

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: P833921

Luminaire Tested: **TTN-D3-740-U-MQ-CG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833921
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND
Test Lab: INNOVATION CENTER
Issue Date: 5/15/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D3-740-U-MQ-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7718.7 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G1

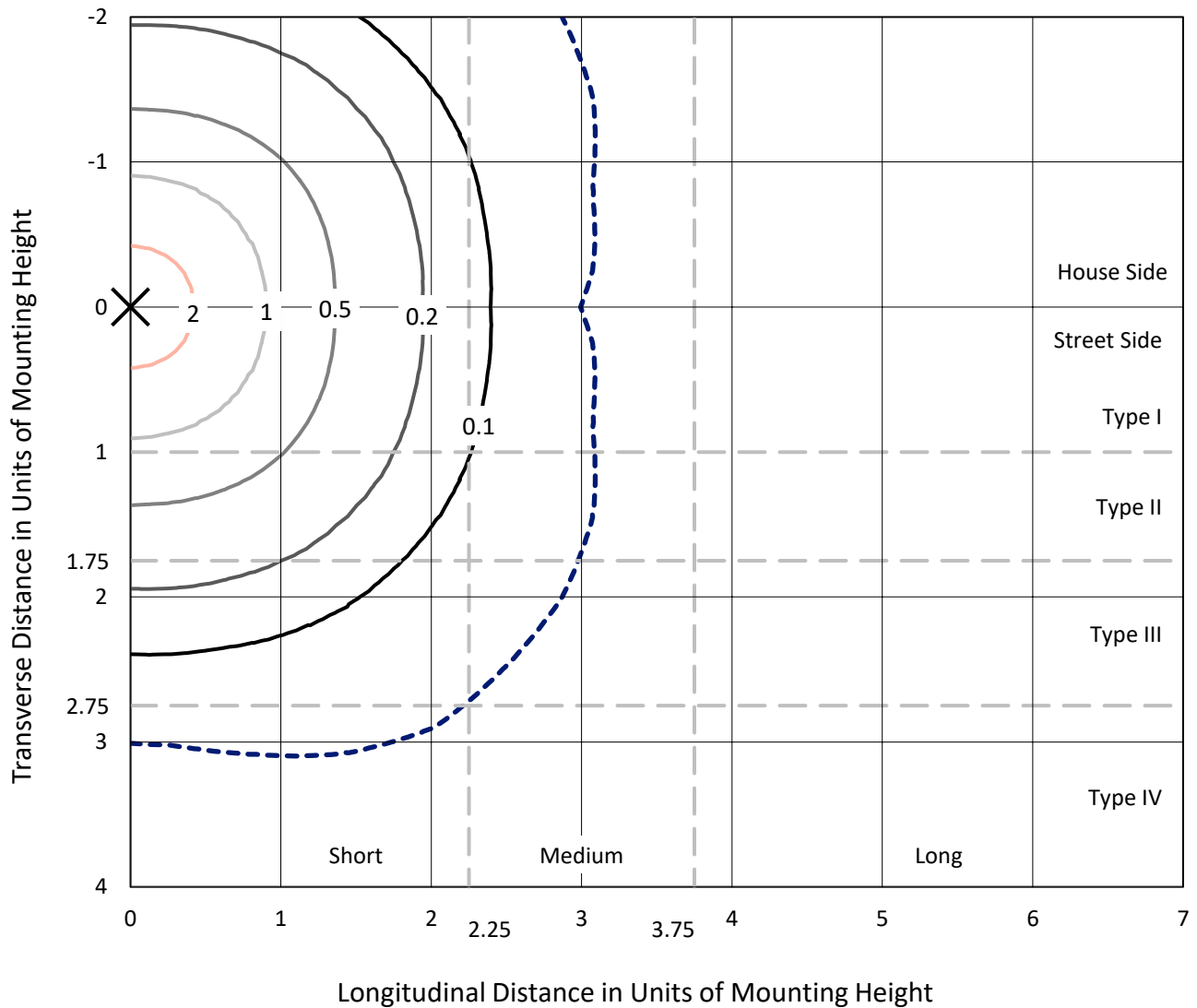
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

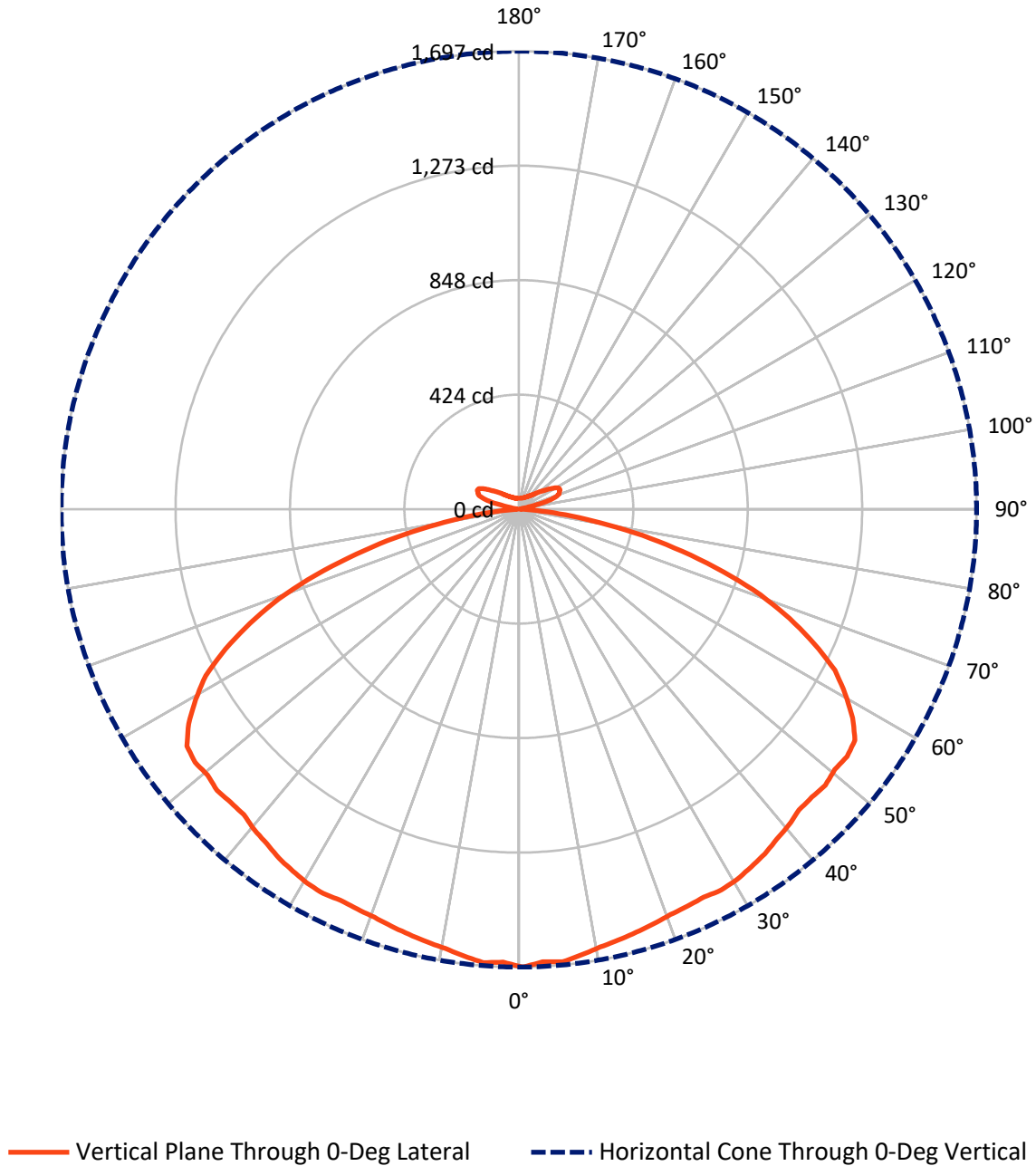
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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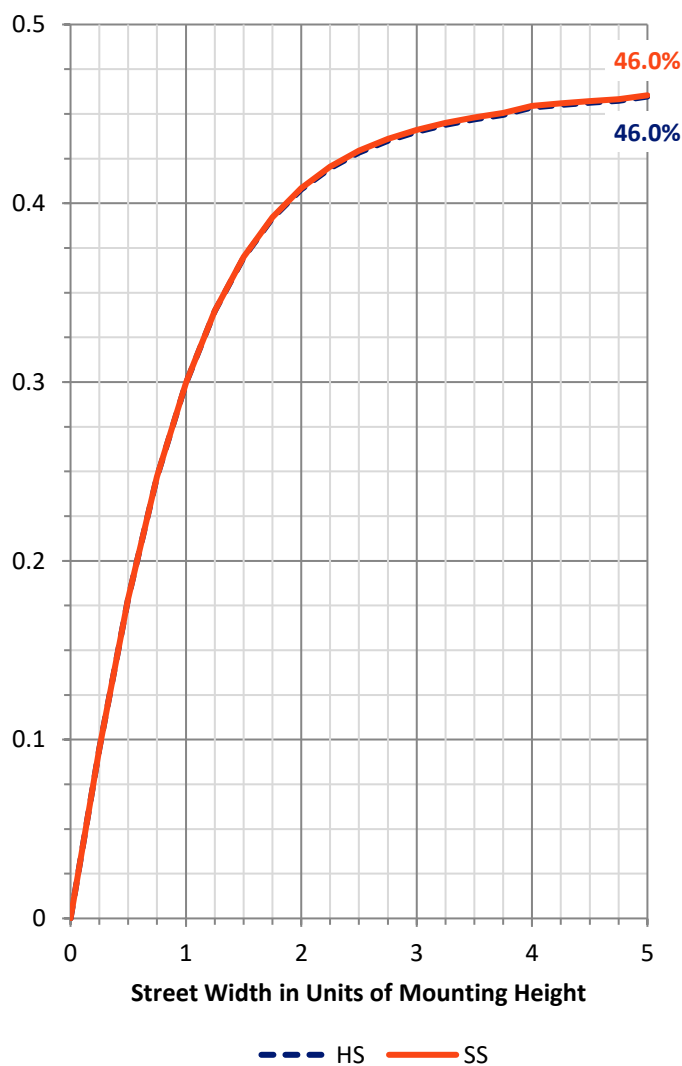
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3566.9	292.5	3859.4
	% Fixture	46.2	3.8	50.0
Street Side	Lumens	3566.9	292.5	3859.4
	% Fixture	46.2	3.8	50.0
Total	Lumens	7133.8	584.9	7718.7
	% Fixture	92.4	7.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	2.1
10°-20°	461.0	6.0
20°-30°	741.6	9.6
30°-40°	990.7	12.8
40°-50°	1203.7	15.6
50°-60°	1398.6	18.1
60°-70°	1290.3	16.7
70°-80°	755.4	9.8
80°-90°	133.1	1.7
90°-100°	13.1	0.2
100°-110°	132.7	1.7
110°-120°	194.0	2.5
120°-130°	112.6	1.5
130°-140°	59.7	0.8
140°-150°	35.4	0.5
150°-160°	21.8	0.3
160°-170°	11.9	0.2
170°-180°	3.9	0.1
0°-90°	7133.8	92.4
0°-180°	7718.7	100.0

Coefficient of Utilization



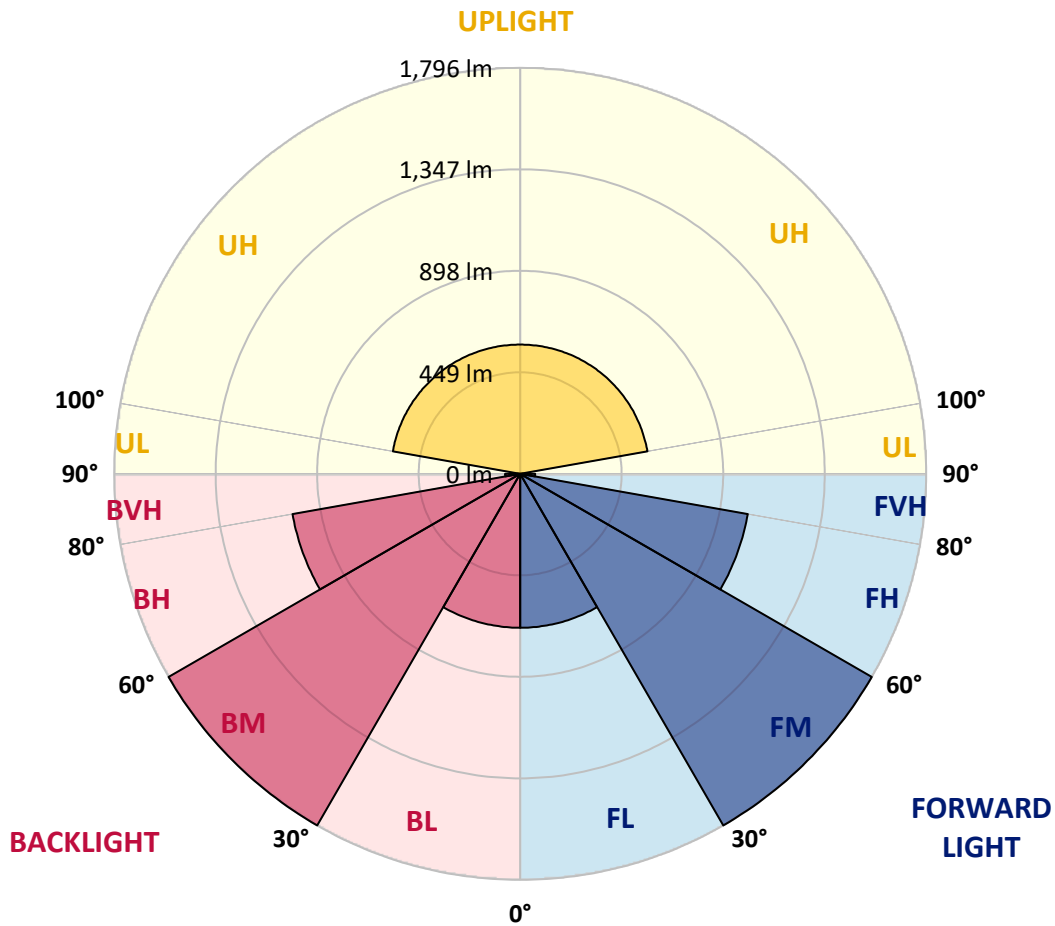
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.0	8.8			
FM (30°-60°)	1796.5	23.3			
FH (60°-80°)	1022.8	13.3			G1/1800
FVH (80°-90°)	66.6	0.9			G1/100
BL (0°-30°)	681.0	8.8	B2/1000		
BM (30°-60°)	1796.5	23.3	B2/2500		
BH (60°-80°)	1022.8	13.3	B3/2500		G1/1800
BVH (80°-90°)	66.6	0.9			G1/100
UL (90°-100°)	13.1	0.2		U2/50	
UH (100°-180°)	571.8	7.4		U4/1000	

BUG Rating: B3-U4-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9	1696.9
2.5°	1679.6	1685.3	1679.6	1679.6	1679.6	1679.6	1679.6	1679.6	1679.6	1679.6	1685.3
5°	1685.3	1685.3	1685.3	1685.3	1679.6	1679.6	1679.6	1679.6	1679.6	1685.3	1685.3
7.5°	1668.0	1668.0	1668.0	1668.0	1668.0	1662.2	1668.0	1668.0	1668.0	1668.0	1668.0
10°	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6	1650.6
12.5°	1639.0	1639.0	1639.0	1639.0	1639.0	1639.0	1639.0	1639.0	1639.0	1633.2	1633.2
15°	1627.4	1627.4	1627.4	1627.4	1633.2	1633.2	1627.4	1627.4	1627.4	1627.4	1627.4
17.5°	1615.8	1615.8	1615.8	1615.8	1621.6	1621.6	1621.6	1615.8	1615.8	1615.8	1615.8
20°	1604.3	1604.3	1604.3	1604.3	1610.1	1610.1	1610.1	1610.1	1610.1	1604.3	1604.3
22.5°	1598.5	1598.5	1598.5	1598.5	1604.3	1604.3	1604.3	1604.3	1598.5	1598.5	1598.5
25°	1592.7	1598.5	1598.5	1598.5	1604.3	1610.1	1610.1	1604.3	1598.5	1592.7	1592.7
27.5°	1598.5	1598.5	1598.5	1604.3	1604.3	1610.1	1610.1	1604.3	1598.5	1598.5	1598.5
30°	1592.7	1592.7	1592.7	1598.5	1604.3	1610.1	1604.3	1604.3	1598.5	1592.7	1592.7
32.5°	1581.1	1581.1	1586.9	1592.7	1598.5	1598.5	1598.5	1592.7	1586.9	1581.1	1581.1
35°	1569.5	1569.5	1569.5	1575.3	1586.9	1586.9	1586.9	1581.1	1575.3	1569.5	1563.7
37.5°	1552.1	1557.9	1557.9	1569.5	1575.3	1581.1	1575.3	1569.5	1557.9	1552.1	1552.1
40°	1540.6	1540.6	1546.3	1557.9	1569.5	1569.5	1563.7	1557.9	1546.3	1540.6	1540.6
42.5°	1523.2	1523.2	1534.8	1546.3	1563.7	1563.7	1557.9	1546.3	1534.8	1523.2	1523.2
45°	1523.2	1523.2	1534.8	1557.9	1569.5	1581.1	1569.5	1557.9	1534.8	1523.2	1517.4
47.5°	1529.0	1529.0	1540.6	1569.5	1592.7	1604.3	1586.9	1563.7	1540.6	1529.0	1523.2
50°	1517.4	1523.2	1546.3	1575.3	1604.3	1610.1	1604.3	1569.5	1546.3	1517.4	1517.4
52.5°	1523.2	1523.2	1552.1	1598.5	1627.4	1639.0	1627.4	1598.5	1546.3	1517.4	1517.4
55°	1511.6	1505.8	1546.3	1598.5	1644.8	1668.0	1644.8	1598.5	1540.6	1505.8	1500.0
57.5°	1459.5	1459.5	1511.6	1563.7	1621.6	1633.2	1615.8	1563.7	1505.8	1459.5	1447.9
60°	1390.0	1395.8	1447.9	1505.8	1557.9	1563.7	1552.1	1505.8	1447.9	1395.8	1378.4
62.5°	1314.7	1326.3	1378.4	1436.3	1500.0	1511.6	1494.2	1436.3	1366.8	1332.1	1303.1
65°	1204.6	1222.0	1279.9	1343.6	1413.1	1407.3	1407.3	1337.9	1285.7	1227.8	1198.9
67.5°	1083.0	1100.4	1140.9	1227.8	1285.7	1279.9	1274.1	1227.8	1140.9	1100.4	1083.0
70°	949.8	961.4	1001.9	1088.8	1140.9	1146.7	1129.4	1083.0	1001.9	973.0	944.0
72.5°	793.4	799.2	857.2	926.6	978.8	973.0	967.2	926.6	851.4	822.4	787.7
75°	625.5	631.3	683.4	747.1	787.7	781.9	776.1	747.1	683.4	648.7	619.7
77.5°	469.1	463.3	515.4	561.8	584.9	590.7	579.2	556.0	509.7	480.7	463.3
80°	307.0	301.2	347.5	382.2	399.6	399.6	393.8	376.5	341.7	318.5	307.0
82.5°	173.7	168.0	196.9	220.1	237.5	231.7	225.9	214.3	196.9	179.5	168.0
85°	63.7	63.7	81.1	92.7	104.2	104.2	98.5	92.7	75.3	69.5	63.7
87.5°	5.8	5.8	11.6	17.4	17.4	17.4	11.6	11.6	5.8	5.8	5.8
90°	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
92.5°	5.0	5.0	5.0	7.0	8.0	7.0	8.0	6.0	6.0	5.0	5.0
95°	6.0	6.0	7.0	9.0	11.0	12.0	12.0	7.0	7.0	6.0	6.0
97.5°	8.0	9.0	9.0	11.0	18.0	33.0	20.0	10.0	10.0	9.0	8.0
100°	13.0	14.0	14.0	25.0	53.0	71.1	51.0	26.0	19.0	14.0	14.0
102.5°	42.0	44.0	54.0	81.1	120.1	109.1	92.1	87.1	60.0	48.0	46.0
105°	107.1	106.1	114.1	135.1	168.1	165.1	152.1	138.1	119.1	110.1	110.1
107.5°	141.1	141.1	148.1	166.1	191.1	223.2	226.2	179.1	157.1	147.1	146.1
110°	159.1	159.1	165.1	180.1	213.2	258.2	256.2	221.2	194.1	181.1	179.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	163.1	164.1	172.1	195.1	231.2	251.2	242.2	228.2	216.2	206.2	204.2
115°	169.1	169.1	178.1	200.2	220.2	228.2	218.2	207.2	199.2	195.1	197.1
117.5°	167.1	170.1	172.1	184.1	197.1	203.2	198.1	183.1	177.1	175.1	172.1
120°	155.1	155.1	157.1	163.1	170.1	173.1	171.1	161.1	156.1	155.1	153.1
122.5°	138.1	139.1	138.1	141.1	146.1	149.1	147.1	139.1	137.1	137.1	135.1
125°	121.1	121.1	120.1	122.1	125.1	124.1	125.1	121.1	120.1	120.1	119.1
127.5°	109.1	108.1	106.1	107.1	108.1	108.1	109.1	105.1	106.1	107.1	106.1
130°	97.1	97.1	95.1	95.1	95.1	93.1	95.1	93.1	94.1	95.1	96.1
132.5°	86.1	86.1	83.1	82.1	82.1	82.1	83.1	82.1	84.1	86.1	86.1
135°	77.1	77.1	74.1	75.1	75.1	74.1	75.1	74.1	76.1	77.1	77.1
137.5°	70.1	70.1	68.1	68.1	68.1	67.1	68.1	68.1	69.1	71.1	72.1
140°	64.0	64.0	63.0	63.0	62.0	63.0	63.0	63.0	64.0	65.0	65.0
142.5°	61.0	60.0	59.0	58.0	59.0	59.0	59.0	58.0	59.0	61.0	61.0
145°	56.0	56.0	55.0	55.0	55.0	56.0	55.0	55.0	56.0	56.0	57.0
147.5°	53.0	53.0	52.0	53.0	53.0	53.0	53.0	52.0	53.0	53.0	54.0
150°	52.0	51.0	50.0	51.0	51.0	50.0	50.0	50.0	50.0	51.0	51.0
152.5°	49.0	49.0	48.0	49.0	48.0	48.0	48.0	48.0	48.0	49.0	50.0
155°	47.0	47.0	46.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
157.5°	45.0	46.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	46.0	46.0
160°	44.0	44.0	44.0	44.0	43.0	43.0	43.0	44.0	44.0	44.0	45.0
162.5°	43.0	43.0	43.0	43.0	42.0	42.0	42.0	42.0	43.0	43.0	44.0
165°	43.0	42.0	42.0	42.0	41.0	41.0	41.0	41.0	42.0	43.0	42.0
167.5°	41.0	41.0	41.0	41.0	41.0	40.0	40.0	41.0	41.0	41.0	42.0
170°	41.0	41.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	41.0
172.5°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	40.0	40.0	41.0	41.0
175°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	41.0	41.0	41.0	40.0
177.5°	41.0	41.0	41.0	41.0	40.0	41.0	41.0	41.0	41.0	41.0	41.0
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

(END OF REPORT)