

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: P520681

Luminaire Tested: **8WSLA-150-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520681
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-150-L840-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

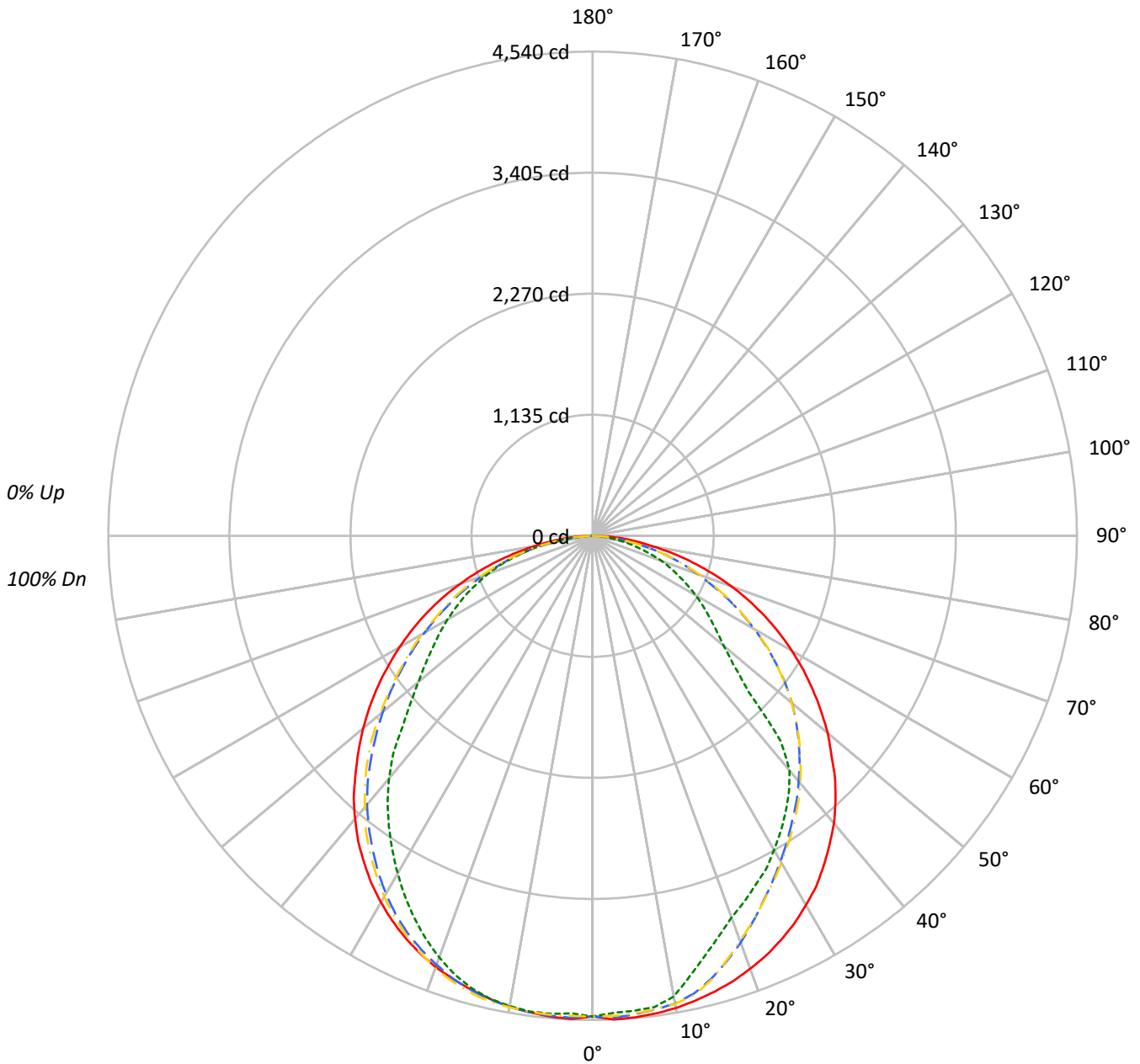
Lumens per Lamp: N/A
Luminaire Lumens: 12089.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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: P520681

CATALOG NUMBER: 8WSLA-150-L840-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520681

CATALOG NUMBER: 8WSLA-150-L840-UNV-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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° | 12127 | 12127 | 12127 | 12127 |
| 5° | 12245 | 12075 | 12225 | 12153 |
| 10° | 12287 | 11983 | 12254 | 12234 |
| 15° | 12325 | 11349 | 12271 | 12231 |
| 20° | 12372 | 10904 | 12323 | 12046 |
| 25° | 12411 | 10724 | 12346 | 11744 |
| 30° | 12425 | 10569 | 12335 | 11358 |
| 35° | 12405 | 10364 | 12278 | 10936 |
| 40° | 12365 | 10089 | 12170 | 10429 |
| 45° | 12227 | 7839 | 11951 | 9568 |
| 50° | 12044 | 6710 | 11750 | 8927 |
| 55° | 11830 | 6283 | 11524 | 8586 |
| 60° | 11606 | 5998 | 11255 | 8444 |
| 65° | 11330 | 5680 | 10945 | 8343 |
| 70° | 10881 | 5402 | 10423 | 8217 |
| 75° | 10130 | 4750 | 9653 | 7818 |
| 80° | 8991 | 3972 | 8430 | 6631 |
| 85° | 8509 | 2837 | 7466 | 3807 |



TEST NUMBER: P520681

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 428.2 | 3.5 |
| 10°-20° | 1221.3 | 10.1 |
| 20°-30° | 1824.9 | 15.1 |
| 30°-40° | 2172.3 | 18.0 |
| 40°-50° | 2171.3 | 18.0 |
| 50°-60° | 1868.4 | 15.5 |
| 60°-70° | 1406.2 | 11.6 |
| 70°-80° | 801.3 | 6.6 |
| 80°-90° | 195.0 | 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° | 3474.4 | 28.7 |
| 0°-40° | 5646.6 | 46.7 |
| 0°-60° | 9686.3 | 80.1 |
| 0°-90° | 12089.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12089.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4506 | 4506 | 4506 | 4506 | 4506 | |
| 5° | 4533 | 4470 | 4526 | 4499 | 4533 | 431 |
| 15° | 4424 | 4074 | 4405 | 4390 | 4424 | 1250 |
| 25° | 4180 | 3612 | 4158 | 3955 | 4180 | 1928 |
| 35° | 3776 | 3155 | 3738 | 3329 | 3776 | 2363 |
| 45° | 3213 | 2060 | 3140 | 2514 | 3213 | 2474 |
| 55° | 2522 | 1339 | 2456 | 1830 | 2522 | 2254 |
| 65° | 1779 | 892 | 1719 | 1310 | 1779 | 1757 |
| 75° | 974 | 457 | 928 | 752 | 974 | 1031 |
| 85° | 276 | 92 | 242 | 123 | 276 | 300 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P520681

CATALOG NUMBER: 8WSLA-150-L840-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4506.4 | 4506.4 | 4506.4 | 4506.4 | 4506.4 | 4506.4 | 4506.4 | 4506.4 | 4506.4 | 4506.4 | 4506.4 |
| 2.5° | 4540.2 | 4499.1 | 4523.3 | 4516.1 | 4477.4 | 4491.9 | 4506.4 | 4491.9 | 4535.4 | 4496.7 | 4523.3 |
| 5° | 4533.0 | 4489.5 | 4504.0 | 4489.5 | 4470.1 | 4475.0 | 4496.7 | 4482.2 | 4525.7 | 4484.6 | 4518.5 |
| 7.5° | 4518.5 | 4465.3 | 4479.8 | 4472.5 | 4455.6 | 4458.0 | 4479.8 | 4467.7 | 4506.4 | 4467.7 | 4506.4 |
| 10° | 4496.7 | 4441.1 | 4453.2 | 4421.8 | 4385.5 | 4412.1 | 4455.6 | 4443.5 | 4484.6 | 4441.1 | 4484.6 |
| 12.5° | 4462.9 | 4407.3 | 4395.2 | 4291.2 | 4225.9 | 4276.7 | 4409.7 | 4409.7 | 4448.4 | 4407.3 | 4453.2 |
| 15° | 4424.2 | 4363.7 | 4298.5 | 4141.3 | 4073.6 | 4124.4 | 4308.1 | 4371.0 | 4404.8 | 4363.7 | 4409.7 |
| 17.5° | 4378.2 | 4308.1 | 4182.4 | 3998.7 | 3935.8 | 3986.6 | 4175.2 | 4313.0 | 4356.5 | 4313.0 | 4354.1 |
| 20° | 4320.2 | 4238.0 | 4059.1 | 3848.8 | 3807.7 | 3853.6 | 4042.2 | 4242.9 | 4303.3 | 4250.1 | 4279.1 |
| 22.5° | 4257.4 | 4158.2 | 3921.3 | 3732.8 | 3713.4 | 3742.4 | 3914.1 | 4155.8 | 4235.6 | 4180.0 | 4199.3 |
| 25° | 4180.0 | 4064.0 | 3783.5 | 3626.4 | 3611.9 | 3628.8 | 3788.4 | 4054.3 | 4158.2 | 4100.2 | 4107.5 |
| 27.5° | 4097.8 | 3972.1 | 3653.0 | 3536.9 | 3522.4 | 3529.7 | 3662.6 | 3940.7 | 4068.8 | 4010.8 | 3998.7 |
| 30° | 3998.7 | 3863.3 | 3522.4 | 3416.0 | 3401.5 | 3428.1 | 3541.8 | 3824.6 | 3969.7 | 3911.7 | 3875.4 |
| 32.5° | 3899.6 | 3744.8 | 3394.3 | 3312.1 | 3283.1 | 3307.3 | 3416.0 | 3703.7 | 3860.9 | 3800.4 | 3740.0 |
| 35° | 3776.3 | 3619.1 | 3261.3 | 3179.1 | 3154.9 | 3181.5 | 3290.3 | 3578.0 | 3737.6 | 3677.1 | 3594.9 |
| 37.5° | 3648.1 | 3486.2 | 3140.4 | 3065.5 | 3022.0 | 3053.4 | 3162.2 | 3447.5 | 3609.5 | 3546.6 | 3445.1 |
| 40° | 3520.0 | 3345.9 | 3005.1 | 2927.7 | 2872.1 | 2918.0 | 3029.2 | 3309.7 | 3464.4 | 3406.4 | 3290.3 |
| 42.5° | 3370.1 | 3205.7 | 2872.1 | 2763.3 | 2606.2 | 2753.6 | 2886.6 | 3171.9 | 3314.5 | 3258.9 | 3118.7 |
| 45° | 3213.0 | 3055.8 | 2731.9 | 2468.4 | 2059.8 | 2492.5 | 2741.5 | 3026.8 | 3140.4 | 3087.3 | 2934.9 |
| 47.5° | 3034.1 | 2901.1 | 2589.2 | 2187.9 | 1791.4 | 2212.1 | 2594.1 | 2889.0 | 2976.0 | 2918.0 | 2748.8 |
| 50° | 2876.9 | 2746.4 | 2439.3 | 1951.0 | 1602.9 | 1977.6 | 2436.9 | 2734.3 | 2806.8 | 2753.6 | 2565.1 |
| 52.5° | 2698.0 | 2584.4 | 2277.4 | 1740.7 | 1462.6 | 1767.3 | 2272.5 | 2574.7 | 2632.8 | 2569.9 | 2381.3 |
| 55° | 2521.5 | 2420.0 | 2105.7 | 1554.5 | 1339.3 | 1578.7 | 2100.9 | 2410.3 | 2456.3 | 2383.7 | 2187.9 |
| 57.5° | 2342.6 | 2250.8 | 1929.2 | 1387.7 | 1225.7 | 1414.3 | 1941.3 | 2241.1 | 2272.5 | 2180.7 | 2001.8 |
| 60° | 2156.5 | 2079.1 | 1750.3 | 1240.2 | 1114.5 | 1262.0 | 1745.5 | 2071.9 | 2091.2 | 1992.1 | 1820.4 |
| 62.5° | 1970.3 | 1900.2 | 1571.4 | 1104.8 | 1000.9 | 1119.3 | 1583.5 | 1893.0 | 1905.1 | 1810.8 | 1634.3 |
| 65° | 1779.3 | 1714.1 | 1397.4 | 962.2 | 892.1 | 986.4 | 1409.5 | 1706.8 | 1718.9 | 1612.5 | 1453.0 |
| 67.5° | 1581.1 | 1527.9 | 1211.2 | 853.4 | 788.1 | 860.7 | 1235.4 | 1518.2 | 1525.5 | 1421.5 | 1276.5 |
| 70° | 1382.9 | 1336.9 | 1046.8 | 734.9 | 686.6 | 737.4 | 1063.7 | 1310.3 | 1324.8 | 1213.6 | 1097.6 |
| 72.5° | 1179.8 | 1143.5 | 887.3 | 611.6 | 568.1 | 611.6 | 896.9 | 1119.3 | 1129.0 | 1037.1 | 923.5 |
| 75° | 974.3 | 947.7 | 725.3 | 490.8 | 456.9 | 488.4 | 730.1 | 928.4 | 928.4 | 841.3 | 751.9 |
| 77.5° | 776.0 | 756.7 | 556.0 | 377.1 | 353.0 | 372.3 | 558.5 | 734.9 | 730.1 | 662.4 | 592.3 |
| 80° | 580.2 | 565.7 | 398.9 | 273.2 | 256.3 | 265.9 | 398.9 | 544.0 | 544.0 | 495.6 | 411.0 |
| 82.5° | 415.8 | 398.9 | 263.5 | 178.9 | 169.2 | 174.1 | 258.7 | 379.6 | 386.8 | 350.5 | 278.0 |
| 85° | 275.6 | 236.9 | 142.6 | 99.1 | 91.9 | 94.3 | 135.4 | 220.0 | 241.8 | 203.1 | 145.1 |
| 87.5° | 120.9 | 79.8 | 36.3 | 14.5 | 7.3 | 9.7 | 29.0 | 70.1 | 91.9 | 60.4 | 19.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P520681

CATALOG NUMBER: 8WSLA-150-L840-UNV-U

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 4506.4 | 4506.4 | 4506.4 | 4506.4 | 4506.4 | 4506.4 |
| 2.5° | 4520.9 | 4482.2 | 4496.7 | 4506.4 | 4496.7 | 4540.2 |
| 5° | 4516.1 | 4499.1 | 4496.7 | 4508.8 | 4489.5 | 4533.0 |
| 7.5° | 4508.8 | 4499.1 | 4496.7 | 4501.5 | 4477.4 | 4518.5 |
| 10° | 4491.9 | 4477.4 | 4482.2 | 4489.5 | 4458.0 | 4496.7 |
| 12.5° | 4460.4 | 4445.9 | 4448.4 | 4472.5 | 4429.0 | 4462.9 |
| 15° | 4407.3 | 4390.3 | 4407.3 | 4433.9 | 4395.2 | 4424.2 |
| 17.5° | 4337.1 | 4310.6 | 4339.6 | 4380.7 | 4351.7 | 4378.2 |
| 20° | 4247.7 | 4206.6 | 4238.0 | 4313.0 | 4286.4 | 4320.2 |
| 22.5° | 4138.9 | 4088.1 | 4119.6 | 4228.4 | 4221.1 | 4257.4 |
| 25° | 4015.6 | 3955.2 | 3998.7 | 4131.7 | 4146.2 | 4180.0 |
| 27.5° | 3877.8 | 3810.1 | 3868.1 | 4025.3 | 4059.1 | 4097.8 |
| 30° | 3727.9 | 3655.4 | 3723.1 | 3906.8 | 3957.6 | 3998.7 |
| 32.5° | 3573.2 | 3493.4 | 3570.8 | 3773.9 | 3846.4 | 3899.6 |
| 35° | 3411.2 | 3329.0 | 3416.0 | 3636.0 | 3723.1 | 3776.3 |
| 37.5° | 3237.1 | 3157.4 | 3251.7 | 3491.0 | 3594.9 | 3648.1 |
| 40° | 3058.2 | 2968.8 | 3075.2 | 3319.3 | 3457.1 | 3520.0 |
| 42.5° | 2874.5 | 2763.3 | 2893.9 | 3157.4 | 3307.3 | 3370.1 |
| 45° | 2669.0 | 2514.3 | 2690.8 | 2985.7 | 3142.9 | 3213.0 |
| 47.5° | 2463.5 | 2308.8 | 2487.7 | 2802.0 | 2971.2 | 3034.1 |
| 50° | 2265.3 | 2132.3 | 2274.9 | 2601.3 | 2797.1 | 2876.9 |
| 52.5° | 2084.0 | 1975.2 | 2096.0 | 2405.5 | 2618.2 | 2698.0 |
| 55° | 1914.7 | 1830.1 | 1929.2 | 2212.1 | 2429.7 | 2521.5 |
| 57.5° | 1755.2 | 1702.0 | 1769.7 | 2028.4 | 2255.6 | 2342.6 |
| 60° | 1605.3 | 1569.0 | 1617.4 | 1847.0 | 2050.1 | 2156.5 |
| 62.5° | 1457.8 | 1438.5 | 1474.7 | 1656.0 | 1859.1 | 1970.3 |
| 65° | 1315.2 | 1310.3 | 1329.7 | 1489.2 | 1658.5 | 1779.3 |
| 67.5° | 1172.5 | 1170.1 | 1182.2 | 1312.7 | 1462.6 | 1581.1 |
| 70° | 1029.9 | 1044.4 | 1037.1 | 1121.8 | 1266.8 | 1382.9 |
| 72.5° | 884.8 | 906.6 | 894.5 | 947.7 | 1087.9 | 1179.8 |
| 75° | 722.9 | 751.9 | 727.7 | 788.1 | 875.2 | 974.3 |
| 77.5° | 556.0 | 587.5 | 558.5 | 611.6 | 705.9 | 776.0 |
| 80° | 398.9 | 427.9 | 403.7 | 444.8 | 527.0 | 580.2 |
| 82.5° | 251.4 | 273.2 | 253.8 | 294.9 | 377.1 | 415.8 |
| 85° | 111.2 | 123.3 | 128.1 | 159.6 | 232.1 | 275.6 |
| 87.5° | 4.8 | 2.4 | 4.8 | 31.4 | 82.2 | 120.9 |
| 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)