

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: McGRAW-EDISON

Report Number: P943688

Luminaire Tested: **GALN-SB8B-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36474 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

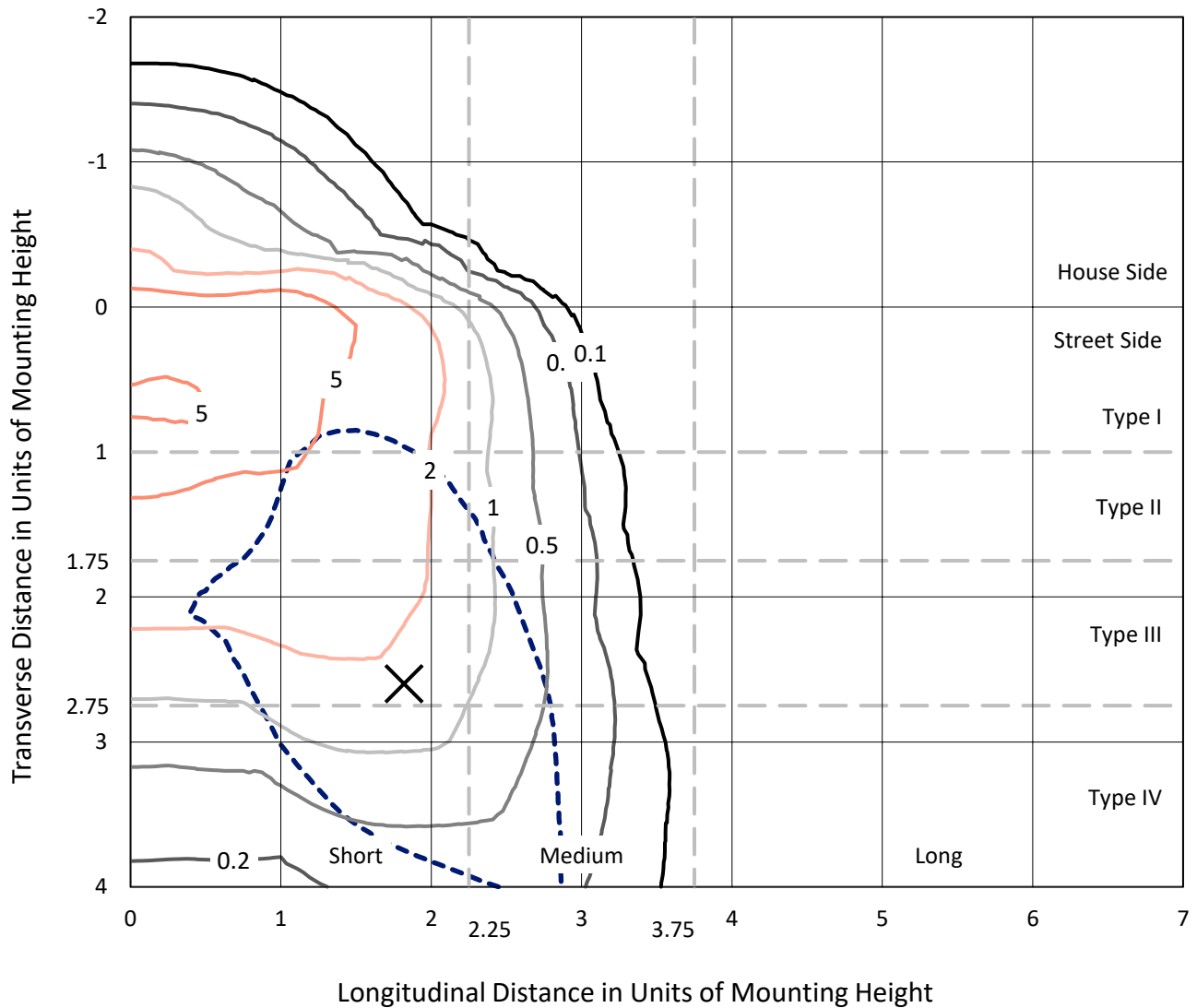
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

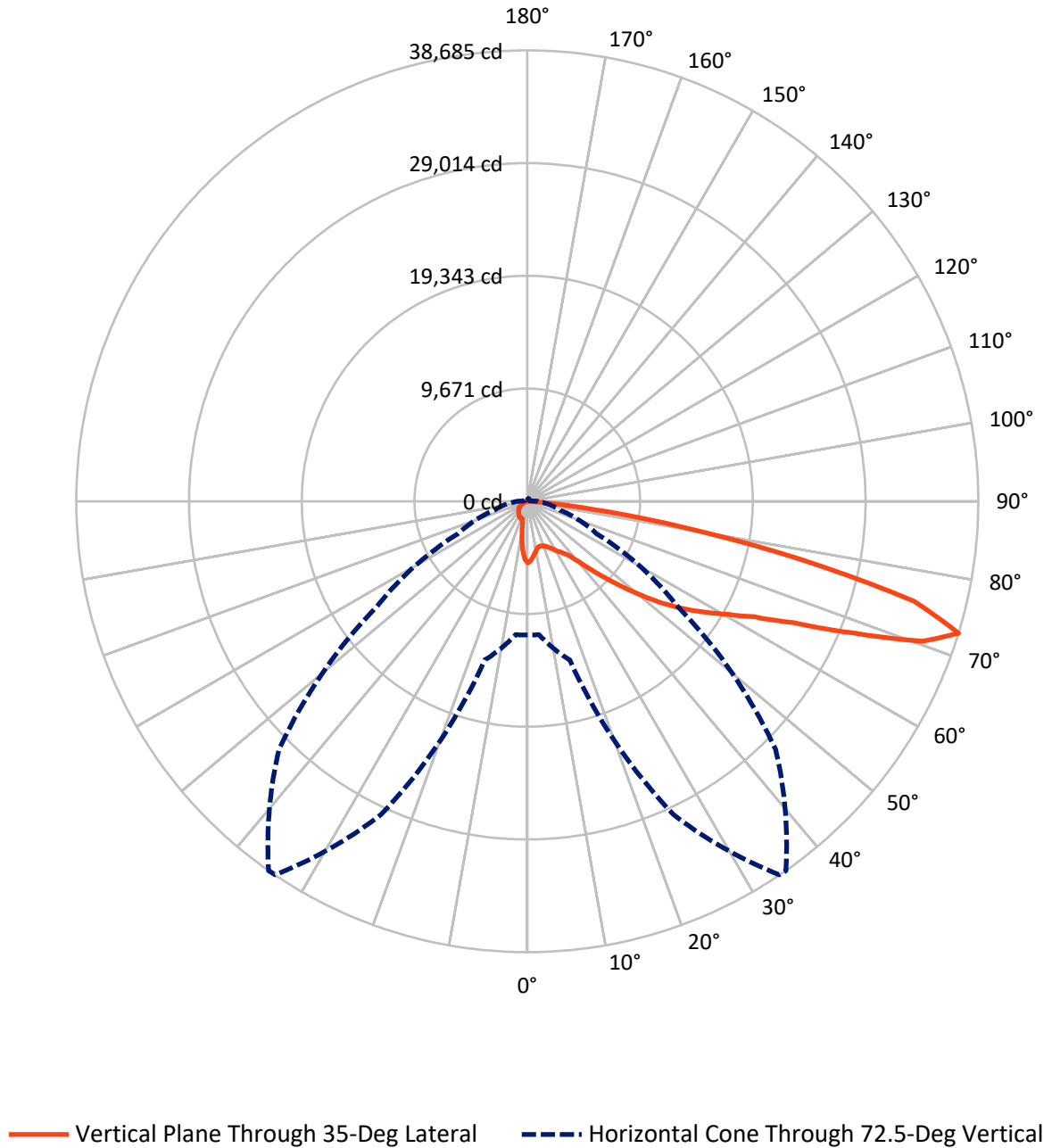
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4105.0 | 0.0 | 4105.0 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 32369.0 | 0.0 | 32369.0 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 36474.0 | 0.0 | 36474.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 434.4 | 1.2 |
| 10°-20° | 1016.2 | 2.8 |
| 20°-30° | 1650.8 | 4.5 |
| 30°-40° | 2754.4 | 7.6 |
| 40°-50° | 5211.3 | 14.3 |
| 50°-60° | 8280.8 | 22.7 |
| 60°-70° | 10243.9 | 28.1 |
| 70°-80° | 6367.7 | 17.5 |
| 80°-90° | 514.6 | 1.4 |
| 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° | 36474.0 | 100.0 |
| 0°-180° | 36474.0 | 100.0 |

Coefficient of Utilization



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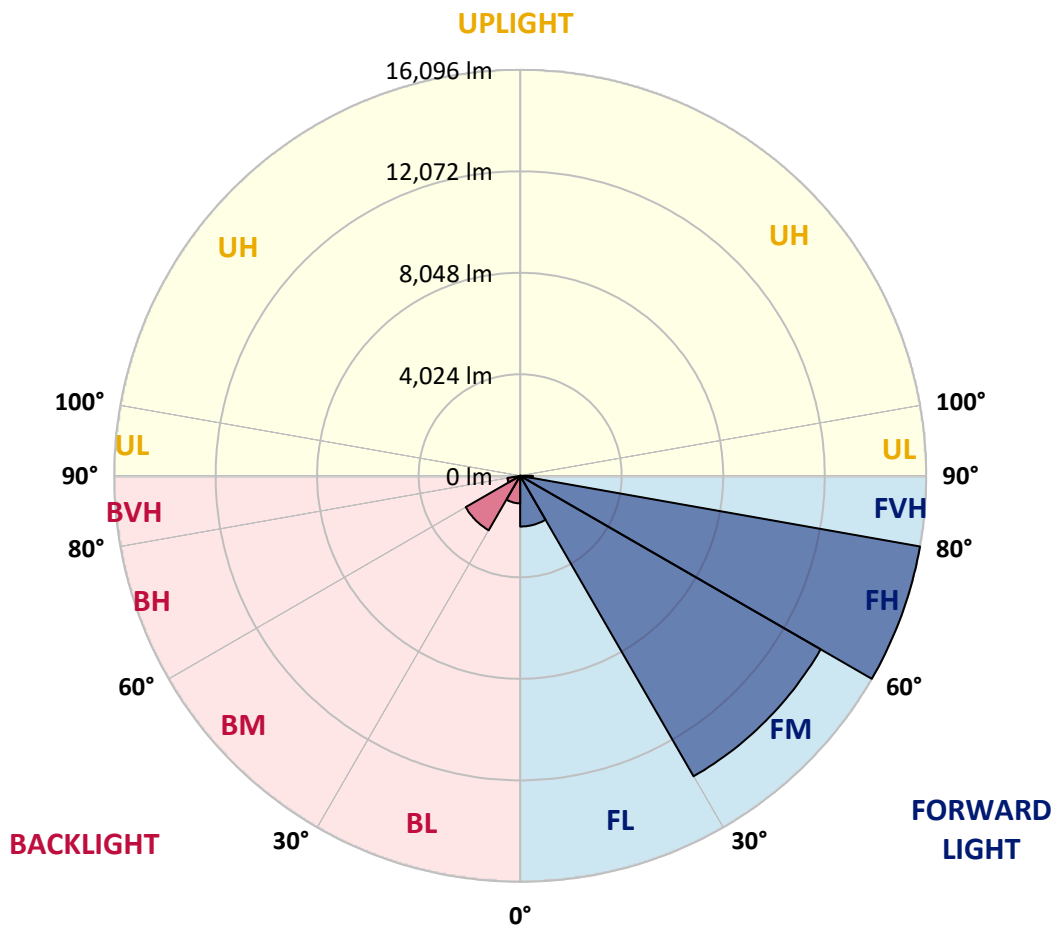
CATALOG NUMBER: GALN-SB8B-740-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2010.6 | 5.5 | | | |
| FM (30°-60°) | 13754.3 | 37.7 | | | |
| FH (60°-80°) | 16096.4 | 44.1 | | | G5 |
| FVH (80°-90°) | 507.6 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1090.8 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 2492.1 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 515.1 | 1.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 |
| 2.5° | 5051.1 | 5093.9 | 5101.9 | 5115.3 | 5115.3 | 5131.3 | 5158.0 | 5195.4 | 5256.9 | 5289.0 |
| 5° | 4655.6 | 4687.7 | 4727.7 | 4759.8 | 4821.3 | 4829.3 | 4933.5 | 5035.1 | 5176.7 | 5283.6 |
| 7.5° | 4257.4 | 4294.8 | 4348.2 | 4425.7 | 4505.9 | 4530.0 | 4687.7 | 4858.7 | 5083.2 | 5283.6 |
| 10° | 3976.8 | 3979.4 | 4027.5 | 4105.0 | 4233.3 | 4262.7 | 4455.1 | 4698.3 | 4979.0 | 5251.6 |
| 12.5° | 3819.1 | 3837.8 | 3859.2 | 3918.0 | 4040.9 | 4059.6 | 4265.4 | 4551.4 | 4874.7 | 5232.9 |
| 15° | 3819.1 | 3832.4 | 3845.8 | 3875.2 | 3974.1 | 3990.1 | 4171.9 | 4457.8 | 4821.3 | 5240.9 |
| 17.5° | 3859.2 | 3880.5 | 3869.9 | 3904.6 | 4008.8 | 4019.5 | 4179.9 | 4431.1 | 4818.6 | 5291.7 |
| 20° | 3955.4 | 3971.4 | 3950.0 | 3971.4 | 4075.6 | 4097.0 | 4262.7 | 4481.9 | 4864.0 | 5379.8 |
| 22.5° | 4107.7 | 4115.7 | 4064.9 | 4081.0 | 4187.9 | 4214.6 | 4407.0 | 4626.2 | 4973.6 | 5521.5 |
| 25° | 4300.1 | 4316.2 | 4238.7 | 4257.4 | 4358.9 | 4391.0 | 4612.8 | 4842.7 | 5147.3 | 5716.6 |
| 27.5° | 4522.0 | 4530.0 | 4463.2 | 4460.5 | 4591.4 | 4636.9 | 4861.4 | 5109.9 | 5379.8 | 5962.5 |
| 30° | 4775.8 | 4799.9 | 4735.8 | 4725.1 | 4890.8 | 4928.2 | 5150.0 | 5438.6 | 5721.9 | 6331.3 |
| 32.5° | 4976.3 | 4995.0 | 4957.6 | 4984.3 | 5152.7 | 5182.1 | 5500.1 | 5903.7 | 6259.1 | 6855.1 |
| 35° | 5264.9 | 5275.6 | 5190.1 | 5238.2 | 5430.6 | 5505.5 | 5978.5 | 6555.8 | 6935.3 | 7512.5 |
| 37.5° | 6309.9 | 6309.9 | 5946.4 | 5708.6 | 5893.0 | 5959.8 | 6633.3 | 7376.2 | 7769.1 | 8394.5 |
| 40° | 7755.7 | 7731.7 | 7199.9 | 6713.4 | 6689.4 | 6820.3 | 7566.0 | 8410.5 | 8846.1 | 9452.8 |
| 42.5° | 9297.8 | 9260.4 | 8536.1 | 8055.1 | 7974.9 | 8020.3 | 8643.0 | 9685.3 | 10129.0 | 10743.7 |
| 45° | 10666.2 | 10655.5 | 9992.7 | 9345.9 | 9201.6 | 9345.9 | 9987.3 | 11176.6 | 11494.6 | 12141.4 |
| 47.5° | 11812.7 | 11812.7 | 11328.9 | 10906.7 | 10831.8 | 10917.4 | 11807.3 | 12830.9 | 12801.5 | 13630.0 |
| 50° | 13132.9 | 13122.2 | 12662.5 | 12480.8 | 12558.3 | 12678.6 | 13902.6 | 14573.4 | 14153.8 | 15091.9 |
| 52.5° | 14057.6 | 14121.8 | 13964.1 | 13934.7 | 14330.2 | 14538.7 | 16030.0 | 16278.5 | 15364.5 | 16478.9 |
| 55° | 14789.9 | 14864.7 | 15046.5 | 15252.2 | 16013.9 | 16286.5 | 18090.5 | 17895.4 | 16377.4 | 17681.6 |
| 57.5° | 15826.8 | 15719.9 | 16000.6 | 16406.8 | 17638.8 | 17967.6 | 20086.9 | 19421.4 | 17192.5 | 18657.1 |
| 60° | 17085.6 | 17101.7 | 17149.8 | 17662.9 | 19261.1 | 19683.3 | 22053.9 | 20864.6 | 17716.3 | 19255.7 |
| 62.5° | 18598.3 | 18622.3 | 18721.2 | 19509.6 | 21439.2 | 21837.4 | 24149.2 | 22045.9 | 17956.9 | 19087.4 |
| 65° | 18494.1 | 18595.6 | 19699.4 | 22396.0 | 24750.5 | 25143.4 | 26594.6 | 22874.4 | 17593.4 | 17548.0 |
| 67.5° | 16847.8 | 17013.5 | 18860.2 | 25843.6 | 29742.8 | 30181.1 | 29550.4 | 23037.4 | 16024.6 | 13646.0 |
| 70° | 14688.3 | 14747.1 | 16968.0 | 28943.7 | 35523.5 | 35967.2 | 32196.2 | 21244.1 | 12160.1 | 7611.4 |
| 72.5° | 11470.6 | 11484.0 | 14089.7 | 29662.6 | 38661.1 | 38685.2 | 30119.6 | 15770.7 | 6539.7 | 2923.8 |
| 75° | 8194.0 | 8113.9 | 9436.8 | 24055.6 | 34013.6 | 34286.2 | 22580.4 | 7397.6 | 2498.8 | 1381.7 |
| 77.5° | 4393.7 | 4481.9 | 5339.8 | 14266.1 | 23497.1 | 23962.1 | 12320.5 | 2132.7 | 1272.1 | 940.7 |
| 80° | 1357.7 | 1432.5 | 2188.8 | 6531.7 | 13309.3 | 13589.9 | 4567.4 | 948.8 | 887.3 | 670.8 |
| 82.5° | 427.6 | 443.6 | 1020.9 | 2744.7 | 5524.2 | 5652.4 | 1322.9 | 537.2 | 606.7 | 443.6 |
| 85° | 122.9 | 125.6 | 454.3 | 1023.6 | 1365.7 | 1392.4 | 371.5 | 208.5 | 347.4 | 275.3 |
| 87.5° | 13.4 | 42.8 | 171.0 | 171.0 | 120.3 | 117.6 | 40.1 | 45.4 | 98.9 | 34.7 |
| 90° | 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5286.3 | 0° | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 | 5286.3 |
| 5310.4 | 2.5° | 5297.0 | 5299.7 | 5264.9 | 5206.1 | 5142.0 | 5088.5 | 5021.7 | 4968.3 | 4930.9 | 4920.2 |
| 5358.5 | 5° | 5334.4 | 5315.7 | 5216.8 | 5037.8 | 4824.0 | 4639.5 | 4433.8 | 4270.7 | 4163.8 | 4118.4 |
| 5409.2 | 7.5° | 5390.5 | 5337.1 | 5120.6 | 4767.8 | 4358.9 | 3995.5 | 3626.7 | 3340.7 | 3159.0 | 3068.1 |
| 5457.3 | 10° | 5438.6 | 5331.7 | 4960.3 | 4377.6 | 3752.3 | 3201.7 | 2704.6 | 2359.9 | 2167.4 | 2076.6 |
| 5513.5 | 12.5° | 5484.1 | 5329.1 | 4751.8 | 3915.3 | 3068.1 | 2394.6 | 1932.3 | 1761.2 | 1707.8 | 1689.1 |
| 5604.3 | 15° | 5569.6 | 5337.1 | 4489.9 | 3386.1 | 2386.6 | 1809.3 | 1640.9 | 1638.3 | 1649.0 | 1643.6 |
| 5743.3 | 17.5° | 5687.2 | 5345.1 | 4193.2 | 2824.9 | 1841.4 | 1595.5 | 1587.5 | 1611.5 | 1627.6 | 1619.6 |
| 5917.0 | 20° | 5839.5 | 5377.2 | 3877.9 | 2269.0 | 1582.2 | 1542.1 | 1560.8 | 1582.2 | 1595.5 | 1582.2 |
| 6149.5 | 22.5° | 6053.3 | 5433.3 | 3533.1 | 1822.7 | 1499.3 | 1510.0 | 1526.0 | 1550.1 | 1563.4 | 1544.7 |
| 6446.2 | 25° | 6315.2 | 5521.5 | 3193.7 | 1584.8 | 1459.2 | 1472.6 | 1496.6 | 1523.4 | 1539.4 | 1520.7 |
| 6820.3 | 27.5° | 6654.7 | 5663.1 | 2881.0 | 1531.4 | 1419.1 | 1427.1 | 1461.9 | 1502.0 | 1523.4 | 1499.3 |
| 7352.2 | 30° | 7146.4 | 5895.6 | 2611.1 | 1555.4 | 1395.1 | 1376.4 | 1424.5 | 1480.6 | 1504.6 | 1483.3 |
| 8076.4 | 32.5° | 7798.5 | 6224.4 | 2445.4 | 1592.8 | 1384.4 | 1317.6 | 1363.0 | 1435.2 | 1475.2 | 1461.9 |
| 9022.5 | 35° | 8653.7 | 6724.1 | 2381.2 | 1635.6 | 1376.4 | 1256.1 | 1288.2 | 1365.7 | 1435.2 | 1448.5 |
| 10214.5 | 37.5° | 9690.7 | 7419.0 | 2400.0 | 1654.3 | 1352.3 | 1205.3 | 1221.4 | 1288.2 | 1379.0 | 1421.8 |
| 11556.1 | 40° | 10869.3 | 8228.8 | 2506.9 | 1635.6 | 1325.6 | 1162.6 | 1165.2 | 1216.0 | 1296.2 | 1360.3 |
| 12999.3 | 42.5° | 12085.3 | 9174.9 | 2704.6 | 1566.1 | 1301.5 | 1125.1 | 1117.1 | 1151.9 | 1205.3 | 1250.8 |
| 14439.8 | 45° | 13242.5 | 10147.7 | 2899.7 | 1469.9 | 1272.1 | 1087.7 | 1069.0 | 1082.4 | 1093.1 | 1111.8 |
| 15842.9 | 47.5° | 14252.7 | 10831.8 | 2843.6 | 1381.7 | 1232.0 | 1045.0 | 1012.9 | 1007.6 | 975.5 | 972.8 |
| 17096.3 | 50° | 14950.2 | 10981.5 | 2525.6 | 1293.5 | 1173.2 | 996.9 | 946.1 | 914.0 | 857.9 | 831.2 |
| 18034.4 | 52.5° | 15172.1 | 10390.9 | 2063.2 | 1205.3 | 1077.0 | 932.7 | 860.6 | 809.8 | 740.3 | 716.2 |
| 18574.2 | 55° | 14878.1 | 9233.7 | 1649.0 | 1098.4 | 943.4 | 847.2 | 767.0 | 700.2 | 644.1 | 614.7 |
| 18633.0 | 57.5° | 14159.2 | 7761.1 | 1304.2 | 972.8 | 801.8 | 751.0 | 670.8 | 604.0 | 555.9 | 526.5 |
| 17980.9 | 60° | 12967.2 | 6162.9 | 1031.6 | 823.1 | 684.2 | 646.8 | 563.9 | 521.1 | 478.4 | 443.6 |
| 16297.2 | 62.5° | 11157.9 | 4399.0 | 809.8 | 652.1 | 571.9 | 529.2 | 481.1 | 449.0 | 398.2 | 350.1 |
| 13269.2 | 65° | 8707.2 | 2691.3 | 625.4 | 478.4 | 459.7 | 438.3 | 408.9 | 379.5 | 318.0 | 269.9 |
| 8656.4 | 67.5° | 5492.1 | 1274.8 | 446.3 | 360.8 | 363.5 | 352.8 | 339.4 | 315.4 | 269.9 | 227.2 |
| 3877.9 | 70° | 2418.7 | 617.4 | 294.0 | 275.3 | 269.9 | 269.9 | 280.6 | 272.6 | 229.8 | 189.8 |
| 1347.0 | 72.5° | 823.1 | 331.4 | 219.1 | 208.5 | 195.1 | 192.4 | 235.2 | 227.2 | 184.4 | 147.0 |
| 670.8 | 75° | 430.3 | 221.8 | 160.4 | 149.7 | 117.6 | 141.6 | 187.1 | 176.4 | 131.0 | 96.2 |
| 443.6 | 77.5° | 280.6 | 157.7 | 109.6 | 96.2 | 66.8 | 93.5 | 139.0 | 122.9 | 77.5 | 48.1 |
| 291.3 | 80° | 176.4 | 104.2 | 64.1 | 45.4 | 32.1 | 50.8 | 74.8 | 53.5 | 29.4 | 10.7 |
| 171.0 | 82.5° | 93.5 | 53.5 | 24.1 | 16.0 | 13.4 | 16.0 | 18.7 | 13.4 | 5.3 | 0.0 |
| 88.2 | 85° | 37.4 | 18.7 | 8.0 | 5.3 | 2.7 | 0.0 | 5.3 | 2.7 | 0.0 | 0.0 |
| 16.0 | 87.5° | 13.4 | 2.7 | 0.0 | 0.0 | 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 | 0.0 | 0.0 | 0.0 |

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| |
|-------------|
| <u>180°</u> |
| 5286.3 |
| 4938.9 |
| 4134.4 |
| 3081.5 |
| 2079.2 |
| 1683.7 |
| 1640.9 |
| 1616.9 |
| 1579.5 |
| 1542.1 |
| 1518.0 |
| 1499.3 |
| 1480.6 |
| 1461.9 |
| 1448.5 |
| 1432.5 |
| 1381.7 |
| 1269.5 |
| 1122.5 |
| 970.1 |
| 833.8 |
| 713.6 |
| 614.7 |
| 521.1 |
| 435.6 |
| 342.1 |
| 261.9 |
| 221.8 |
| 181.7 |
| 139.0 |
| 88.2 |
| 42.8 |
| 8.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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