

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: P393757

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

Issue Date: 3/31/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393757  
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-TS2  
Description: FLOODLIGHT WITH TOP AND SIDE VISORS  
Light Source: (2) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

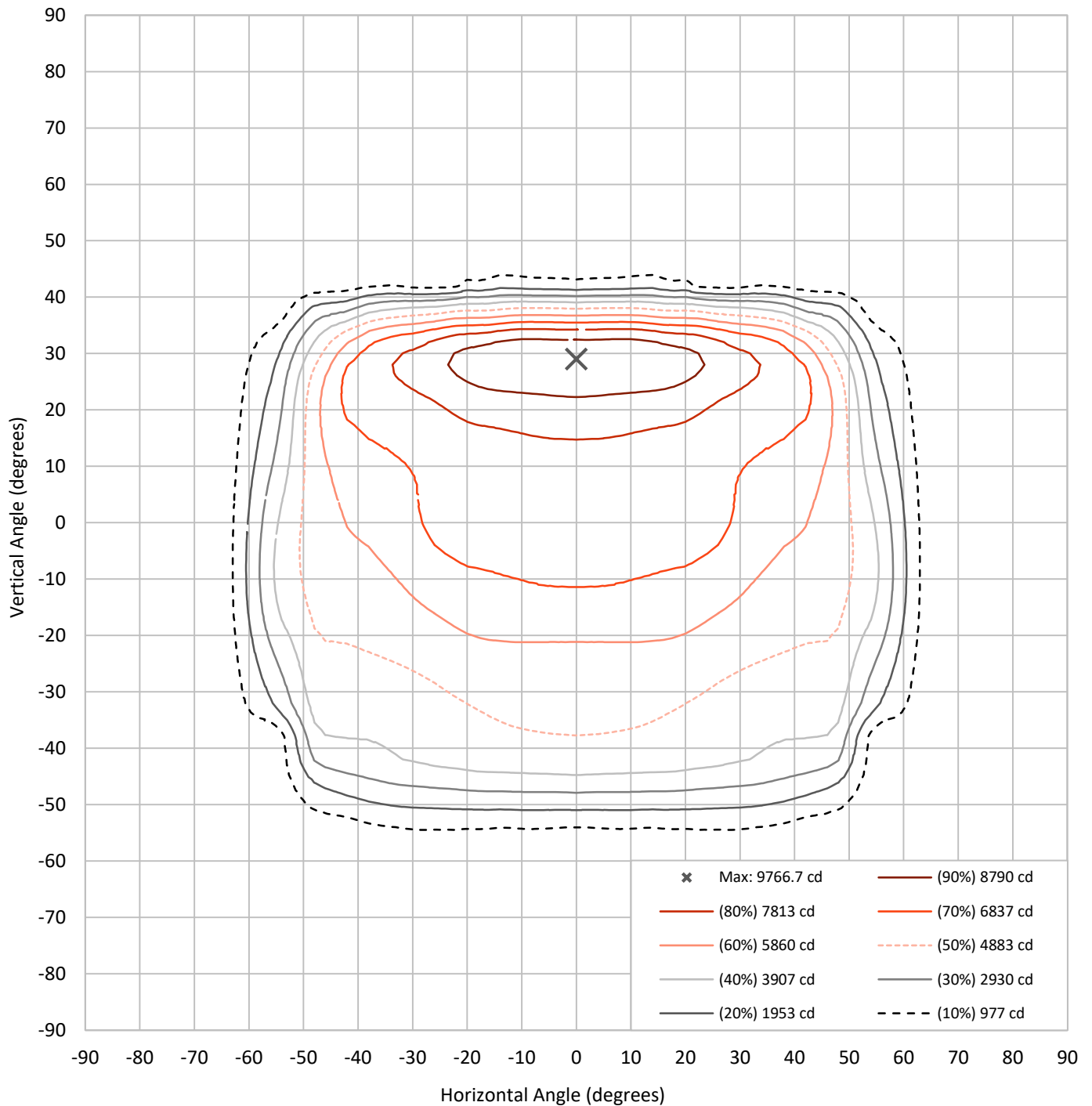
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	15914 lumens	Max Intensity:	9766.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 29°V
Efficacy:	124.7 lumens/watt		
Luminous Opening:	(L: 1.33 ' x W: 0 ' x H: 0.67 ')		
Beam Angle (50%):	94.6°H x 75.7°V	Field Angle (10%):	119.6°H x 96.4°V
Beam Lumens:	11759.2 lumens	Field Lumens:	15502.9 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		



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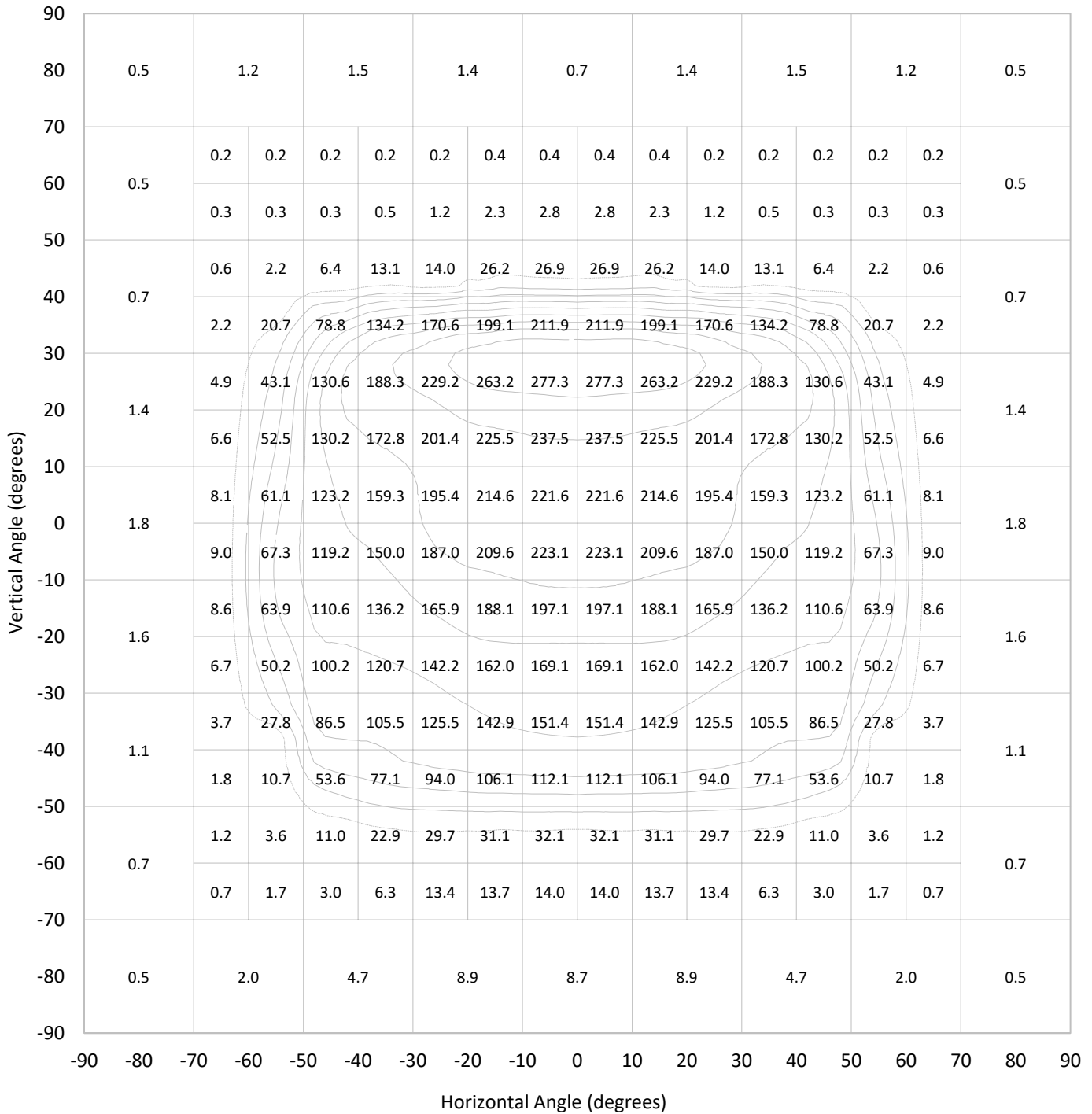
### Iso-Candela Plot





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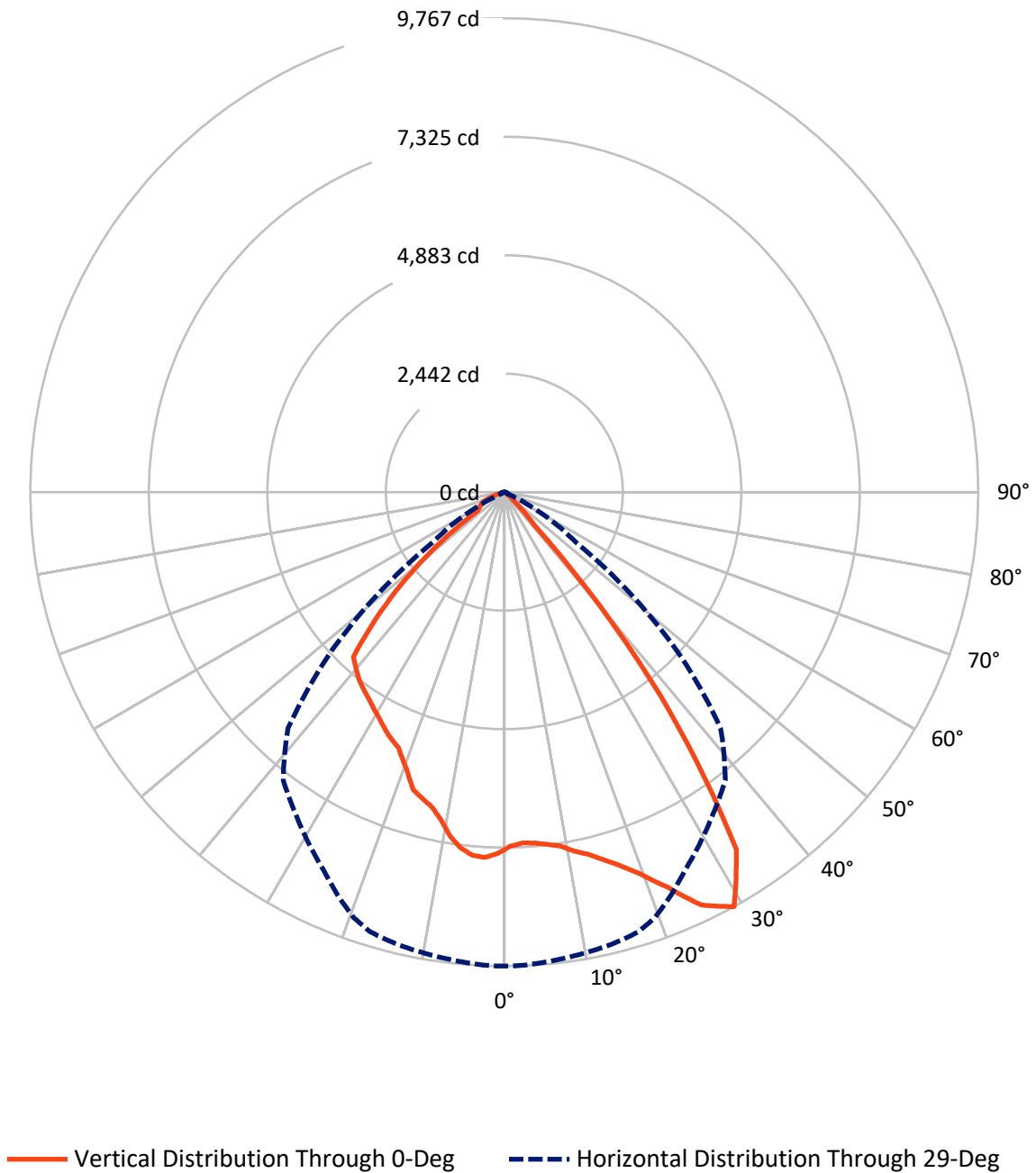
### Lumen Table



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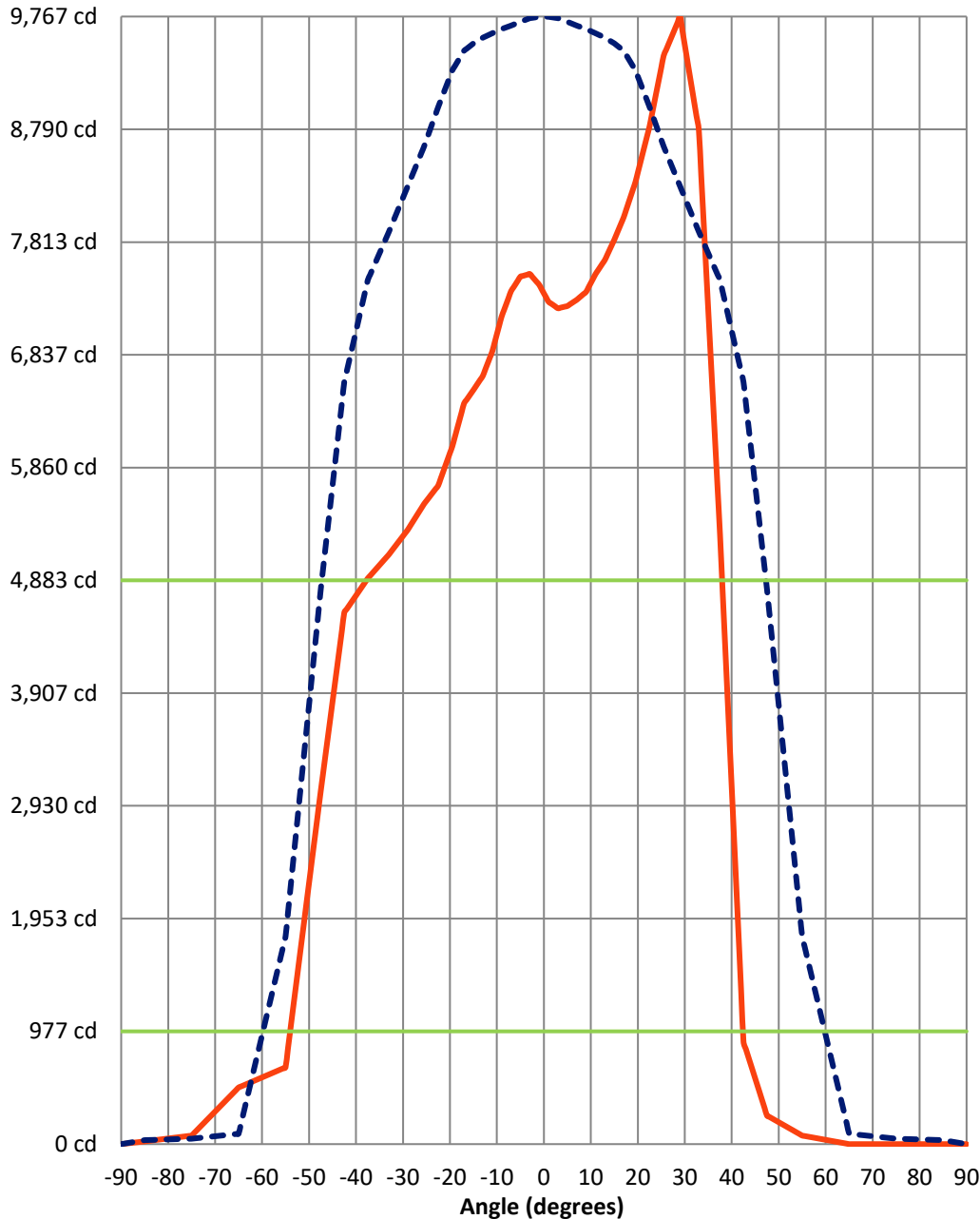
### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 94.6°  
 V Angle: 75.7°  
 Lumens: 11759.2  
 Efficiency: 73.9%

**Field:**  
 H Angle: 119.6°  
 V Angle: 96.4°  
 Lumens: 15502.9  
 Efficiency: 97.4%

**Spill:**  
 Lumens: 411.1  
 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	3.7	8.7	8.7	9.8	12.4	16.1	18.5	20.9	22.0	23.5
75°	0.0	1.3	3.7	6.1	7.4	7.4	7.4	7.4	7.4	7.4	7.4
65°	0.0	0.0	2.6	3.7	4.8	4.8	6.1	6.1	6.1	6.1	4.8
55°	73.9	71.4	73.9	73.9	73.9	72.7	67.8	61.6	57.9	59.2	54.2
47.5°	247.5	248.8	246.4	241.4	239.0	236.4	231.5	226.7	215.6	210.8	206.9
42.5°	888.1	974.3	953.6	1029.7	1001.4	1072.8	1177.6	1264.0	1268.8	694.7	1033.4
37.5°	5279.5	5300.4	5317.6	5366.8	5344.8	5370.7	5318.9	5211.7	5047.9	4981.3	5013.5
33°	8778.9	8739.6	8756.8	8812.4	8847.9	8889.9	8828.3	8717.4	8512.9	8370.0	8302.3
29°	9766.7	9764.3	9752.1	9721.2	9688.1	9658.5	9621.6	9583.3	9533.9	9470.0	9300.1
25.5°	9426.9	9410.8	9387.5	9337.1	9311.2	9286.4	9250.7	9215.0	9160.9	9084.5	8923.1
22.5°	8815.9	8806.1	8792.6	8749.4	8715.0	8687.8	8652.1	8636.0	8597.9	8553.6	8441.4
19.5°	8334.3	8324.5	8325.6	8304.7	8281.3	8246.9	8203.6	8164.2	8132.3	8109.0	8045.9
17°	8028.7	8013.9	8016.5	8010.4	7987.0	7947.6	7908.0	7855.1	7812.1	7786.0	7734.6
15°	7834.2	7823.0	7826.9	7813.2	7787.5	7749.2	7710.9	7664.2	7619.8	7569.3	7516.5
13°	7659.4	7648.1	7650.7	7638.3	7612.4	7582.8	7553.2	7510.2	7476.9	7428.8	7373.6
11°	7536.1	7528.7	7521.3	7513.9	7490.6	7462.3	7436.2	7400.5	7372.3	7329.2	7288.5
9°	7382.2	7387.0	7379.7	7376.0	7358.8	7334.2	7313.1	7288.5	7271.3	7246.7	7233.1
7°	7313.1	7317.0	7309.6	7305.7	7293.3	7279.8	7260.2	7245.3	7245.3	7249.1	7259.1
5°	7259.1	7262.6	7260.2	7261.3	7262.6	7256.5	7250.2	7253.9	7277.4	7297.2	7303.1
3°	7239.3	7240.4	7249.1	7257.6	7270.0	7281.1	7294.6	7317.0	7345.1	7346.4	7336.6
1°	7295.9	7293.3	7319.2	7341.6	7363.6	7380.9	7383.3	7374.8	7376.0	7362.5	7424.0
0°	7368.6	7363.6	7389.6	7400.5	7422.7	7428.8	7406.8	7385.8	7368.6	7337.7	7438.8
-1°	7443.6	7441.2	7454.9	7456.0	7467.1	7459.7	7419.0	7385.8	7350.1	7294.6	7317.9
-3°	7537.3	7539.8	7536.1	7521.3	7518.9	7481.9	7420.3	7368.6	7307.0	7222.0	7168.9
-5°	7513.9	7512.8	7499.3	7479.5	7452.3	7406.8	7329.2	7262.6	7183.9	7087.7	7036.0
-7°	7387.0	7390.7	7364.9	7351.2	7292.2	7224.5	7135.6	7055.8	6987.9	6922.7	6899.4
-9°	7167.8	7175.2	7137.1	7130.8	7045.8	6970.7	6906.8	6848.9	6813.0	6778.5	6766.3
-11°	6864.8	6874.6	6850.0	6863.5	6808.2	6779.7	6750.2	6713.2	6684.9	6656.6	6630.7
-13°	6654.2	6659.0	6647.9	6646.8	6624.6	6618.4	6603.6	6582.7	6560.5	6527.2	6492.6
-15°	6532.2	6537.2	6527.2	6521.1	6508.7	6505.0	6491.5	6464.5	6434.8	6391.7	6337.5
-17°	6415.2	6425.0	6414.1	6406.7	6394.3	6384.3	6374.5	6344.9	6305.6	6255.1	6166.3
-19.5°	6043.2	6057.8	6045.6	6043.2	6044.3	6050.4	6049.3	6025.8	6011.2	5985.2	5905.3
-22.5°	5704.4	5710.6	5708.1	5710.6	5714.3	5716.7	5714.3	5704.4	5689.8	5657.6	5574.9
-25.5°	5545.6	5549.3	5545.6	5546.7	5541.9	5538.2	5528.4	5509.7	5491.4	5458.1	5378.1
-29°	5320.2	5325.0	5323.9	5322.4	5317.6	5302.8	5281.9	5256.0	5230.4	5189.5	5113.3
-33°	5106.9	5110.7	5108.3	5099.5	5088.6	5071.4	5046.6	5012.2	4972.6	4922.2	4839.5
-37.5°	4900.0	4893.9	4895.2	4884.1	4871.7	4852.1	4827.3	4796.5	4749.7	4694.4	4615.5
-42.5°	4603.3	4577.4	4570.0	4525.6	4513.2	4462.8	4446.7	4418.4	4388.8	4395.1	4302.7
-47.5°	3060.9	3019.1	3032.6	2995.6	3019.1	2993.2	3016.7	2971.1	2978.4	2977.2	2936.5
-55°	665.2	657.8	681.2	704.5	721.9	729.1	703.4	680.0	688.6	745.2	718.2
-65°	490.3	489.0	489.0	486.6	482.9	480.3	481.6	484.0	484.0	491.6	508.8
-75°	73.9	72.7	73.9	72.7	67.8	70.3	76.4	73.9	76.4	76.4	76.4
-85°	23.5	23.5	22.0	25.9	27.2	32.0	37.0	39.4	41.8	43.3	43.3
-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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**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°	24.6	24.6	25.9	25.9	24.6	24.6	24.6	24.6	24.6	25.9	27.2
75°	8.7	9.8	11.1	13.5	14.8	17.2	17.2	19.8	22.0	24.6	27.2
65°	4.8	3.7	3.7	3.7	4.8	6.1	9.8	13.5	18.5	22.0	25.9
55°	44.4	29.4	13.5	12.4	12.4	11.1	9.8	11.1	18.5	22.0	25.9
47.5°	170.1	113.3	69.0	56.6	51.8	41.8	38.1	39.4	33.3	23.5	27.2
42.5°	271.0	272.1	223.0	686.2	580.3	226.7	235.3	161.4	46.8	27.2	28.5
37.5°	4959.1	4597.0	4492.3	4228.7	3876.5	2814.7	2527.5	242.7	60.5	34.4	30.9
33°	8202.5	7828.0	7293.3	7175.2	6560.5	5394.0	3877.8	1351.2	75.1	40.7	32.0
29°	8983.4	8642.3	8296.1	7902.1	7483.2	6601.2	4807.7	1798.4	89.8	46.8	34.4
25.5°	8683.0	8421.8	8127.5	7794.7	7547.1	7034.7	5466.6	2119.9	104.6	55.5	35.9
22.5°	8209.9	7957.4	7720.7	7491.9	7355.1	7043.4	5724.1	2336.8	120.7	65.3	38.1
19.5°	7845.3	7608.9	7395.6	7230.6	7176.3	6904.2	5793.1	2514.1	135.5	73.9	39.4
17°	7548.4	7346.4	7191.3	7089.0	7032.3	6704.7	5787.0	2660.7	150.3	77.6	39.4
15°	7356.4	7172.6	7063.0	6997.7	6895.5	6523.7	5749.8	2790.1	162.7	81.3	40.7
13°	7240.4	7101.2	7013.8	6915.3	6723.2	6336.4	5703.2	2925.6	171.2	83.7	40.7
11°	7175.2	7065.6	6983.1	6800.6	6537.2	6204.4	5663.9	3067.2	176.2	86.1	41.8
9°	7150.6	7038.4	6901.8	6655.3	6402.8	6113.5	5628.0	3226.2	179.7	88.7	41.8
7°	7190.0	7068.0	6862.4	6572.9	6292.1	6049.3	5602.1	3385.0	182.3	91.1	41.8
5°	7224.5	7107.3	6854.8	6485.2	6195.9	5985.2	5577.5	3541.4	184.7	93.7	43.3
3°	7249.1	7129.7	6843.7	6396.7	6113.5	5924.9	5557.8	3686.7	186.0	94.8	43.3
1°	7319.2	7117.3	6808.2	6324.0	6051.7	5880.7	5536.9	3819.8	183.6	94.8	43.3
0°	7272.4	7082.8	6772.4	6293.2	6019.7	5860.9	5527.1	3877.8	183.6	93.7	43.3
-1°	7177.6	7037.3	6730.6	6263.8	5991.5	5842.3	5522.1	3935.5	182.3	93.7	43.3
-3°	7036.0	6926.4	6642.9	6209.4	5926.2	5790.5	5508.6	4035.3	181.2	92.4	41.8
-5°	6914.1	6820.4	6549.4	6133.1	5843.6	5720.4	5472.7	4099.3	179.7	91.1	41.8
-7°	6809.3	6684.9	6418.9	6027.1	5749.8	5633.0	5434.6	4138.7	178.6	89.8	41.8
-9°	6676.2	6522.2	6251.4	5905.3	5646.5	5527.1	5381.8	4143.7	177.5	88.7	40.7
-11°	6528.5	6354.7	6088.9	5778.3	5546.7	5426.1	5313.9	4111.7	176.2	86.1	39.4
-13°	6367.1	6177.4	5933.6	5660.0	5443.3	5327.4	5241.3	4035.3	174.9	86.1	39.4
-15°	6189.8	5998.9	5774.6	5546.7	5349.6	5218.0	5157.5	3920.7	174.9	85.0	38.1
-17°	5998.9	5796.8	5603.4	5418.7	5241.3	5109.4	5061.4	3763.2	172.3	83.7	37.0
-19.5°	5742.6	5556.6	5400.1	5252.3	5089.7	4970.4	4934.6	3502.0	168.8	82.5	35.9
-22.5°	5416.1	5242.6	5114.3	5015.9	4908.7	4822.3	4814.9	3157.2	162.7	80.0	34.4
-25.5°	5233.9	5076.2	4953.0	4846.9	4764.5	4722.7	4709.0	2808.5	155.1	77.6	32.0
-29°	4995.0	4860.8	4747.3	4636.4	4565.0	4567.6	4578.5	2403.1	149.0	72.7	30.9
-33°	4730.1	4616.8	4502.1	4381.4	4305.1	4311.2	4327.3	1953.7	150.3	66.6	29.4
-37.5°	4518.2	4409.9	4273.1	4121.5	3993.4	3987.3	3933.1	264.7	154.0	57.9	28.5
-42.5°	4196.6	4152.4	3967.7	3837.0	3600.5	3388.7	3093.1	261.2	147.7	46.8	28.5
-47.5°	2866.4	2808.5	2753.1	2687.8	2469.9	2141.0	1685.1	245.1	130.5	35.9	27.2
-55°	771.1	766.1	792.0	724.3	597.3	230.3	237.7	154.0	86.1	28.5	27.2
-65°	544.4	551.8	433.7	230.3	161.4	113.3	161.4	92.4	46.8	27.2	27.2
-75°	76.4	70.3	51.8	56.6	59.2	59.2	55.5	35.9	29.4	28.5	27.2
-85°	43.3	43.3	41.8	40.7	39.4	37.0	35.9	33.3	32.0	29.4	28.5
-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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**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)