

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: CORELITE

Report Number: P520744

Luminaire Tested: **8WSLA-200-L950-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-200-L950-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

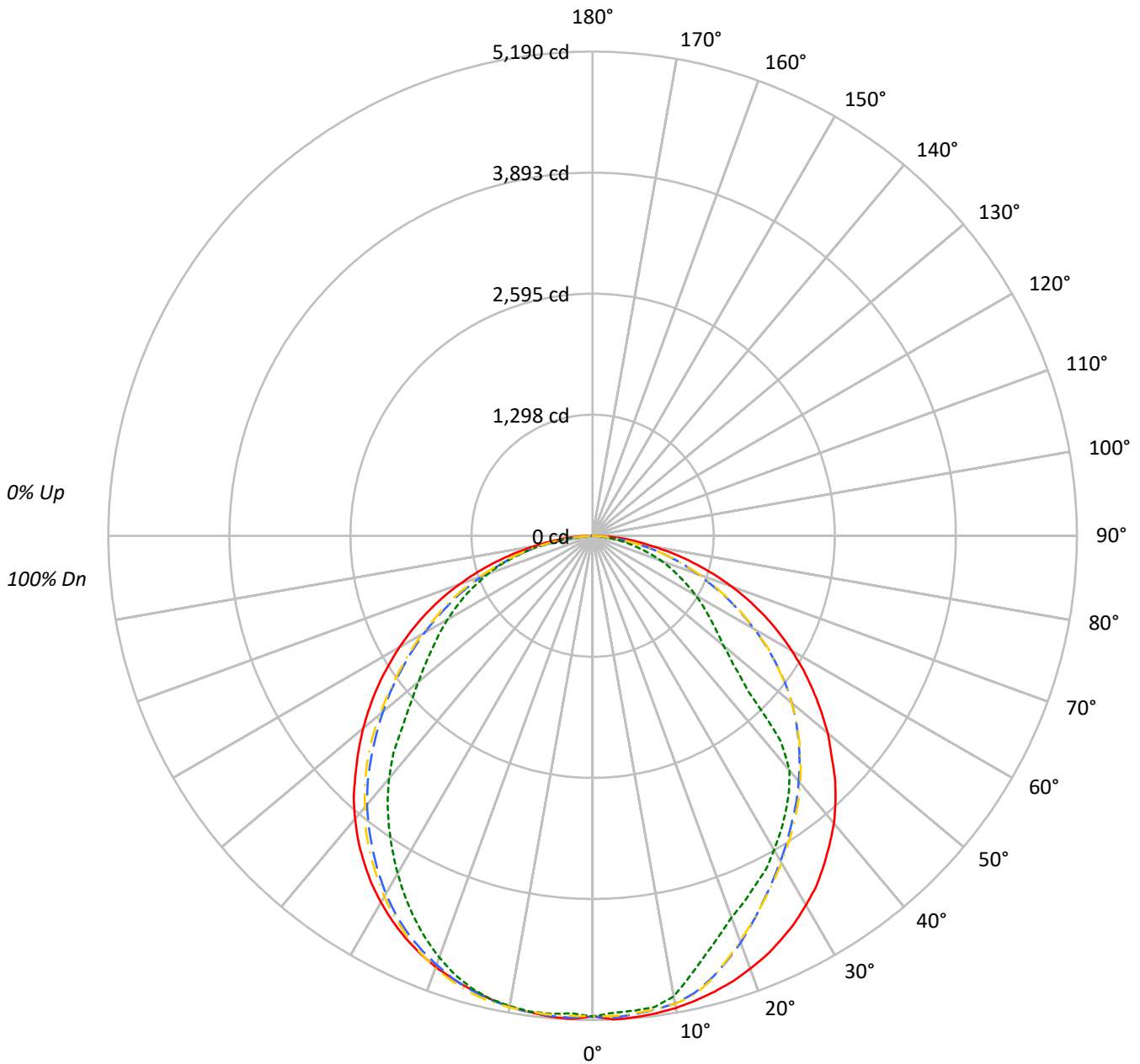
Lumens per Lamp: N/A
Luminaire Lumens: 13819.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 152.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P520744

CATALOG NUMBER: 8WSLA-200-L950-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520744

CATALOG NUMBER: 8WSLA-200-L950-UNV-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 | | | |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 73 | 70 | | | |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 60 | | | |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 | | | |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 39 | | | |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 | | | |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 | | | |
| 10 | 54 | 40 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 13862 | 13862 | 13862 | 13862 |
| 5° | 13997 | 13803 | 13975 | 13893 |
| 10° | 14046 | 13698 | 14008 | 13985 |
| 15° | 14089 | 12973 | 14028 | 13981 |
| 20° | 14142 | 12464 | 14087 | 13770 |
| 25° | 14187 | 12259 | 14113 | 13424 |
| 30° | 14203 | 12082 | 14100 | 12984 |
| 35° | 14181 | 11847 | 14035 | 12501 |
| 40° | 14135 | 11533 | 13911 | 11921 |
| 45° | 13977 | 8960 | 13662 | 10938 |
| 50° | 13767 | 7670 | 13432 | 10204 |
| 55° | 13523 | 7183 | 13173 | 9815 |
| 60° | 13267 | 6857 | 12866 | 9653 |
| 65° | 12951 | 6493 | 12511 | 9537 |
| 70° | 12438 | 6175 | 11915 | 9393 |
| 75° | 11579 | 5430 | 11033 | 8936 |
| 80° | 10279 | 4539 | 9636 | 7579 |
| 85° | 9726 | 3242 | 8534 | 4350 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 489.5 | 3.5 |
| 10°-20° | 1396.0 | 10.1 |
| 20°-30° | 2086.1 | 15.1 |
| 30°-40° | 2483.1 | 18.0 |
| 40°-50° | 2482.1 | 18.0 |
| 50°-60° | 2135.8 | 15.5 |
| 60°-70° | 1607.5 | 11.6 |
| 70°-80° | 916.0 | 6.6 |
| 80°-90° | 223.0 | 1.6 |
| 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°-30° | 3971.5 | 28.7 |
| 0°-40° | 6454.7 | 46.7 |
| 0°-60° | 11072.5 | 80.1 |
| 0°-90° | 13819.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 13819.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 5151 | 5151 | 5151 | 5151 | 5151 | |
| 5° | 5182 | 5110 | 5173 | 5143 | 5182 | 493 |
| 15° | 5057 | 4657 | 5035 | 5019 | 5057 | 1429 |
| 25° | 4778 | 4129 | 4753 | 4521 | 4778 | 2203 |
| 35° | 4317 | 3606 | 4272 | 3805 | 4317 | 2701 |
| 45° | 3673 | 2354 | 3590 | 2874 | 3673 | 2828 |
| 55° | 2882 | 1531 | 2808 | 2092 | 2882 | 2577 |
| 65° | 2034 | 1020 | 1965 | 1498 | 2034 | 2009 |
| 75° | 1114 | 522 | 1061 | 860 | 1114 | 1179 |
| 85° | 315 | 105 | 276 | 141 | 315 | 343 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5151.3 | 5151.3 | 5151.3 | 5151.3 | 5151.3 | 5151.3 | 5151.3 | 5151.3 | 5151.3 | 5151.3 | 5151.3 |
| 2.5° | 5190.0 | 5143.0 | 5170.6 | 5162.3 | 5118.1 | 5134.7 | 5151.3 | 5134.7 | 5184.4 | 5140.2 | 5170.6 |
| 5° | 5181.7 | 5131.9 | 5148.5 | 5131.9 | 5109.8 | 5115.3 | 5140.2 | 5123.6 | 5173.4 | 5126.4 | 5165.1 |
| 7.5° | 5165.1 | 5104.3 | 5120.9 | 5112.6 | 5093.2 | 5096.0 | 5120.9 | 5107.0 | 5151.3 | 5107.0 | 5151.3 |
| 10° | 5140.2 | 5076.7 | 5090.5 | 5054.5 | 5013.1 | 5043.5 | 5093.2 | 5079.4 | 5126.4 | 5076.7 | 5126.4 |
| 12.5° | 5101.5 | 5038.0 | 5024.1 | 4905.3 | 4830.7 | 4888.7 | 5040.7 | 5040.7 | 5084.9 | 5038.0 | 5090.5 |
| 15° | 5057.3 | 4988.2 | 4913.6 | 4734.0 | 4656.6 | 4714.6 | 4924.7 | 4996.5 | 5035.2 | 4988.2 | 5040.7 |
| 17.5° | 5004.8 | 4924.7 | 4781.0 | 4570.9 | 4499.1 | 4557.1 | 4772.7 | 4930.2 | 4979.9 | 4930.2 | 4977.2 |
| 20° | 4938.5 | 4844.5 | 4640.0 | 4399.6 | 4352.6 | 4405.1 | 4620.7 | 4850.0 | 4919.1 | 4858.3 | 4891.5 |
| 22.5° | 4866.6 | 4753.3 | 4482.5 | 4266.9 | 4244.8 | 4278.0 | 4474.2 | 4750.6 | 4841.7 | 4778.2 | 4800.3 |
| 25° | 4778.2 | 4645.5 | 4325.0 | 4145.3 | 4128.8 | 4148.1 | 4330.5 | 4634.5 | 4753.3 | 4687.0 | 4695.3 |
| 27.5° | 4684.2 | 4540.5 | 4175.7 | 4043.1 | 4026.5 | 4034.8 | 4186.8 | 4504.6 | 4651.1 | 4584.7 | 4570.9 |
| 30° | 4570.9 | 4416.2 | 4026.5 | 3904.9 | 3888.3 | 3918.7 | 4048.6 | 4371.9 | 4537.8 | 4471.4 | 4430.0 |
| 32.5° | 4457.6 | 4280.7 | 3880.0 | 3786.1 | 3752.9 | 3780.5 | 3904.9 | 4233.8 | 4413.4 | 4344.3 | 4275.2 |
| 35° | 4316.7 | 4137.0 | 3728.0 | 3634.1 | 3606.4 | 3636.8 | 3761.2 | 4090.1 | 4272.5 | 4203.4 | 4109.4 |
| 37.5° | 4170.2 | 3985.0 | 3589.9 | 3504.2 | 3454.4 | 3490.4 | 3614.7 | 3940.8 | 4126.0 | 4054.1 | 3938.1 |
| 40° | 4023.7 | 3824.8 | 3435.1 | 3346.7 | 3283.1 | 3335.6 | 3462.7 | 3783.3 | 3960.2 | 3893.8 | 3761.2 |
| 42.5° | 3852.4 | 3664.5 | 3283.1 | 3158.7 | 2979.1 | 3147.7 | 3299.7 | 3625.8 | 3788.8 | 3725.3 | 3565.0 |
| 45° | 3672.8 | 3493.1 | 3122.8 | 2821.6 | 2354.5 | 2849.2 | 3133.9 | 3460.0 | 3589.9 | 3529.1 | 3355.0 |
| 47.5° | 3468.3 | 3316.3 | 2959.8 | 2501.0 | 2047.8 | 2528.7 | 2965.3 | 3302.4 | 3401.9 | 3335.6 | 3142.2 |
| 50° | 3288.6 | 3139.4 | 2788.4 | 2230.2 | 1832.2 | 2260.6 | 2785.7 | 3125.6 | 3208.5 | 3147.7 | 2932.1 |
| 52.5° | 3084.1 | 2954.2 | 2603.3 | 1989.8 | 1672.0 | 2020.2 | 2597.7 | 2943.2 | 3009.5 | 2937.7 | 2722.1 |
| 55° | 2882.4 | 2766.3 | 2407.1 | 1777.0 | 1531.0 | 1804.6 | 2401.5 | 2755.3 | 2807.8 | 2724.9 | 2501.0 |
| 57.5° | 2677.9 | 2572.9 | 2205.3 | 1586.3 | 1401.1 | 1616.7 | 2219.1 | 2561.8 | 2597.7 | 2492.7 | 2288.2 |
| 60° | 2465.1 | 2376.7 | 2000.8 | 1417.7 | 1274.0 | 1442.6 | 1995.3 | 2368.4 | 2390.5 | 2277.2 | 2081.0 |
| 62.5° | 2252.3 | 2172.2 | 1796.3 | 1262.9 | 1144.1 | 1279.5 | 1810.1 | 2163.9 | 2177.7 | 2069.9 | 1868.2 |
| 65° | 2034.0 | 1959.4 | 1597.3 | 1099.9 | 1019.8 | 1127.5 | 1611.2 | 1951.1 | 1964.9 | 1843.3 | 1660.9 |
| 67.5° | 1807.4 | 1746.6 | 1384.5 | 975.5 | 900.9 | 983.8 | 1412.2 | 1735.5 | 1743.8 | 1625.0 | 1459.2 |
| 70° | 1580.8 | 1528.2 | 1196.6 | 840.1 | 784.8 | 842.9 | 1216.0 | 1497.8 | 1514.4 | 1387.3 | 1254.7 |
| 72.5° | 1348.6 | 1307.2 | 1014.2 | 699.2 | 649.4 | 699.2 | 1025.3 | 1279.5 | 1290.6 | 1185.6 | 1055.7 |
| 75° | 1113.7 | 1083.3 | 829.1 | 561.0 | 522.3 | 558.2 | 834.6 | 1061.2 | 1061.2 | 961.7 | 859.5 |
| 77.5° | 887.1 | 865.0 | 635.6 | 431.1 | 403.5 | 425.6 | 638.4 | 840.1 | 834.6 | 757.2 | 677.1 |
| 80° | 663.3 | 646.7 | 456.0 | 312.3 | 292.9 | 304.0 | 456.0 | 621.8 | 621.8 | 566.5 | 469.8 |
| 82.5° | 475.3 | 456.0 | 301.2 | 204.5 | 193.4 | 199.0 | 295.7 | 433.9 | 442.2 | 400.7 | 317.8 |
| 85° | 315.0 | 270.8 | 163.0 | 113.3 | 105.0 | 107.8 | 154.8 | 251.5 | 276.4 | 232.1 | 165.8 |
| 87.5° | 138.2 | 91.2 | 41.5 | 16.6 | 8.3 | 11.1 | 33.2 | 80.1 | 105.0 | 69.1 | 22.1 |
| 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):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 5151.3 | 5151.3 | 5151.3 | 5151.3 | 5151.3 | 5151.3 |
| 2.5° | 5167.8 | 5123.6 | 5140.2 | 5151.3 | 5140.2 | 5190.0 |
| 5° | 5162.3 | 5143.0 | 5140.2 | 5154.0 | 5131.9 | 5181.7 |
| 7.5° | 5154.0 | 5143.0 | 5140.2 | 5145.7 | 5118.1 | 5165.1 |
| 10° | 5134.7 | 5118.1 | 5123.6 | 5131.9 | 5096.0 | 5140.2 |
| 12.5° | 5098.8 | 5082.2 | 5084.9 | 5112.6 | 5062.8 | 5101.5 |
| 15° | 5038.0 | 5018.6 | 5038.0 | 5068.4 | 5024.1 | 5057.3 |
| 17.5° | 4957.8 | 4927.4 | 4960.6 | 5007.6 | 4974.4 | 5004.8 |
| 20° | 4855.6 | 4808.6 | 4844.5 | 4930.2 | 4899.8 | 4938.5 |
| 22.5° | 4731.2 | 4673.2 | 4709.1 | 4833.5 | 4825.2 | 4866.6 |
| 25° | 4590.3 | 4521.2 | 4570.9 | 4722.9 | 4739.5 | 4778.2 |
| 27.5° | 4432.7 | 4355.4 | 4421.7 | 4601.3 | 4640.0 | 4684.2 |
| 30° | 4261.4 | 4178.5 | 4255.9 | 4465.9 | 4523.9 | 4570.9 |
| 32.5° | 4084.5 | 3993.3 | 4081.8 | 4313.9 | 4396.8 | 4457.6 |
| 35° | 3899.4 | 3805.4 | 3904.9 | 4156.4 | 4255.9 | 4316.7 |
| 37.5° | 3700.4 | 3609.2 | 3717.0 | 3990.6 | 4109.4 | 4170.2 |
| 40° | 3495.9 | 3393.6 | 3515.2 | 3794.4 | 3951.9 | 4023.7 |
| 42.5° | 3285.9 | 3158.7 | 3308.0 | 3609.2 | 3780.5 | 3852.4 |
| 45° | 3051.0 | 2874.1 | 3075.8 | 3413.0 | 3592.6 | 3672.8 |
| 47.5° | 2816.1 | 2639.2 | 2843.7 | 3203.0 | 3396.4 | 3468.3 |
| 50° | 2589.5 | 2437.5 | 2600.5 | 2973.6 | 3197.4 | 3288.6 |
| 52.5° | 2382.2 | 2257.8 | 2396.0 | 2749.7 | 2992.9 | 3084.1 |
| 55° | 2188.7 | 2092.0 | 2205.3 | 2528.7 | 2777.4 | 2882.4 |
| 57.5° | 2006.3 | 1945.5 | 2022.9 | 2318.6 | 2578.4 | 2677.9 |
| 60° | 1835.0 | 1793.5 | 1848.8 | 2111.4 | 2343.5 | 2465.1 |
| 62.5° | 1666.4 | 1644.3 | 1685.8 | 1893.0 | 2125.2 | 2252.3 |
| 65° | 1503.4 | 1497.8 | 1520.0 | 1702.3 | 1895.8 | 2034.0 |
| 67.5° | 1340.3 | 1337.6 | 1351.4 | 1500.6 | 1672.0 | 1807.4 |
| 70° | 1177.3 | 1193.9 | 1185.6 | 1282.3 | 1448.1 | 1580.8 |
| 72.5° | 1011.5 | 1036.3 | 1022.5 | 1083.3 | 1243.6 | 1348.6 |
| 75° | 826.3 | 859.5 | 831.8 | 900.9 | 1000.4 | 1113.7 |
| 77.5° | 635.6 | 671.5 | 638.4 | 699.2 | 807.0 | 887.1 |
| 80° | 456.0 | 489.1 | 461.5 | 508.5 | 602.5 | 663.3 |
| 82.5° | 287.4 | 312.3 | 290.2 | 337.2 | 431.1 | 475.3 |
| 85° | 127.1 | 140.9 | 146.5 | 182.4 | 265.3 | 315.0 |
| 87.5° | 5.5 | 2.8 | 5.5 | 35.9 | 94.0 | 138.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)