

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: INVUE

Report Number: P162310

Luminaire Tested: **EMM-F01-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P162310
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-F01-LED-E1-SL2-HSS-8030
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1214.6 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

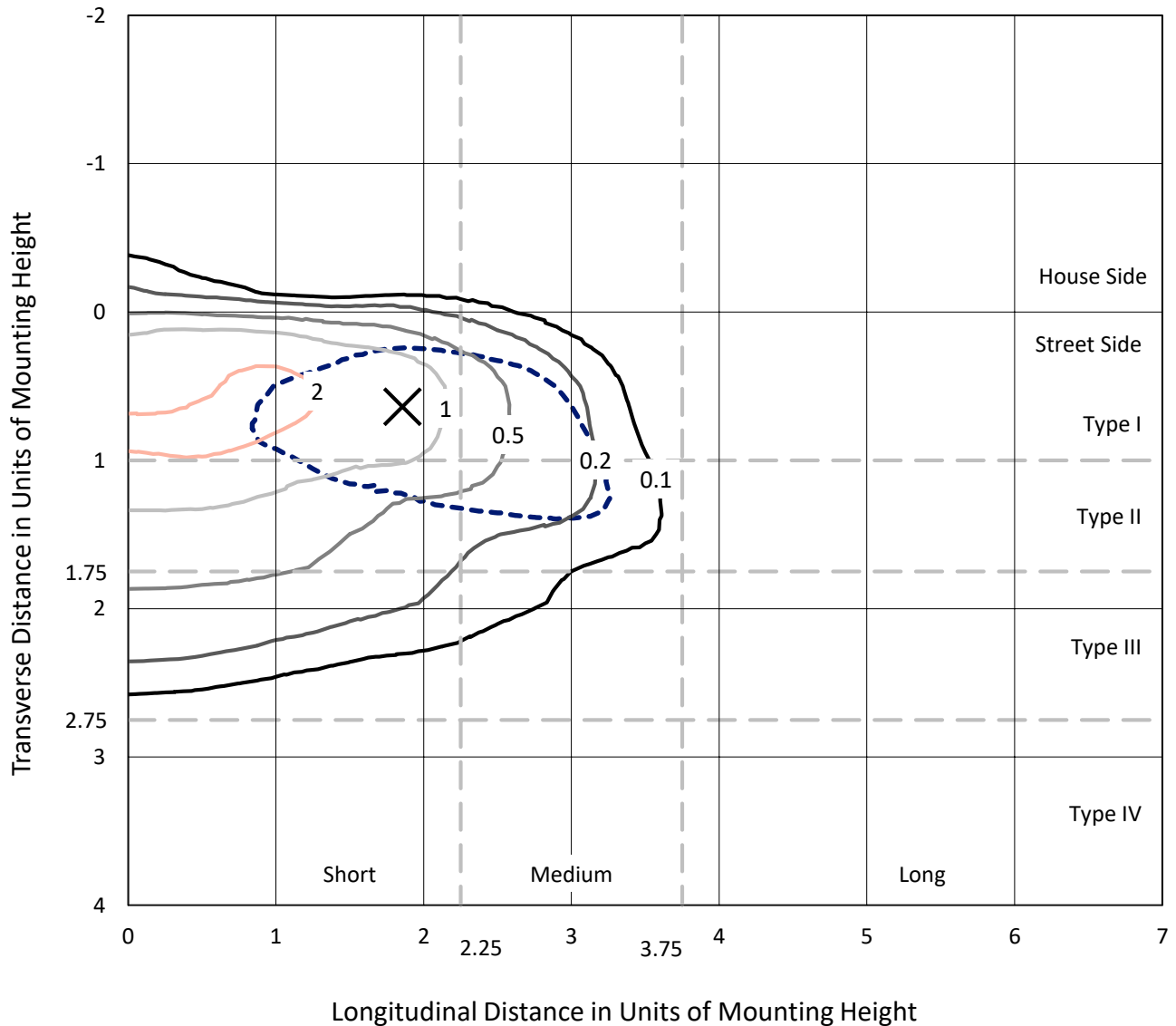
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

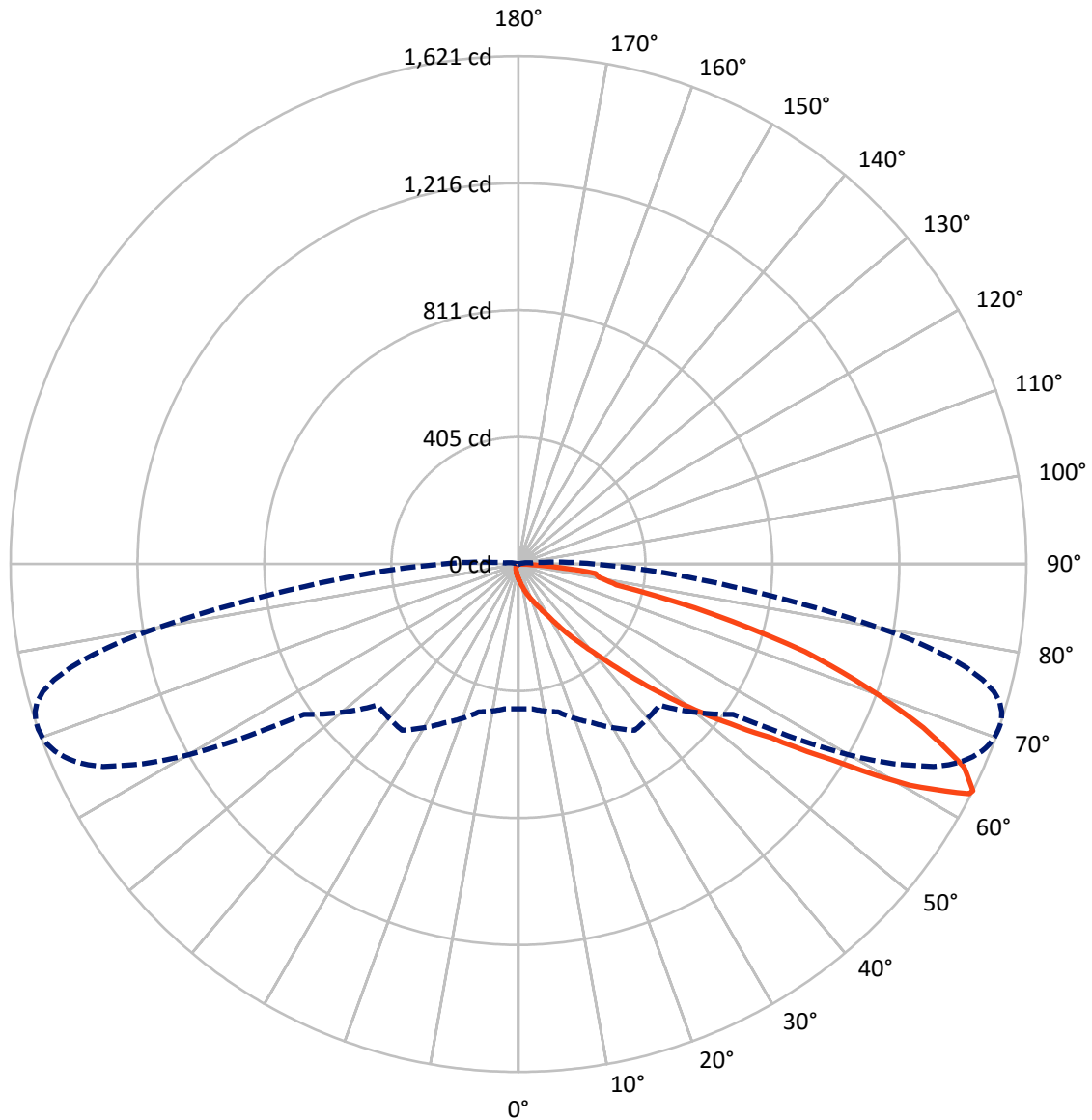
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 25.8 | 0.0 | 25.8 |
| | % Fixture | 2.1 | 0.0 | 2.1 |
| Street Side | Lumens | 1188.8 | 0.0 | 1188.8 |
| | % Fixture | 97.9 | 0.0 | 97.9 |
| Total | Lumens | 1214.6 | 0.0 | 1214.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.1 | 0.4 |
| 10°-20° | 20.0 | 1.6 |
| 20°-30° | 40.6 | 3.3 |
| 30°-40° | 99.1 | 8.2 |
| 40°-50° | 221.6 | 18.2 |
| 50°-60° | 311.7 | 25.7 |
| 60°-70° | 366.5 | 30.2 |
| 70°-80° | 132.3 | 10.9 |
| 80°-90° | 17.7 | 1.5 |
| 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° | 1214.6 | 100.0 |
| 0°-180° | 1214.6 | 100.0 |



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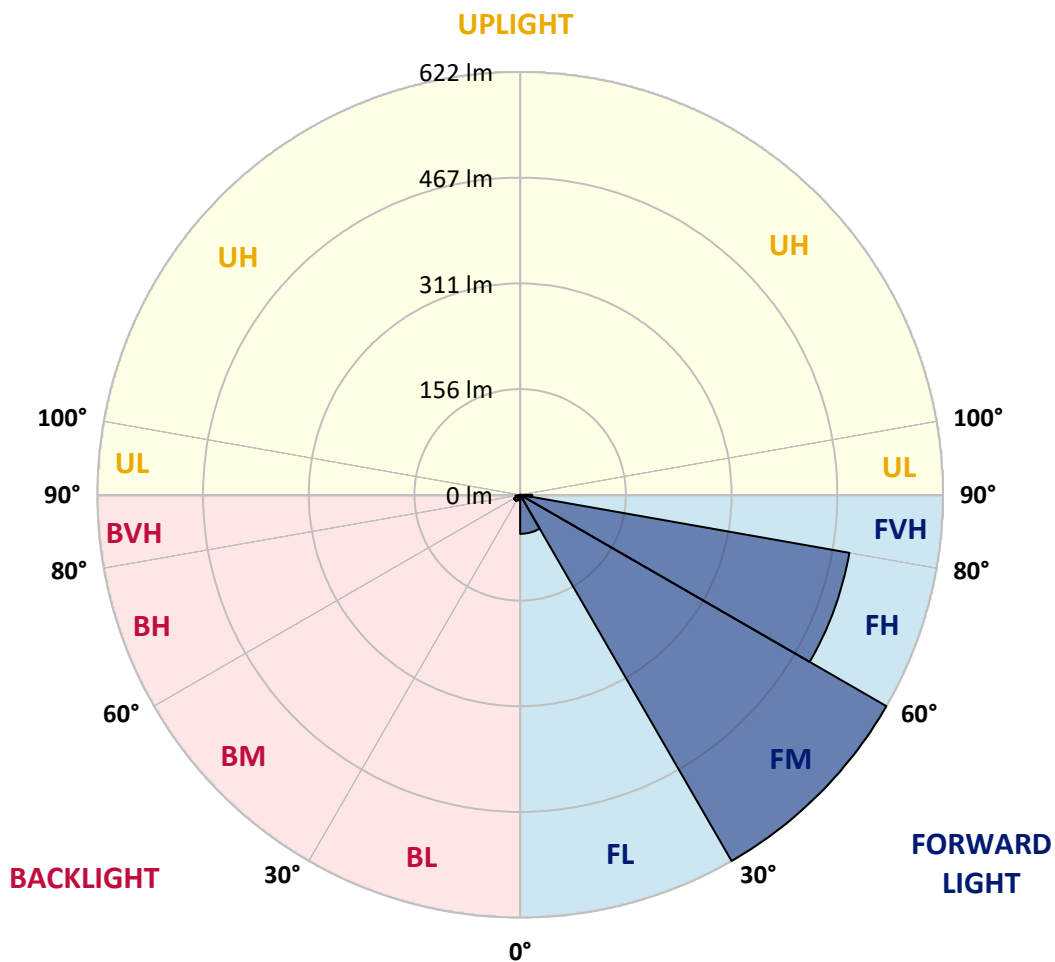
CATALOG NUMBER: EMM-F01-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 57.4 | 4.7 | | | |
| FM (30°-60°) | 622.0 | 51.2 | | | |
| FH (60°-80°) | 491.7 | 40.5 | | | G0/660 |
| FVH (80°-90°) | 17.7 | 1.5 | | | G1/100 |
| BL (0°-30°) | 8.3 | 0.7 | B0/110 | | |
| BM (30°-60°) | 10.4 | 0.9 | B0/220 | | |
| BH (60°-80°) | 7.1 | 0.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 2.5° | 60.9 | 61.6 | 61.2 | 60.1 | 58.7 | 57.0 | 55.4 | 55.4 | 55.2 | 54.5 | 54.8 |
| 5° | 79.9 | 80.1 | 79.3 | 76.6 | 74.2 | 70.4 | 66.2 | 65.8 | 65.4 | 64.7 | 64.5 |
| 7.5° | 98.5 | 99.4 | 98.5 | 95.6 | 90.8 | 85.0 | 78.4 | 77.7 | 76.4 | 76.4 | 75.5 |
| 10° | 117.5 | 117.5 | 116.6 | 113.3 | 108.9 | 100.7 | 92.3 | 91.2 | 89.6 | 89.2 | 87.9 |
| 12.5° | 130.9 | 130.9 | 130.5 | 128.7 | 125.2 | 117.9 | 107.8 | 106.6 | 104.7 | 104.0 | 102.5 |
| 15° | 136.2 | 136.2 | 136.5 | 138.0 | 138.2 | 134.9 | 124.3 | 123.4 | 121.4 | 119.7 | 119.0 |
| 17.5° | 139.6 | 139.3 | 139.3 | 141.5 | 145.5 | 147.7 | 140.9 | 140.0 | 137.8 | 136.9 | 134.7 |
| 20° | 146.8 | 146.4 | 145.1 | 145.1 | 148.8 | 156.6 | 156.6 | 156.3 | 153.9 | 153.2 | 152.1 |
| 22.5° | 157.6 | 157.2 | 153.2 | 149.9 | 151.7 | 161.4 | 170.5 | 170.0 | 169.1 | 168.3 | 167.6 |
| 25° | 175.3 | 173.8 | 166.9 | 157.2 | 155.7 | 166.1 | 181.1 | 182.2 | 182.8 | 182.8 | 183.3 |
| 27.5° | 202.0 | 200.1 | 187.9 | 169.8 | 163.0 | 173.6 | 192.8 | 195.0 | 197.0 | 197.4 | 199.4 |
| 30° | 239.1 | 235.6 | 218.2 | 191.7 | 176.0 | 184.6 | 210.0 | 212.4 | 215.3 | 216.2 | 219.3 |
| 32.5° | 300.1 | 298.1 | 281.3 | 241.6 | 208.0 | 206.2 | 234.1 | 237.1 | 240.9 | 242.4 | 246.2 |
| 35° | 392.8 | 393.3 | 379.6 | 343.8 | 297.4 | 273.1 | 277.1 | 279.8 | 281.1 | 285.7 | 287.7 |
| 37.5° | 455.8 | 456.8 | 459.9 | 445.8 | 412.7 | 388.0 | 356.8 | 359.7 | 352.9 | 353.5 | 353.7 |
| 40° | 490.2 | 493.7 | 511.8 | 525.5 | 522.9 | 508.5 | 483.6 | 485.1 | 472.3 | 469.4 | 455.5 |
| 42.5° | 513.2 | 517.8 | 546.7 | 589.1 | 610.8 | 623.8 | 618.1 | 617.4 | 607.4 | 603.7 | 592.0 |
| 45° | 527.5 | 531.7 | 568.1 | 630.6 | 680.5 | 718.5 | 734.2 | 736.0 | 727.6 | 723.8 | 714.1 |
| 47.5° | 526.8 | 531.7 | 570.8 | 646.1 | 719.6 | 780.3 | 824.5 | 826.7 | 831.8 | 828.5 | 829.1 |
| 50° | 497.7 | 502.3 | 541.6 | 619.8 | 708.1 | 808.6 | 889.4 | 896.5 | 904.7 | 910.2 | 912.8 |
| 52.5° | 462.4 | 465.7 | 500.6 | 574.8 | 659.1 | 796.9 | 927.8 | 940.0 | 952.1 | 962.5 | 969.8 |
| 55° | 449.3 | 453.1 | 480.5 | 542.1 | 619.8 | 747.9 | 945.7 | 963.6 | 980.8 | 997.8 | 1011.8 |
| 57.5° | 456.2 | 459.7 | 479.4 | 526.6 | 596.4 | 696.2 | 950.8 | 978.6 | 1006.9 | 1034.5 | 1061.9 |
| 60° | 481.4 | 485.1 | 501.9 | 541.0 | 590.2 | 666.4 | 930.9 | 977.1 | 1024.1 | 1072.3 | 1117.5 |
| 62.5° | 471.4 | 473.0 | 497.7 | 566.1 | 634.4 | 641.0 | 858.7 | 923.2 | 995.0 | 1069.2 | 1142.3 |
| 63° | 461.9 | 463.7 | 488.9 | 559.3 | 647.8 | 637.3 | 836.4 | 904.4 | 980.2 | 1060.1 | 1139.6 |
| 65° | 418.9 | 419.1 | 438.3 | 494.0 | 632.8 | 643.9 | 737.1 | 802.0 | 889.0 | 984.8 | 1085.3 |
| 67.5° | 312.7 | 311.1 | 329.7 | 372.1 | 496.8 | 644.1 | 632.6 | 669.1 | 729.6 | 814.6 | 904.7 |
| 70° | 110.9 | 108.4 | 138.4 | 197.2 | 309.6 | 526.8 | 543.6 | 546.1 | 562.8 | 608.8 | 665.3 |
| 72.5° | 36.0 | 36.6 | 44.2 | 72.2 | 142.6 | 354.6 | 492.2 | 484.7 | 480.3 | 480.1 | 487.6 |
| 75° | 14.4 | 14.6 | 17.7 | 32.0 | 64.0 | 170.9 | 431.0 | 435.2 | 436.8 | 439.0 | 441.4 |
| 77.5° | 6.9 | 7.5 | 9.9 | 17.9 | 31.8 | 84.6 | 308.5 | 344.0 | 364.3 | 380.0 | 389.5 |
| 80° | 2.4 | 2.9 | 5.5 | 11.0 | 14.8 | 38.9 | 162.5 | 196.1 | 225.9 | 264.3 | 297.4 |
| 82.5° | 0.0 | 0.0 | 1.1 | 7.7 | 8.2 | 15.7 | 66.7 | 78.2 | 89.4 | 115.9 | 148.8 |
| 85° | 0.0 | 0.0 | 0.0 | 2.2 | 2.4 | 2.6 | 22.5 | 27.1 | 30.5 | 35.6 | 41.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.7 | 1.3 | 3.3 | 5.1 |
| 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):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 2.5° | 54.3 | 54.1 | 54.1 | 53.6 | 53.4 | 53.0 | 52.8 | 52.1 | 51.9 | 51.9 | 51.9 |
| 5° | 64.3 | 63.4 | 62.9 | 61.8 | 61.2 | 60.9 | 59.8 | 59.4 | 58.7 | 59.0 | 57.9 |
| 7.5° | 75.3 | 73.8 | 73.1 | 71.5 | 71.1 | 69.6 | 69.1 | 68.0 | 67.4 | 66.0 | 65.6 |
| 10° | 87.4 | 85.4 | 84.4 | 81.9 | 81.3 | 80.1 | 78.8 | 77.5 | 76.4 | 75.1 | 74.4 |
| 12.5° | 101.4 | 99.6 | 98.7 | 95.4 | 93.9 | 92.3 | 90.5 | 88.8 | 87.0 | 85.9 | 84.4 |
| 15° | 117.7 | 114.8 | 113.9 | 110.9 | 108.2 | 106.2 | 103.8 | 101.6 | 100.2 | 98.0 | 96.5 |
| 17.5° | 133.8 | 130.9 | 130.3 | 125.6 | 122.8 | 121.4 | 118.8 | 115.9 | 113.5 | 111.3 | 108.9 |
| 20° | 149.9 | 147.9 | 146.2 | 141.8 | 138.7 | 136.5 | 132.9 | 130.1 | 128.1 | 125.0 | 121.9 |
| 22.5° | 166.1 | 164.1 | 162.7 | 158.1 | 155.2 | 152.1 | 149.1 | 146.0 | 143.1 | 139.3 | 135.8 |
| 25° | 182.6 | 181.3 | 180.6 | 176.4 | 173.8 | 170.9 | 167.8 | 164.3 | 160.8 | 156.6 | 152.8 |
| 27.5° | 199.8 | 200.3 | 198.9 | 198.1 | 195.2 | 193.2 | 188.4 | 185.9 | 183.3 | 178.2 | 173.6 |
| 30° | 221.7 | 223.0 | 222.6 | 223.2 | 221.5 | 220.1 | 216.4 | 213.3 | 210.2 | 205.4 | 200.1 |
| 32.5° | 249.3 | 251.1 | 251.9 | 254.4 | 253.5 | 253.1 | 251.9 | 247.5 | 245.3 | 236.9 | 234.7 |
| 35° | 291.9 | 291.0 | 294.8 | 296.8 | 295.9 | 295.4 | 294.1 | 291.7 | 289.0 | 283.1 | 277.6 |
| 37.5° | 347.3 | 348.2 | 349.6 | 345.6 | 342.9 | 342.7 | 338.7 | 336.3 | 332.5 | 325.9 | 319.3 |
| 40° | 448.9 | 443.4 | 437.2 | 420.4 | 413.1 | 408.9 | 397.2 | 393.9 | 387.5 | 378.5 | 371.6 |
| 42.5° | 580.9 | 575.4 | 556.9 | 528.8 | 513.8 | 493.1 | 483.6 | 471.9 | 462.8 | 448.0 | 440.1 |
| 45° | 712.1 | 696.2 | 694.0 | 661.3 | 642.8 | 615.4 | 598.4 | 578.7 | 558.2 | 538.8 | 524.6 |
| 47.5° | 822.7 | 819.2 | 808.4 | 788.5 | 771.3 | 748.3 | 726.5 | 696.2 | 675.0 | 647.4 | 622.0 |
| 50° | 911.3 | 911.1 | 907.1 | 895.6 | 881.3 | 862.7 | 843.5 | 817.9 | 793.8 | 760.0 | 732.9 |
| 52.5° | 977.5 | 981.1 | 982.4 | 978.8 | 973.3 | 957.0 | 947.3 | 925.8 | 905.5 | 876.8 | 847.5 |
| 55° | 1026.1 | 1039.1 | 1045.8 | 1053.3 | 1051.7 | 1046.0 | 1045.5 | 1031.6 | 1022.3 | 999.6 | 978.8 |
| 57.5° | 1086.2 | 1107.6 | 1128.1 | 1164.5 | 1165.9 | 1178.7 | 1185.3 | 1191.9 | 1193.7 | 1184.6 | 1177.8 |
| 60° | 1162.6 | 1206.3 | 1245.1 | 1321.3 | 1341.2 | 1372.5 | 1392.9 | 1415.0 | 1433.7 | 1435.3 | 1434.8 |
| 62.5° | 1216.4 | 1283.8 | 1346.5 | 1459.5 | 1498.2 | 1534.4 | 1561.6 | 1583.0 | 1596.0 | 1609.3 | 1615.5 |
| 63° | 1218.0 | 1291.7 | 1358.4 | 1475.0 | 1515.6 | 1550.1 | 1575.9 | 1595.8 | 1609.5 | 1617.4 | 1621.4 |
| 65° | 1180.7 | 1270.1 | 1349.6 | 1465.7 | 1503.9 | 1538.6 | 1552.1 | 1565.1 | 1571.7 | 1574.8 | 1563.1 |
| 67.5° | 1000.7 | 1088.1 | 1180.9 | 1310.7 | 1343.4 | 1384.9 | 1396.0 | 1402.6 | 1405.7 | 1405.0 | 1395.1 |
| 70° | 748.3 | 821.6 | 924.8 | 1073.1 | 1116.4 | 1157.0 | 1182.2 | 1193.0 | 1196.6 | 1195.5 | 1180.7 |
| 72.5° | 522.4 | 565.5 | 650.5 | 815.7 | 874.6 | 926.7 | 957.9 | 974.0 | 977.3 | 970.7 | 957.0 |
| 75° | 438.8 | 441.0 | 460.2 | 550.5 | 605.7 | 661.3 | 696.4 | 706.6 | 700.0 | 679.9 | 645.0 |
| 77.5° | 391.7 | 396.6 | 396.6 | 410.1 | 420.9 | 436.3 | 439.6 | 414.9 | 386.2 | 349.1 | 319.1 |
| 80° | 328.6 | 345.6 | 357.5 | 367.4 | 368.5 | 365.4 | 357.3 | 343.4 | 321.3 | 293.0 | 261.7 |
| 82.5° | 199.6 | 233.2 | 246.9 | 298.1 | 323.3 | 340.3 | 338.9 | 320.4 | 303.6 | 274.2 | 247.5 |
| 85° | 50.4 | 54.3 | 59.0 | 76.6 | 85.9 | 104.9 | 116.8 | 122.3 | 124.3 | 114.1 | 103.3 |
| 87.5° | 4.9 | 3.3 | 5.5 | 4.2 | 6.0 | 4.4 | 6.0 | 5.5 | 6.9 | 7.3 | 7.9 |
| 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):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 2.5° | 51.4 | 51.2 | 51.0 | 50.8 | 50.6 | 50.4 | 49.9 | 49.9 | 49.5 | 49.2 | 49.0 |
| 5° | 57.2 | 56.7 | 56.5 | 56.1 | 55.4 | 55.0 | 54.3 | 53.4 | 52.8 | 52.6 | 52.1 |
| 7.5° | 64.5 | 63.4 | 62.9 | 62.3 | 61.4 | 60.1 | 59.2 | 58.5 | 57.4 | 56.7 | 55.4 |
| 10° | 72.6 | 71.5 | 70.2 | 68.9 | 67.6 | 66.0 | 64.9 | 64.0 | 62.3 | 61.4 | 59.8 |
| 12.5° | 83.0 | 81.0 | 79.5 | 77.7 | 76.0 | 74.2 | 72.9 | 70.2 | 68.7 | 66.7 | 65.4 |
| 15° | 93.6 | 91.9 | 90.1 | 87.9 | 85.2 | 82.4 | 81.0 | 78.6 | 76.6 | 73.5 | 71.8 |
| 17.5° | 106.4 | 103.1 | 100.5 | 97.8 | 95.4 | 92.7 | 90.1 | 86.3 | 83.5 | 80.8 | 77.3 |
| 20° | 119.0 | 115.0 | 112.2 | 108.6 | 105.1 | 100.9 | 97.8 | 95.2 | 91.2 | 87.7 | 83.9 |
| 22.5° | 132.5 | 128.5 | 123.9 | 120.3 | 115.5 | 112.2 | 108.0 | 103.6 | 99.6 | 94.9 | 90.3 |
| 25° | 148.8 | 144.6 | 139.3 | 134.7 | 129.2 | 124.5 | 119.5 | 114.4 | 109.5 | 104.2 | 98.3 |
| 27.5° | 168.9 | 164.5 | 158.8 | 153.2 | 146.0 | 140.2 | 135.4 | 128.5 | 122.3 | 115.7 | 108.9 |
| 30° | 194.3 | 189.5 | 182.4 | 174.4 | 167.1 | 160.8 | 153.9 | 144.9 | 138.0 | 130.1 | 121.2 |
| 32.5° | 227.4 | 221.7 | 212.2 | 204.7 | 195.6 | 187.2 | 177.8 | 168.7 | 159.0 | 148.6 | 138.4 |
| 35° | 269.2 | 263.9 | 252.8 | 241.8 | 231.9 | 221.9 | 210.0 | 199.6 | 185.9 | 173.3 | 160.3 |
| 37.5° | 312.4 | 302.9 | 292.8 | 280.9 | 268.5 | 256.6 | 242.0 | 227.6 | 212.0 | 198.3 | 181.9 |
| 40° | 361.9 | 350.4 | 342.0 | 329.2 | 311.8 | 294.8 | 281.3 | 263.4 | 243.8 | 225.4 | 206.2 |
| 42.5° | 429.7 | 416.9 | 401.9 | 382.4 | 369.9 | 350.0 | 332.5 | 311.3 | 285.5 | 265.0 | 241.8 |
| 45° | 508.1 | 490.6 | 476.1 | 457.3 | 442.1 | 417.3 | 397.0 | 368.8 | 342.9 | 316.0 | 287.7 |
| 47.5° | 597.5 | 575.9 | 554.7 | 536.1 | 511.8 | 487.6 | 461.7 | 431.7 | 398.6 | 369.0 | 335.4 |
| 50° | 700.2 | 669.5 | 640.1 | 616.3 | 582.9 | 554.9 | 526.8 | 493.1 | 456.4 | 422.4 | 384.2 |
| 52.5° | 814.3 | 778.8 | 739.9 | 703.3 | 664.6 | 628.6 | 594.8 | 556.0 | 515.1 | 473.6 | 431.0 |
| 55° | 952.1 | 925.4 | 879.7 | 833.1 | 781.4 | 733.3 | 689.8 | 641.7 | 592.0 | 537.4 | 492.6 |
| 57.5° | 1167.9 | 1154.8 | 1116.6 | 1070.0 | 1002.7 | 944.2 | 870.4 | 811.5 | 739.5 | 664.4 | 606.6 |
| 60° | 1460.2 | 1444.1 | 1422.7 | 1384.9 | 1331.5 | 1252.0 | 1170.7 | 1079.1 | 969.6 | 865.6 | 766.9 |
| 62.5° | 1616.1 | 1610.4 | 1592.9 | 1566.9 | 1517.0 | 1454.2 | 1372.3 | 1271.6 | 1148.0 | 1021.7 | 895.8 |
| 63° | 1620.7 | 1613.5 | 1598.5 | 1572.0 | 1528.0 | 1467.3 | 1386.9 | 1289.1 | 1168.1 | 1039.3 | 910.8 |
| 65° | 1558.0 | 1555.2 | 1539.9 | 1511.0 | 1481.0 | 1434.6 | 1372.3 | 1288.2 | 1186.6 | 1065.0 | 937.1 |
| 67.5° | 1381.8 | 1373.2 | 1349.8 | 1341.0 | 1320.0 | 1287.8 | 1240.3 | 1182.4 | 1109.8 | 1014.2 | 903.8 |
| 70° | 1168.8 | 1155.9 | 1126.6 | 1110.9 | 1085.3 | 1065.0 | 1036.0 | 994.8 | 949.9 | 883.2 | 800.9 |
| 72.5° | 942.8 | 916.4 | 889.4 | 848.6 | 812.8 | 776.6 | 744.6 | 715.4 | 666.2 | 639.3 | 576.8 |
| 75° | 612.3 | 564.2 | 518.0 | 456.2 | 400.6 | 351.3 | 303.4 | 279.1 | 228.5 | 208.0 | 178.6 |
| 77.5° | 290.6 | 263.6 | 227.4 | 199.4 | 163.6 | 133.6 | 109.1 | 81.9 | 64.3 | 50.4 | 38.4 |
| 80° | 234.5 | 211.8 | 189.9 | 164.5 | 137.6 | 109.7 | 84.1 | 62.9 | 44.6 | 30.9 | 21.9 |
| 82.5° | 209.1 | 184.4 | 157.4 | 140.0 | 121.7 | 99.6 | 81.7 | 66.7 | 49.2 | 36.0 | 24.5 |
| 85° | 81.3 | 68.4 | 52.8 | 43.1 | 33.6 | 27.6 | 24.9 | 17.2 | 13.5 | 10.6 | 8.2 |
| 87.5° | 7.1 | 5.7 | 4.6 | 3.1 | 3.3 | 1.8 | 2.0 | 1.3 | 1.1 | 1.1 | 0.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P162310

CATALOG NUMBER: EMM-F01-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 0° | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 2.5° | 48.8 | 48.6 | 48.4 | 47.9 | 47.9 | 47.5 | 47.3 | 47.0 | 45.9 | 43.5 | 41.5 |
| 5° | 51.2 | 50.8 | 50.4 | 49.7 | 49.2 | 48.6 | 48.1 | 47.5 | 45.1 | 40.4 | 36.4 |
| 7.5° | 54.8 | 53.9 | 53.2 | 51.9 | 51.2 | 50.4 | 49.7 | 48.6 | 44.6 | 37.5 | 32.0 |
| 10° | 59.0 | 57.4 | 56.3 | 54.8 | 53.4 | 52.3 | 51.2 | 49.7 | 44.2 | 34.4 | 28.0 |
| 12.5° | 64.0 | 62.3 | 60.1 | 58.3 | 56.5 | 55.0 | 53.4 | 51.4 | 43.5 | 31.8 | 24.9 |
| 15° | 69.1 | 66.5 | 64.9 | 62.5 | 60.1 | 57.9 | 55.6 | 53.9 | 43.7 | 28.9 | 22.3 |
| 17.5° | 74.9 | 72.2 | 68.9 | 66.2 | 63.6 | 60.7 | 58.1 | 54.5 | 42.6 | 26.7 | 20.3 |
| 20° | 80.4 | 76.6 | 73.5 | 70.2 | 66.5 | 62.9 | 59.6 | 56.5 | 41.7 | 24.5 | 18.6 |
| 22.5° | 86.3 | 81.9 | 77.9 | 73.8 | 69.1 | 65.1 | 61.2 | 57.2 | 40.2 | 22.5 | 17.0 |
| 25° | 93.6 | 88.6 | 82.8 | 77.7 | 72.9 | 68.0 | 62.9 | 58.1 | 38.6 | 20.8 | 15.9 |
| 27.5° | 102.5 | 95.8 | 90.1 | 83.7 | 76.8 | 70.6 | 65.1 | 59.8 | 37.1 | 19.4 | 14.8 |
| 30° | 113.7 | 106.0 | 97.8 | 89.6 | 82.4 | 75.3 | 67.6 | 60.9 | 35.6 | 18.1 | 13.7 |
| 32.5° | 128.7 | 119.0 | 109.1 | 99.6 | 89.9 | 80.8 | 72.6 | 64.0 | 34.7 | 17.0 | 12.6 |
| 35° | 148.6 | 136.0 | 123.9 | 111.9 | 100.2 | 89.2 | 78.6 | 68.9 | 34.7 | 15.7 | 11.3 |
| 37.5° | 167.4 | 152.8 | 137.3 | 122.6 | 108.6 | 95.8 | 83.2 | 71.5 | 32.9 | 14.6 | 10.1 |
| 40° | 187.7 | 170.2 | 152.1 | 134.7 | 117.9 | 102.0 | 87.7 | 74.2 | 31.4 | 13.2 | 9.1 |
| 42.5° | 218.8 | 196.7 | 173.1 | 152.8 | 132.7 | 113.1 | 95.2 | 79.3 | 29.4 | 11.9 | 7.9 |
| 45° | 259.7 | 231.6 | 203.8 | 179.1 | 153.5 | 129.4 | 108.2 | 88.6 | 28.9 | 10.8 | 6.9 |
| 47.5° | 303.4 | 270.3 | 237.6 | 206.0 | 176.0 | 147.9 | 122.6 | 98.9 | 28.9 | 9.7 | 6.0 |
| 50° | 346.9 | 305.4 | 270.5 | 233.8 | 200.1 | 166.9 | 136.7 | 109.7 | 29.1 | 8.8 | 4.9 |
| 52.5° | 386.2 | 341.8 | 302.7 | 260.3 | 223.0 | 184.6 | 151.7 | 120.3 | 28.7 | 7.7 | 4.0 |
| 55° | 440.7 | 388.6 | 343.4 | 296.6 | 252.8 | 209.6 | 172.2 | 136.2 | 28.9 | 6.9 | 3.3 |
| 57.5° | 541.2 | 480.1 | 425.5 | 364.1 | 313.8 | 257.9 | 212.6 | 168.9 | 31.6 | 5.7 | 2.4 |
| 60° | 685.4 | 605.9 | 529.3 | 454.4 | 390.4 | 323.9 | 265.2 | 213.7 | 37.1 | 4.6 | 1.8 |
| 62.5° | 782.3 | 678.3 | 586.9 | 504.3 | 429.9 | 360.4 | 296.3 | 237.8 | 40.9 | 3.8 | 1.1 |
| 63° | 792.3 | 684.7 | 592.9 | 507.6 | 431.7 | 362.1 | 297.6 | 239.6 | 41.1 | 3.5 | 1.1 |
| 65° | 811.0 | 695.8 | 596.2 | 508.3 | 429.9 | 359.7 | 296.8 | 239.4 | 41.5 | 2.9 | 0.9 |
| 67.5° | 789.6 | 678.8 | 577.0 | 489.3 | 414.5 | 345.3 | 285.7 | 230.5 | 41.3 | 2.0 | 0.7 |
| 70° | 706.1 | 614.3 | 524.9 | 443.2 | 375.1 | 312.7 | 260.1 | 210.2 | 38.0 | 1.3 | 0.4 |
| 72.5° | 518.5 | 456.0 | 386.6 | 327.7 | 282.6 | 234.7 | 200.3 | 157.9 | 29.4 | 0.9 | 0.2 |
| 75° | 153.7 | 140.0 | 117.7 | 103.8 | 91.6 | 75.7 | 67.4 | 52.6 | 15.0 | 0.4 | 0.0 |
| 77.5° | 30.7 | 27.8 | 24.9 | 22.7 | 21.4 | 18.3 | 17.4 | 14.4 | 6.2 | 0.2 | 0.0 |
| 80° | 16.1 | 13.2 | 11.3 | 9.9 | 8.6 | 7.1 | 6.0 | 4.9 | 1.1 | 0.0 | 0.0 |
| 82.5° | 15.5 | 10.4 | 7.5 | 6.2 | 5.3 | 4.2 | 3.3 | 2.4 | 0.7 | 0.0 | 0.0 |
| 85° | 5.7 | 4.4 | 3.3 | 2.6 | 2.2 | 2.0 | 1.6 | 1.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.9 | 0.7 | 0.7 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 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 |



REPORT NUMBER: P162310

CATALOG NUMBER: EMM-F01-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|
| 0° | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 |
| 2.5° | 39.5 | 37.8 | 36.9 | 35.8 | 35.8 | 35.6 | 36.0 |
| 5° | 32.9 | 30.5 | 28.7 | 27.4 | 27.6 | 26.9 | 27.1 |
| 7.5° | 27.8 | 25.4 | 23.9 | 23.0 | 22.7 | 22.5 | 22.5 |
| 10° | 24.1 | 21.9 | 20.5 | 19.9 | 19.6 | 19.6 | 19.6 |
| 12.5° | 21.4 | 19.2 | 18.1 | 17.7 | 17.7 | 17.4 | 17.4 |
| 15° | 19.2 | 17.4 | 16.4 | 15.9 | 15.9 | 15.7 | 15.9 |
| 17.5° | 17.4 | 15.7 | 14.8 | 14.4 | 14.4 | 14.1 | 14.1 |
| 20° | 15.9 | 14.4 | 13.5 | 12.8 | 12.8 | 12.6 | 12.8 |
| 22.5° | 14.6 | 13.0 | 11.9 | 11.5 | 11.3 | 11.0 | 11.3 |
| 25° | 13.2 | 11.7 | 10.6 | 9.9 | 9.7 | 9.7 | 9.5 |
| 27.5° | 12.1 | 10.6 | 9.3 | 8.6 | 8.4 | 8.4 | 8.2 |
| 30° | 11.0 | 9.3 | 7.9 | 7.3 | 7.1 | 7.1 | 7.1 |
| 32.5° | 9.9 | 7.9 | 6.9 | 6.2 | 6.0 | 6.0 | 6.0 |
| 35° | 8.8 | 6.9 | 5.7 | 5.1 | 4.9 | 4.9 | 4.9 |
| 37.5° | 7.5 | 5.7 | 4.4 | 4.0 | 3.8 | 3.5 | 3.5 |
| 40° | 6.4 | 4.4 | 3.3 | 2.9 | 2.4 | 2.4 | 2.4 |
| 42.5° | 5.3 | 3.5 | 2.4 | 1.8 | 1.6 | 1.3 | 1.6 |
| 45° | 4.4 | 2.6 | 1.6 | 0.9 | 0.7 | 0.7 | 0.7 |
| 47.5° | 3.5 | 1.8 | 0.7 | 0.2 | 0.2 | 0.2 | 0.2 |
| 50° | 2.6 | 1.1 | 0.2 | 0.0 | 0.0 | 0.2 | 0.2 |
| 52.5° | 2.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 1.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 63° | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 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 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 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 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)