

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: STREETWORKS

Report Number: P162360

Luminaire Tested: **CEM-F02-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P162360
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-F02-LED-E-U-SL2-HSS-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2429.2 lumens
Efficiency: N/A
Efficacy: 44.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

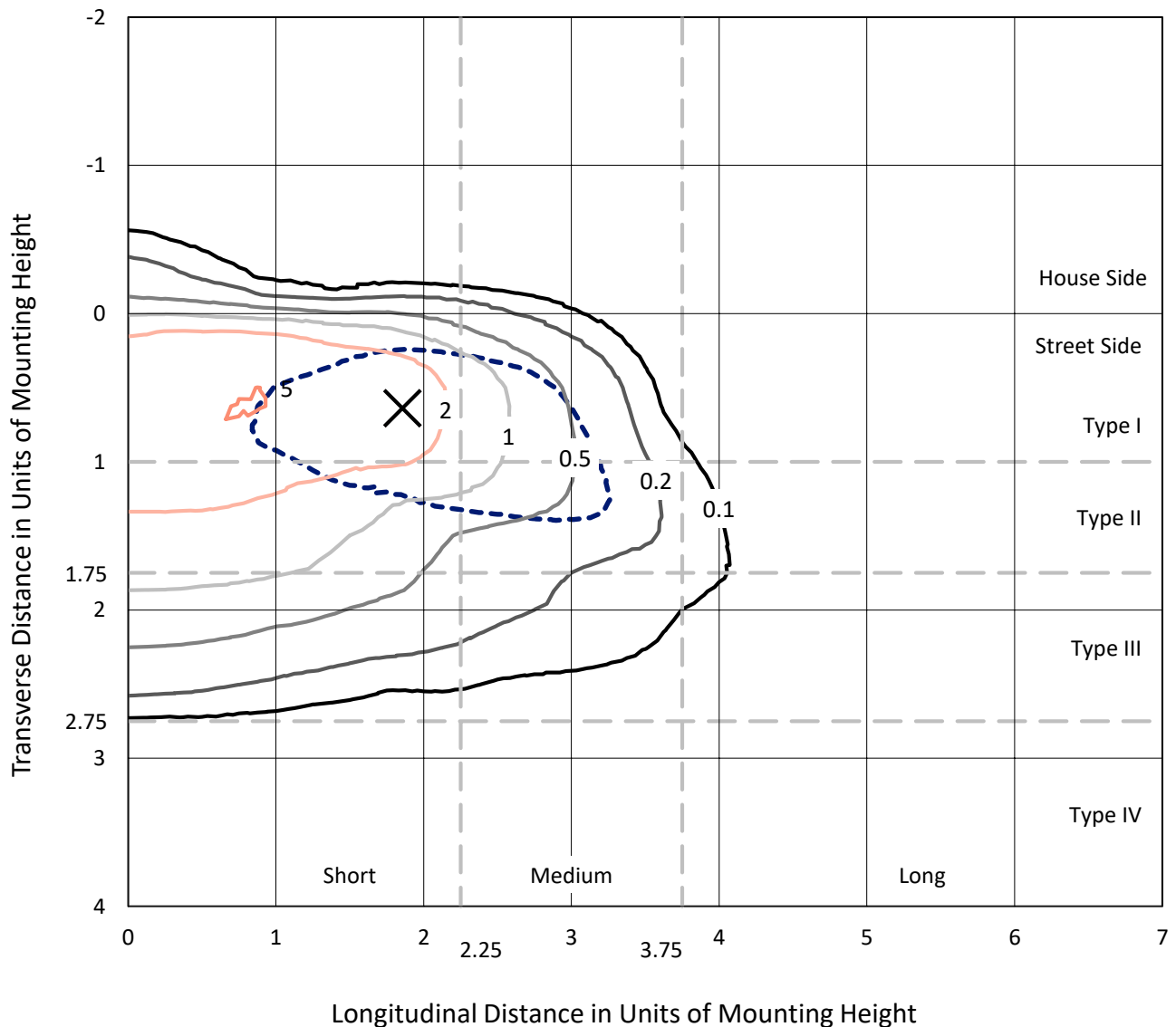
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

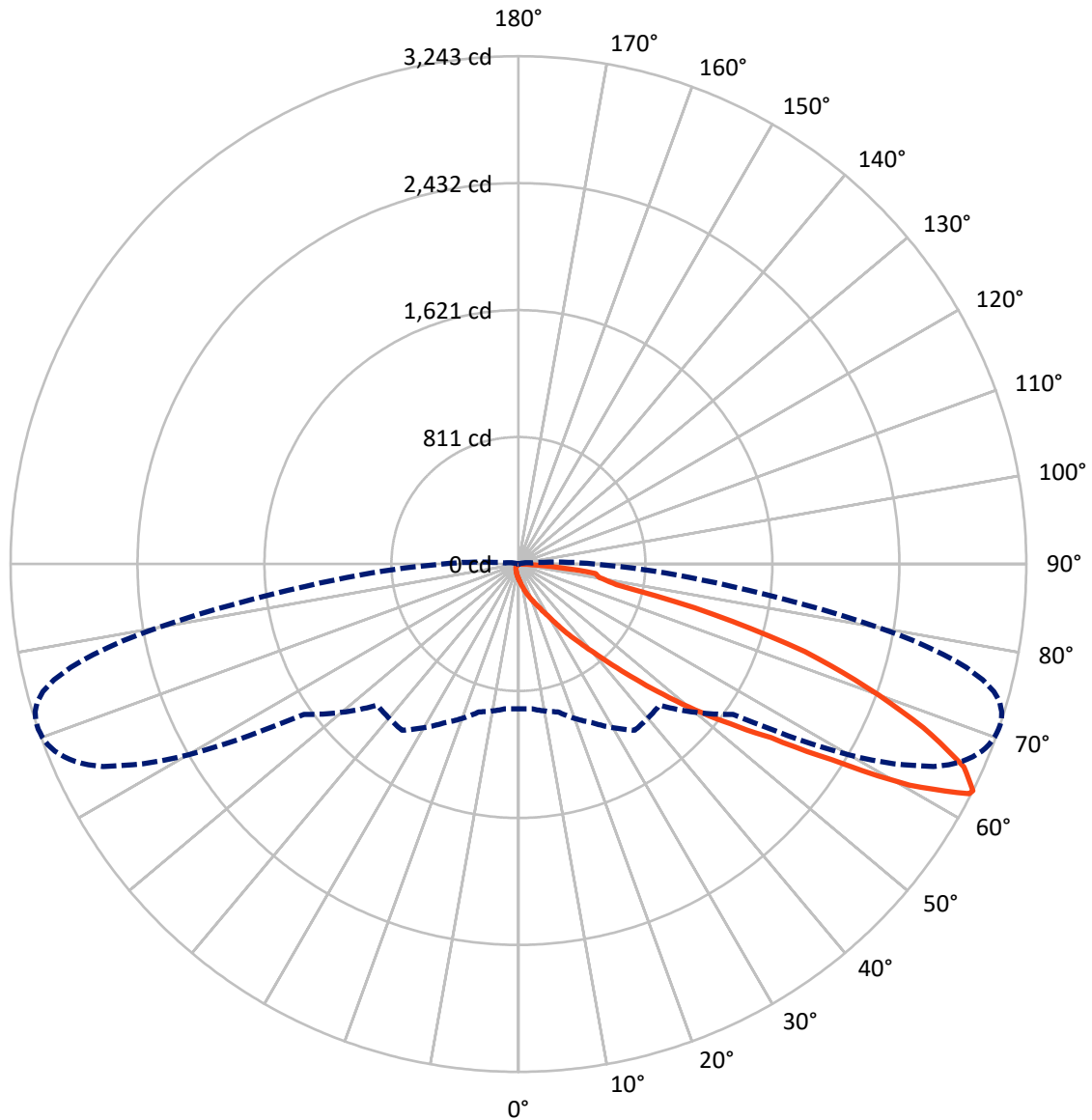
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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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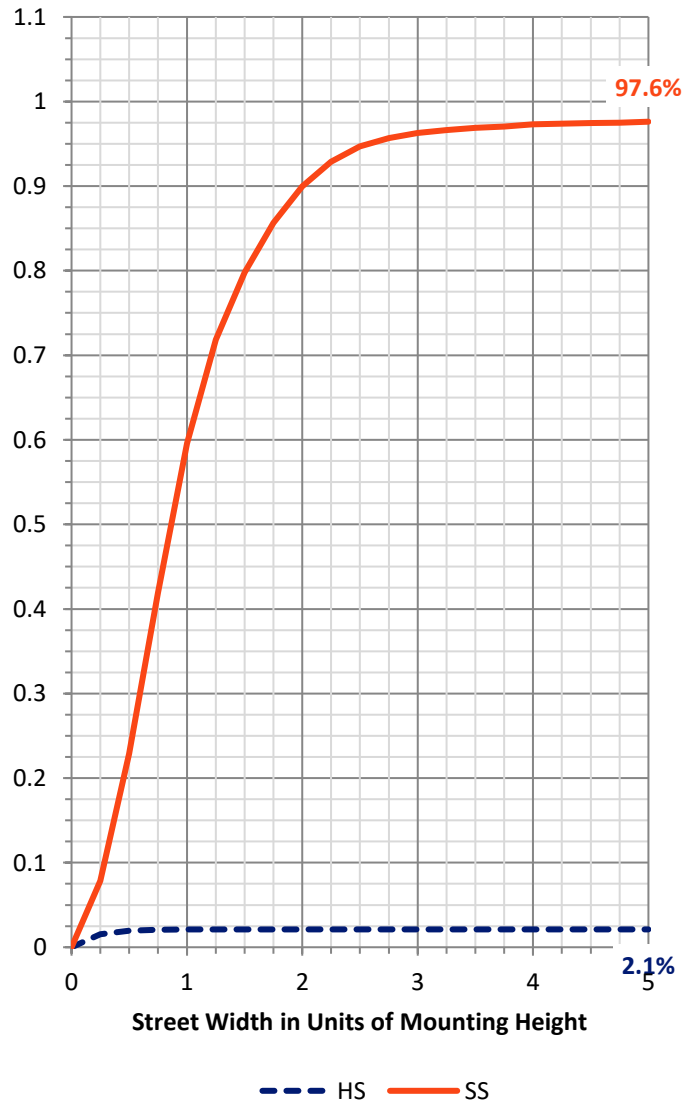
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 51.6 | 0.0 | 51.6 |
| | % Fixture | 2.1 | 0.0 | 2.1 |
| Street Side | Lumens | 2377.7 | 0.0 | 2377.7 |
| | % Fixture | 97.9 | 0.0 | 97.9 |
| Total | Lumens | 2429.2 | 0.0 | 2429.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 10.3 | 0.4 |
| 10°-20° | 39.9 | 1.6 |
| 20°-30° | 81.1 | 3.3 |
| 30°-40° | 198.2 | 8.2 |
| 40°-50° | 443.3 | 18.2 |
| 50°-60° | 623.3 | 25.7 |
| 60°-70° | 733.0 | 30.2 |
| 70°-80° | 264.7 | 10.9 |
| 80°-90° | 35.4 | 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° | 2429.2 | 100.0 |
| 0°-180° | 2429.2 | 100.0 |

Coefficient of Utilization



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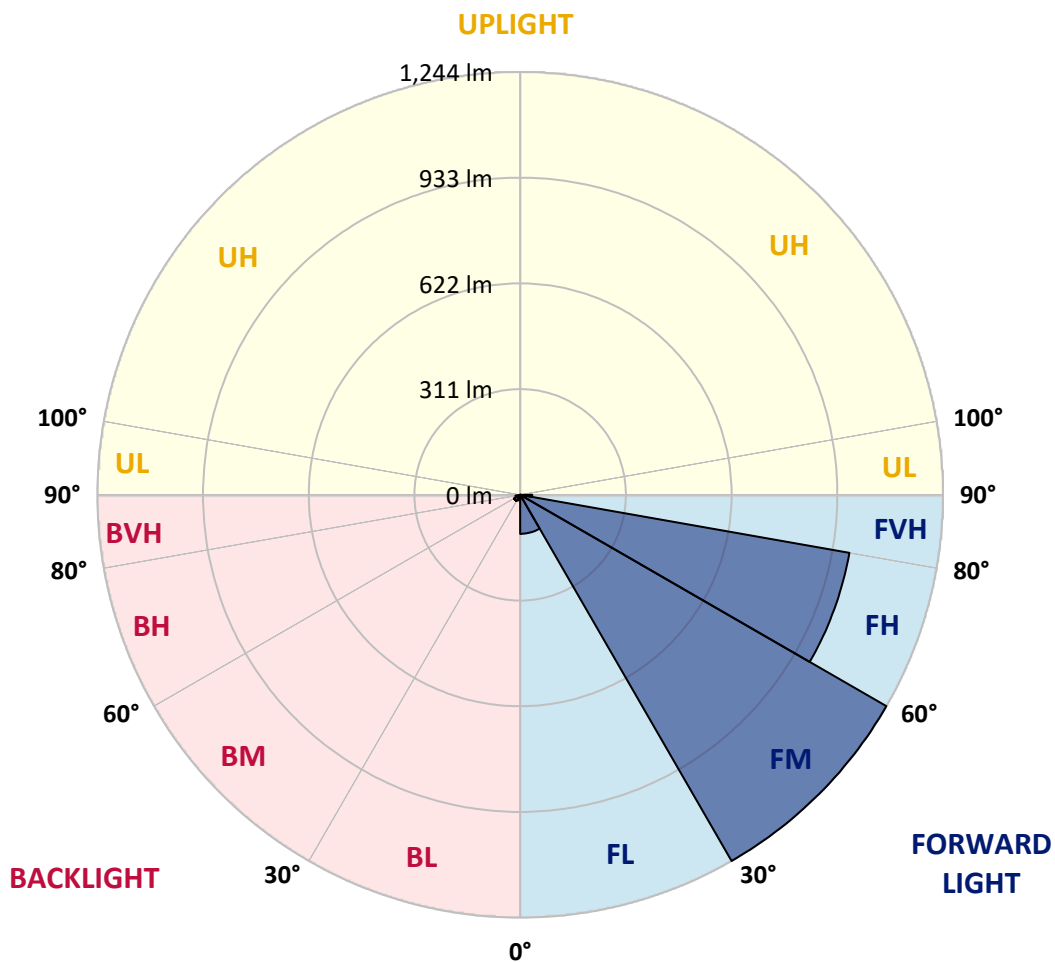
CATALOG NUMBER: CEM-F02-LED-E-U-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 114.8 | 4.7 | | | |
| FM (30°-60°) | 1244.0 | 51.2 | | | |
| FH (60°-80°) | 983.5 | 40.5 | | | G1/1800 |
| FVH (80°-90°) | 35.3 | 1.5 | | | G1/100 |
| BL (0°-30°) | 16.6 | 0.7 | B0/110 | | |
| BM (30°-60°) | 20.8 | 0.9 | B0/220 | | |
| BH (60°-80°) | 14.1 | 0.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.1 | 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





REPORT NUMBER: P162360

CATALOG NUMBER: CEM-F02-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 |
| 2.5° | 121.9 | 123.2 | 122.3 | 120.1 | 117.5 | 113.9 | 110.8 | 110.8 | 110.4 | 109.1 | 109.5 |
| 5° | 159.9 | 160.3 | 158.5 | 153.2 | 148.4 | 140.9 | 132.5 | 131.6 | 130.7 | 129.4 | 128.9 |
| 7.5° | 196.9 | 198.7 | 196.9 | 191.2 | 181.5 | 170.0 | 156.8 | 155.5 | 152.8 | 152.8 | 151.1 |
| 10° | 234.9 | 234.9 | 233.2 | 226.5 | 217.7 | 201.4 | 184.6 | 182.4 | 179.3 | 178.4 | 175.8 |
| 12.5° | 261.9 | 261.9 | 261.0 | 257.5 | 250.4 | 235.8 | 215.5 | 213.3 | 209.3 | 208.0 | 204.9 |
| 15° | 272.5 | 272.5 | 272.9 | 276.0 | 276.5 | 269.8 | 248.6 | 246.9 | 242.9 | 239.4 | 238.1 |
| 17.5° | 279.1 | 278.6 | 278.6 | 283.1 | 291.0 | 295.5 | 281.8 | 280.0 | 275.6 | 273.8 | 269.4 |
| 20° | 293.7 | 292.8 | 290.1 | 290.1 | 297.6 | 313.1 | 313.1 | 312.6 | 307.8 | 306.5 | 304.3 |
| 22.5° | 315.3 | 314.4 | 306.5 | 299.9 | 303.4 | 322.8 | 340.9 | 340.1 | 338.3 | 336.5 | 335.2 |
| 25° | 350.6 | 347.5 | 333.9 | 314.4 | 311.3 | 332.1 | 362.1 | 364.3 | 365.6 | 365.6 | 366.5 |
| 27.5° | 404.1 | 400.1 | 375.8 | 339.6 | 325.9 | 347.1 | 385.5 | 389.9 | 393.9 | 394.8 | 398.8 |
| 30° | 478.3 | 471.2 | 436.3 | 383.3 | 352.0 | 369.2 | 420.0 | 424.8 | 430.6 | 432.3 | 438.5 |
| 32.5° | 600.2 | 596.2 | 562.6 | 483.1 | 416.0 | 412.5 | 468.1 | 474.3 | 481.8 | 484.9 | 492.4 |
| 35° | 785.6 | 786.5 | 759.2 | 687.6 | 594.9 | 546.3 | 554.2 | 559.5 | 562.2 | 571.5 | 575.4 |
| 37.5° | 911.5 | 913.7 | 919.9 | 891.6 | 825.4 | 775.9 | 713.6 | 719.4 | 705.7 | 707.0 | 707.5 |
| 40° | 980.4 | 987.5 | 1023.7 | 1051.0 | 1045.8 | 1017.0 | 967.2 | 970.2 | 944.6 | 938.9 | 911.1 |
| 42.5° | 1026.3 | 1035.6 | 1093.5 | 1178.2 | 1221.5 | 1247.6 | 1236.1 | 1234.8 | 1214.9 | 1207.4 | 1184.0 |
| 45° | 1055.0 | 1063.4 | 1136.3 | 1261.3 | 1361.0 | 1437.0 | 1468.4 | 1471.9 | 1455.2 | 1447.6 | 1428.2 |
| 47.5° | 1053.7 | 1063.4 | 1141.6 | 1292.2 | 1439.2 | 1560.7 | 1649.0 | 1653.4 | 1663.6 | 1657.0 | 1658.3 |
| 50° | 995.4 | 1004.7 | 1083.3 | 1239.6 | 1416.3 | 1617.2 | 1778.9 | 1793.0 | 1809.3 | 1820.3 | 1825.6 |
| 52.5° | 924.8 | 931.4 | 1001.2 | 1149.5 | 1318.2 | 1593.8 | 1855.7 | 1880.0 | 1904.3 | 1925.0 | 1939.6 |
| 55° | 898.7 | 906.2 | 961.0 | 1084.2 | 1239.6 | 1495.8 | 1891.5 | 1927.2 | 1961.7 | 1995.7 | 2023.5 |
| 57.5° | 912.4 | 919.5 | 958.8 | 1053.3 | 1192.8 | 1392.4 | 1901.6 | 1957.3 | 2013.8 | 2069.0 | 2123.7 |
| 60° | 962.7 | 970.2 | 1003.8 | 1082.0 | 1180.5 | 1332.8 | 1861.9 | 1954.2 | 2048.2 | 2144.5 | 2235.0 |
| 62.5° | 942.9 | 945.9 | 995.4 | 1132.3 | 1268.8 | 1282.0 | 1717.5 | 1846.4 | 1989.9 | 2138.3 | 2284.5 |
| 63° | 923.9 | 927.4 | 977.8 | 1118.6 | 1295.7 | 1274.5 | 1672.9 | 1808.9 | 1960.3 | 2120.2 | 2279.2 |
| 65° | 837.8 | 838.2 | 876.6 | 987.9 | 1265.7 | 1287.8 | 1474.1 | 1604.0 | 1778.0 | 1969.6 | 2170.6 |
| 67.5° | 625.3 | 622.2 | 659.3 | 744.1 | 993.6 | 1288.2 | 1265.2 | 1338.1 | 1459.1 | 1629.2 | 1809.3 |
| 70° | 221.7 | 216.8 | 276.9 | 394.4 | 619.2 | 1053.7 | 1087.3 | 1092.1 | 1125.7 | 1217.5 | 1330.6 |
| 72.5° | 72.0 | 73.3 | 88.3 | 144.4 | 285.3 | 709.2 | 984.3 | 969.3 | 960.5 | 960.1 | 975.1 |
| 75° | 28.7 | 29.2 | 35.3 | 64.1 | 128.1 | 341.8 | 862.0 | 870.4 | 873.5 | 877.9 | 882.8 |
| 77.5° | 13.7 | 15.0 | 19.9 | 35.8 | 63.6 | 169.1 | 616.9 | 688.0 | 728.7 | 760.0 | 779.0 |
| 80° | 4.9 | 5.8 | 11.1 | 22.1 | 29.6 | 77.7 | 325.1 | 392.2 | 451.8 | 528.6 | 594.9 |
| 82.5° | 0.0 | 0.0 | 2.2 | 15.5 | 16.4 | 31.4 | 133.4 | 156.3 | 178.9 | 231.8 | 297.6 |
| 85° | 0.0 | 0.0 | 0.0 | 4.4 | 4.9 | 5.3 | 45.1 | 54.3 | 60.9 | 71.1 | 82.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.3 | 2.6 | 6.6 | 10.2 |
| 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° | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 |
| 2.5° | 108.6 | 108.2 | 108.2 | 107.3 | 106.9 | 106.0 | 105.5 | 104.2 | 103.8 | 103.8 | 103.8 |
| 5° | 128.5 | 126.8 | 125.9 | 123.6 | 122.3 | 121.9 | 119.7 | 118.8 | 117.5 | 117.9 | 115.7 |
| 7.5° | 150.6 | 147.5 | 146.2 | 143.1 | 142.2 | 139.1 | 138.2 | 136.0 | 134.7 | 132.1 | 131.2 |
| 10° | 174.9 | 170.9 | 168.7 | 163.8 | 162.5 | 160.3 | 157.6 | 155.0 | 152.8 | 150.2 | 148.8 |
| 12.5° | 202.7 | 199.2 | 197.4 | 190.8 | 187.7 | 184.6 | 181.1 | 177.5 | 174.0 | 171.8 | 168.7 |
| 15° | 235.4 | 229.6 | 227.9 | 221.7 | 216.4 | 212.4 | 207.6 | 203.1 | 200.5 | 196.1 | 193.0 |
| 17.5° | 267.6 | 261.9 | 260.5 | 251.3 | 245.5 | 242.9 | 237.6 | 231.8 | 227.0 | 222.6 | 217.7 |
| 20° | 299.9 | 295.9 | 292.4 | 283.5 | 277.3 | 272.9 | 265.9 | 260.1 | 256.1 | 249.9 | 243.8 |
| 22.5° | 332.1 | 328.1 | 325.5 | 316.2 | 310.5 | 304.3 | 298.1 | 291.9 | 286.2 | 278.6 | 271.6 |
| 25° | 365.2 | 362.6 | 361.2 | 352.9 | 347.5 | 341.8 | 335.6 | 328.6 | 321.5 | 313.1 | 305.6 |
| 27.5° | 399.6 | 400.5 | 397.9 | 396.1 | 390.4 | 386.4 | 376.7 | 371.8 | 366.5 | 356.4 | 347.1 |
| 30° | 443.4 | 446.1 | 445.2 | 446.5 | 442.9 | 440.3 | 432.8 | 426.6 | 420.4 | 410.7 | 400.1 |
| 32.5° | 498.6 | 502.1 | 503.9 | 508.8 | 507.0 | 506.1 | 503.9 | 495.1 | 490.6 | 473.9 | 469.5 |
| 35° | 583.8 | 582.1 | 589.6 | 593.5 | 591.8 | 590.9 | 588.2 | 583.4 | 578.1 | 566.2 | 555.1 |
| 37.5° | 694.6 | 696.4 | 699.1 | 691.1 | 685.8 | 685.4 | 677.5 | 672.6 | 665.1 | 651.8 | 638.6 |
| 40° | 897.8 | 886.8 | 874.4 | 840.8 | 826.3 | 817.9 | 794.5 | 787.9 | 775.0 | 756.9 | 743.2 |
| 42.5° | 1161.9 | 1150.9 | 1113.8 | 1057.7 | 1027.6 | 986.1 | 967.2 | 943.8 | 925.6 | 896.0 | 880.2 |
| 45° | 1424.2 | 1392.4 | 1388.0 | 1322.6 | 1285.6 | 1230.8 | 1196.8 | 1157.5 | 1116.4 | 1077.6 | 1049.3 |
| 47.5° | 1645.5 | 1638.4 | 1616.8 | 1577.0 | 1542.6 | 1496.6 | 1452.9 | 1392.4 | 1350.0 | 1294.8 | 1244.0 |
| 50° | 1822.6 | 1822.1 | 1814.2 | 1791.2 | 1762.5 | 1725.4 | 1687.0 | 1635.7 | 1587.6 | 1520.0 | 1465.7 |
| 52.5° | 1955.0 | 1962.1 | 1964.7 | 1957.7 | 1946.7 | 1914.0 | 1894.6 | 1851.7 | 1811.1 | 1753.7 | 1694.9 |
| 55° | 2052.2 | 2078.3 | 2091.5 | 2106.5 | 2103.4 | 2092.0 | 2091.0 | 2063.3 | 2044.7 | 1999.2 | 1957.7 |
| 57.5° | 2172.3 | 2215.2 | 2256.2 | 2329.1 | 2331.7 | 2357.4 | 2370.6 | 2383.9 | 2387.4 | 2369.3 | 2355.6 |
| 60° | 2325.1 | 2412.6 | 2490.3 | 2642.6 | 2682.4 | 2745.1 | 2785.7 | 2829.9 | 2867.4 | 2870.5 | 2869.6 |
| 62.5° | 2432.9 | 2567.6 | 2693.0 | 2919.1 | 2996.4 | 3068.8 | 3123.1 | 3166.0 | 3192.0 | 3218.5 | 3230.9 |
| 63° | 2436.0 | 2583.4 | 2716.9 | 2950.0 | 3031.3 | 3100.1 | 3151.8 | 3191.6 | 3219.0 | 3234.9 | 3242.8 |
| 65° | 2361.3 | 2540.2 | 2699.2 | 2931.4 | 3007.9 | 3077.2 | 3104.1 | 3130.2 | 3143.4 | 3149.6 | 3126.2 |
| 67.5° | 2001.4 | 2176.3 | 2361.8 | 2621.4 | 2686.8 | 2769.8 | 2791.9 | 2805.2 | 2811.3 | 2810.0 | 2790.1 |
| 70° | 1496.6 | 1643.3 | 1849.5 | 2146.3 | 2232.8 | 2314.1 | 2364.4 | 2386.1 | 2393.1 | 2390.9 | 2361.3 |
| 72.5° | 1044.9 | 1131.0 | 1301.0 | 1631.3 | 1749.3 | 1853.5 | 1915.7 | 1948.0 | 1954.6 | 1941.3 | 1914.0 |
| 75° | 877.5 | 881.9 | 920.3 | 1100.9 | 1211.3 | 1322.6 | 1392.9 | 1413.2 | 1399.9 | 1359.7 | 1290.0 |
| 77.5° | 783.4 | 793.2 | 793.2 | 820.1 | 841.7 | 872.6 | 879.3 | 829.8 | 772.4 | 698.2 | 638.1 |
| 80° | 657.1 | 691.1 | 715.0 | 734.9 | 737.1 | 730.9 | 714.5 | 686.7 | 642.6 | 586.0 | 523.3 |
| 82.5° | 399.2 | 466.3 | 493.7 | 596.2 | 646.5 | 680.5 | 677.9 | 640.8 | 607.2 | 548.5 | 495.1 |
| 85° | 100.7 | 108.6 | 117.9 | 153.2 | 171.8 | 209.8 | 233.6 | 244.6 | 248.6 | 228.3 | 206.7 |
| 87.5° | 9.7 | 6.6 | 11.1 | 8.4 | 11.9 | 8.8 | 11.9 | 11.1 | 13.7 | 14.6 | 15.9 |
| 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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CATALOG NUMBER: CEM-F02-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 |
| 2.5° | 102.9 | 102.5 | 102.0 | 101.6 | 101.1 | 100.7 | 99.8 | 99.8 | 98.9 | 98.5 | 98.1 |
| 5° | 114.4 | 113.5 | 113.1 | 112.2 | 110.8 | 109.9 | 108.6 | 106.9 | 105.5 | 105.1 | 104.2 |
| 7.5° | 128.9 | 126.8 | 125.9 | 124.5 | 122.8 | 120.1 | 118.4 | 117.1 | 114.8 | 113.5 | 110.8 |
| 10° | 145.3 | 143.1 | 140.4 | 137.8 | 135.1 | 132.1 | 129.8 | 128.1 | 124.5 | 122.8 | 119.7 |
| 12.5° | 166.1 | 162.1 | 159.0 | 155.5 | 151.9 | 148.4 | 145.8 | 140.4 | 137.3 | 133.4 | 130.7 |
| 15° | 187.2 | 183.7 | 180.2 | 175.8 | 170.5 | 164.7 | 162.1 | 157.2 | 153.2 | 147.1 | 143.5 |
| 17.5° | 212.9 | 206.2 | 200.9 | 195.6 | 190.8 | 185.5 | 180.2 | 172.7 | 166.9 | 161.6 | 154.6 |
| 20° | 238.1 | 230.1 | 224.3 | 217.3 | 210.2 | 201.8 | 195.6 | 190.3 | 182.4 | 175.3 | 167.8 |
| 22.5° | 265.0 | 257.0 | 247.8 | 240.7 | 230.9 | 224.3 | 215.9 | 207.1 | 199.2 | 189.9 | 180.6 |
| 25° | 297.6 | 289.2 | 278.6 | 269.4 | 258.3 | 249.1 | 238.9 | 228.8 | 219.1 | 208.5 | 196.5 |
| 27.5° | 337.8 | 329.0 | 317.5 | 306.5 | 291.9 | 280.4 | 270.7 | 257.0 | 244.6 | 231.4 | 217.7 |
| 30° | 388.6 | 378.9 | 364.8 | 348.9 | 334.3 | 321.5 | 307.8 | 289.7 | 276.0 | 260.1 | 242.5 |
| 32.5° | 454.9 | 443.4 | 424.4 | 409.4 | 391.3 | 374.5 | 355.5 | 337.4 | 317.9 | 297.2 | 276.9 |
| 35° | 538.3 | 527.8 | 505.6 | 483.6 | 463.7 | 443.8 | 420.0 | 399.2 | 371.8 | 346.6 | 320.6 |
| 37.5° | 624.9 | 605.9 | 585.6 | 561.8 | 537.0 | 513.2 | 484.0 | 455.3 | 423.9 | 396.6 | 363.9 |
| 40° | 723.8 | 700.9 | 684.1 | 658.5 | 623.6 | 589.6 | 562.6 | 526.9 | 487.5 | 450.9 | 412.5 |
| 42.5° | 859.4 | 833.8 | 803.8 | 764.9 | 739.7 | 700.0 | 665.1 | 622.7 | 571.0 | 529.9 | 483.6 |
| 45° | 1016.2 | 981.3 | 952.1 | 914.6 | 884.1 | 834.6 | 794.0 | 737.5 | 685.8 | 631.9 | 575.4 |
| 47.5° | 1195.0 | 1151.8 | 1109.3 | 1072.2 | 1023.7 | 975.1 | 923.4 | 863.3 | 797.1 | 737.9 | 670.8 |
| 50° | 1400.4 | 1339.0 | 1280.3 | 1232.6 | 1165.9 | 1109.8 | 1053.7 | 986.1 | 912.8 | 844.8 | 768.4 |
| 52.5° | 1628.7 | 1557.6 | 1479.9 | 1406.6 | 1329.3 | 1257.3 | 1189.7 | 1112.0 | 1030.3 | 947.3 | 862.0 |
| 55° | 1904.3 | 1850.8 | 1759.4 | 1666.2 | 1562.9 | 1466.6 | 1379.6 | 1283.3 | 1184.0 | 1074.9 | 985.2 |
| 57.5° | 2335.7 | 2309.7 | 2233.3 | 2140.1 | 2005.4 | 1888.3 | 1740.9 | 1622.9 | 1479.0 | 1328.8 | 1213.1 |
| 60° | 2920.4 | 2888.2 | 2845.3 | 2769.8 | 2663.0 | 2504.0 | 2341.4 | 2158.2 | 1939.2 | 1731.2 | 1533.7 |
| 62.5° | 3232.2 | 3220.7 | 3185.8 | 3133.7 | 3033.9 | 2908.5 | 2744.7 | 2543.3 | 2296.0 | 2043.4 | 1791.6 |
| 63° | 3241.5 | 3226.9 | 3196.9 | 3143.9 | 3056.0 | 2934.6 | 2773.8 | 2578.2 | 2336.2 | 2078.7 | 1821.7 |
| 65° | 3116.1 | 3110.3 | 3079.8 | 3022.0 | 2961.9 | 2869.2 | 2744.7 | 2576.4 | 2373.3 | 2129.9 | 1874.2 |
| 67.5° | 2763.7 | 2746.4 | 2699.6 | 2682.0 | 2640.0 | 2575.5 | 2480.6 | 2364.9 | 2219.6 | 2028.3 | 1807.6 |
| 70° | 2337.5 | 2311.9 | 2253.1 | 2221.8 | 2170.6 | 2129.9 | 2072.1 | 1989.5 | 1899.9 | 1766.5 | 1601.7 |
| 72.5° | 1885.7 | 1832.7 | 1778.9 | 1697.2 | 1625.6 | 1553.2 | 1489.2 | 1430.9 | 1332.3 | 1278.5 | 1153.5 |
| 75° | 1224.6 | 1128.3 | 1036.0 | 912.4 | 801.1 | 702.6 | 606.8 | 558.2 | 457.1 | 416.0 | 357.3 |
| 77.5° | 581.2 | 527.3 | 454.9 | 398.8 | 327.2 | 267.2 | 218.2 | 163.8 | 128.5 | 100.7 | 76.8 |
| 80° | 469.0 | 423.5 | 379.8 | 329.0 | 275.1 | 219.5 | 168.2 | 125.9 | 89.2 | 61.8 | 43.7 |
| 82.5° | 418.2 | 368.8 | 314.9 | 280.0 | 243.3 | 199.2 | 163.4 | 133.4 | 98.5 | 72.0 | 49.0 |
| 85° | 162.5 | 136.9 | 105.5 | 86.1 | 67.1 | 55.2 | 49.9 | 34.5 | 26.9 | 21.2 | 16.4 |
| 87.5° | 14.1 | 11.5 | 9.3 | 6.2 | 6.6 | 3.5 | 4.0 | 2.6 | 2.2 | 2.2 | 1.8 |
| 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):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|------|------|------|
| 0° | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 |
| 2.5° | 97.6 | 97.2 | 96.7 | 95.8 | 95.8 | 94.9 | 94.5 | 94.1 | 91.9 | 87.0 | 83.0 |
| 5° | 102.5 | 101.6 | 100.7 | 99.4 | 98.5 | 97.2 | 96.3 | 94.9 | 90.1 | 80.8 | 72.9 |
| 7.5° | 109.5 | 107.8 | 106.4 | 103.8 | 102.5 | 100.7 | 99.4 | 97.2 | 89.2 | 75.1 | 64.1 |
| 10° | 117.9 | 114.8 | 112.6 | 109.5 | 106.9 | 104.6 | 102.5 | 99.4 | 88.3 | 68.9 | 56.1 |
| 12.5° | 128.1 | 124.5 | 120.1 | 116.6 | 113.1 | 109.9 | 106.9 | 102.9 | 87.0 | 63.6 | 49.9 |
| 15° | 138.2 | 132.9 | 129.8 | 125.0 | 120.1 | 115.7 | 111.3 | 107.8 | 87.5 | 57.8 | 44.6 |
| 17.5° | 149.7 | 144.4 | 137.8 | 132.5 | 127.2 | 121.5 | 116.1 | 109.1 | 85.2 | 53.4 | 40.6 |
| 20° | 160.8 | 153.2 | 147.1 | 140.4 | 132.9 | 125.9 | 119.2 | 113.1 | 83.5 | 49.0 | 37.1 |
| 22.5° | 172.7 | 163.8 | 155.9 | 147.5 | 138.2 | 130.3 | 122.3 | 114.4 | 80.4 | 45.1 | 34.0 |
| 25° | 187.2 | 177.1 | 165.6 | 155.5 | 145.8 | 136.0 | 125.9 | 116.1 | 77.3 | 41.5 | 31.8 |
| 27.5° | 204.9 | 191.6 | 180.2 | 167.4 | 153.7 | 141.3 | 130.3 | 119.7 | 74.2 | 38.9 | 29.6 |
| 30° | 227.4 | 212.0 | 195.6 | 179.3 | 164.7 | 150.6 | 135.1 | 121.9 | 71.1 | 36.2 | 27.4 |
| 32.5° | 257.5 | 238.1 | 218.2 | 199.2 | 179.8 | 161.6 | 145.3 | 128.1 | 69.3 | 34.0 | 25.2 |
| 35° | 297.2 | 272.1 | 247.8 | 223.9 | 200.5 | 178.4 | 157.2 | 137.8 | 69.3 | 31.4 | 22.5 |
| 37.5° | 334.8 | 305.6 | 274.7 | 245.1 | 217.3 | 191.6 | 166.5 | 143.1 | 65.8 | 29.2 | 20.3 |
| 40° | 375.4 | 340.5 | 304.3 | 269.4 | 235.8 | 204.1 | 175.3 | 148.4 | 62.7 | 26.5 | 18.1 |
| 42.5° | 437.6 | 393.5 | 346.2 | 305.6 | 265.4 | 226.1 | 190.3 | 158.5 | 58.8 | 23.8 | 15.9 |
| 45° | 519.3 | 463.2 | 407.6 | 358.2 | 306.9 | 258.8 | 216.4 | 177.1 | 57.8 | 21.6 | 13.7 |
| 47.5° | 606.8 | 540.5 | 475.2 | 412.0 | 352.0 | 295.9 | 245.1 | 197.8 | 57.8 | 19.4 | 11.9 |
| 50° | 693.8 | 610.8 | 541.0 | 467.7 | 400.1 | 333.9 | 273.4 | 219.5 | 58.3 | 17.7 | 9.7 |
| 52.5° | 772.4 | 683.6 | 605.5 | 520.6 | 446.1 | 369.2 | 303.4 | 240.7 | 57.4 | 15.5 | 7.9 |
| 55° | 881.5 | 777.2 | 686.7 | 593.1 | 505.6 | 419.1 | 344.5 | 272.5 | 57.8 | 13.7 | 6.6 |
| 57.5° | 1082.4 | 960.1 | 851.0 | 728.2 | 627.5 | 515.8 | 425.3 | 337.8 | 63.2 | 11.5 | 4.9 |
| 60° | 1370.8 | 1211.8 | 1058.6 | 908.9 | 780.8 | 647.9 | 530.4 | 427.5 | 74.2 | 9.3 | 3.5 |
| 62.5° | 1564.6 | 1356.6 | 1173.8 | 1008.6 | 859.8 | 720.7 | 592.6 | 475.6 | 81.7 | 7.5 | 2.2 |
| 63° | 1584.5 | 1369.5 | 1185.8 | 1015.3 | 863.3 | 724.2 | 595.3 | 479.2 | 82.1 | 7.1 | 2.2 |
| 65° | 1622.0 | 1391.5 | 1192.4 | 1016.6 | 859.8 | 719.4 | 593.5 | 478.7 | 83.0 | 5.8 | 1.8 |
| 67.5° | 1579.2 | 1357.5 | 1153.9 | 978.6 | 828.9 | 690.7 | 571.5 | 461.1 | 82.6 | 4.0 | 1.3 |
| 70° | 1412.3 | 1228.6 | 1049.7 | 886.3 | 750.3 | 625.3 | 520.2 | 420.4 | 75.9 | 2.6 | 0.9 |
| 72.5° | 1036.9 | 911.9 | 773.3 | 655.3 | 565.3 | 469.5 | 400.5 | 315.8 | 58.8 | 1.8 | 0.5 |
| 75° | 307.4 | 280.0 | 235.4 | 207.6 | 183.3 | 151.5 | 134.7 | 105.1 | 30.1 | 0.9 | 0.0 |
| 77.5° | 61.4 | 55.6 | 49.9 | 45.5 | 42.8 | 36.6 | 34.9 | 28.7 | 12.4 | 0.5 | 0.0 |
| 80° | 32.2 | 26.5 | 22.5 | 19.9 | 17.2 | 14.1 | 11.9 | 9.7 | 2.2 | 0.0 | 0.0 |
| 82.5° | 30.9 | 20.8 | 15.0 | 12.4 | 10.6 | 8.4 | 6.6 | 4.9 | 1.3 | 0.0 | 0.0 |
| 85° | 11.5 | 8.8 | 6.6 | 5.3 | 4.4 | 4.0 | 3.1 | 2.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.8 | 1.3 | 1.3 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 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: CEM-F02-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|
| 0° | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 |
| 2.5° | 79.1 | 75.5 | 73.8 | 71.5 | 71.5 | 71.1 | 72.0 |
| 5° | 65.8 | 60.9 | 57.4 | 54.8 | 55.2 | 53.9 | 54.3 |
| 7.5° | 55.6 | 50.8 | 47.7 | 45.9 | 45.5 | 45.1 | 45.1 |
| 10° | 48.1 | 43.7 | 41.1 | 39.8 | 39.3 | 39.3 | 39.3 |
| 12.5° | 42.8 | 38.4 | 36.2 | 35.3 | 35.3 | 34.9 | 34.9 |
| 15° | 38.4 | 34.9 | 32.7 | 31.8 | 31.8 | 31.4 | 31.8 |
| 17.5° | 34.9 | 31.4 | 29.6 | 28.7 | 28.7 | 28.2 | 28.2 |
| 20° | 31.8 | 28.7 | 26.9 | 25.6 | 25.6 | 25.2 | 25.6 |
| 22.5° | 29.2 | 26.1 | 23.8 | 22.9 | 22.5 | 22.1 | 22.5 |
| 25° | 26.5 | 23.4 | 21.2 | 19.9 | 19.4 | 19.4 | 19.0 |
| 27.5° | 24.3 | 21.2 | 18.5 | 17.2 | 16.8 | 16.8 | 16.4 |
| 30° | 22.1 | 18.5 | 15.9 | 14.6 | 14.1 | 14.1 | 14.1 |
| 32.5° | 19.9 | 15.9 | 13.7 | 12.4 | 11.9 | 11.9 | 11.9 |
| 35° | 17.7 | 13.7 | 11.5 | 10.2 | 9.7 | 9.7 | 9.7 |
| 37.5° | 15.0 | 11.5 | 8.8 | 7.9 | 7.5 | 7.1 | 7.1 |
| 40° | 12.8 | 8.8 | 6.6 | 5.8 | 4.9 | 4.9 | 4.9 |
| 42.5° | 10.6 | 7.1 | 4.9 | 3.5 | 3.1 | 2.6 | 3.1 |
| 45° | 8.8 | 5.3 | 3.1 | 1.8 | 1.3 | 1.3 | 1.3 |
| 47.5° | 7.1 | 3.5 | 1.3 | 0.5 | 0.5 | 0.5 | 0.5 |
| 50° | 5.3 | 2.2 | 0.5 | 0.0 | 0.0 | 0.5 | 0.5 |
| 52.5° | 4.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 2.2 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 63° | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.5 | 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)