

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: P393763

Luminaire Tested: **NFFLD-C55-D-UNV-66-7050-TS2**

Issue Date: 3/31/2020

Test Information

Test Method: LM-79-08
Report Number: P393763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P130629)
Test Lab: INNOVATIONS CENTER
Issue Date: 3/31/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C55-D-UNV-66-7050-TS2
Description: FLOODLIGHT WITH TOP AND SIDE VISORS
Light Source: (2) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

| | |
|--|-------------------------------------|
| Lumens per Lamp: N/A | NEMA Type: 6H x 5V |
| Luminaire Lumens: 18939 lumens | Max Intensity: 11623.2 candela |
| Efficiency: N/A | Max Intensity Angle: 0°H x 29°V |
| Efficacy: 130.6 lumens/watt | |
| Luminous Opening: (L: 1.33 ' x W: 0 ' x H: 0.67 ') | |
| Beam Angle (50%): 94.6°H x 75.7°V | Field Angle (10%): 119.6°H x 96.4°V |
| Beam Lumens: 13994.4 lumens | Field Lumens: 18449.8 lumens |
| Beam Efficiency: 73.9% | Field Efficiency: 97.4% |

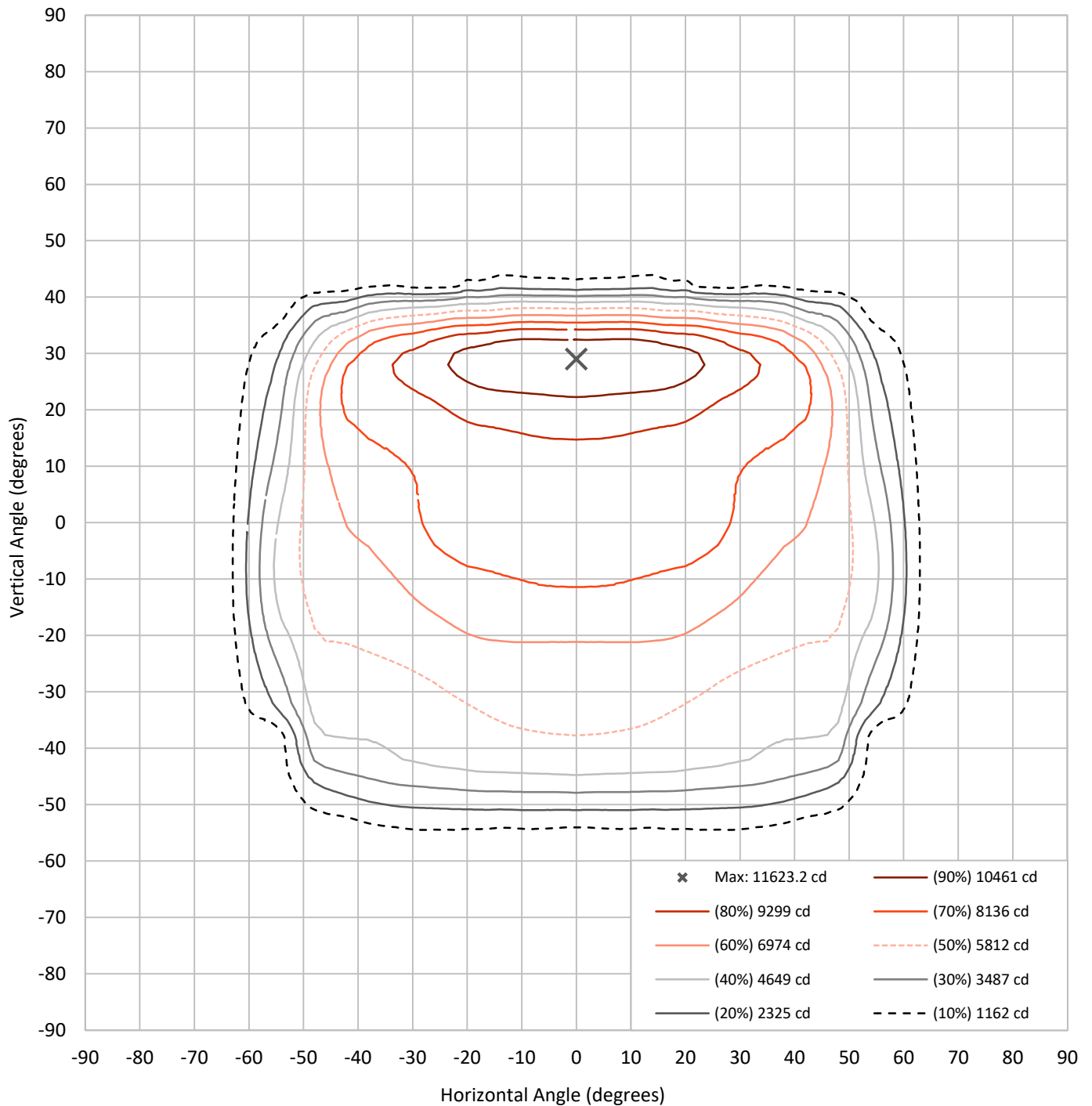
Input Watts (W): 145
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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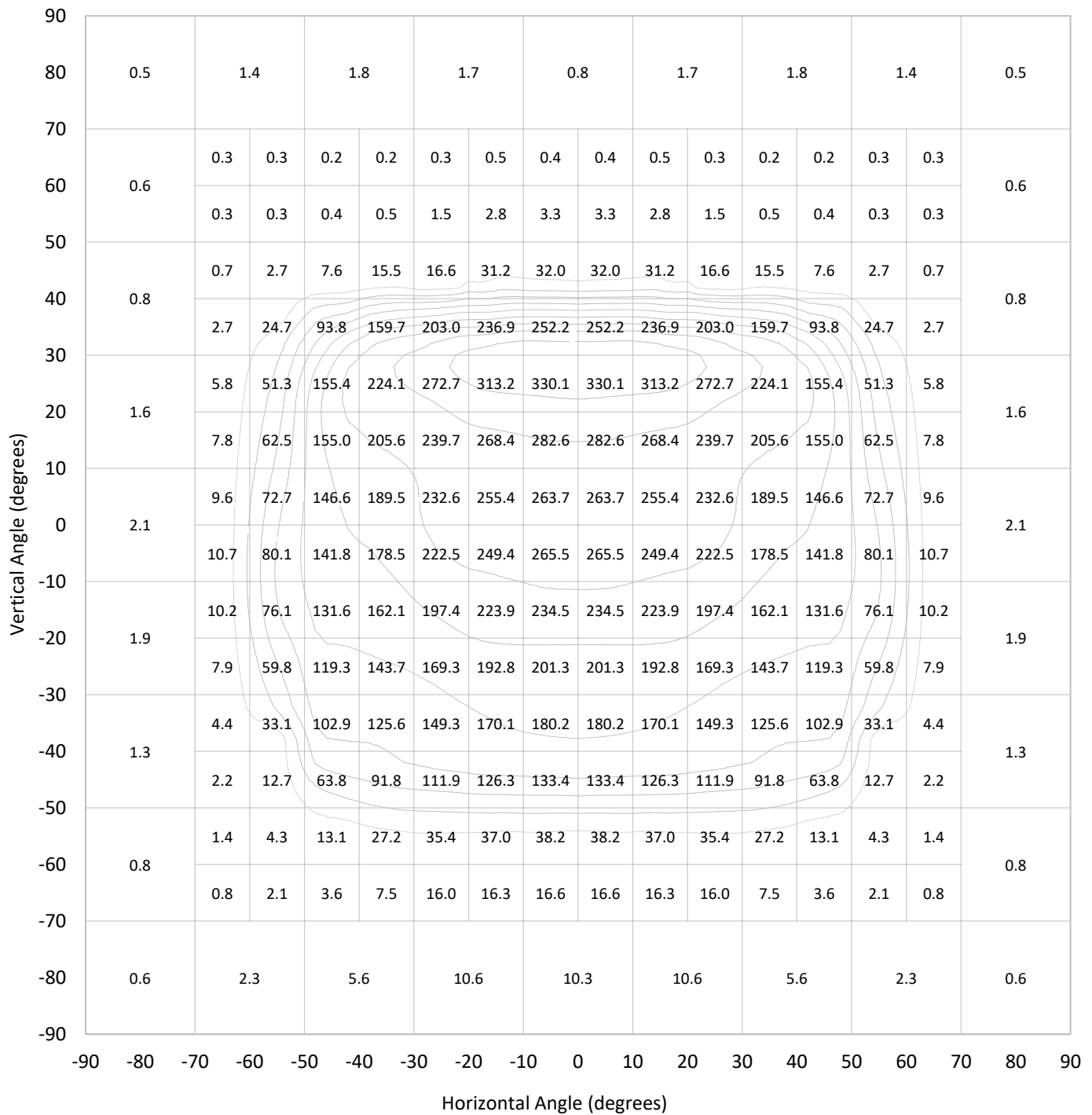
Iso-Candela Plot





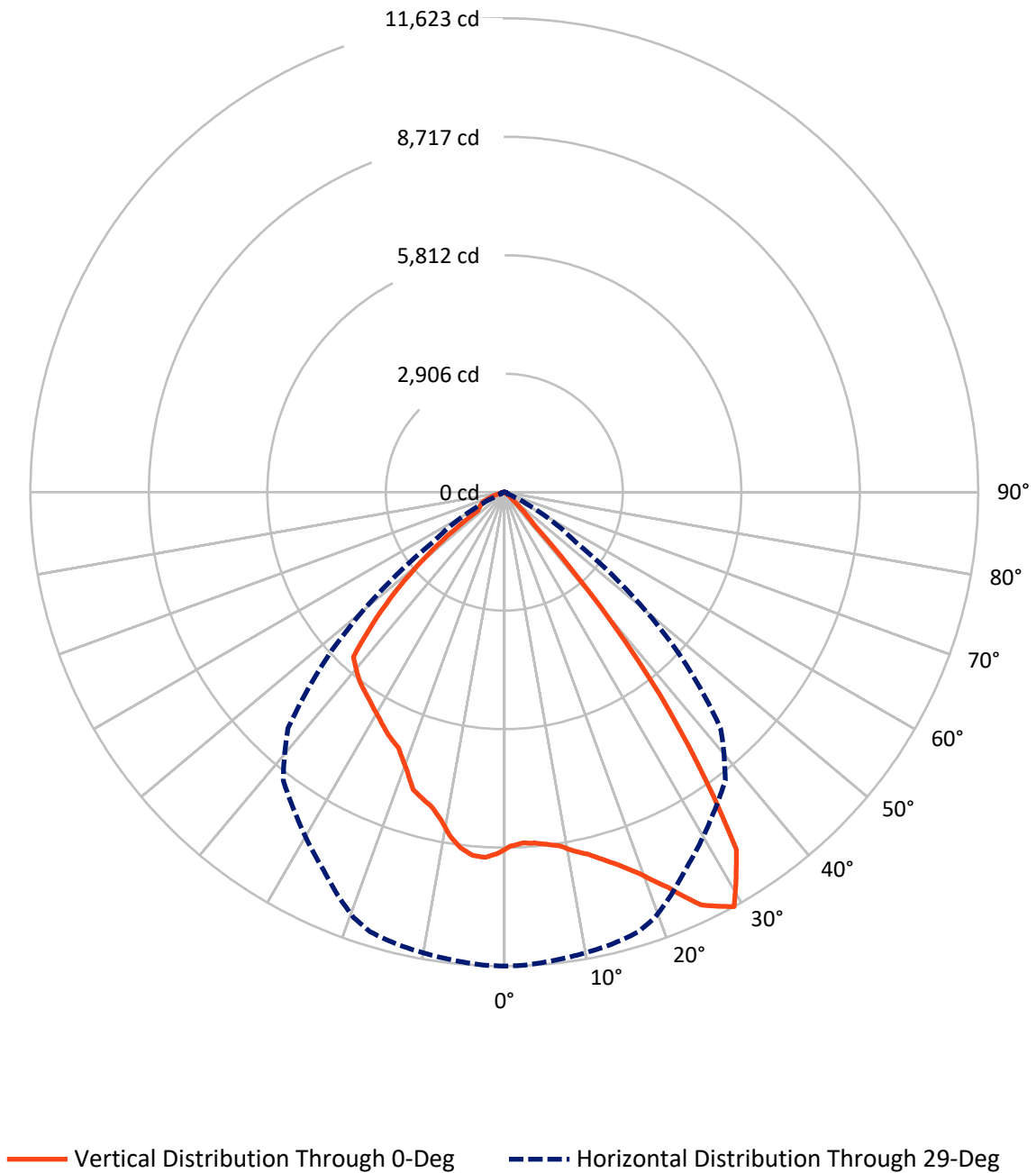
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Lumen Table



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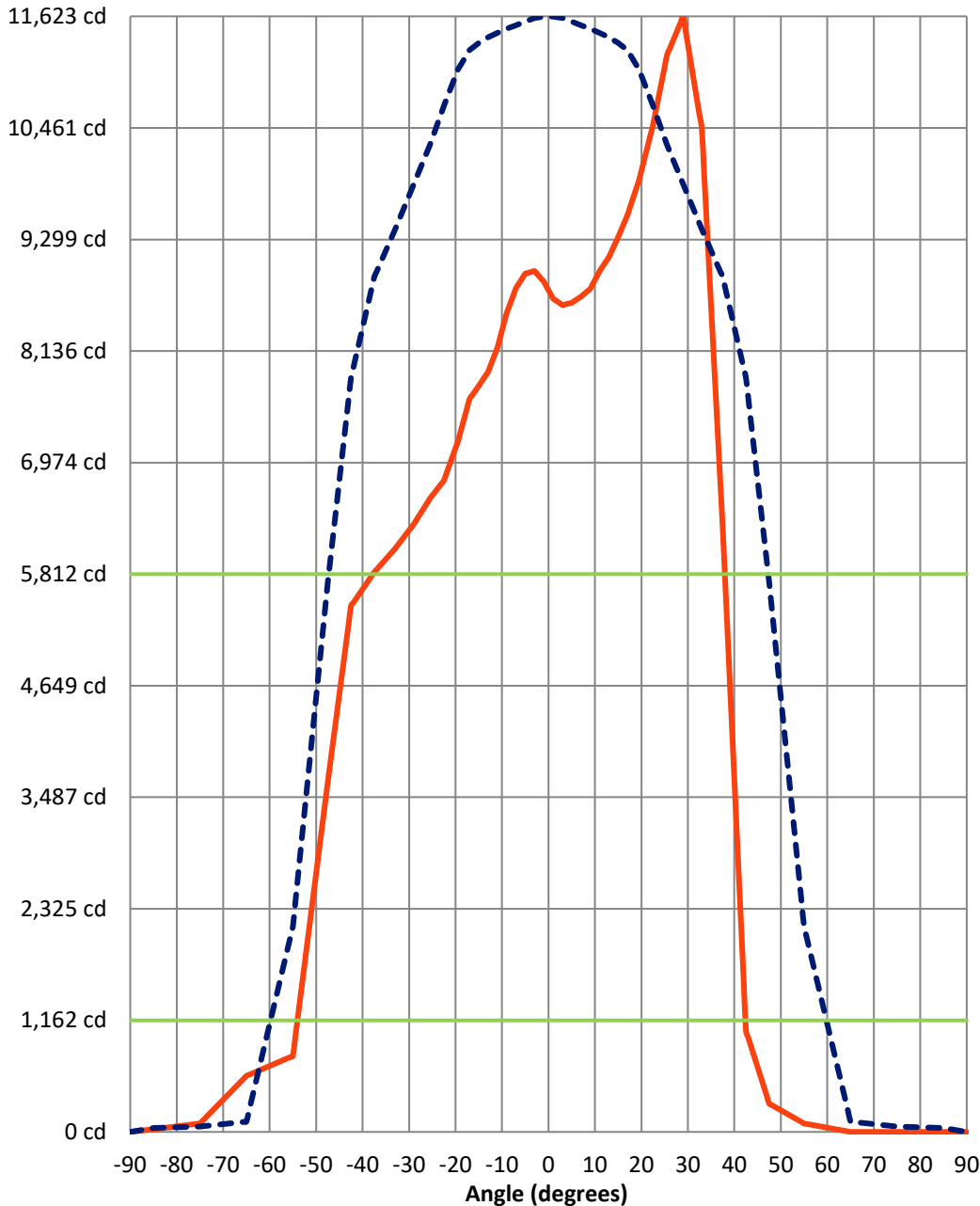
Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 94.6°
 V Angle: 75.7°
 Lumens: 13994.4
 Efficiency: 73.9%

Field:
 H Angle: 119.6°
 V Angle: 96.4°
 Lumens: 18449.8
 Efficiency: 97.4%

Spill:
 Lumens: 489.2
 Efficiency: 2.6%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 29-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

| | 0° | 1° | 3° | 5° | 7° | 9° | 11° | 13° | 15° | 17° | 19.5° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 4.4 | 10.3 | 10.3 | 11.7 | 14.7 | 19.1 | 22.0 | 24.9 | 26.2 | 27.9 |
| 75° | 0.0 | 1.5 | 4.4 | 7.3 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 65° | 0.0 | 0.0 | 3.1 | 4.4 | 5.7 | 5.7 | 7.3 | 7.3 | 7.3 | 7.3 | 5.7 |
| 55° | 88.0 | 84.9 | 88.0 | 88.0 | 88.0 | 86.5 | 80.7 | 73.3 | 68.9 | 70.4 | 64.5 |
| 47.5° | 294.6 | 296.1 | 293.3 | 287.3 | 284.5 | 281.4 | 275.5 | 269.7 | 256.5 | 250.8 | 246.2 |
| 42.5° | 1056.9 | 1159.5 | 1134.8 | 1225.5 | 1191.8 | 1276.7 | 1401.5 | 1504.2 | 1509.9 | 826.8 | 1229.9 |
| 37.5° | 6283.1 | 6307.9 | 6328.4 | 6386.9 | 6360.7 | 6391.5 | 6329.9 | 6202.3 | 6007.4 | 5928.2 | 5966.5 |
| 33° | 10447.7 | 10400.8 | 10421.3 | 10487.5 | 10529.7 | 10579.7 | 10506.4 | 10374.4 | 10131.1 | 9961.0 | 9880.5 |
| 29° | 11623.2 | 11620.3 | 11605.8 | 11569.1 | 11529.7 | 11494.5 | 11450.5 | 11404.9 | 11346.2 | 11270.1 | 11067.9 |
| 25.5° | 11218.8 | 11199.7 | 11171.9 | 11111.9 | 11081.1 | 11051.6 | 11009.1 | 10966.7 | 10902.2 | 10811.4 | 10619.3 |
| 22.5° | 10491.7 | 10480.0 | 10464.0 | 10412.5 | 10371.5 | 10339.2 | 10296.7 | 10277.6 | 10232.3 | 10179.5 | 10045.9 |
| 19.5° | 9918.5 | 9906.9 | 9908.2 | 9883.3 | 9855.4 | 9814.5 | 9763.0 | 9716.1 | 9678.1 | 9650.4 | 9575.3 |
| 17° | 9554.9 | 9537.3 | 9540.3 | 9533.1 | 9505.1 | 9458.3 | 9411.2 | 9348.3 | 9297.0 | 9266.0 | 9204.8 |
| 15° | 9323.4 | 9310.0 | 9314.6 | 9298.3 | 9267.8 | 9222.2 | 9176.7 | 9121.0 | 9068.2 | 9008.1 | 8945.2 |
| 13° | 9115.3 | 9101.9 | 9104.9 | 9090.2 | 9059.4 | 9024.2 | 8989.0 | 8937.7 | 8898.1 | 8840.9 | 8775.1 |
| 11° | 8968.5 | 8959.7 | 8950.9 | 8942.1 | 8914.4 | 8880.8 | 8849.7 | 8807.3 | 8773.6 | 8722.3 | 8673.9 |
| 9° | 8785.5 | 8791.2 | 8782.4 | 8778.0 | 8757.5 | 8728.3 | 8703.2 | 8673.9 | 8653.5 | 8624.2 | 8607.9 |
| 7° | 8703.2 | 8707.8 | 8699.0 | 8694.4 | 8679.7 | 8663.6 | 8640.3 | 8622.5 | 8622.5 | 8627.1 | 8639.0 |
| 5° | 8639.0 | 8643.1 | 8640.3 | 8641.6 | 8643.1 | 8635.9 | 8628.4 | 8632.8 | 8660.7 | 8684.3 | 8691.3 |
| 3° | 8615.4 | 8616.7 | 8627.1 | 8637.2 | 8651.9 | 8665.1 | 8681.2 | 8707.8 | 8741.3 | 8742.8 | 8731.1 |
| 1° | 8682.7 | 8679.7 | 8710.5 | 8737.1 | 8763.3 | 8783.9 | 8786.8 | 8776.7 | 8778.0 | 8761.9 | 8835.2 |
| 0° | 8769.2 | 8763.3 | 8794.3 | 8807.3 | 8833.7 | 8840.9 | 8814.7 | 8789.7 | 8769.2 | 8732.5 | 8852.8 |
| -1° | 8858.5 | 8855.7 | 8872.0 | 8873.3 | 8886.5 | 8877.7 | 8829.3 | 8789.7 | 8747.2 | 8681.2 | 8708.9 |
| -3° | 8970.1 | 8972.9 | 8968.5 | 8950.9 | 8948.1 | 8904.1 | 8830.8 | 8769.2 | 8695.9 | 8594.7 | 8531.6 |
| -5° | 8942.1 | 8940.8 | 8924.8 | 8901.2 | 8868.9 | 8814.7 | 8722.3 | 8643.1 | 8549.4 | 8435.0 | 8373.4 |
| -7° | 8791.2 | 8795.6 | 8764.8 | 8748.5 | 8678.3 | 8597.8 | 8492.0 | 8396.9 | 8316.2 | 8238.5 | 8210.8 |
| -9° | 8530.3 | 8539.1 | 8493.8 | 8486.3 | 8385.1 | 8295.7 | 8219.6 | 8150.8 | 8108.1 | 8066.9 | 8052.4 |
| -11° | 8169.7 | 8181.3 | 8152.1 | 8168.1 | 8102.4 | 8068.5 | 8033.3 | 7989.3 | 7955.6 | 7921.9 | 7891.1 |
| -13° | 7919.1 | 7924.8 | 7911.6 | 7910.3 | 7883.9 | 7876.4 | 7858.8 | 7833.9 | 7807.5 | 7767.9 | 7726.8 |
| -15° | 7773.9 | 7779.8 | 7767.9 | 7760.7 | 7745.9 | 7741.5 | 7725.5 | 7693.4 | 7657.9 | 7606.7 | 7542.2 |
| -17° | 7634.6 | 7646.3 | 7633.3 | 7624.5 | 7609.7 | 7597.9 | 7586.2 | 7551.0 | 7504.1 | 7444.1 | 7338.5 |
| -19.5° | 7191.9 | 7209.3 | 7194.8 | 7191.9 | 7193.3 | 7200.5 | 7199.2 | 7171.3 | 7153.9 | 7122.9 | 7027.8 |
| -22.5° | 6788.7 | 6796.1 | 6793.1 | 6796.1 | 6800.5 | 6803.4 | 6800.5 | 6788.7 | 6771.3 | 6733.0 | 6634.7 |
| -25.5° | 6599.7 | 6604.1 | 6599.7 | 6601.0 | 6595.3 | 6590.9 | 6579.2 | 6557.0 | 6535.2 | 6495.6 | 6400.3 |
| -29° | 6331.5 | 6337.2 | 6335.9 | 6334.1 | 6328.4 | 6310.8 | 6285.9 | 6255.1 | 6224.6 | 6175.9 | 6085.3 |
| -33° | 6077.6 | 6082.2 | 6079.3 | 6068.8 | 6055.8 | 6035.3 | 6005.9 | 5964.9 | 5917.9 | 5857.8 | 5759.5 |
| -37.5° | 5831.4 | 5824.1 | 5825.7 | 5812.5 | 5797.7 | 5774.4 | 5744.9 | 5708.2 | 5652.5 | 5586.7 | 5492.8 |
| -42.5° | 5478.3 | 5447.5 | 5438.7 | 5385.9 | 5371.1 | 5311.1 | 5291.9 | 5258.3 | 5223.1 | 5230.5 | 5120.5 |
| -47.5° | 3642.7 | 3593.0 | 3609.1 | 3565.1 | 3593.0 | 3562.2 | 3590.1 | 3535.8 | 3544.6 | 3543.1 | 3494.7 |
| -55° | 791.6 | 782.8 | 810.7 | 838.5 | 859.1 | 867.7 | 837.1 | 809.2 | 819.5 | 886.9 | 854.7 |
| -65° | 583.5 | 581.9 | 581.9 | 579.1 | 574.7 | 571.6 | 573.1 | 576.0 | 576.0 | 585.0 | 605.5 |
| -75° | 88.0 | 86.5 | 88.0 | 86.5 | 80.7 | 83.6 | 90.9 | 88.0 | 90.9 | 90.9 | 90.9 |
| -85° | 27.9 | 27.9 | 26.2 | 30.8 | 32.3 | 38.1 | 44.0 | 46.9 | 49.7 | 51.5 | 51.5 |
| -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: NFFLD-C55-D-UNV-66-7050-TS2

CANDELA DISTRIBUTION (continued):

| | 22.5° | 25.5° | 29° | 33° | 37.5° | 42.5° | 47.5° | 55° | 65° | 75° | 85° |
|--------|---------|---------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 29.3 | 29.3 | 30.8 | 30.8 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 30.8 | 32.3 |
| 75° | 10.3 | 11.7 | 13.2 | 16.1 | 17.6 | 20.5 | 20.5 | 23.5 | 26.2 | 29.3 | 32.3 |
| 65° | 5.7 | 4.4 | 4.4 | 4.4 | 5.7 | 7.3 | 11.7 | 16.1 | 22.0 | 26.2 | 30.8 |
| 55° | 52.8 | 35.0 | 16.1 | 14.7 | 14.7 | 13.2 | 11.7 | 13.2 | 22.0 | 26.2 | 30.8 |
| 47.5° | 202.4 | 134.9 | 82.1 | 67.3 | 61.6 | 49.7 | 45.3 | 46.9 | 39.6 | 27.9 | 32.3 |
| 42.5° | 322.5 | 323.9 | 265.3 | 816.7 | 690.6 | 269.7 | 280.1 | 192.1 | 55.7 | 32.3 | 33.9 |
| 37.5° | 5901.8 | 5470.8 | 5346.3 | 5032.5 | 4613.4 | 3349.7 | 3008.0 | 288.9 | 71.9 | 40.9 | 36.7 |
| 33° | 9761.7 | 9315.9 | 8679.7 | 8539.1 | 7807.5 | 6419.3 | 4615.0 | 1608.1 | 89.3 | 48.4 | 38.1 |
| 29° | 10691.0 | 10285.1 | 9873.0 | 9404.2 | 8905.6 | 7855.9 | 5721.6 | 2140.3 | 106.9 | 55.7 | 40.9 |
| 25.5° | 10333.5 | 10022.6 | 9672.4 | 9276.3 | 8981.7 | 8371.9 | 6505.7 | 2522.9 | 124.5 | 66.0 | 42.7 |
| 22.5° | 9770.5 | 9469.9 | 9188.3 | 8916.0 | 8753.1 | 8382.2 | 6812.2 | 2780.9 | 143.7 | 77.7 | 45.3 |
| 19.5° | 9336.6 | 9055.2 | 8801.3 | 8605.1 | 8540.4 | 8216.5 | 6894.3 | 2991.9 | 161.3 | 88.0 | 46.9 |
| 17° | 8983.3 | 8742.8 | 8558.2 | 8436.6 | 8369.0 | 7979.1 | 6887.0 | 3166.4 | 178.9 | 92.4 | 46.9 |
| 15° | 8754.7 | 8536.0 | 8405.5 | 8327.9 | 8206.2 | 7763.8 | 6842.8 | 3320.4 | 193.6 | 96.8 | 48.4 |
| 13° | 8616.7 | 8451.1 | 8347.0 | 8229.7 | 8001.1 | 7540.9 | 6787.3 | 3481.7 | 203.7 | 99.7 | 48.4 |
| 11° | 8539.1 | 8408.6 | 8310.5 | 8093.3 | 7779.8 | 7383.8 | 6740.5 | 3650.2 | 209.7 | 102.5 | 49.7 |
| 9° | 8509.8 | 8376.3 | 8213.7 | 7920.4 | 7619.9 | 7275.6 | 6697.8 | 3839.4 | 213.9 | 105.6 | 49.7 |
| 7° | 8556.7 | 8411.5 | 8166.8 | 7822.3 | 7488.1 | 7199.2 | 6667.0 | 4028.4 | 216.9 | 108.5 | 49.7 |
| 5° | 8597.8 | 8458.3 | 8157.8 | 7718.0 | 7373.7 | 7122.9 | 6637.7 | 4214.5 | 219.8 | 111.5 | 51.5 |
| 3° | 8627.1 | 8485.0 | 8144.6 | 7612.6 | 7275.6 | 7051.1 | 6614.2 | 4387.5 | 221.3 | 112.9 | 51.5 |
| 1° | 8710.5 | 8470.2 | 8102.4 | 7526.1 | 7202.1 | 6998.6 | 6589.3 | 4545.9 | 218.5 | 112.9 | 51.5 |
| 0° | 8654.8 | 8429.1 | 8059.7 | 7489.4 | 7164.0 | 6975.0 | 6577.7 | 4615.0 | 218.5 | 111.5 | 51.5 |
| -1° | 8541.9 | 8374.9 | 8009.9 | 7454.4 | 7130.3 | 6952.8 | 6571.7 | 4683.6 | 216.9 | 111.5 | 51.5 |
| -3° | 8373.4 | 8242.9 | 7905.7 | 7389.7 | 7052.7 | 6891.2 | 6555.7 | 4802.4 | 215.6 | 110.0 | 49.7 |
| -5° | 8228.4 | 8116.9 | 7794.3 | 7298.9 | 6954.3 | 6807.8 | 6513.0 | 4878.5 | 213.9 | 108.5 | 49.7 |
| -7° | 8103.7 | 7955.6 | 7639.0 | 7172.8 | 6842.8 | 6703.7 | 6467.7 | 4925.4 | 212.5 | 106.9 | 49.7 |
| -9° | 7945.3 | 7762.0 | 7439.7 | 7027.8 | 6719.8 | 6577.7 | 6404.7 | 4931.3 | 211.2 | 105.6 | 48.4 |
| -11° | 7769.5 | 7562.7 | 7246.3 | 6876.7 | 6601.0 | 6457.5 | 6324.0 | 4893.3 | 209.7 | 102.5 | 46.9 |
| -13° | 7577.4 | 7351.7 | 7061.5 | 6735.9 | 6478.0 | 6340.1 | 6237.5 | 4802.4 | 208.1 | 102.5 | 46.9 |
| -15° | 7366.4 | 7139.1 | 6872.3 | 6601.0 | 6366.5 | 6209.8 | 6137.9 | 4666.0 | 208.1 | 101.2 | 45.3 |
| -17° | 7139.1 | 6898.7 | 6668.5 | 6448.7 | 6237.5 | 6080.7 | 6023.5 | 4478.5 | 205.1 | 99.7 | 44.0 |
| -19.5° | 6834.2 | 6612.9 | 6426.5 | 6250.7 | 6057.1 | 5915.2 | 5872.5 | 4167.7 | 200.9 | 98.1 | 42.7 |
| -22.5° | 6445.7 | 6239.1 | 6086.4 | 5969.3 | 5841.7 | 5739.0 | 5730.2 | 3757.4 | 193.6 | 95.3 | 40.9 |
| -25.5° | 6228.7 | 6041.1 | 5894.5 | 5768.3 | 5670.1 | 5620.4 | 5604.1 | 3342.4 | 184.6 | 92.4 | 38.1 |
| -29° | 5944.5 | 5784.8 | 5649.7 | 5517.7 | 5432.7 | 5435.8 | 5448.8 | 2859.9 | 177.3 | 86.5 | 36.7 |
| -33° | 5629.2 | 5494.3 | 5357.9 | 5214.3 | 5123.4 | 5130.7 | 5149.8 | 2325.1 | 178.9 | 79.2 | 35.0 |
| -37.5° | 5377.1 | 5248.1 | 5085.3 | 4904.9 | 4752.5 | 4745.2 | 4680.7 | 315.1 | 183.3 | 68.9 | 33.9 |
| -42.5° | 4994.3 | 4941.7 | 4721.9 | 4566.3 | 4284.9 | 4032.8 | 3681.0 | 310.9 | 175.8 | 55.7 | 33.9 |
| -47.5° | 3411.3 | 3342.4 | 3276.4 | 3198.7 | 2939.3 | 2547.9 | 2005.4 | 291.7 | 155.3 | 42.7 | 32.3 |
| -55° | 917.7 | 911.7 | 942.5 | 862.0 | 710.9 | 274.1 | 282.9 | 183.3 | 102.5 | 33.9 | 32.3 |
| -65° | 647.9 | 656.7 | 516.1 | 274.1 | 192.1 | 134.9 | 192.1 | 110.0 | 55.7 | 32.3 | 32.3 |
| -75° | 90.9 | 83.6 | 61.6 | 67.3 | 70.4 | 70.4 | 66.0 | 42.7 | 35.0 | 33.9 | 32.3 |
| -85° | 51.5 | 51.5 | 49.7 | 48.4 | 46.9 | 44.0 | 42.7 | 39.6 | 38.1 | 35.0 | 33.9 |
| -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):

| | 90° |
|--------|-----|
| 90° | 0.0 |
| 85° | 0.0 |
| 75° | 0.0 |
| 65° | 0.0 |
| 55° | 0.0 |
| 47.5° | 0.0 |
| 42.5° | 0.0 |
| 37.5° | 0.0 |
| 33° | 0.0 |
| 29° | 0.0 |
| 25.5° | 0.0 |
| 22.5° | 0.0 |
| 19.5° | 0.0 |
| 17° | 0.0 |
| 15° | 0.0 |
| 13° | 0.0 |
| 11° | 0.0 |
| 9° | 0.0 |
| 7° | 0.0 |
| 5° | 0.0 |
| 3° | 0.0 |
| 1° | 0.0 |
| 0° | 0.0 |
| -1° | 0.0 |
| -3° | 0.0 |
| -5° | 0.0 |
| -7° | 0.0 |
| -9° | 0.0 |
| -11° | 0.0 |
| -13° | 0.0 |
| -15° | 0.0 |
| -17° | 0.0 |
| -19.5° | 0.0 |
| -22.5° | 0.0 |
| -25.5° | 0.0 |
| -29° | 0.0 |
| -33° | 0.0 |
| -37.5° | 0.0 |
| -42.5° | 0.0 |
| -47.5° | 0.0 |
| -55° | 0.0 |
| -65° | 0.0 |
| -75° | 0.0 |
| -85° | 0.0 |
| -90° | 0.0 |

(END OF REPORT)