

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: P958825

Luminaire Tested: **NFFLD-C70-D-UNV-66-VS-8040**

Issue Date: 2/3/2025



Test Information

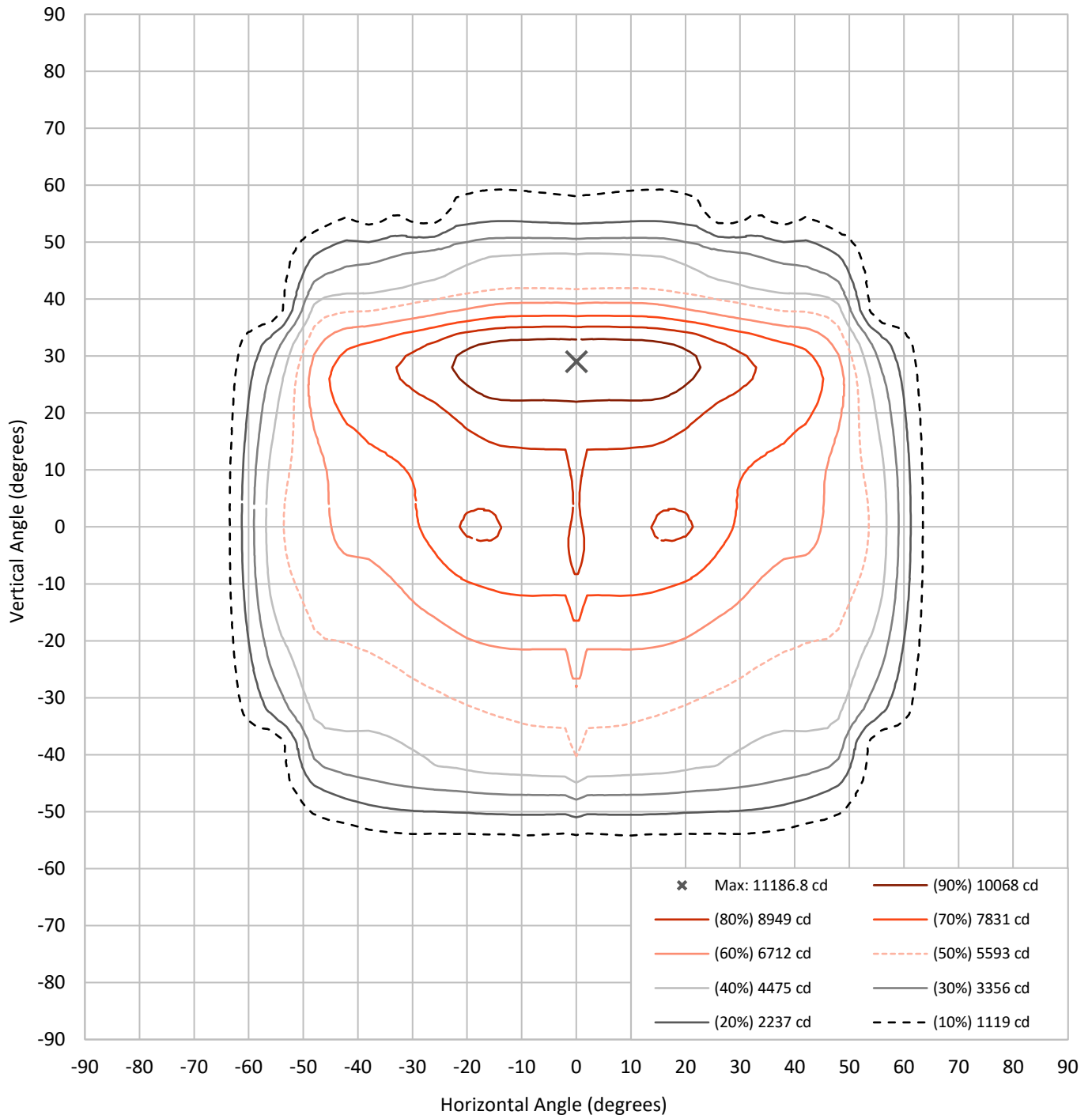
Test Method: LM-79-08
Report Number: P958825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P393783)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C70-D-UNV-66-VS-8040
Description: FLOODLIGHT WITH VANDAL SHIELD
Light Source: (2) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	20286 lumens	Max Intensity:	11186.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	110.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.3' x L: 0.62' x H: 0')		
Beam Angle (50%):	101.4°H x 82°V	Field Angle (10%):	124.2°H x 112.1°V
Beam Lumens:	14662.2 lumens	Field Lumens:	19631.2 lumens
Beam Efficiency:	72.3%	Field Efficiency:	96.8%
Input Watts (W):	184		
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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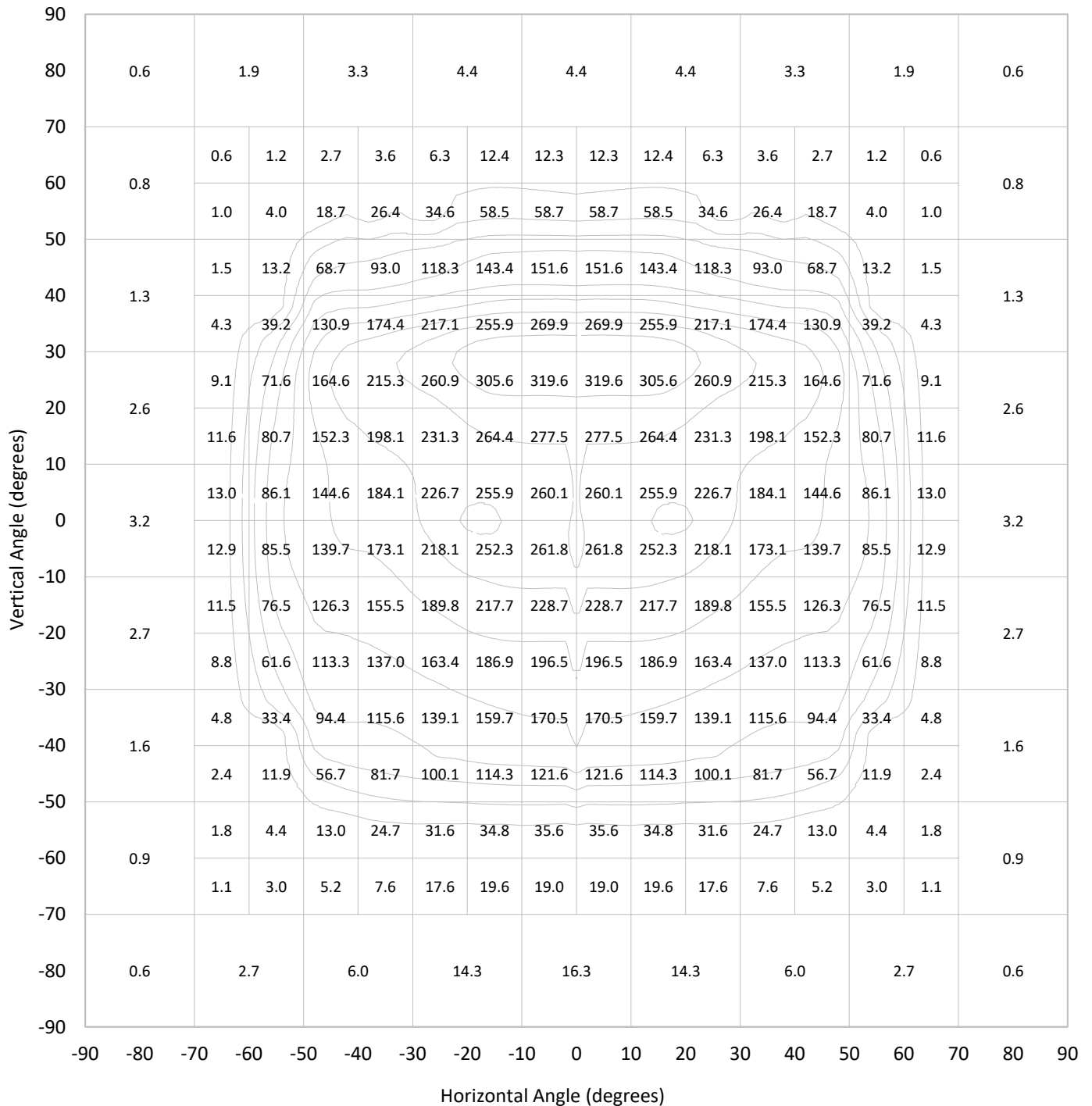
Iso-Candela Plot





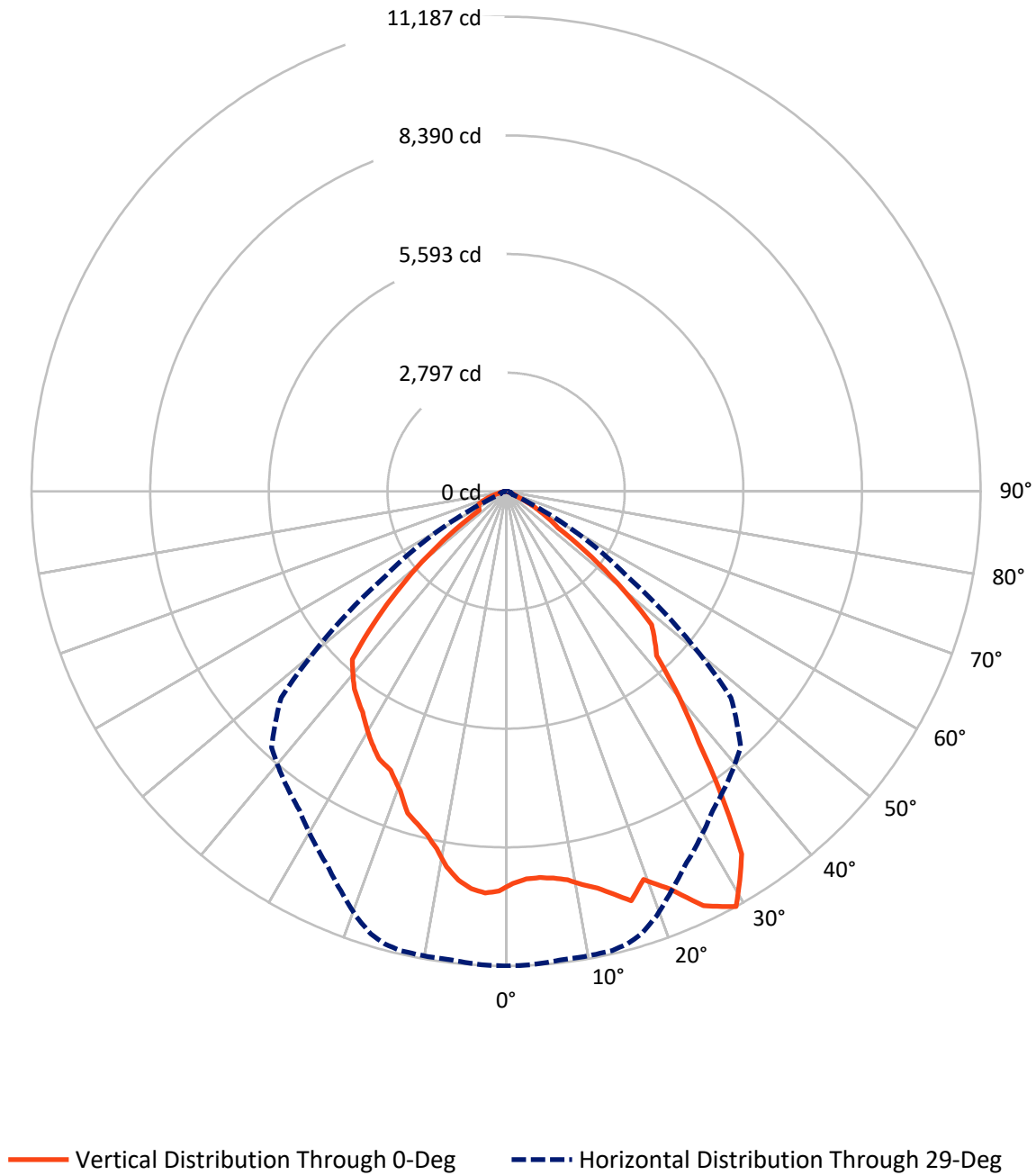
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Lumen Table



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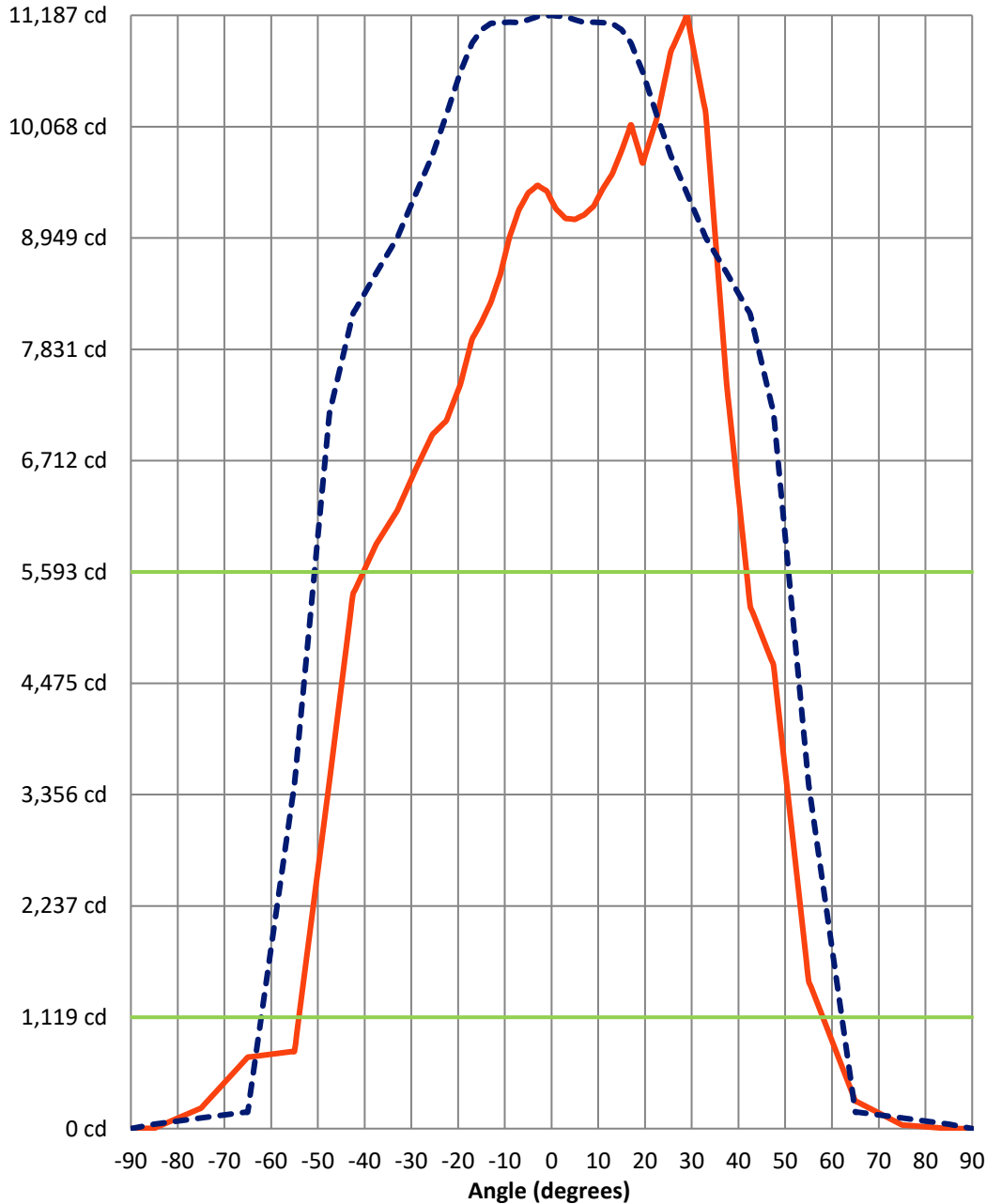
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 101.4°
 V Angle: 82°
 Lumens: 14662.2
 Efficiency: 72.3%

Field:
 H Angle: 124.2°
 V Angle: 112.1°
 Lumens: 19631.2
 Efficiency: 96.8%

Spill:
 Lumens: 654.8
 Efficiency: 3.2%

— 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	4.8	11.3	12.7	16.1	20.9	25.7	31.9	33.6	35.3	36.9
75°	36.9	36.9	35.3	31.9	28.6	31.9	33.6	33.6	31.9	25.7	22.3
65°	278.4	278.4	280.0	275.2	264.2	257.7	251.2	260.9	280.0	296.1	276.7
55°	1488.3	1526.4	1525.0	1597.1	1625.9	1678.5	1725.0	1739.5	1742.6	1694.6	1587.4
47.5°	4655.0	4693.4	4680.5	4685.3	4653.3	4637.2	4606.8	4586.1	4573.3	4512.4	4293.3
42.5°	5251.8	5280.6	5302.9	5328.7	5341.4	5347.8	5346.2	5320.5	5250.1	5120.7	4997.3
37.5°	7466.5	7540.0	7543.2	7544.9	7511.2	7487.5	7501.6	7456.7	7386.6	7268.0	7060.0
33°	10196.5	10207.5	10245.9	10242.8	10245.9	10175.5	10191.6	10129.2	10018.8	9890.7	9694.0
29°	11186.8	11180.3	11174.1	11142.2	11114.8	11117.9	11113.1	11105.2	11041.3	10906.8	10617.2
25.5°	10817.3	10793.3	10783.6	10729.4	10702.0	10737.2	10751.7	10737.2	10681.3	10529.3	10245.9
22.5°	10146.7	10129.2	10113.1	10092.2	10087.7	10102.1	10103.5	10103.5	10074.7	9965.9	9730.8
19.5°	9701.7	9690.7	9684.4	9663.6	9663.6	9673.2	9661.9	9628.3	9580.4	9500.2	9310.0
17°	10086.7	9330.7	9321.0	9312.9	9300.4	9300.4	9305.0	9271.6	9225.0	9143.3	8967.3
15°	9827.3	9089.1	9093.9	9079.4	9082.9	9068.1	9060.3	9039.6	8994.7	8893.9	8730.5
13°	9594.2	8879.4	8887.6	8877.7	8881.1	8866.5	8849.1	8837.7	8802.6	8708.2	8561.0
11°	9445.6	8740.1	8736.7	8740.1	8738.7	8736.7	8717.8	8693.8	8647.5	8548.3	8418.5
9°	9269.2	8576.8	8580.1	8584.9	8583.3	8581.9	8569.1	8553.0	8516.3	8437.8	8335.2
7°	9182.9	8508.1	8503.4	8509.6	8509.6	8511.5	8524.2	8535.2	8553.0	8551.3	8461.8
5°	9136.2	8461.8	8461.8	8469.7	8477.6	8498.6	8546.5	8610.4	8695.4	8764.4	8685.9
3°	9146.5	8468.0	8477.6	8493.7	8519.4	8562.6	8649.1	8764.4	8917.8	9009.1	8937.0
1°	9239.9	8561.0	8591.4	8623.4	8661.6	8703.4	8777.1	8872.9	9041.0	9141.9	9226.7
0°	9324.7	8645.8	8658.7	8700.2	8727.4	8764.4	8810.5	8887.6	9039.6	9130.6	9260.1
-1°	9419.6	8713.0	8735.5	8754.8	8772.1	8799.4	8826.5	8882.6	9009.1	9081.2	9146.8
-3°	9478.5	8785.1	8788.1	8789.9	8810.5	8810.5	8812.2	8852.3	8919.5	8940.2	8809.0
-5°	9400.5	8708.2	8701.9	8703.4	8717.8	8714.7	8688.9	8708.2	8701.9	8637.8	8500.2
-7°	9229.5	8551.3	8541.8	8537.0	8546.5	8501.9	8457.0	8440.9	8380.1	8313.1	8207.2
-9°	8956.4	8314.3	8285.8	8282.4	8261.7	8223.3	8169.0	8144.7	8085.6	8028.0	7940.2
-11°	8576.5	7970.5	7952.9	7962.5	7959.3	7959.3	7928.9	7909.9	7848.9	7773.7	7680.8
-13°	8301.6	7705.1	7698.6	7701.6	7714.6	7735.2	7712.7	7696.9	7634.4	7556.2	7466.5
-15°	8102.9	7523.9	7522.3	7520.8	7533.6	7549.7	7532.1	7512.9	7450.5	7370.5	7268.0
-17°	7931.7	7356.1	7360.9	7356.1	7354.4	7354.4	7335.2	7314.6	7253.5	7167.1	7052.0
-19.5°	7478.9	6941.6	6944.9	6941.6	6938.4	6939.9	6946.4	6920.6	6880.8	6826.6	6743.2
-22.5°	7114.5	6591.2	6594.3	6597.7	6597.7	6600.8	6599.3	6579.9	6547.9	6509.5	6418.3
-25.5°	6972.9	6458.4	6459.8	6461.4	6453.6	6451.9	6432.6	6405.5	6364.0	6325.6	6234.3
-29°	6630.6	6147.8	6149.6	6143.0	6141.6	6125.5	6096.7	6055.1	6013.6	5976.9	5887.0
-33°	6210.7	5759.0	5757.3	5743.0	5741.5	5715.8	5680.7	5634.3	5584.4	5519.1	5416.8
-37.5°	5873.8	5440.5	5439.1	5427.8	5419.7	5399.0	5363.8	5315.9	5253.5	5181.4	5083.7
-42.5°	5365.7	4968.6	4944.4	4922.1	4901.4	4854.8	4832.5	4799.1	4768.6	4744.5	4632.4
-47.5°	3497.4	3230.9	3200.3	3217.9	3210.0	3197.0	3206.6	3194.1	3165.1	3131.5	3064.2
-55°	777.5	721.7	739.2	781.0	816.3	835.3	829.0	785.8	787.3	824.0	771.4
-65°	717.1	665.7	668.8	673.7	673.7	675.3	691.2	710.4	721.7	742.6	760.1
-75°	205.7	193.5	195.3	191.9	189.0	193.5	200.0	195.3	196.7	196.7	179.2
-85°	3.6	8.0	16.1	22.3	27.1	33.6	38.2	43.2	44.6	44.6	44.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P958825

CATALOG NUMBER: NFFLD-C70-D-UNV-66-VS-8040

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°	36.9	36.9	36.9	36.9	36.9	36.9	35.3	35.3	35.3	35.3	35.3
75°	22.3	25.7	30.5	43.2	44.6	43.2	31.9	33.6	35.3	33.6	35.3
65°	217.6	137.6	88.2	68.9	57.6	68.9	63.9	54.3	46.6	33.6	33.6
55°	1441.7	350.4	337.6	1113.6	336.0	985.8	264.2	156.9	73.5	33.6	35.3
47.5°	4101.4	3880.5	3677.1	3429.3	3179.5	3017.8	2434.0	273.8	92.7	40.1	36.9
42.5°	4824.6	4581.3	4456.4	4221.3	3944.4	3952.5	3710.9	304.0	99.2	54.3	38.2
37.5°	6839.0	6589.5	6304.9	6031.1	5730.2	5664.6	5261.4	341.0	107.1	72.0	40.1
33°	9404.4	8946.6	8548.3	8193.1	7756.2	7442.5	6458.4	2760.4	135.9	89.5	41.6
29°	10186.8	9780.2	9396.2	8953.1	8597.7	8184.9	7191.3	3464.5	168.1	107.1	44.6
25.5°	9879.4	9554.7	9228.1	8865.0	8615.5	8336.9	7464.9	3946.1	198.6	123.2	48.1
22.5°	9385.2	9066.7	8802.6	8553.0	8397.9	8186.6	7306.3	4251.8	223.8	137.6	49.4
19.5°	8970.7	8682.5	8457.0	8276.1	8205.7	7952.9	7039.3	4491.7	252.9	150.4	52.9
17°	8665.0	8408.9	8221.9	8119.4	8050.4	7690.4	6844.1	4679.0	278.4	159.9	54.3
15°	8463.5	8237.7	8093.9	8018.4	7911.4	7474.5	6707.9	4819.7	300.7	166.4	54.3
13°	8336.9	8160.8	8053.7	7927.2	7733.6	7266.5	6596.0	4952.5	320.1	171.2	56.2
11°	8248.7	8121.0	8018.4	7800.9	7529.0	7127.2	6525.6	5069.5	334.3	174.4	56.2
9°	8199.3	8071.3	7927.2	7647.4	7372.0	7032.8	6501.6	5179.8	345.6	177.7	57.6
7°	8271.3	8095.3	7880.8	7562.6	7266.5	7005.7	6503.0	5264.8	352.1	179.2	57.6
5°	8399.4	8156.0	7882.5	7481.0	7186.3	6987.9	6506.4	5328.7	352.1	180.8	57.6
3°	8557.6	8220.2	7884.1	7399.3	7117.6	6967.2	6509.5	5368.8	353.5	180.8	57.6
1°	8740.1	8218.5	7852.0	7325.6	7053.7	6935.3	6496.8	5382.9	347.2	177.7	57.6
0°	8759.3	8184.9	7812.1	7287.2	7018.4	6914.2	6485.5	5384.9	345.6	176.0	57.6
-1°	8717.8	8128.9	7765.5	7249.0	6980.0	6890.5	6475.9	5382.9	345.6	174.4	57.6
-3°	8397.9	7986.5	7650.5	7165.7	6885.6	6824.8	6453.6	5359.1	345.6	169.6	57.6
-5°	8164.3	7831.4	7514.3	7052.0	6762.4	6712.7	6408.9	5312.6	347.2	166.4	56.2
-7°	7948.0	7653.7	7348.2	6909.6	6626.5	6570.2	6333.5	5243.8	345.6	164.7	56.2
-9°	7730.5	7471.3	7164.0	6762.4	6485.5	6395.9	6234.3	5146.2	341.0	161.6	56.2
-11°	7511.2	7271.3	6975.2	6608.7	6352.7	6234.3	6114.2	5022.9	334.3	159.9	54.3
-13°	7308.1	7069.5	6789.5	6468.0	6223.0	6085.4	5989.6	4877.4	326.4	156.9	52.9
-15°	7087.3	6847.2	6603.9	6328.7	6104.7	5936.8	5864.5	4712.7	313.6	155.1	51.1
-17°	6850.3	6608.7	6391.2	6171.9	5970.4	5800.6	5736.7	4527.0	300.7	153.7	51.1
-19.5°	6544.8	6330.3	6149.6	5981.4	5789.3	5634.3	5579.9	4261.4	280.0	148.6	49.4
-22.5°	6216.8	6002.3	5858.2	5730.2	5565.4	5455.0	5450.2	3936.4	251.2	144.1	46.6
-25.5°	6050.3	5871.2	5723.7	5546.3	5376.4	5323.9	5315.9	3589.2	225.8	135.9	44.6
-29°	5728.8	5582.9	5448.8	5248.7	5096.7	5104.6	5112.5	3125.2	206.3	126.3	41.6
-33°	5277.3	5157.4	5019.8	4831.0	4728.5	4751.0	4728.5	2525.0	198.6	110.5	40.1
-37.5°	4955.7	4821.2	4656.7	4461.5	4315.6	4319.0	4195.6	348.9	190.5	91.3	38.2
-42.5°	4488.6	4448.5	4232.6	4066.2	3819.8	3619.5	3221.3	341.0	184.0	68.9	36.9
-47.5°	3006.8	2958.8	2909.3	2803.7	2609.8	2280.3	1744.0	297.5	174.4	46.6	36.9
-55°	795.4	777.7	832.2	776.0	673.7	329.7	315.3	179.2	145.8	35.3	35.3
-65°	785.8	756.7	539.1	283.4	206.3	227.1	291.0	184.0	68.9	35.3	35.3
-75°	131.4	80.0	48.1	52.9	65.6	97.5	94.4	48.1	38.2	35.3	35.3
-85°	44.6	43.2	43.2	41.6	40.1	40.1	38.2	36.9	36.9	35.3	35.3
-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-C70-D-UNV-66-VS-8040

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)