

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: P393754

Luminaire Tested: **NFFLD-C40-D-UNV-66-7060-TS2**

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393754  
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-C40-D-UNV-66-7060-TS2  
Description: FLOODLIGHT WITH TOP AND SIDE VISORS  
Light Source: (2) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

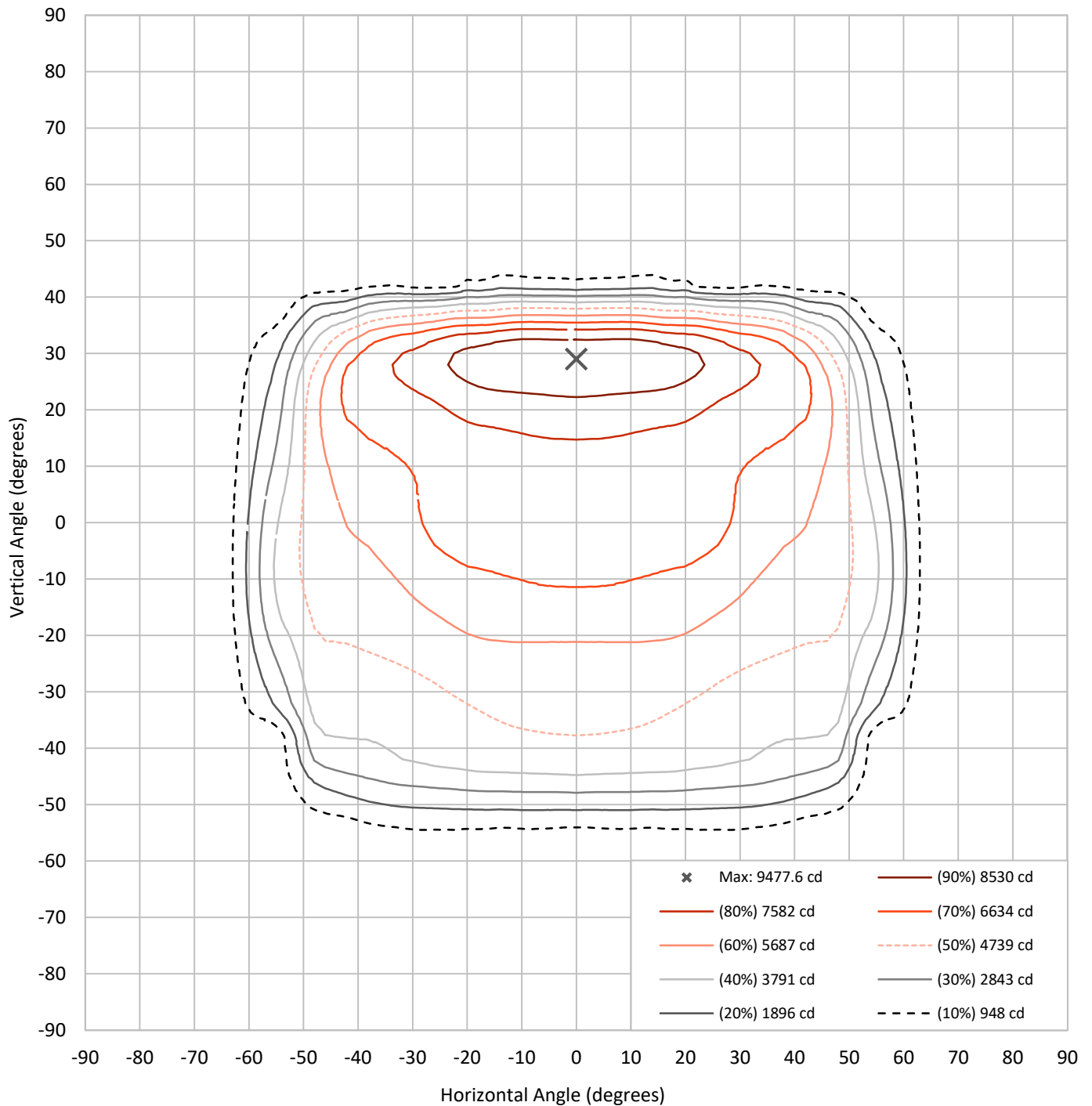
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	15443 lumens	Max Intensity:	9477.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	121.0 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	94.6°H x 75.7°V	Field Angle (10%):	119.6°H x 96.4°V
Beam Lumens:	11411.1 lumens	Field Lumens:	15044.1 lumens
Beam Efficiency:	73.9%	Field Efficiency:	97.4%
Input Watts (W):	127.6		
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		



REPORT NUMBER: P393754

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7060-TS2

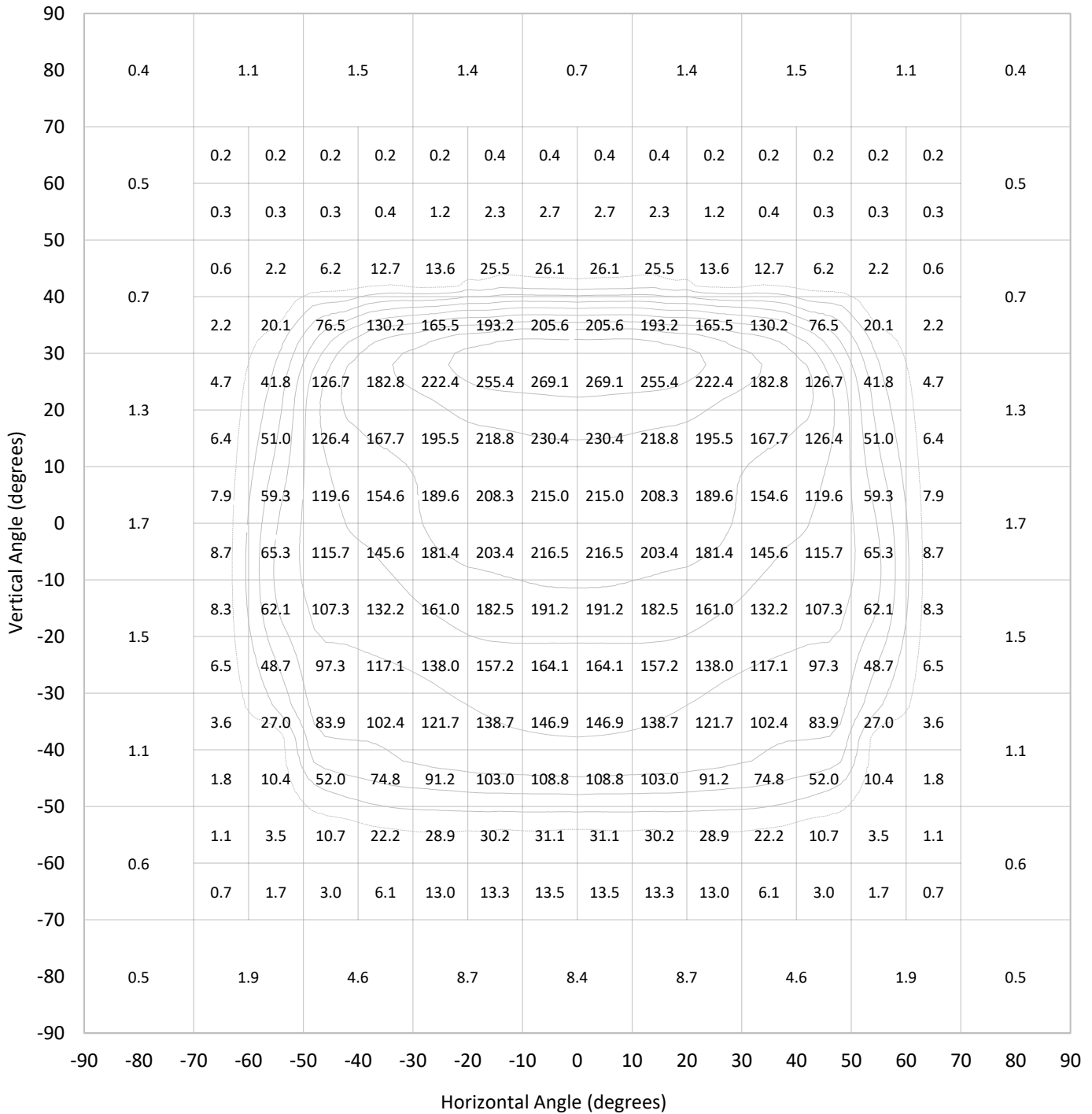
### Iso-Candela Plot





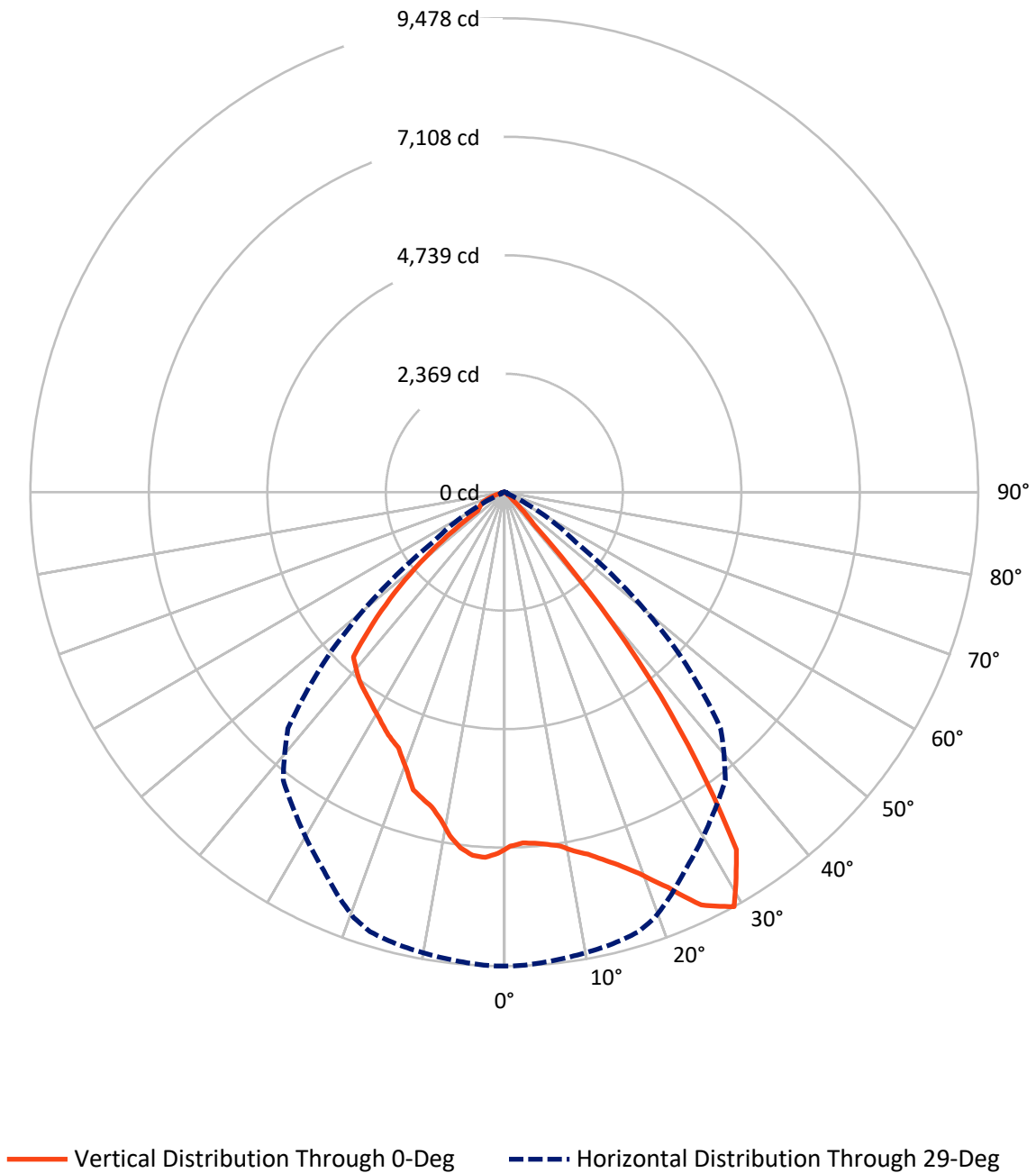
REPORT NUMBER: P393754  
 CATALOG NUMBER: NFFLD-C40-D-UNV-66-7060-TS2

### Lumen Table



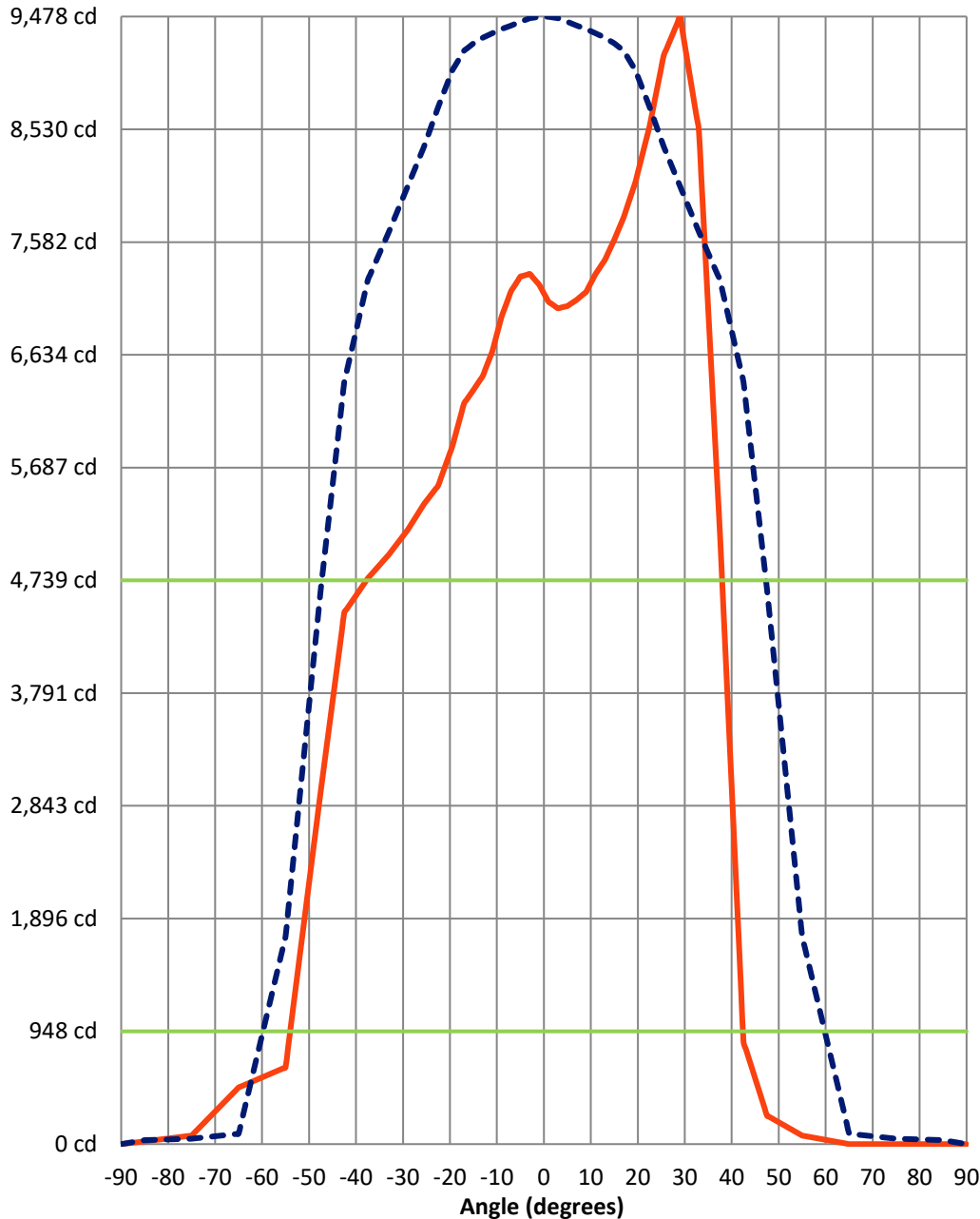
REPORT NUMBER: P393754  
CATALOG NUMBER: NFFLD-C40-D-UNV-66-7060-TS2

### Luminous Intensity Polar Plot



REPORT NUMBER: P393754  
 CATALOG NUMBER: NFFLD-C40-D-UNV-66-7060-TS2

### Luminous Intensity Plot



**Beam:**  
 H Angle: 94.6°  
 V Angle: 75.7°  
 Lumens: 11411.1  
 Efficiency: 73.9%

**Field:**  
 H Angle: 119.6°  
 V Angle: 96.4°  
 Lumens: 15044.1  
 Efficiency: 97.4%

**Spill:**  
 Lumens: 398.9  
 Efficiency: 2.6%

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



REPORT NUMBER: P393754

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7060-TS2

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	3.6	8.4	8.4	9.5	12.0	15.6	17.9	20.3	21.3	22.8
75°	0.0	1.3	3.6	5.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2
65°	0.0	0.0	2.5	3.6	4.7	4.7	5.9	5.9	5.9	5.9	4.7
55°	71.8	69.2	71.8	71.8	71.8	70.5	65.8	59.7	56.2	57.4	52.6
47.5°	240.2	241.5	239.1	234.3	232.0	229.5	224.6	219.9	209.2	204.5	200.7
42.5°	861.8	945.4	925.3	999.3	971.8	1041.1	1142.8	1226.5	1231.2	674.2	1002.8
37.5°	5123.3	5143.5	5160.2	5207.9	5186.6	5211.7	5161.5	5057.4	4898.5	4833.9	4865.1
33°	8519.1	8480.9	8497.6	8551.6	8586.0	8626.7	8567.0	8459.4	8261.0	8122.3	8056.6
29°	9477.6	9475.3	9463.5	9433.5	9401.4	9372.7	9336.8	9299.7	9251.8	9189.7	9024.8
25.5°	9147.9	9132.3	9109.7	9060.7	9035.6	9011.6	8976.9	8942.3	8889.7	8815.7	8659.0
22.5°	8555.0	8545.5	8532.4	8490.4	8457.0	8430.7	8396.0	8380.4	8343.5	8300.4	8191.5
19.5°	8087.7	8078.1	8079.2	8059.0	8036.2	8002.8	7960.8	7922.6	7891.6	7869.0	7807.8
17°	7791.1	7776.8	7779.3	7773.3	7750.6	7712.4	7674.0	7622.7	7580.9	7555.6	7505.7
15°	7602.4	7591.4	7595.2	7581.9	7557.0	7519.9	7482.7	7437.3	7394.3	7345.3	7294.0
13°	7432.7	7421.7	7424.2	7412.2	7387.1	7358.4	7329.7	7287.9	7255.6	7209.0	7155.3
11°	7313.0	7305.8	7298.7	7291.5	7268.9	7241.4	7216.1	7181.5	7154.1	7112.3	7072.8
9°	7163.8	7168.4	7161.2	7157.7	7141.0	7117.1	7096.7	7072.8	7056.1	7032.3	7019.0
7°	7096.7	7100.4	7093.2	7089.5	7077.5	7064.4	7045.3	7030.8	7030.8	7034.6	7044.3
5°	7044.3	7047.7	7045.3	7046.4	7047.7	7041.8	7035.7	7039.2	7062.0	7081.2	7087.0
3°	7025.1	7026.2	7034.6	7042.8	7054.9	7065.6	7078.7	7100.4	7127.7	7128.9	7119.4
1°	7080.0	7077.5	7102.6	7124.3	7145.6	7162.5	7164.8	7156.6	7157.7	7144.6	7204.3
0°	7150.5	7145.6	7170.9	7181.5	7203.0	7209.0	7187.6	7167.2	7150.5	7120.5	7218.6
-1°	7223.3	7221.0	7234.3	7235.3	7246.1	7238.9	7199.5	7167.2	7132.5	7078.7	7101.3
-3°	7314.3	7316.6	7313.0	7298.7	7296.3	7260.4	7200.7	7150.5	7090.7	7008.2	6956.7
-5°	7291.5	7290.4	7277.3	7258.1	7231.7	7187.6	7112.3	7047.7	6971.3	6878.0	6827.7
-7°	7168.4	7172.0	7146.9	7133.6	7076.4	7010.7	6924.4	6846.9	6781.1	6717.8	6695.2
-9°	6955.6	6962.8	6925.9	6919.8	6837.2	6764.4	6702.3	6646.2	6611.4	6577.8	6566.0
-11°	6661.6	6671.1	6647.3	6660.4	6606.7	6579.1	6550.4	6514.5	6487.1	6459.6	6434.5
-13°	6457.3	6461.9	6451.2	6450.1	6428.6	6422.5	6408.1	6387.9	6366.3	6334.0	6300.5
-15°	6338.9	6343.7	6334.0	6328.1	6316.1	6312.5	6299.4	6273.2	6244.3	6202.5	6150.0
-17°	6225.3	6234.8	6224.2	6217.1	6205.0	6195.4	6185.8	6157.1	6118.9	6070.0	5983.8
-19.5°	5864.4	5878.5	5866.7	5864.4	5865.4	5871.4	5870.3	5847.5	5833.3	5808.0	5730.5
-22.5°	5535.5	5541.6	5539.1	5541.6	5545.2	5547.5	5545.2	5535.5	5521.4	5490.1	5409.9
-25.5°	5381.4	5385.0	5381.4	5382.5	5377.8	5374.2	5364.7	5346.6	5328.9	5296.6	5218.9
-29°	5162.7	5167.4	5166.3	5164.9	5160.2	5145.9	5125.6	5100.5	5075.5	5035.9	4962.0
-33°	4955.7	4959.5	4957.1	4948.5	4938.0	4921.3	4897.2	4863.9	4825.5	4776.5	4696.3
-37.5°	4755.0	4749.0	4750.3	4739.5	4727.5	4708.5	4684.5	4654.5	4609.1	4555.5	4478.9
-42.5°	4467.0	4441.9	4434.7	4391.7	4379.7	4330.7	4315.1	4287.6	4258.9	4265.0	4175.3
-47.5°	2970.3	2929.8	2942.9	2907.0	2929.8	2904.6	2927.4	2883.1	2890.3	2889.0	2849.6
-55°	645.5	638.3	661.1	683.7	700.6	707.5	682.6	659.8	668.3	723.2	697.0
-65°	475.8	474.5	474.5	472.2	468.6	466.1	467.3	469.7	469.7	477.0	493.7
-75°	71.8	70.5	71.8	70.5	65.8	68.2	74.1	71.8	74.1	74.1	74.1
-85°	22.8	22.8	21.3	25.1	26.4	31.0	35.9	38.2	40.5	42.0	42.0
-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: P393754

CATALOG NUMBER: NFFLD-C40-D-UNV-66-7060-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°	23.9	23.9	25.1	25.1	23.9	23.9	23.9	23.9	23.9	25.1	26.4
75°	8.4	9.5	10.8	13.1	14.4	16.7	16.7	19.2	21.3	23.9	26.4
65°	4.7	3.6	3.6	3.6	4.7	5.9	9.5	13.1	17.9	21.3	25.1
55°	43.1	28.5	13.1	12.0	12.0	10.8	9.5	10.8	17.9	21.3	25.1
47.5°	165.0	110.0	66.9	54.9	50.2	40.5	37.0	38.2	32.3	22.8	26.4
42.5°	263.0	264.1	216.4	665.9	563.1	219.9	228.4	156.6	45.4	26.4	27.6
37.5°	4812.4	4460.9	4359.4	4103.6	3761.8	2731.3	2452.7	235.6	58.7	33.4	30.0
33°	7959.7	7596.3	7077.5	6962.8	6366.3	5234.3	3763.1	1311.2	72.8	39.5	31.0
29°	8717.5	8386.5	8050.5	7668.2	7261.7	6405.8	4665.4	1745.2	87.2	45.4	33.4
25.5°	8426.0	8172.5	7886.9	7564.0	7323.8	6826.5	5304.8	2057.2	101.5	53.8	34.8
22.5°	7966.9	7721.9	7492.2	7270.1	7137.4	6834.9	5554.7	2267.6	117.1	63.3	37.0
19.5°	7613.1	7383.7	7176.7	7016.6	6963.9	6699.8	5621.6	2439.6	131.5	71.8	38.2
17°	7325.0	7128.9	6978.4	6879.2	6824.1	6506.3	5615.7	2581.9	145.9	75.3	38.2
15°	7138.6	6960.3	6853.9	6790.6	6691.4	6330.6	5579.7	2707.5	157.9	78.9	39.5
13°	7026.2	6891.1	6806.2	6710.6	6524.2	6148.9	5534.5	2839.0	166.1	81.3	39.5
11°	6962.8	6856.4	6776.4	6599.4	6343.7	6020.8	5496.2	2976.4	171.0	83.6	40.5
9°	6939.0	6830.1	6697.5	6458.4	6213.3	5932.5	5461.4	3130.7	174.4	86.1	40.5
7°	6977.2	6858.8	6659.3	6378.3	6105.8	5870.3	5436.3	3284.8	176.9	88.4	40.5
5°	7010.7	6897.0	6651.9	6293.3	6012.5	5808.0	5412.5	3436.6	179.2	91.0	42.0
3°	7034.6	6918.7	6641.2	6207.4	5932.5	5749.6	5393.3	3577.6	180.5	92.0	42.0
1°	7102.6	6906.7	6606.7	6136.9	5872.6	5706.7	5373.0	3706.7	178.1	92.0	42.0
0°	7057.2	6873.1	6571.9	6106.9	5841.6	5687.5	5363.5	3763.1	178.1	91.0	42.0
-1°	6965.2	6829.0	6531.4	6078.4	5814.1	5669.4	5358.6	3819.0	176.9	91.0	42.0
-3°	6827.7	6721.4	6446.3	6025.6	5750.8	5619.1	5345.5	3915.9	175.8	89.7	40.5
-5°	6709.5	6618.6	6355.6	5951.6	5670.6	5551.1	5310.7	3978.0	174.4	88.4	40.5
-7°	6607.8	6487.1	6228.9	5848.8	5579.7	5466.3	5273.8	4016.2	173.3	87.2	40.5
-9°	6478.6	6329.2	6066.4	5730.5	5479.4	5363.5	5222.5	4021.0	172.2	86.1	39.5
-11°	6335.3	6166.7	5908.7	5607.3	5382.5	5265.5	5156.6	3990.0	171.0	83.6	38.2
-13°	6178.7	5994.6	5758.0	5492.5	5282.2	5169.7	5086.1	3915.9	169.7	83.6	38.2
-15°	6006.6	5821.3	5603.7	5382.5	5191.3	5063.5	5004.9	3804.7	169.7	82.5	37.0
-17°	5821.3	5625.2	5437.6	5258.4	5086.1	4958.2	4911.6	3651.8	167.2	81.3	35.9
-19.5°	5572.7	5392.2	5240.2	5096.9	4939.0	4823.3	4788.5	3398.4	163.8	80.0	34.8
-22.5°	5255.8	5087.4	4962.9	4867.4	4763.4	4679.6	4672.4	3063.8	157.9	77.7	33.4
-25.5°	5079.0	4925.9	4806.5	4703.5	4623.5	4582.9	4569.6	2725.4	150.5	75.3	31.0
-29°	4847.2	4716.9	4606.8	4499.1	4429.9	4432.4	4443.0	2332.0	144.6	70.5	30.0
-33°	4590.1	4480.1	4368.9	4251.8	4177.7	4183.6	4199.2	1895.9	145.9	64.6	28.5
-37.5°	4384.5	4279.4	4146.6	3999.5	3875.2	3869.3	3816.7	256.9	149.4	56.2	27.6
-42.5°	4072.4	4029.5	3850.3	3723.4	3494.0	3288.4	3001.5	253.5	143.3	45.4	27.6
-47.5°	2781.6	2725.4	2671.6	2608.3	2396.8	2077.6	1635.2	237.9	126.7	34.8	26.4
-55°	748.3	743.4	768.5	702.9	579.6	223.5	230.7	149.4	83.6	27.6	26.4
-65°	528.3	535.5	420.9	223.5	156.6	110.0	156.6	89.7	45.4	26.4	26.4
-75°	74.1	68.2	50.2	54.9	57.4	57.4	53.8	34.8	28.5	27.6	26.4
-85°	42.0	42.0	40.5	39.5	38.2	35.9	34.8	32.3	31.0	28.5	27.6
-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: P393754

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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)