

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: LUMARK

Report Number: P163283

Luminaire Tested: **LDRL-SL2-F06-E-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163283
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: LUMARK
Catalog Number: LDRL-SL2-F06-E-7050-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9039.4 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

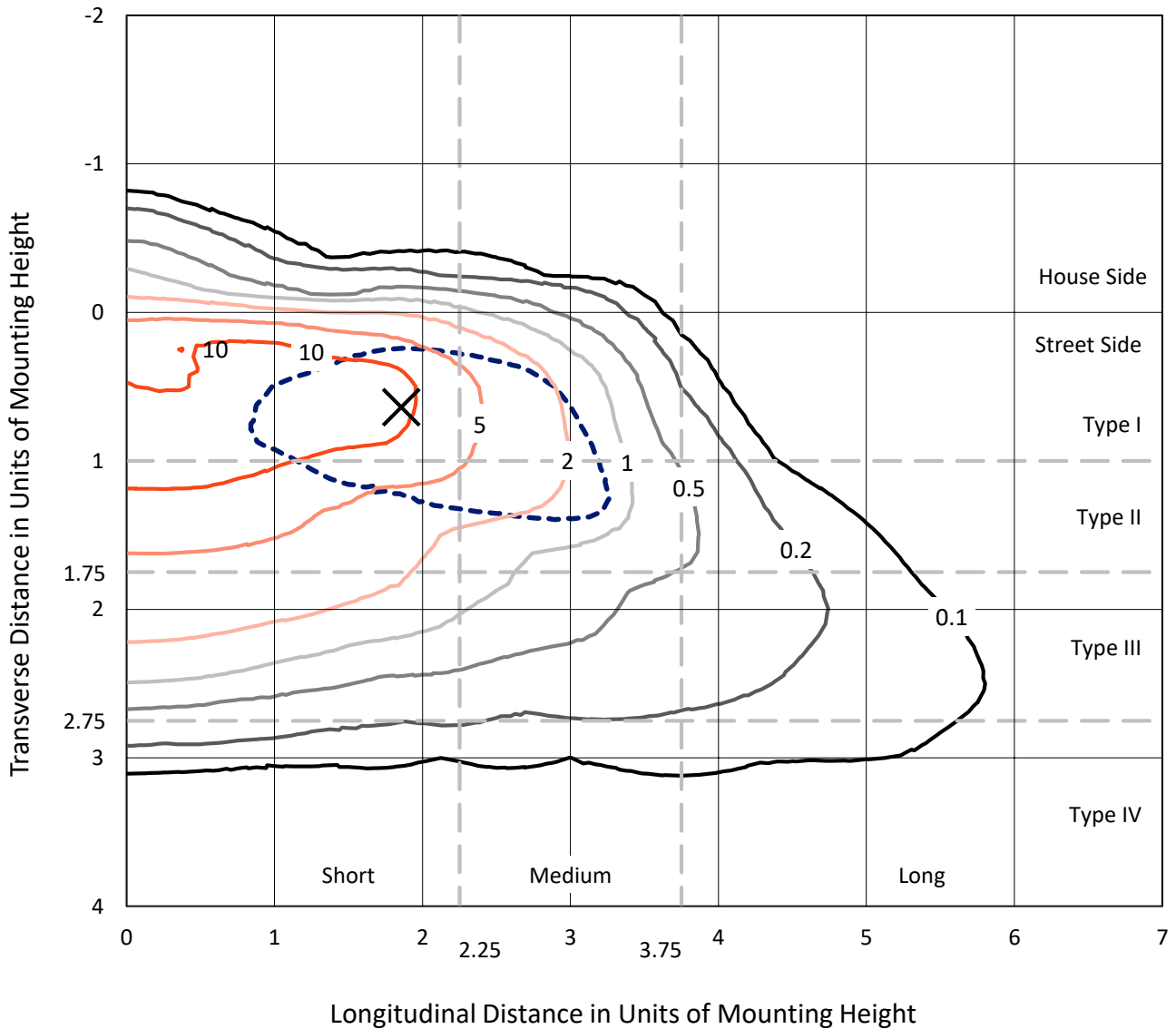
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P163283
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Iso-Footcandle Lines of Horizontal Illumination

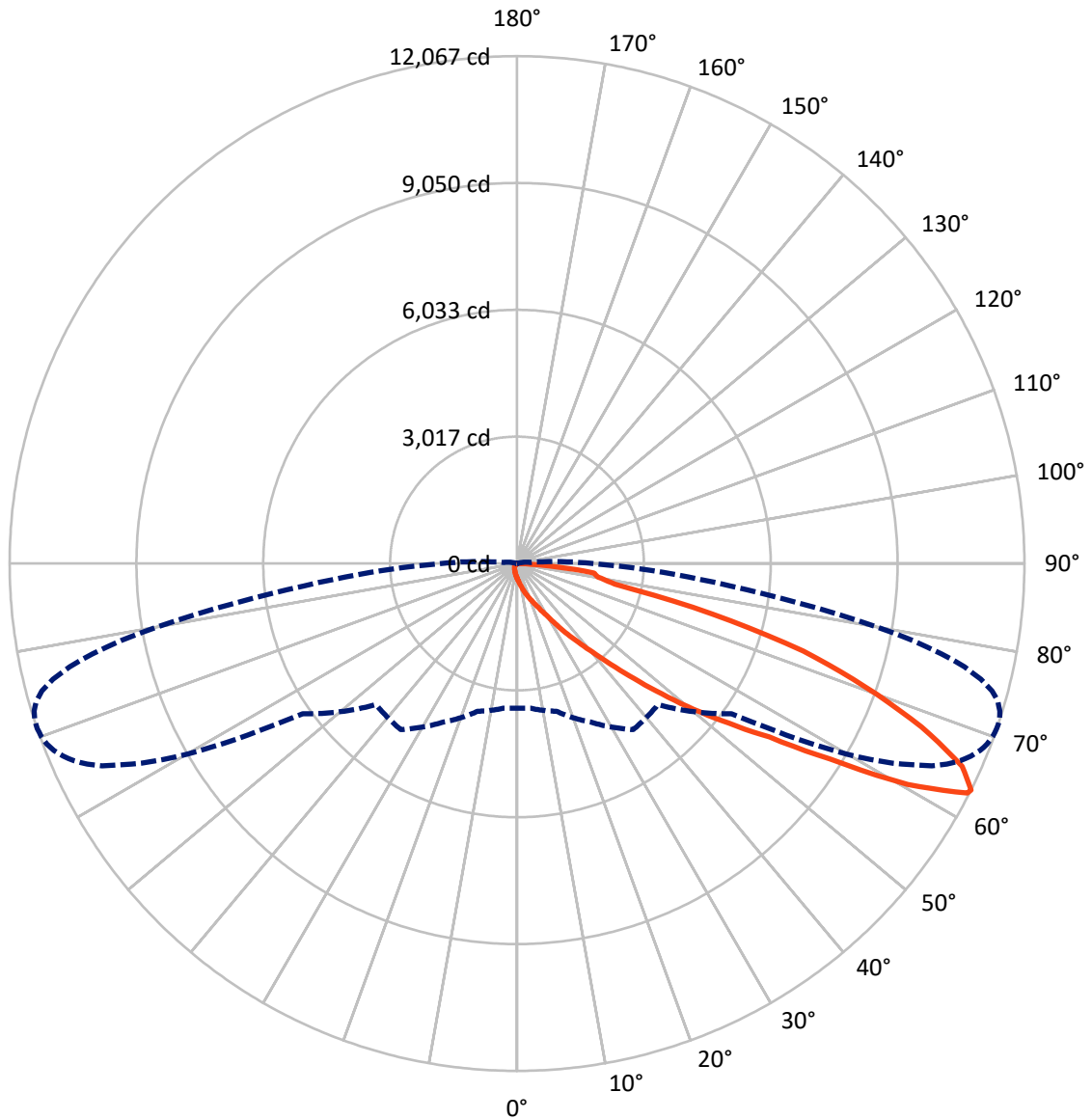
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19 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 | 191.9 | 0.0 | 191.9 |
| | % Fixture | 2.1 | 0.0 | 2.1 |
| Street Side | Lumens | 8847.5 | 0.0 | 8847.5 |
| | % Fixture | 97.9 | 0.0 | 97.9 |
| Total | Lumens | 9039.4 | 0.0 | 9039.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.3 | 0.4 |
| 10°-20° | 148.6 | 1.6 |
| 20°-30° | 301.9 | 3.3 |
| 30°-40° | 737.6 | 8.2 |
| 40°-50° | 1649.5 | 18.2 |
| 50°-60° | 2319.4 | 25.7 |
| 60°-70° | 2727.5 | 30.2 |
| 70°-80° | 984.9 | 10.9 |
| 80°-90° | 131.7 | 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° | 9039.4 | 100.0 |
| 0°-180° | 9039.4 | 100.0 |

Coefficient of Utilization



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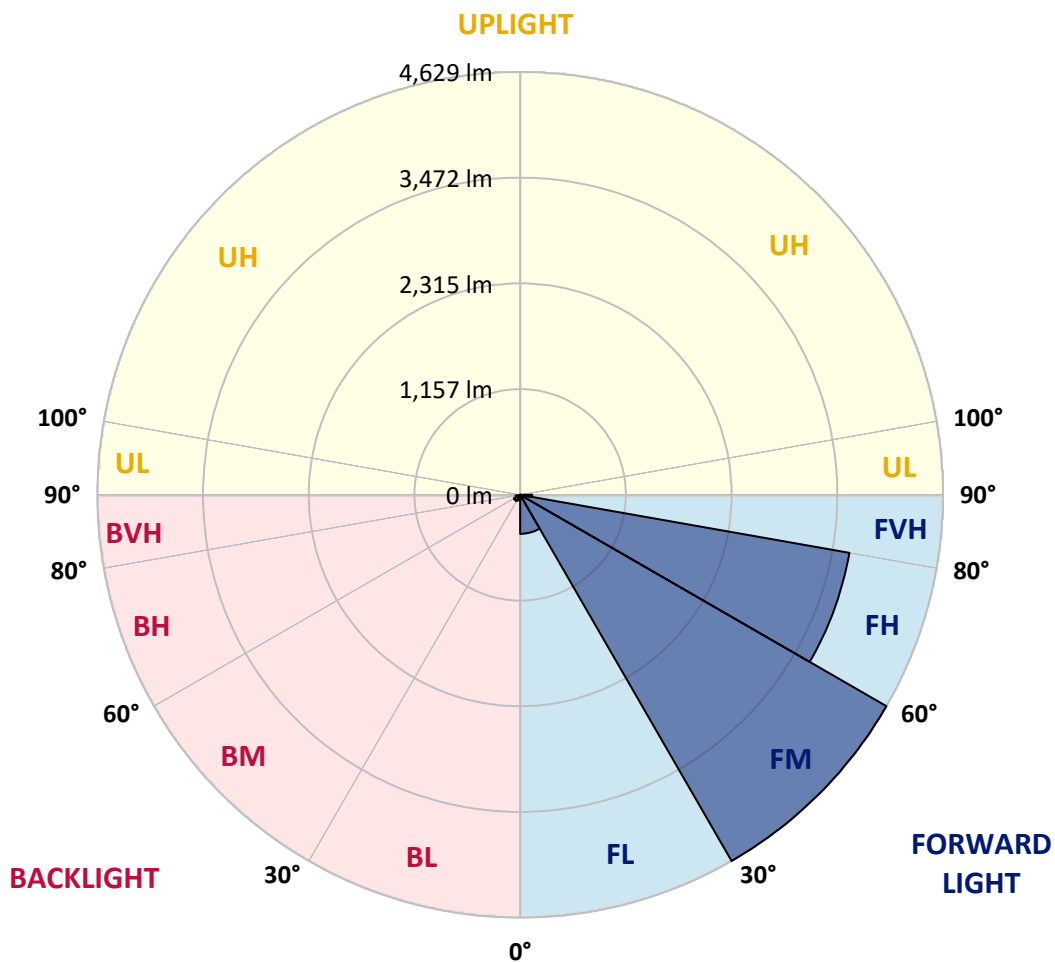
CATALOG NUMBER: LDRL-SL2-F06-E-7050-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 427.1 | 4.7 | | | |
| FM | (30°-60°) | 4629.2 | 51.2 | | | |
| FH | (60°-80°) | 3659.7 | 40.5 | | | G2/5000 |
| FVH | (80°-90°) | 131.4 | 1.5 | | | G2/225 |
| BL | (0°-30°) | 61.7 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 77.3 | 0.9 | B0/220 | | |
| BH | (60°-80°) | 52.6 | 0.6 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.3 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 |
| 2.5° | 453.6 | 458.4 | 455.2 | 447.0 | 437.1 | 424.0 | 412.5 | 412.5 | 410.9 | 405.9 | 407.5 |
| 5° | 594.9 | 596.5 | 590.0 | 570.3 | 552.2 | 524.2 | 493.0 | 489.7 | 486.4 | 481.5 | 479.9 |
| 7.5° | 732.9 | 739.5 | 732.9 | 711.5 | 675.4 | 632.7 | 583.4 | 578.5 | 568.6 | 568.6 | 562.0 |
| 10° | 874.3 | 874.3 | 867.7 | 843.0 | 810.1 | 749.4 | 686.9 | 678.7 | 667.2 | 663.9 | 654.0 |
| 12.5° | 974.5 | 974.5 | 971.2 | 958.0 | 931.7 | 877.5 | 801.9 | 793.7 | 778.9 | 774.0 | 762.5 |
| 15° | 1013.9 | 1013.9 | 1015.6 | 1027.1 | 1028.7 | 1004.1 | 925.2 | 918.6 | 903.9 | 890.6 | 885.8 |
| 17.5° | 1038.5 | 1036.9 | 1036.9 | 1053.4 | 1083.0 | 1099.3 | 1048.4 | 1041.9 | 1025.4 | 1018.8 | 1002.5 |
| 20° | 1092.8 | 1089.5 | 1079.6 | 1079.6 | 1107.6 | 1165.1 | 1165.1 | 1163.5 | 1145.4 | 1140.5 | 1132.3 |
| 22.5° | 1173.3 | 1170.1 | 1140.5 | 1115.8 | 1128.9 | 1201.3 | 1268.7 | 1265.3 | 1258.8 | 1252.2 | 1247.2 |
| 25° | 1304.8 | 1293.3 | 1242.4 | 1170.1 | 1158.5 | 1235.7 | 1347.6 | 1355.7 | 1360.7 | 1360.7 | 1363.9 |
| 27.5° | 1503.6 | 1488.9 | 1398.5 | 1263.7 | 1212.8 | 1291.7 | 1434.6 | 1451.0 | 1465.9 | 1469.1 | 1483.9 |
| 30° | 1779.7 | 1753.4 | 1623.6 | 1426.4 | 1309.7 | 1373.8 | 1562.8 | 1580.8 | 1602.2 | 1608.8 | 1631.8 |
| 32.5° | 2233.2 | 2218.5 | 2093.6 | 1797.8 | 1548.0 | 1534.9 | 1741.9 | 1764.9 | 1792.9 | 1804.4 | 1832.3 |
| 35° | 2923.4 | 2926.8 | 2824.8 | 2558.6 | 2213.5 | 2032.8 | 2062.4 | 2082.1 | 2091.9 | 2126.4 | 2141.2 |
| 37.5° | 3391.8 | 3400.0 | 3423.0 | 3317.8 | 3071.3 | 2887.3 | 2655.6 | 2676.9 | 2626.0 | 2631.0 | 2632.6 |
| 40° | 3648.2 | 3674.4 | 3809.2 | 3911.0 | 3891.3 | 3784.5 | 3598.9 | 3610.4 | 3515.0 | 3493.7 | 3390.1 |
| 42.5° | 3819.1 | 3853.5 | 4068.8 | 4384.3 | 4545.4 | 4642.3 | 4599.6 | 4594.7 | 4520.7 | 4492.8 | 4405.7 |
| 45° | 3925.9 | 3957.1 | 4228.2 | 4693.3 | 5064.7 | 5347.4 | 5464.0 | 5477.2 | 5414.7 | 5386.8 | 5314.4 |
| 47.5° | 3920.9 | 3957.1 | 4247.9 | 4808.3 | 5355.6 | 5807.4 | 6136.1 | 6152.5 | 6190.3 | 6165.7 | 6170.6 |
| 50° | 3704.0 | 3738.6 | 4031.0 | 4612.7 | 5270.1 | 6017.8 | 6619.3 | 6671.8 | 6732.6 | 6773.7 | 6793.4 |
| 52.5° | 3441.1 | 3465.7 | 3725.3 | 4277.5 | 4905.3 | 5930.7 | 6905.2 | 6995.6 | 7086.0 | 7163.2 | 7217.4 |
| 55° | 3344.2 | 3372.1 | 3575.8 | 4034.4 | 4612.7 | 5565.9 | 7038.3 | 7171.4 | 7299.6 | 7426.1 | 7529.7 |
| 57.5° | 3395.1 | 3421.4 | 3567.6 | 3919.3 | 4438.6 | 5181.4 | 7076.1 | 7283.2 | 7493.5 | 7698.9 | 7902.7 |
| 60° | 3582.4 | 3610.4 | 3735.2 | 4026.1 | 4392.6 | 4959.5 | 6928.2 | 7271.7 | 7621.6 | 7980.0 | 8316.8 |
| 62.5° | 3508.4 | 3520.0 | 3704.0 | 4213.5 | 4721.2 | 4770.5 | 6390.9 | 6870.7 | 7404.7 | 7956.9 | 8500.8 |
| 63° | 3437.8 | 3451.0 | 3638.3 | 4162.5 | 4821.5 | 4742.6 | 6224.9 | 6731.0 | 7294.6 | 7889.5 | 8481.1 |
| 65° | 3117.4 | 3119.0 | 3262.0 | 3676.0 | 4709.7 | 4791.9 | 5485.4 | 5968.5 | 6615.9 | 7329.2 | 8076.8 |
| 67.5° | 2327.0 | 2315.5 | 2453.5 | 2769.0 | 3697.5 | 4793.6 | 4708.1 | 4979.2 | 5429.5 | 6062.1 | 6732.6 |
| 70° | 825.0 | 806.9 | 1030.3 | 1467.5 | 2303.9 | 3920.9 | 4045.8 | 4063.9 | 4188.8 | 4530.6 | 4951.3 |
| 72.5° | 267.8 | 272.8 | 328.6 | 537.3 | 1061.6 | 2639.1 | 3662.9 | 3607.0 | 3574.2 | 3572.6 | 3628.5 |
| 75° | 106.8 | 108.5 | 131.4 | 238.3 | 476.5 | 1271.9 | 3207.7 | 3238.9 | 3250.4 | 3266.9 | 3285.0 |
| 77.5° | 50.9 | 55.9 | 73.9 | 133.1 | 236.6 | 629.4 | 2295.7 | 2560.2 | 2711.5 | 2828.2 | 2898.8 |
| 80° | 18.1 | 21.3 | 41.1 | 82.1 | 110.1 | 289.2 | 1209.5 | 1459.3 | 1681.1 | 1967.0 | 2213.5 |
| 82.5° | 0.0 | 0.0 | 8.2 | 57.5 | 60.8 | 116.7 | 496.3 | 581.7 | 665.5 | 862.7 | 1107.6 |
| 85° | 0.0 | 0.0 | 0.0 | 16.5 | 18.1 | 19.7 | 167.6 | 202.1 | 226.8 | 264.6 | 305.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 4.9 | 9.9 | 24.6 | 37.8 |
| 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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CATALOG NUMBER: LDRL-SL2-F06-E-7050-HSS

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 |
| 2.5° | 404.3 | 402.6 | 402.6 | 399.3 | 397.7 | 394.4 | 392.8 | 387.8 | 386.2 | 386.2 | 386.2 |
| 5° | 478.2 | 471.7 | 468.3 | 460.2 | 455.2 | 453.6 | 445.3 | 442.1 | 437.1 | 438.7 | 430.6 |
| 7.5° | 560.4 | 548.9 | 543.9 | 532.4 | 529.2 | 517.6 | 514.3 | 506.1 | 501.2 | 491.4 | 488.0 |
| 10° | 650.8 | 635.9 | 627.8 | 609.7 | 604.7 | 596.5 | 586.6 | 576.8 | 568.6 | 558.8 | 553.8 |
| 12.5° | 754.2 | 741.1 | 734.5 | 709.9 | 698.4 | 686.9 | 673.7 | 660.6 | 647.5 | 639.3 | 627.8 |
| 15° | 875.9 | 854.6 | 848.0 | 825.0 | 805.3 | 790.4 | 772.3 | 756.0 | 746.1 | 729.6 | 718.2 |
| 17.5° | 995.9 | 974.5 | 969.5 | 935.1 | 913.7 | 903.9 | 884.1 | 862.7 | 844.7 | 828.2 | 810.1 |
| 20° | 1115.8 | 1101.1 | 1087.8 | 1055.0 | 1032.0 | 1015.6 | 989.2 | 967.9 | 953.2 | 930.1 | 907.1 |
| 22.5° | 1235.7 | 1221.0 | 1211.1 | 1176.6 | 1155.2 | 1132.3 | 1109.2 | 1086.2 | 1064.9 | 1036.9 | 1010.6 |
| 25° | 1359.0 | 1349.2 | 1344.2 | 1313.0 | 1293.3 | 1271.9 | 1249.0 | 1222.6 | 1196.3 | 1165.1 | 1137.1 |
| 27.5° | 1487.2 | 1490.5 | 1480.6 | 1474.0 | 1452.7 | 1437.9 | 1401.7 | 1383.6 | 1363.9 | 1326.1 | 1291.7 |
| 30° | 1649.9 | 1659.7 | 1656.5 | 1661.4 | 1648.2 | 1638.4 | 1610.4 | 1587.5 | 1564.5 | 1528.3 | 1488.9 |
| 32.5° | 1855.3 | 1868.4 | 1875.0 | 1893.1 | 1886.5 | 1883.3 | 1875.0 | 1842.2 | 1825.7 | 1763.3 | 1746.8 |
| 35° | 2172.4 | 2165.8 | 2193.8 | 2208.6 | 2202.0 | 2198.8 | 2188.9 | 2170.8 | 2151.1 | 2106.7 | 2065.6 |
| 37.5° | 2584.9 | 2591.5 | 2601.4 | 2571.8 | 2552.1 | 2550.4 | 2520.8 | 2502.8 | 2474.9 | 2425.6 | 2376.3 |
| 40° | 3340.8 | 3299.7 | 3253.8 | 3128.9 | 3074.7 | 3043.4 | 2956.4 | 2931.7 | 2884.0 | 2816.6 | 2765.7 |
| 42.5° | 4323.5 | 4282.5 | 4144.4 | 3935.8 | 3823.9 | 3669.5 | 3598.9 | 3511.8 | 3444.4 | 3334.3 | 3275.1 |
| 45° | 5299.7 | 5181.4 | 5164.9 | 4921.7 | 4783.7 | 4579.9 | 4453.3 | 4307.1 | 4154.3 | 4009.6 | 3904.5 |
| 47.5° | 6122.9 | 6096.7 | 6016.2 | 5868.3 | 5740.1 | 5569.1 | 5406.5 | 5181.4 | 5023.6 | 4818.2 | 4629.2 |
| 50° | 6781.9 | 6780.3 | 6750.7 | 6665.2 | 6558.5 | 6420.5 | 6277.4 | 6086.8 | 5907.7 | 5656.3 | 5454.2 |
| 52.5° | 7274.9 | 7301.2 | 7311.1 | 7284.8 | 7243.7 | 7122.1 | 7049.8 | 6890.4 | 6739.2 | 6525.6 | 6307.0 |
| 55° | 7636.5 | 7733.5 | 7782.8 | 7838.6 | 7827.1 | 7784.4 | 7781.0 | 7677.6 | 7608.5 | 7439.3 | 7284.8 |
| 57.5° | 8083.4 | 8242.8 | 8395.7 | 8666.8 | 8676.7 | 8772.0 | 8821.3 | 8870.6 | 8883.7 | 8816.3 | 8765.4 |
| 60° | 8652.1 | 8977.4 | 9266.6 | 9833.5 | 9981.4 | 10214.8 | 10366.0 | 10530.3 | 10670.0 | 10681.5 | 10678.2 |
| 62.5° | 9053.0 | 9554.2 | 10020.9 | 10862.3 | 11149.9 | 11419.4 | 11621.4 | 11780.9 | 11877.8 | 11976.4 | 12022.4 |
| 63° | 9064.5 | 9613.4 | 10109.6 | 10977.3 | 11279.7 | 11536.1 | 11728.3 | 11876.2 | 11978.1 | 12037.3 | 12066.9 |
| 65° | 8786.7 | 9452.3 | 10043.9 | 10908.3 | 11192.6 | 11450.6 | 11550.8 | 11647.8 | 11697.1 | 11720.0 | 11633.0 |
| 67.5° | 7447.5 | 8098.3 | 8788.4 | 9754.7 | 9997.9 | 10306.8 | 10389.0 | 10438.3 | 10461.3 | 10456.3 | 10382.4 |
| 70° | 5569.1 | 6114.8 | 6882.2 | 7986.5 | 8308.6 | 8610.9 | 8798.2 | 8878.8 | 8905.1 | 8896.8 | 8786.7 |
| 72.5° | 3888.1 | 4208.5 | 4841.2 | 6070.4 | 6509.2 | 6897.0 | 7128.6 | 7248.6 | 7273.3 | 7224.0 | 7122.1 |
| 75° | 3265.3 | 3281.7 | 3424.7 | 4096.8 | 4507.6 | 4921.7 | 5183.0 | 5258.6 | 5209.3 | 5059.8 | 4800.1 |
| 77.5° | 2915.2 | 2951.4 | 2951.4 | 3051.6 | 3132.1 | 3247.2 | 3271.9 | 3087.8 | 2874.1 | 2598.0 | 2374.6 |
| 80° | 2445.3 | 2571.8 | 2660.6 | 2734.5 | 2742.7 | 2719.7 | 2658.8 | 2555.4 | 2391.0 | 2180.7 | 1947.3 |
| 82.5° | 1485.6 | 1735.4 | 1837.2 | 2218.5 | 2405.8 | 2532.4 | 2522.5 | 2384.5 | 2259.6 | 2041.0 | 1842.2 |
| 85° | 374.7 | 404.3 | 438.7 | 570.3 | 639.3 | 780.6 | 869.3 | 910.4 | 925.2 | 849.6 | 769.1 |
| 87.5° | 36.2 | 24.6 | 41.1 | 31.2 | 44.3 | 32.8 | 44.3 | 41.1 | 50.9 | 54.2 | 59.2 |
| 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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CATALOG NUMBER: LDRL-SL2-F06-E-7050-HSS

CANDELA DISTRIBUTION (continued):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 |
| 2.5° | 382.9 | 381.3 | 379.6 | 377.9 | 376.3 | 374.7 | 371.4 | 371.4 | 368.1 | 366.4 | 364.8 |
| 5° | 425.6 | 422.4 | 420.7 | 417.4 | 412.5 | 409.1 | 404.3 | 397.7 | 392.8 | 391.1 | 387.8 |
| 7.5° | 479.9 | 471.7 | 468.3 | 463.4 | 456.8 | 447.0 | 440.4 | 435.5 | 427.2 | 422.4 | 412.5 |
| 10° | 540.7 | 532.4 | 522.6 | 512.7 | 502.9 | 491.4 | 483.1 | 476.5 | 463.4 | 456.8 | 445.3 |
| 12.5° | 617.9 | 603.1 | 591.6 | 578.5 | 565.3 | 552.2 | 542.3 | 522.6 | 511.1 | 496.3 | 486.4 |
| 15° | 696.8 | 683.6 | 670.5 | 654.0 | 634.3 | 612.9 | 603.1 | 585.0 | 570.3 | 547.2 | 534.1 |
| 17.5° | 792.0 | 767.5 | 747.7 | 728.0 | 709.9 | 690.2 | 670.5 | 642.5 | 621.2 | 601.5 | 575.1 |
| 20° | 885.8 | 856.2 | 834.8 | 808.5 | 782.2 | 751.0 | 728.0 | 708.3 | 678.7 | 652.4 | 624.4 |
| 22.5° | 986.0 | 956.4 | 921.9 | 895.6 | 859.4 | 834.8 | 803.5 | 770.7 | 741.1 | 706.7 | 672.1 |
| 25° | 1107.6 | 1076.4 | 1036.9 | 1002.5 | 961.3 | 926.8 | 889.0 | 851.2 | 815.1 | 775.7 | 731.3 |
| 27.5° | 1257.1 | 1224.3 | 1181.6 | 1140.5 | 1086.2 | 1043.5 | 1007.3 | 956.4 | 910.4 | 861.1 | 810.1 |
| 30° | 1446.2 | 1410.0 | 1357.4 | 1298.3 | 1244.0 | 1196.3 | 1145.4 | 1078.0 | 1027.1 | 967.9 | 902.1 |
| 32.5° | 1692.6 | 1649.9 | 1579.2 | 1523.3 | 1456.0 | 1393.5 | 1322.9 | 1255.5 | 1183.2 | 1105.9 | 1030.3 |
| 35° | 2003.2 | 1963.8 | 1881.6 | 1799.4 | 1725.5 | 1651.5 | 1562.8 | 1485.6 | 1383.6 | 1290.0 | 1193.1 |
| 37.5° | 2325.3 | 2254.6 | 2179.1 | 2090.3 | 1998.2 | 1909.5 | 1801.0 | 1694.3 | 1577.6 | 1475.7 | 1354.1 |
| 40° | 2693.4 | 2607.9 | 2545.5 | 2450.1 | 2320.3 | 2193.8 | 2093.6 | 1960.5 | 1814.2 | 1677.8 | 1534.9 |
| 42.5° | 3197.9 | 3102.5 | 2990.8 | 2846.2 | 2752.6 | 2604.7 | 2474.9 | 2317.1 | 2124.8 | 1972.0 | 1799.4 |
| 45° | 3781.2 | 3651.4 | 3543.0 | 3403.3 | 3289.9 | 3105.9 | 2954.6 | 2744.3 | 2552.1 | 2351.5 | 2141.2 |
| 47.5° | 4446.8 | 4285.7 | 4128.0 | 3989.9 | 3809.2 | 3628.5 | 3436.1 | 3212.7 | 2966.2 | 2745.9 | 2496.2 |
| 50° | 5210.9 | 4982.5 | 4764.0 | 4586.5 | 4338.4 | 4129.6 | 3920.9 | 3669.5 | 3396.7 | 3143.7 | 2859.4 |
| 52.5° | 6060.5 | 5795.9 | 5506.7 | 5233.9 | 4946.3 | 4678.5 | 4427.1 | 4137.8 | 3833.8 | 3524.9 | 3207.7 |
| 55° | 7086.0 | 6887.1 | 6546.9 | 6200.2 | 5815.6 | 5457.4 | 5133.7 | 4775.5 | 4405.7 | 3999.8 | 3666.2 |
| 57.5° | 8691.5 | 8594.5 | 8310.2 | 7963.5 | 7462.3 | 7026.8 | 6477.9 | 6039.2 | 5503.5 | 4944.7 | 4514.1 |
| 60° | 10867.2 | 10747.3 | 10587.9 | 10306.8 | 9909.2 | 9317.6 | 8712.9 | 8030.9 | 7215.8 | 6441.8 | 5707.2 |
| 62.5° | 12027.4 | 11984.6 | 11854.8 | 11660.9 | 11289.6 | 10822.9 | 10213.2 | 9463.8 | 8543.6 | 7603.6 | 6666.9 |
| 63° | 12061.9 | 12007.7 | 11895.9 | 11698.7 | 11371.7 | 10919.8 | 10321.7 | 9593.6 | 8693.1 | 7735.1 | 6778.7 |
| 65° | 11595.2 | 11573.9 | 11460.4 | 11245.1 | 11021.7 | 10676.6 | 10213.2 | 9587.0 | 8831.2 | 7925.7 | 6974.2 |
| 67.5° | 10283.8 | 10219.7 | 10045.6 | 9979.8 | 9823.7 | 9583.8 | 9230.4 | 8800.0 | 8259.3 | 7547.7 | 6726.0 |
| 70° | 8698.0 | 8602.8 | 8384.1 | 8267.5 | 8076.8 | 7925.7 | 7710.4 | 7403.1 | 7069.5 | 6573.2 | 5960.3 |
| 72.5° | 7016.9 | 6819.7 | 6619.3 | 6315.3 | 6049.0 | 5779.6 | 5541.2 | 5324.3 | 4957.8 | 4757.4 | 4292.3 |
| 75° | 4556.9 | 4198.6 | 3855.2 | 3395.1 | 2981.0 | 2614.5 | 2257.9 | 2077.1 | 1700.8 | 1548.0 | 1329.5 |
| 77.5° | 2162.6 | 1962.1 | 1692.6 | 1483.9 | 1217.7 | 994.2 | 811.8 | 609.7 | 478.2 | 374.7 | 285.9 |
| 80° | 1745.2 | 1576.0 | 1413.2 | 1224.3 | 1023.8 | 816.8 | 626.1 | 468.3 | 332.0 | 230.0 | 162.6 |
| 82.5° | 1556.2 | 1372.2 | 1171.7 | 1041.9 | 905.5 | 741.1 | 608.1 | 496.3 | 366.4 | 267.8 | 182.4 |
| 85° | 604.7 | 509.5 | 392.8 | 320.4 | 249.8 | 205.4 | 185.7 | 128.2 | 100.2 | 78.9 | 60.8 |
| 87.5° | 52.6 | 42.7 | 34.5 | 23.0 | 24.6 | 13.1 | 14.7 | 9.9 | 8.2 | 8.2 | 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 DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 |
| 2.5° | 363.2 | 361.6 | 359.8 | 356.6 | 356.6 | 353.3 | 351.7 | 350.0 | 341.8 | 323.8 | 308.9 |
| 5° | 381.3 | 377.9 | 374.7 | 369.7 | 366.4 | 361.6 | 358.2 | 353.3 | 335.2 | 300.7 | 271.1 |
| 7.5° | 407.5 | 401.0 | 396.0 | 386.2 | 381.3 | 374.7 | 369.7 | 361.6 | 332.0 | 279.3 | 238.3 |
| 10° | 438.7 | 427.2 | 419.0 | 407.5 | 397.7 | 389.4 | 381.3 | 369.7 | 328.6 | 256.4 | 208.7 |
| 12.5° | 476.5 | 463.4 | 447.0 | 433.8 | 420.7 | 409.1 | 397.7 | 382.9 | 323.8 | 236.6 | 185.7 |
| 15° | 514.3 | 494.6 | 483.1 | 465.0 | 447.0 | 430.6 | 414.1 | 401.0 | 325.4 | 215.3 | 166.0 |
| 17.5° | 557.0 | 537.3 | 512.7 | 493.0 | 473.3 | 451.9 | 432.2 | 405.9 | 317.1 | 198.8 | 151.2 |
| 20° | 598.2 | 570.3 | 547.2 | 522.6 | 494.6 | 468.3 | 443.7 | 420.7 | 310.5 | 182.4 | 138.0 |
| 22.5° | 642.5 | 609.7 | 580.1 | 548.9 | 514.3 | 484.8 | 455.2 | 425.6 | 299.1 | 167.6 | 126.6 |
| 25° | 696.8 | 659.0 | 616.2 | 578.5 | 542.3 | 506.1 | 468.3 | 432.2 | 287.6 | 154.5 | 118.3 |
| 27.5° | 762.5 | 713.2 | 670.5 | 622.8 | 571.9 | 525.8 | 484.8 | 445.3 | 276.1 | 144.6 | 110.1 |
| 30° | 846.3 | 788.8 | 728.0 | 667.2 | 612.9 | 560.4 | 502.9 | 453.6 | 264.6 | 134.8 | 101.9 |
| 32.5° | 958.0 | 885.8 | 811.8 | 741.1 | 668.9 | 601.5 | 540.7 | 476.5 | 258.0 | 126.6 | 93.6 |
| 35° | 1105.9 | 1012.3 | 921.9 | 833.1 | 746.1 | 663.9 | 585.0 | 512.7 | 258.0 | 116.7 | 83.8 |
| 37.5° | 1245.6 | 1137.1 | 1022.2 | 912.0 | 808.5 | 713.2 | 619.6 | 532.4 | 244.9 | 108.5 | 75.6 |
| 40° | 1396.9 | 1267.0 | 1132.3 | 1002.5 | 877.5 | 759.2 | 652.4 | 552.2 | 233.4 | 98.6 | 67.4 |
| 42.5° | 1628.5 | 1464.2 | 1288.4 | 1137.1 | 987.6 | 841.3 | 708.3 | 590.0 | 218.5 | 88.7 | 59.2 |
| 45° | 1932.6 | 1723.9 | 1516.8 | 1332.7 | 1142.1 | 963.0 | 805.3 | 659.0 | 215.3 | 80.5 | 50.9 |
| 47.5° | 2257.9 | 2011.4 | 1768.2 | 1533.2 | 1309.7 | 1101.1 | 912.0 | 736.2 | 215.3 | 72.3 | 44.3 |
| 50° | 2581.7 | 2272.7 | 2013.1 | 1740.2 | 1488.9 | 1242.4 | 1017.2 | 816.8 | 216.9 | 65.8 | 36.2 |
| 52.5° | 2874.1 | 2543.9 | 2253.0 | 1937.4 | 1659.7 | 1373.8 | 1128.9 | 895.6 | 213.7 | 57.5 | 29.6 |
| 55° | 3280.0 | 2892.2 | 2555.4 | 2207.0 | 1881.6 | 1559.5 | 1281.8 | 1013.9 | 215.3 | 50.9 | 24.6 |
| 57.5° | 4027.7 | 3572.6 | 3166.7 | 2709.9 | 2335.2 | 1919.3 | 1582.5 | 1257.1 | 235.0 | 42.7 | 18.1 |
| 60° | 5100.9 | 4509.3 | 3939.0 | 3382.0 | 2905.3 | 2410.7 | 1973.6 | 1590.7 | 276.1 | 34.5 | 13.1 |
| 62.5° | 5822.3 | 5048.2 | 4368.0 | 3753.3 | 3199.5 | 2681.9 | 2205.3 | 1769.8 | 304.0 | 28.0 | 8.2 |
| 63° | 5896.2 | 5095.9 | 4412.3 | 3778.0 | 3212.7 | 2695.0 | 2215.1 | 1783.0 | 305.7 | 26.3 | 8.2 |
| 65° | 6035.9 | 5178.1 | 4437.0 | 3782.9 | 3199.5 | 2676.9 | 2208.6 | 1781.3 | 308.9 | 21.3 | 6.6 |
| 67.5° | 5876.4 | 5051.6 | 4294.0 | 3641.6 | 3084.5 | 2570.1 | 2126.4 | 1715.6 | 307.3 | 14.7 | 4.9 |
| 70° | 5255.3 | 4571.7 | 3906.2 | 3298.1 | 2792.0 | 2327.0 | 1935.8 | 1564.5 | 282.7 | 9.9 | 3.3 |
| 72.5° | 3858.5 | 3393.5 | 2877.5 | 2438.7 | 2103.4 | 1746.8 | 1490.5 | 1175.0 | 218.5 | 6.6 | 1.6 |
| 75° | 1143.8 | 1041.9 | 875.9 | 772.3 | 682.0 | 563.6 | 501.2 | 391.1 | 111.7 | 3.3 | 0.0 |
| 77.5° | 228.4 | 207.1 | 185.7 | 169.2 | 159.4 | 136.4 | 129.8 | 106.8 | 46.0 | 1.6 | 0.0 |
| 80° | 119.9 | 98.6 | 83.8 | 73.9 | 64.0 | 52.6 | 44.3 | 36.2 | 8.2 | 0.0 | 0.0 |
| 82.5° | 115.1 | 77.3 | 55.9 | 46.0 | 39.4 | 31.2 | 24.6 | 18.1 | 4.9 | 0.0 | 0.0 |
| 85° | 42.7 | 32.8 | 24.6 | 19.7 | 16.5 | 14.7 | 11.5 | 9.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.6 | 4.9 | 4.9 | 3.3 | 3.3 | 1.6 | 1.6 | 1.6 | 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):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 | 346.7 |
| 2.5° | 294.2 | 281.0 | 274.5 | 266.2 | 266.2 | 264.6 | 267.8 |
| 5° | 244.9 | 226.8 | 213.7 | 203.8 | 205.4 | 200.5 | 202.1 |
| 7.5° | 207.1 | 189.0 | 177.5 | 170.9 | 169.2 | 167.6 | 167.6 |
| 10° | 179.1 | 162.6 | 152.8 | 147.9 | 146.3 | 146.3 | 146.3 |
| 12.5° | 159.4 | 142.9 | 134.8 | 131.4 | 131.4 | 129.8 | 129.8 |
| 15° | 142.9 | 129.8 | 121.6 | 118.3 | 118.3 | 116.7 | 118.3 |
| 17.5° | 129.8 | 116.7 | 110.1 | 106.8 | 106.8 | 105.2 | 105.2 |
| 20° | 118.3 | 106.8 | 100.2 | 95.3 | 95.3 | 93.6 | 95.3 |
| 22.5° | 108.5 | 97.0 | 88.7 | 85.5 | 83.8 | 82.1 | 83.8 |
| 25° | 98.6 | 87.1 | 78.9 | 73.9 | 72.3 | 72.3 | 70.6 |
| 27.5° | 90.4 | 78.9 | 69.0 | 64.0 | 62.4 | 62.4 | 60.8 |
| 30° | 82.1 | 69.0 | 59.2 | 54.2 | 52.6 | 52.6 | 52.6 |
| 32.5° | 73.9 | 59.2 | 50.9 | 46.0 | 44.3 | 44.3 | 44.3 |
| 35° | 65.8 | 50.9 | 42.7 | 37.8 | 36.2 | 36.2 | 36.2 |
| 37.5° | 55.9 | 42.7 | 32.8 | 29.6 | 28.0 | 26.3 | 26.3 |
| 40° | 47.7 | 32.8 | 24.6 | 21.3 | 18.1 | 18.1 | 18.1 |
| 42.5° | 39.4 | 26.3 | 18.1 | 13.1 | 11.5 | 9.9 | 11.5 |
| 45° | 32.8 | 19.7 | 11.5 | 6.6 | 4.9 | 4.9 | 4.9 |
| 47.5° | 26.3 | 13.1 | 4.9 | 1.6 | 1.6 | 1.6 | 1.6 |
| 50° | 19.7 | 8.2 | 1.6 | 0.0 | 0.0 | 1.6 | 1.6 |
| 52.5° | 14.7 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 8.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 63° | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1.6 | 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)