

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: P#

Luminaire Tested: **44ID-200-L940-CFR2**

Issue Date: 9/24/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (13890049.01)
Test Lab: INNOVATION CENTER
Issue Date: 9/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 44ID-200-L940-CFR2
Description: 20000 LUMEN 4X4 IN DEPTH LED LUMINAIRE, WITH RECESSED 2IN CUBE LENS
AND 4000K CCT, 90CRI LEDS
Light Source: -
Ballast/Driver:
Luminaire Equipment: Sample No. Condition Description

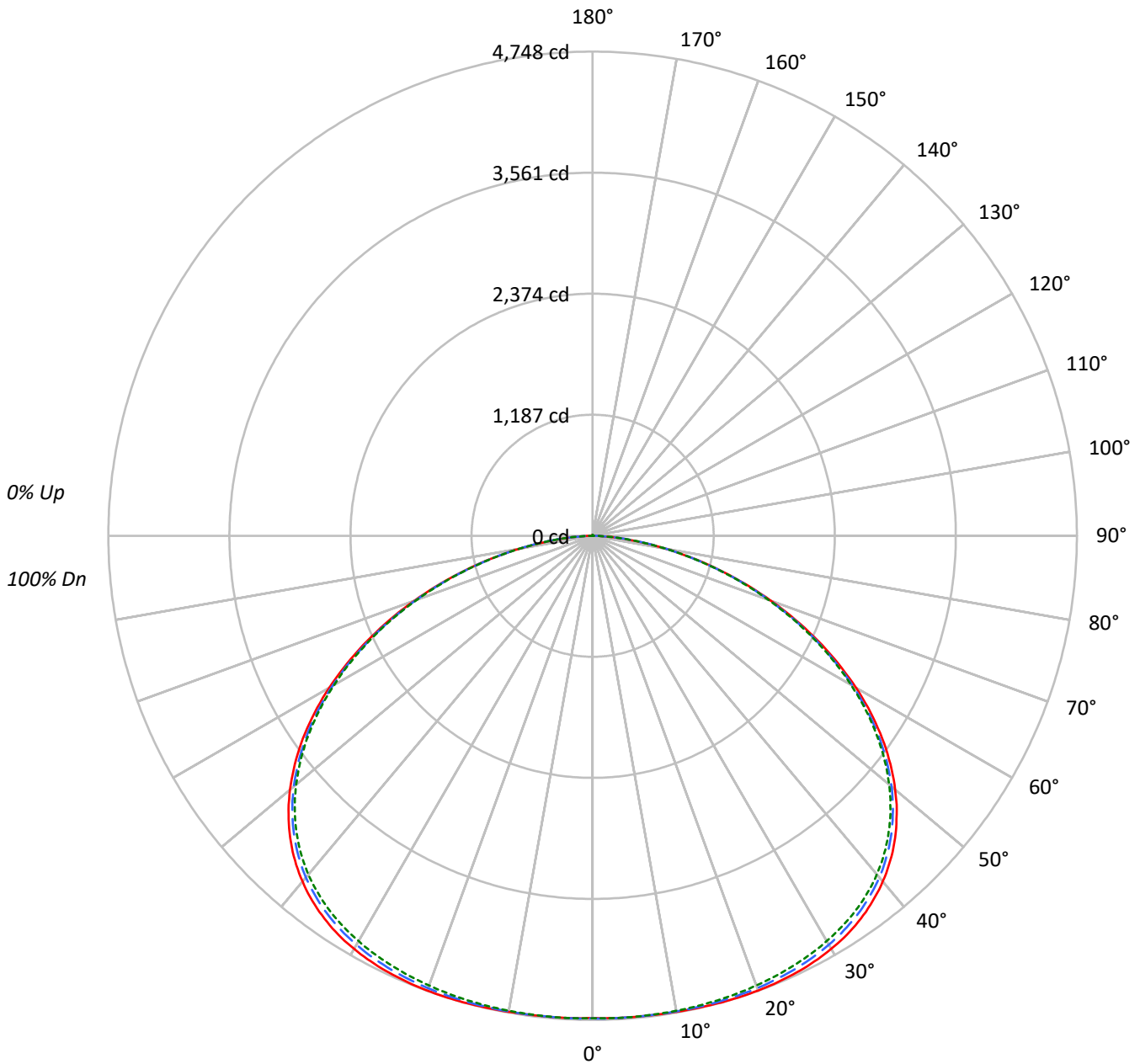
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17132.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.45 / 1.57
Luminous Opening: Rectangular (W 3.88' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 164.2
Input Voltage (V):
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

TEST NUMBER: P#
CATALOG NUMBER: 44ID-200-L940-CFR2

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

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 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 82 | | | | | | | | |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 71 | 77 | 73 | 70 | 68 | | | | | | | | |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 60 | 70 | 64 | 59 | 67 | 63 | 58 | 56 | | | | | | | | |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 52 | 64 | 57 | 51 | 62 | 55 | 50 | 60 | 54 | 49 | 47 | | | | | | | | |
| 5 | 74 | 61 | 51 | 44 | 72 | 59 | 51 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 40 | | | | | | | | |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | | | | | | | | |
| 7 | 63 | 49 | 40 | 33 | 61 | 48 | 39 | 33 | 46 | 39 | 33 | 45 | 38 | 33 | 43 | 37 | 32 | 30 | | | | | | | | |
| 8 | 58 | 44 | 36 | 29 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 27 | | | | | | | | |
| 9 | 54 | 41 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 24 | | | | | | | | |
| 10 | 51 | 37 | 29 | 24 | 50 | 37 | 29 | 24 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 28 | 23 | 21 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3378 | 3378 | 3378 |
| 5° | 3394 | 3394 | 3393 |
| 10° | 3437 | 3433 | 3428 |
| 15° | 3508 | 3499 | 3487 |
| 20° | 3605 | 3586 | 3566 |
| 25° | 3723 | 3694 | 3665 |
| 30° | 3856 | 3818 | 3783 |
| 35° | 3995 | 3948 | 3913 |
| 40° | 4124 | 4075 | 4040 |
| 45° | 4233 | 4180 | 4145 |
| 50° | 4301 | 4249 | 4214 |
| 55° | 4315 | 4262 | 4230 |
| 60° | 4258 | 4205 | 4180 |
| 65° | 4119 | 4072 | 4053 |
| 70° | 3883 | 3842 | 3823 |
| 75° | 3517 | 3495 | 3479 |
| 80° | 2992 | 3002 | 2970 |
| 85° | 2229 | 2283 | 2280 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 452.1 | 2.6 |
| 10°-20° | 1341.0 | 7.8 |
| 20°-30° | 2167.8 | 12.7 |
| 30°-40° | 2839.4 | 16.6 |
| 40°-50° | 3193.8 | 18.6 |
| 50°-60° | 3056.1 | 17.8 |
| 60°-70° | 2383.5 | 13.9 |
| 70°-80° | 1343.3 | 7.8 |
| 80°-90° | 332.4 | 1.9 |
| 90°-100° | 1.2 | 0.0 |
| 100°-110° | 1.9 | 0.0 |
| 110°-120° | 3.5 | 0.0 |
| 120°-130° | 5.4 | 0.0 |
| 130°-140° | 4.3 | 0.0 |
| 140°-150° | 2.6 | 0.0 |
| 150°-160° | 2.0 | 0.0 |
| 160°-170° | 1.3 | 0.0 |
| 170°-180° | 0.5 | 0.0 |
| 0°-30° | 3960.9 | 23.1 |
| 0°-40° | 6800.3 | 39.7 |
| 0°-60° | 13050.2 | 76.2 |
| 0°-90° | 17109.4 | 99.9 |
| 90°-120° | 6.6 | 0.0 |
| 90°-150° | 18.9 | 0.1 |
| 90°-180° | 23.0 | 0.1 |
| 0°-180° | 17132.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4731 | 4731 | 4731 | 4731 | 4731 | |
| 5° | 4736 | 4737 | 4736 | 4736 | 4735 | 452 |
| 15° | 4746 | 4745 | 4734 | 4723 | 4718 | 1345 |
| 25° | 4727 | 4719 | 4690 | 4663 | 4653 | 2185 |
| 35° | 4584 | 4569 | 4531 | 4503 | 4490 | 2870 |
| 45° | 4192 | 4174 | 4140 | 4121 | 4106 | 3230 |
| 55° | 3467 | 3448 | 3424 | 3409 | 3398 | 3090 |
| 65° | 2438 | 2429 | 2411 | 2404 | 2399 | 2407 |
| 75° | 1275 | 1275 | 1267 | 1265 | 1261 | 1351 |
| 85° | 272 | 276 | 279 | 281 | 278 | 316 |
| 90° | 2 | 2 | 2 | 3 | 2 | 13 |
| 95° | 1 | 1 | 1 | 1 | 1 | 1 |
| 105° | 2 | 2 | 2 | 2 | 2 | 2 |
| 115° | 4 | 4 | 3 | 4 | 3 | 4 |
| 125° | 7 | 6 | 6 | 6 | 6 | 6 |
| 135° | 6 | 6 | 5 | 5 | 6 | 5 |
| 145° | 4 | 4 | 4 | 4 | 4 | 3 |
| 155° | 4 | 4 | 4 | 4 | 5 | 2 |
| 165° | 4 | 4 | 4 | 4 | 5 | 1 |
| 175° | 5 | 5 | 5 | 6 | 5 | 0 |
| 180° | 4 | 4 | 4 | 4 | 4 | |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4731.4 | 4731.4 | 4731.4 | 4731.4 | 4731.4 |
| 0.5° | 4730.2 | 4733.7 | 4734.8 | 4733.7 | 4731.4 |
| 1° | 4731.4 | 4733.7 | 4734.8 | 4734.8 | 4732.5 |
| 1.5° | 4732.5 | 4734.8 | 4734.8 | 4734.8 | 4733.7 |
| 2° | 4732.5 | 4734.8 | 4734.8 | 4736.0 | 4733.7 |
| 2.5° | 4733.7 | 4736.0 | 4736.0 | 4736.0 | 4733.7 |
| 3° | 4734.8 | 4736.0 | 4736.0 | 4736.0 | 4734.8 |
| 3.5° | 4734.8 | 4736.0 | 4736.0 | 4736.0 | 4734.8 |
| 4° | 4736.0 | 4736.0 | 4736.0 | 4736.0 | 4734.8 |
| 4.5° | 4736.0 | 4737.1 | 4736.0 | 4736.0 | 4734.8 |
| 5° | 4736.0 | 4737.1 | 4736.0 | 4736.0 | 4734.8 |
| 5.5° | 4736.0 | 4737.1 | 4736.0 | 4736.0 | 4734.8 |
| 6° | 4737.1 | 4737.1 | 4736.0 | 4736.0 | 4733.7 |
| 6.5° | 4737.1 | 4738.3 | 4737.1 | 4736.0 | 4733.7 |
| 7° | 4737.1 | 4738.3 | 4736.0 | 4736.0 | 4733.7 |
| 7.5° | 4737.1 | 4738.3 | 4736.0 | 4734.8 | 4732.5 |
| 8° | 4738.3 | 4738.3 | 4737.1 | 4734.8 | 4732.5 |
| 8.5° | 4738.3 | 4739.4 | 4736.0 | 4734.8 | 4731.4 |
| 9° | 4739.4 | 4739.4 | 4737.1 | 4733.7 | 4731.4 |
| 9.5° | 4739.4 | 4740.6 | 4736.0 | 4733.7 | 4730.2 |
| 10° | 4740.6 | 4740.6 | 4736.0 | 4732.5 | 4729.1 |
| 10.5° | 4741.7 | 4741.7 | 4736.0 | 4732.5 | 4729.1 |
| 11° | 4741.7 | 4741.7 | 4736.0 | 4731.4 | 4727.9 |
| 11.5° | 4742.9 | 4742.9 | 4736.0 | 4730.2 | 4726.7 |
| 12° | 4742.9 | 4742.9 | 4736.0 | 4730.2 | 4725.6 |
| 12.5° | 4744.1 | 4742.9 | 4734.8 | 4729.1 | 4724.4 |
| 13° | 4744.1 | 4742.9 | 4734.8 | 4727.9 | 4723.3 |
| 13.5° | 4745.2 | 4744.1 | 4734.8 | 4726.7 | 4722.1 |
| 14° | 4745.2 | 4744.1 | 4734.8 | 4725.6 | 4719.8 |
| 14.5° | 4746.4 | 4744.1 | 4733.7 | 4724.4 | 4718.7 |
| 15° | 4746.4 | 4745.2 | 4733.7 | 4723.3 | 4717.5 |
| 15.5° | 4747.5 | 4745.2 | 4732.5 | 4721.0 | 4715.2 |
| 16° | 4746.4 | 4745.2 | 4731.4 | 4719.8 | 4712.9 |
| 16.5° | 4747.5 | 4745.2 | 4731.4 | 4717.5 | 4710.6 |
| 17° | 4747.5 | 4744.1 | 4730.2 | 4715.2 | 4709.4 |
| 17.5° | 4747.5 | 4744.1 | 4727.9 | 4714.1 | 4707.1 |
| 18° | 4747.5 | 4744.1 | 4726.7 | 4711.7 | 4703.7 |
| 18.5° | 4747.5 | 4742.9 | 4725.6 | 4709.4 | 4701.4 |
| 19° | 4746.4 | 4742.9 | 4724.4 | 4707.1 | 4699.0 |
| 19.5° | 4746.4 | 4741.7 | 4722.1 | 4703.7 | 4695.6 |
| 20° | 4745.2 | 4740.6 | 4719.8 | 4701.4 | 4693.3 |
| 20.5° | 4744.1 | 4739.4 | 4718.7 | 4699.0 | 4689.8 |
| 21° | 4744.1 | 4738.3 | 4716.4 | 4695.6 | 4686.4 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 22.5° | 4739.4 | 4732.5 | 4708.3 | 4685.2 | 4674.8 |
| 23° | 4737.1 | 4730.2 | 4704.8 | 4681.7 | 4671.4 |
| 23.5° | 4734.8 | 4727.9 | 4701.4 | 4677.1 | 4666.7 |
| 24° | 4732.5 | 4725.6 | 4697.9 | 4672.5 | 4662.1 |
| 24.5° | 4730.2 | 4722.1 | 4694.4 | 4667.9 | 4657.5 |
| 25° | 4726.7 | 4718.7 | 4689.8 | 4663.3 | 4652.9 |
| 25.5° | 4723.3 | 4715.2 | 4685.2 | 4658.7 | 4647.1 |
| 26° | 4719.8 | 4711.7 | 4680.6 | 4654.0 | 4642.5 |
| 26.5° | 4716.4 | 4707.1 | 4676.0 | 4648.3 | 4636.7 |
| 27° | 4711.7 | 4702.5 | 4670.2 | 4642.5 | 4631.0 |
| 27.5° | 4707.1 | 4697.9 | 4664.4 | 4636.7 | 4625.2 |
| 28° | 4702.5 | 4692.1 | 4658.7 | 4631.0 | 4619.4 |
| 28.5° | 4696.7 | 4686.4 | 4652.9 | 4624.0 | 4612.5 |
| 29° | 4691.0 | 4680.6 | 4646.0 | 4617.1 | 4605.6 |
| 29.5° | 4685.2 | 4673.7 | 4639.0 | 4610.2 | 4597.5 |
| 30° | 4678.3 | 4666.7 | 4631.0 | 4602.1 | 4589.4 |
| 30.5° | 4671.4 | 4659.8 | 4622.9 | 4594.0 | 4582.5 |
| 31° | 4663.3 | 4651.7 | 4614.8 | 4586.0 | 4573.3 |
| 31.5° | 4656.4 | 4643.7 | 4605.6 | 4577.9 | 4565.2 |
| 32° | 4647.1 | 4634.4 | 4597.5 | 4568.6 | 4556.0 |
| 32.5° | 4637.9 | 4625.2 | 4587.1 | 4558.3 | 4545.6 |
| 33° | 4628.7 | 4614.8 | 4576.7 | 4549.0 | 4535.2 |
| 33.5° | 4618.3 | 4604.4 | 4566.3 | 4538.6 | 4524.8 |
| 34° | 4606.7 | 4592.9 | 4554.8 | 4527.1 | 4514.4 |
| 34.5° | 4595.2 | 4581.3 | 4543.3 | 4515.6 | 4502.9 |
| 35° | 4583.7 | 4568.6 | 4530.6 | 4502.9 | 4490.2 |
| 35.5° | 4571.0 | 4556.0 | 4517.9 | 4490.2 | 4477.5 |
| 36° | 4558.3 | 4542.1 | 4504.0 | 4477.5 | 4463.6 |
| 36.5° | 4543.3 | 4528.3 | 4490.2 | 4463.6 | 4450.9 |
| 37° | 4528.3 | 4513.3 | 4475.2 | 4448.6 | 4435.9 |
| 37.5° | 4513.3 | 4497.1 | 4460.2 | 4433.6 | 4419.8 |
| 38° | 4497.1 | 4482.1 | 4444.0 | 4418.6 | 4404.8 |
| 38.5° | 4480.9 | 4464.8 | 4426.7 | 4401.3 | 4388.6 |
| 39° | 4463.6 | 4446.3 | 4409.4 | 4385.2 | 4371.3 |
| 39.5° | 4445.2 | 4427.9 | 4392.1 | 4366.7 | 4354.0 |
| 40° | 4425.6 | 4409.4 | 4372.5 | 4348.2 | 4335.5 |
| 40.5° | 4407.1 | 4389.8 | 4352.9 | 4329.8 | 4315.9 |
| 41° | 4386.3 | 4369.0 | 4333.2 | 4309.0 | 4295.2 |
| 41.5° | 4364.4 | 4347.1 | 4311.3 | 4288.2 | 4274.4 |
| 42° | 4342.5 | 4325.2 | 4289.4 | 4267.5 | 4252.5 |
| 42.5° | 4319.4 | 4302.1 | 4266.3 | 4244.4 | 4230.5 |
| 43° | 4296.3 | 4277.8 | 4243.2 | 4221.3 | 4207.4 |
| 43.5° | 4272.1 | 4253.6 | 4219.0 | 4197.1 | 4183.2 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 45° | 4192.4 | 4174.0 | 4140.5 | 4120.9 | 4105.9 |
| 45.5° | 4164.8 | 4145.1 | 4112.8 | 4093.2 | 4079.4 |
| 46° | 4135.9 | 4116.3 | 4084.0 | 4064.4 | 4050.5 |
| 46.5° | 4105.9 | 4086.3 | 4055.1 | 4035.5 | 4021.7 |
| 47° | 4074.7 | 4056.3 | 4024.0 | 4006.7 | 3991.7 |
| 47.5° | 4043.6 | 4024.0 | 3992.8 | 3975.5 | 3960.5 |
| 48° | 4012.4 | 3991.7 | 3961.6 | 3943.2 | 3928.2 |
| 48.5° | 3979.0 | 3959.3 | 3929.3 | 3912.0 | 3898.2 |
| 49° | 3943.2 | 3924.7 | 3894.7 | 3876.3 | 3863.6 |
| 49.5° | 3908.6 | 3890.1 | 3860.1 | 3842.8 | 3828.9 |
| 50° | 3872.8 | 3853.2 | 3825.5 | 3808.2 | 3794.3 |
| 50.5° | 3835.9 | 3816.2 | 3788.6 | 3771.2 | 3758.5 |
| 51° | 3798.9 | 3779.3 | 3751.6 | 3734.3 | 3720.5 |
| 51.5° | 3759.7 | 3740.1 | 3712.4 | 3696.2 | 3683.5 |
| 52° | 3720.5 | 3700.8 | 3673.2 | 3658.1 | 3645.5 |
| 52.5° | 3681.2 | 3661.6 | 3633.9 | 3617.8 | 3606.2 |
| 53° | 3638.5 | 3620.1 | 3594.7 | 3579.7 | 3567.0 |
| 53.5° | 3595.8 | 3577.4 | 3552.0 | 3537.0 | 3525.4 |
| 54° | 3553.1 | 3534.7 | 3509.3 | 3494.3 | 3483.9 |
| 54.5° | 3511.6 | 3492.0 | 3467.7 | 3452.7 | 3442.4 |
| 55° | 3466.6 | 3448.1 | 3423.9 | 3408.9 | 3398.5 |
| 55.5° | 3421.6 | 3403.1 | 3378.9 | 3363.9 | 3354.7 |
| 56° | 3374.3 | 3357.0 | 3332.7 | 3320.0 | 3310.8 |
| 56.5° | 3327.0 | 3310.8 | 3286.6 | 3273.9 | 3264.6 |
| 57° | 3280.8 | 3263.5 | 3240.4 | 3228.9 | 3219.6 |
| 57.5° | 3234.6 | 3216.2 | 3193.1 | 3181.6 | 3172.3 |
| 58° | 3183.9 | 3166.5 | 3144.6 | 3133.1 | 3125.0 |
| 58.5° | 3134.2 | 3118.1 | 3095.0 | 3084.6 | 3076.5 |
| 59° | 3084.6 | 3068.5 | 3046.5 | 3036.1 | 3028.1 |
| 59.5° | 3032.7 | 3017.7 | 2995.8 | 2985.4 | 2977.3 |
| 60° | 2981.9 | 2965.8 | 2945.0 | 2935.8 | 2927.7 |
| 60.5° | 2930.0 | 2916.1 | 2894.2 | 2885.0 | 2876.9 |
| 61° | 2876.9 | 2863.1 | 2842.3 | 2833.0 | 2825.0 |
| 61.5° | 2822.7 | 2811.1 | 2790.3 | 2781.1 | 2774.2 |
| 62° | 2769.6 | 2758.0 | 2737.3 | 2729.2 | 2722.3 |
| 62.5° | 2715.3 | 2703.8 | 2683.0 | 2674.9 | 2668.0 |
| 63° | 2661.1 | 2649.6 | 2629.9 | 2621.9 | 2614.9 |
| 63.5° | 2605.7 | 2594.2 | 2575.7 | 2567.6 | 2560.7 |
| 64° | 2550.3 | 2538.8 | 2519.2 | 2513.4 | 2505.3 |
| 64.5° | 2494.9 | 2483.4 | 2463.8 | 2458.0 | 2451.1 |
| 65° | 2438.4 | 2429.1 | 2410.7 | 2403.8 | 2399.1 |
| 65.5° | 2383.0 | 2371.5 | 2354.1 | 2348.4 | 2341.4 |
| 66° | 2324.1 | 2314.9 | 2297.6 | 2291.8 | 2287.2 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 67.5° | 2153.3 | 2143.0 | 2128.0 | 2122.2 | 2116.4 |
| 68° | 2094.5 | 2085.3 | 2070.3 | 2065.6 | 2059.9 |
| 68.5° | 2035.6 | 2026.4 | 2011.4 | 2007.9 | 2004.5 |
| 69° | 1976.8 | 1967.6 | 1954.9 | 1951.4 | 1946.8 |
| 69.5° | 1919.1 | 1909.9 | 1898.3 | 1894.9 | 1889.1 |
| 70° | 1860.2 | 1852.2 | 1840.6 | 1837.2 | 1831.4 |
| 70.5° | 1801.4 | 1793.3 | 1782.9 | 1779.5 | 1773.7 |
| 71° | 1742.5 | 1735.6 | 1726.4 | 1721.8 | 1716.0 |
| 71.5° | 1684.8 | 1677.9 | 1667.5 | 1664.1 | 1659.4 |
| 72° | 1626.0 | 1620.2 | 1609.8 | 1607.5 | 1601.7 |
| 72.5° | 1567.1 | 1562.5 | 1552.1 | 1549.8 | 1545.2 |
| 73° | 1508.3 | 1503.6 | 1493.3 | 1491.0 | 1487.5 |
| 73.5° | 1450.6 | 1446.0 | 1436.7 | 1433.3 | 1429.8 |
| 74° | 1392.9 | 1389.4 | 1380.2 | 1377.9 | 1373.2 |
| 74.5° | 1334.0 | 1331.7 | 1323.6 | 1320.2 | 1316.7 |
| 75° | 1275.2 | 1275.2 | 1267.1 | 1264.8 | 1261.3 |
| 75.5° | 1218.6 | 1218.6 | 1210.5 | 1208.2 | 1204.8 |
| 76° | 1162.1 | 1162.1 | 1154.0 | 1151.8 | 1147.2 |
| 76.5° | 1104.9 | 1105.4 | 1098.6 | 1096.2 | 1092.4 |
| 77° | 1050.2 | 1050.7 | 1044.6 | 1041.5 | 1037.7 |
| 77.5° | 991.7 | 994.5 | 989.4 | 986.7 | 982.9 |
| 78° | 937.2 | 940.6 | 935.4 | 933.2 | 930.0 |
| 78.5° | 885.7 | 887.9 | 884.5 | 881.9 | 877.4 |
| 79° | 831.8 | 833.5 | 831.3 | 829.0 | 824.6 |
| 79.5° | 778.7 | 781.6 | 780.1 | 778.0 | 772.9 |
| 80° | 727.8 | 729.9 | 730.2 | 727.1 | 722.4 |
| 80.5° | 674.3 | 678.5 | 679.2 | 676.1 | 673.7 |
| 81° | 624.8 | 628.8 | 630.0 | 628.1 | 624.9 |
| 81.5° | 576.1 | 580.8 | 581.8 | 580.8 | 576.6 |
| 82° | 527.3 | 533.0 | 534.8 | 534.0 | 529.3 |
| 82.5° | 480.6 | 487.1 | 488.9 | 488.3 | 484.0 |
| 83° | 435.4 | 442.4 | 444.2 | 444.7 | 440.8 |
| 83.5° | 391.7 | 398.4 | 400.6 | 401.2 | 397.0 |
| 84° | 349.7 | 355.7 | 358.4 | 359.6 | 356.0 |
| 84.5° | 309.7 | 314.6 | 317.9 | 319.4 | 317.7 |
| 85° | 272.1 | 275.6 | 278.7 | 280.8 | 278.3 |
| 85.5° | 235.6 | 238.4 | 240.7 | 244.0 | 242.0 |
| 86° | 201.7 | 204.5 | 206.1 | 208.6 | 208.6 |
| 86.5° | 169.4 | 170.7 | 171.9 | 174.9 | 174.9 |
| 87° | 138.5 | 138.6 | 139.1 | 142.9 | 143.0 |
| 87.5° | 106.9 | 107.8 | 108.2 | 111.6 | 112.7 |
| 88° | 75.4 | 78.0 | 78.7 | 81.8 | 81.6 |
| 88.5° | 53.3 | 53.3 | 53.2 | 56.3 | 57.0 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 90° | 2.5 | 2.4 | 2.5 | 2.7 | 2.4 |
| 90.5° | 0.8 | 0.7 | 0.8 | 0.9 | 0.8 |
| 91° | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 |
| 91.5° | 1.0 | 0.8 | 0.9 | 0.7 | 0.6 |
| 92° | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 |
| 92.5° | 0.9 | 0.8 | 0.8 | 0.9 | 0.8 |
| 93° | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 |
| 93.5° | 1.0 | 0.8 | 0.9 | 0.9 | 1.0 |
| 94° | 1.0 | 0.9 | 1.0 | 0.9 | 1.2 |
| 94.5° | 1.0 | 1.0 | 0.9 | 1.0 | 1.0 |
| 95° | 1.0 | 0.8 | 1.0 | 0.9 | 1.2 |
| 95.5° | 0.9 | 1.0 | 1.2 | 1.0 | 1.2 |
| 96° | 1.3 | 1.3 | 1.0 | 1.0 | 1.2 |
| 96.5° | 1.3 | 1.2 | 1.2 | 1.0 | 1.2 |
| 97° | 1.3 | 1.2 | 1.3 | 1.0 | 1.4 |
| 97.5° | 1.4 | 1.2 | 1.2 | 1.0 | 1.4 |
| 98° | 1.5 | 1.3 | 1.3 | 1.3 | 1.5 |
| 98.5° | 1.5 | 1.3 | 1.2 | 1.2 | 1.4 |
| 99° | 1.4 | 1.4 | 1.3 | 1.2 | 1.3 |
| 99.5° | 1.5 | 1.2 | 1.4 | 1.3 | 1.3 |
| 100° | 1.5 | 1.4 | 1.4 | 1.4 | 1.5 |
| 100.5° | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 |
| 101° | 1.6 | 1.4 | 1.4 | 1.4 | 1.4 |
| 101.5° | 1.7 | 1.4 | 1.5 | 1.5 | 1.6 |
| 102° | 1.8 | 1.5 | 1.6 | 1.5 | 1.6 |
| 102.5° | 1.6 | 1.5 | 1.5 | 1.6 | 1.6 |
| 103° | 1.6 | 1.4 | 1.6 | 1.5 | 1.6 |
| 103.5° | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 |
| 104° | 2.0 | 1.7 | 1.7 | 1.6 | 1.5 |
| 104.5° | 1.7 | 1.8 | 1.8 | 1.8 | 1.6 |
| 105° | 2.1 | 1.8 | 1.7 | 2.0 | 2.0 |
| 105.5° | 2.0 | 1.6 | 1.8 | 1.7 | 1.7 |
| 106° | 1.8 | 1.8 | 2.0 | 2.0 | 2.1 |
| 106.5° | 2.1 | 1.8 | 2.0 | 1.8 | 1.7 |
| 107° | 2.0 | 2.0 | 2.1 | 2.1 | 1.8 |
| 107.5° | 2.2 | 2.0 | 2.1 | 2.2 | 2.1 |
| 108° | 2.2 | 2.0 | 1.8 | 2.2 | 2.0 |
| 108.5° | 2.2 | 2.2 | 2.2 | 2.1 | 2.0 |
| 109° | 2.3 | 2.2 | 2.2 | 2.2 | 2.3 |
| 109.5° | 2.4 | 2.1 | 2.4 | 2.3 | 2.1 |
| 110° | 2.3 | 2.3 | 2.3 | 2.4 | 2.3 |
| 110.5° | 2.4 | 2.3 | 2.4 | 2.4 | 2.5 |
| 111° | 2.4 | 2.5 | 2.5 | 2.5 | 2.4 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 2.8 | 2.9 | 3.0 | 2.9 | 2.7 |
| 113° | 3.1 | 2.8 | 2.8 | 2.9 | 2.9 |
| 113.5° | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 |
| 114° | 3.2 | 3.2 | 3.3 | 3.3 | 3.2 |
| 114.5° | 3.5 | 3.5 | 3.3 | 3.3 | 3.1 |
| 115° | 3.5 | 3.5 | 3.3 | 3.5 | 3.3 |
| 115.5° | 3.8 | 3.5 | 3.7 | 3.6 | 3.3 |
| 116° | 3.7 | 3.8 | 3.8 | 3.7 | 3.6 |
| 116.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.8 |
| 117° | 4.2 | 4.2 | 4.2 | 4.2 | 3.7 |
| 117.5° | 4.4 | 4.2 | 4.3 | 4.2 | 3.9 |
| 118° | 4.4 | 4.3 | 4.5 | 4.3 | 4.0 |
| 118.5° | 4.7 | 4.5 | 4.5 | 4.4 | 4.3 |
| 119° | 4.7 | 4.7 | 4.8 | 4.5 | 4.5 |
| 119.5° | 4.8 | 4.8 | 4.8 | 4.7 | 4.6 |
| 120° | 5.1 | 5.1 | 5.0 | 4.8 | 5.0 |
| 120.5° | 5.2 | 5.0 | 5.2 | 5.1 | 5.0 |
| 121° | 5.2 | 5.2 | 5.2 | 5.2 | 5.0 |
| 121.5° | 5.8 | 5.5 | 5.4 | 5.2 | 5.2 |
| 122° | 5.4 | 5.8 | 5.5 | 5.4 | 5.5 |
| 122.5° | 5.9 | 5.8 | 5.7 | 5.7 | 5.4 |
| 123° | 6.0 | 6.0 | 5.8 | 5.8 | 5.7 |
| 123.5° | 6.0 | 6.2 | 5.9 | 5.7 | 5.9 |
| 124° | 6.1 | 6.2 | 6.1 | 5.9 | 5.9 |
| 124.5° | 6.5 | 6.2 | 6.1 | 6.0 | 6.0 |
| 125° | 6.7 | 6.5 | 6.3 | 6.2 | 6.2 |
| 125.5° | 6.7 | 6.6 | 6.3 | 6.2 | 6.3 |
| 126° | 6.7 | 6.5 | 6.3 | 6.3 | 6.2 |
| 126.5° | 6.5 | 6.6 | 6.7 | 6.3 | 6.5 |
| 127° | 6.7 | 6.7 | 6.5 | 6.3 | 6.2 |
| 127.5° | 6.9 | 6.8 | 6.7 | 6.3 | 6.2 |
| 128° | 6.9 | 6.6 | 6.6 | 6.3 | 6.5 |
| 128.5° | 6.7 | 6.7 | 6.5 | 6.2 | 6.5 |
| 129° | 6.6 | 6.6 | 6.5 | 6.3 | 6.2 |
| 129.5° | 6.5 | 6.6 | 6.5 | 6.3 | 6.3 |
| 130° | 6.5 | 6.6 | 6.3 | 6.1 | 6.2 |
| 130.5° | 6.7 | 6.5 | 6.5 | 5.9 | 6.2 |
| 131° | 6.3 | 6.3 | 6.3 | 6.0 | 6.1 |
| 131.5° | 6.5 | 6.2 | 6.0 | 5.9 | 6.0 |
| 132° | 6.3 | 6.1 | 6.1 | 5.9 | 5.9 |
| 132.5° | 6.3 | 6.1 | 6.0 | 5.9 | 6.0 |
| 133° | 6.1 | 5.9 | 5.9 | 5.5 | 5.8 |
| 133.5° | 6.2 | 5.9 | 5.7 | 5.4 | 5.8 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 135° | 6.0 | 5.7 | 5.4 | 5.3 | 5.8 |
| 135.5° | 5.7 | 5.8 | 5.4 | 5.2 | 5.5 |
| 136° | 5.5 | 5.4 | 5.2 | 5.0 | 5.5 |
| 136.5° | 5.7 | 5.4 | 5.2 | 5.0 | 5.4 |
| 137° | 5.5 | 5.3 | 5.2 | 5.0 | 5.3 |
| 137.5° | 5.4 | 5.2 | 5.1 | 4.7 | 5.1 |
| 138° | 5.3 | 5.1 | 4.8 | 4.7 | 5.1 |
| 138.5° | 5.4 | 5.1 | 5.0 | 4.6 | 5.0 |
| 139° | 4.7 | 5.0 | 4.8 | 4.4 | 5.1 |
| 139.5° | 5.1 | 4.7 | 4.6 | 4.5 | 5.0 |
| 140° | 5.0 | 4.6 | 4.7 | 4.4 | 4.6 |
| 140.5° | 5.0 | 4.6 | 4.6 | 4.4 | 4.6 |
| 141° | 4.7 | 4.6 | 4.5 | 4.2 | 4.4 |
| 141.5° | 4.4 | 4.6 | 4.6 | 4.2 | 4.4 |
| 142° | 4.3 | 4.3 | 4.5 | 4.3 | 4.0 |
| 142.5° | 4.3 | 4.5 | 4.4 | 4.2 | 4.0 |
| 143° | 4.5 | 4.4 | 4.4 | 4.3 | 4.0 |
| 143.5° | 4.5 | 4.4 | 4.4 | 4.0 | 4.0 |
| 144° | 4.5 | 4.2 | 4.5 | 3.9 | 4.2 |
| 144.5° | 4.3 | 4.2 | 4.3 | 4.0 | 4.2 |
| 145° | 4.4 | 4.2 | 4.3 | 3.8 | 4.2 |
| 145.5° | 4.3 | 4.0 | 4.2 | 3.8 | 4.4 |
| 146° | 4.3 | 4.0 | 3.9 | 3.8 | 4.2 |
| 146.5° | 4.4 | 4.0 | 3.9 | 3.8 | 4.2 |
| 147° | 4.3 | 4.0 | 3.8 | 3.9 | 3.9 |
| 147.5° | 4.2 | 4.0 | 3.8 | 3.9 | 4.3 |
| 148° | 4.3 | 4.0 | 3.9 | 3.8 | 4.3 |
| 148.5° | 4.4 | 4.2 | 3.9 | 3.8 | 4.3 |
| 149° | 4.3 | 4.0 | 3.9 | 3.8 | 4.3 |
| 149.5° | 4.5 | 3.9 | 3.9 | 3.8 | 4.4 |
| 150° | 4.4 | 4.2 | 3.9 | 3.8 | 4.3 |
| 150.5° | 4.3 | 4.0 | 3.9 | 3.9 | 4.3 |
| 151° | 4.5 | 4.0 | 3.8 | 3.9 | 4.5 |
| 151.5° | 4.4 | 4.2 | 3.8 | 3.9 | 4.5 |
| 152° | 4.5 | 4.2 | 4.0 | 4.2 | 4.3 |
| 152.5° | 4.5 | 4.3 | 3.9 | 4.0 | 4.5 |
| 153° | 4.4 | 4.2 | 4.0 | 4.3 | 4.6 |
| 153.5° | 4.7 | 4.3 | 3.9 | 4.2 | 4.5 |
| 154° | 4.5 | 4.3 | 4.2 | 4.2 | 4.5 |
| 154.5° | 4.5 | 4.2 | 4.2 | 4.4 | 4.6 |
| 155° | 4.3 | 4.3 | 4.3 | 4.4 | 4.7 |
| 155.5° | 4.5 | 4.2 | 4.2 | 4.3 | 4.6 |
| 156° | 4.3 | 4.3 | 4.3 | 4.3 | 4.6 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 157.5° | 4.3 | 4.0 | 4.2 | 4.4 | 4.5 |
| 158° | 4.6 | 4.3 | 4.2 | 4.3 | 4.6 |
| 158.5° | 4.4 | 4.3 | 4.0 | 4.3 | 4.5 |
| 159° | 4.5 | 4.3 | 4.2 | 4.3 | 4.7 |
| 159.5° | 4.4 | 4.2 | 4.2 | 4.3 | 4.8 |
| 160° | 4.4 | 4.3 | 4.0 | 4.3 | 4.6 |
| 160.5° | 4.3 | 4.2 | 4.2 | 4.4 | 4.6 |
| 161° | 4.3 | 4.2 | 4.2 | 4.4 | 4.6 |
| 161.5° | 4.4 | 4.3 | 4.2 | 4.2 | 4.4 |
| 162° | 4.3 | 4.2 | 4.3 | 4.4 | 4.4 |
| 162.5° | 4.5 | 4.4 | 4.3 | 4.3 | 4.5 |
| 163° | 4.5 | 4.3 | 4.4 | 4.4 | 4.4 |
| 163.5° | 4.4 | 4.3 | 4.4 | 4.4 | 4.7 |
| 164° | 4.3 | 4.4 | 4.3 | 4.6 | 4.6 |
| 164.5° | 4.2 | 4.5 | 4.4 | 4.6 | 4.7 |
| 165° | 4.3 | 4.3 | 4.2 | 4.5 | 4.6 |
| 165.5° | 4.0 | 4.3 | 4.2 | 4.8 | 4.6 |
| 166° | 4.4 | 4.4 | 4.3 | 4.6 | 4.5 |
| 166.5° | 4.4 | 4.3 | 4.2 | 4.7 | 4.3 |
| 167° | 4.3 | 4.6 | 4.3 | 4.8 | 4.7 |
| 167.5° | 4.4 | 4.6 | 4.4 | 5.0 | 4.7 |
| 168° | 4.5 | 4.5 | 4.3 | 4.8 | 4.6 |
| 168.5° | 4.4 | 4.7 | 4.5 | 5.2 | 4.7 |
| 169° | 4.7 | 4.6 | 4.3 | 5.2 | 4.7 |
| 169.5° | 4.6 | 4.6 | 4.4 | 5.1 | 4.8 |
| 170° | 4.7 | 4.6 | 4.5 | 5.2 | 4.7 |
| 170.5° | 4.7 | 4.8 | 4.5 | 5.2 | 5.0 |
| 171° | 4.7 | 4.7 | 4.7 | 5.2 | 5.1 |
| 171.5° | 4.6 | 4.7 | 4.7 | 5.3 | 4.8 |
| 172° | 4.6 | 4.7 | 4.8 | 5.3 | 5.0 |
| 172.5° | 4.8 | 4.8 | 5.0 | 5.3 | 5.0 |
| 173° | 4.6 | 4.6 | 5.0 | 5.3 | 5.1 |
| 173.5° | 5.0 | 4.8 | 5.1 | 5.2 | 5.2 |
| 174° | 5.1 | 5.1 | 5.4 | 5.3 | 5.1 |
| 174.5° | 5.1 | 5.3 | 5.3 | 5.5 | 5.3 |
| 175° | 5.4 | 5.3 | 5.4 | 5.5 | 5.2 |
| 175.5° | 5.4 | 5.3 | 5.7 | 5.4 | 5.4 |
| 176° | 5.7 | 5.5 | 5.4 | 5.3 | 5.3 |
| 176.5° | 5.8 | 5.4 | 5.5 | 5.1 | 5.3 |
| 177° | 5.5 | 5.4 | 5.2 | 5.1 | 5.3 |
| 177.5° | 5.7 | 5.4 | 5.1 | 5.0 | 5.4 |
| 178° | 5.3 | 5.2 | 5.0 | 5.0 | 5.1 |
| 178.5° | 5.2 | 5.1 | 4.8 | 4.8 | 4.8 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-200-L940-CFR2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 21.5° | 4742.9 | 4737.1 | 4714.1 | 4692.1 | 4682.9 |
| 22° | 4740.6 | 4734.8 | 4710.6 | 4688.7 | 4679.4 |



| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 44° | 4245.5 | 4228.2 | 4193.6 | 4172.8 | 4159.0 |
| 44.5° | 4219.0 | 4200.5 | 4168.2 | 4146.3 | 4132.4 |



| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 66.5° | 2267.6 | 2258.4 | 2241.0 | 2235.3 | 2229.5 |
| 67° | 2211.0 | 2200.7 | 2184.5 | 2178.7 | 2174.1 |



| | | | | | |
|-------|------|------|------|------|------|
| 89° | 33.7 | 33.1 | 32.8 | 34.5 | 35.0 |
| 89.5° | 14.9 | 15.1 | 14.8 | 15.8 | 15.6 |



| | | | | | |
|--------|-----|-----|-----|-----|-----|
| 111.5° | 2.9 | 2.5 | 2.7 | 2.7 | 2.5 |
| 112° | 2.9 | 2.7 | 2.7 | 2.7 | 2.9 |



| | | | | | |
|--------|-----|-----|-----|-----|-----|
| 134° | 5.9 | 5.8 | 5.7 | 5.5 | 5.9 |
| 134.5° | 6.0 | 5.7 | 5.7 | 5.3 | 5.5 |



| | | | | | |
|--------|-----|-----|-----|-----|-----|
| 156.5° | 4.5 | 4.2 | 4.3 | 4.4 | 4.5 |
| 157° | 4.4 | 4.2 | 4.3 | 4.3 | 4.5 |



| | | | | | |
|--------|-----|-----|-----|-----|-----|
| 179° | 5.0 | 4.8 | 4.6 | 4.7 | 5.0 |
| 179.5° | 4.4 | 4.6 | 4.5 | 4.4 | 4.7 |



(END OF REPORT)