197.7 | 164.7 | 218.8 | 243.8 | 246.5 | 246.5 | 228.0 | 185.8 | 85° 123.9 |
| 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 87.5° 0.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90° 0.0 |

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TION (continued):

| 359° | 360° |
|--------|--------|
| 921.3 | 921.3 |
| 975.3 | 977.9 |
| 954.2 | 946.3 |
| 888.3 | 876.5 |
| 817.1 | 807.9 |
| 776.3 | 764.4 |
| 768.4 | 755.2 |
| 796.1 | 780.2 |
| 858.0 | 839.6 |
| 956.9 | 934.4 |
| 1092.6 | 1070.2 |
| 1225.7 | 1196.7 |
| 1320.6 | 1291.6 |
| 1412.9 | 1378.6 |
| 1505.1 | 1470.9 |
| 1629.0 | 1598.7 |
| 1766.1 | 1722.6 |
| 1879.4 | 1838.6 |
| 1969.1 | 1926.9 |
| 2054.7 | 2012.6 |
| 2152.3 | 2123.3 |
| 2298.6 | 2273.5 |
| 2521.3 | 2485.7 |
| 2684.7 | 2668.9 |
| 2769.1 | 2749.3 |
| 2795.4 | 2762.5 |
| 2761.2 | 2711.1 |
| 2653.1 | 2595.1 |
| 2392.1 | 2315.7 |
| 1907.1 | 1855.7 |
| 1286.3 | 1256.0 |
| 739.4 | 699.8 |
| 424.4 | 411.2 |
| 238.6 | 251.7 |
| 61.9 | 68.5 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |

(END OF REPORT)