

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: P833920

Luminaire Tested: **TTN-D3-740-U-MQ-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833920
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-UPL1
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: 7456.9 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U3 - G1

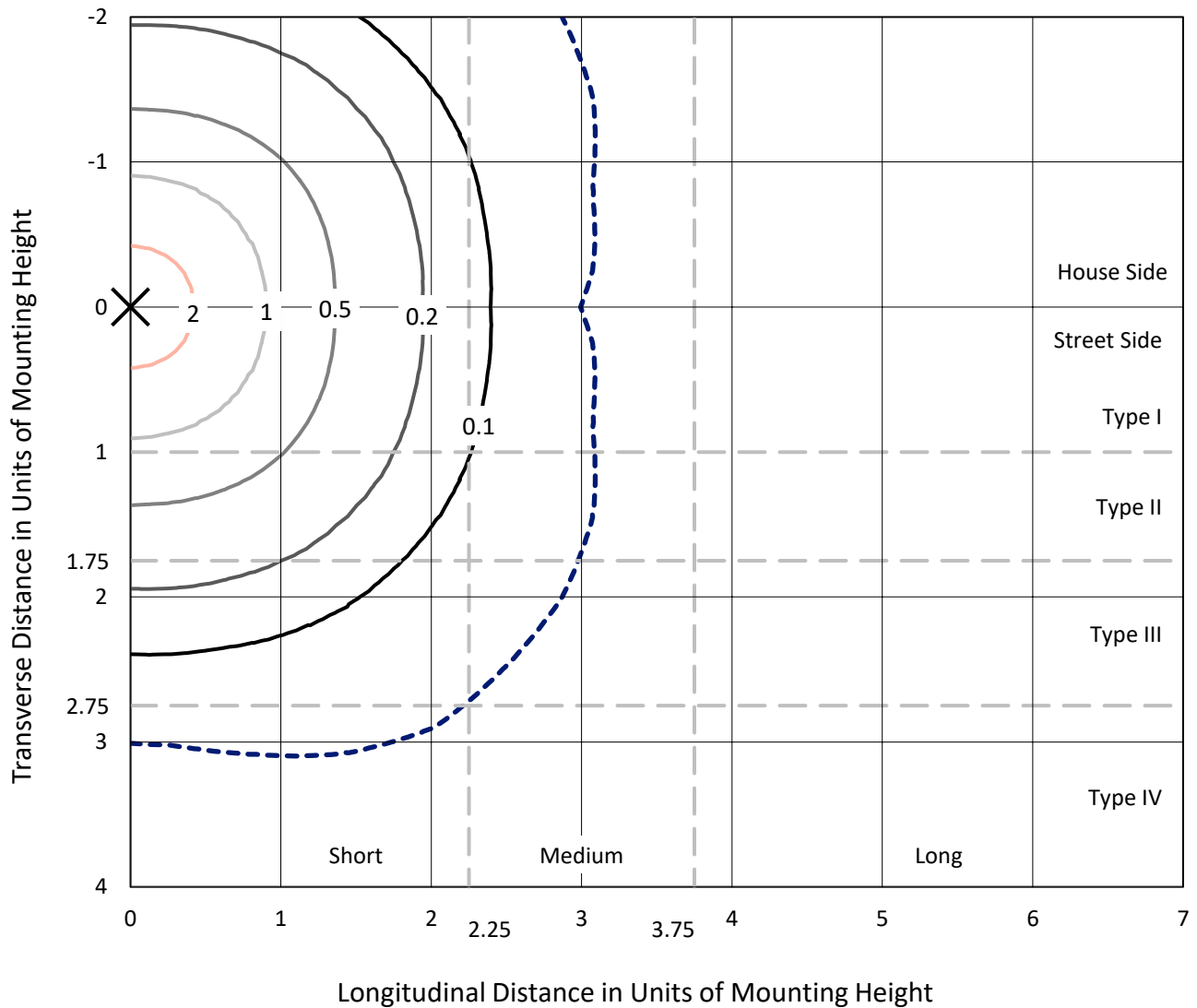
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

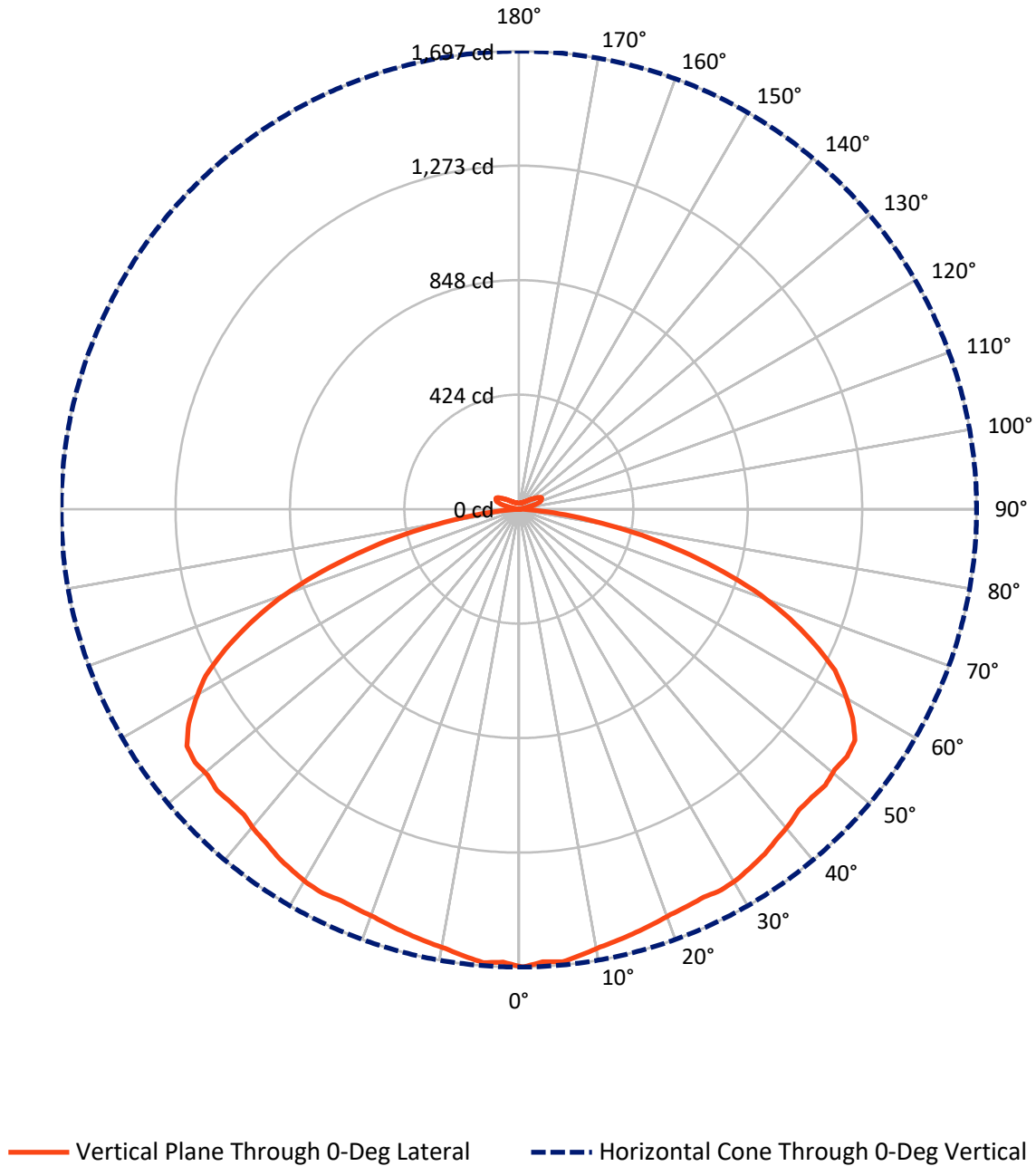
✕ Max cd
 - - - 1/2 Max cd



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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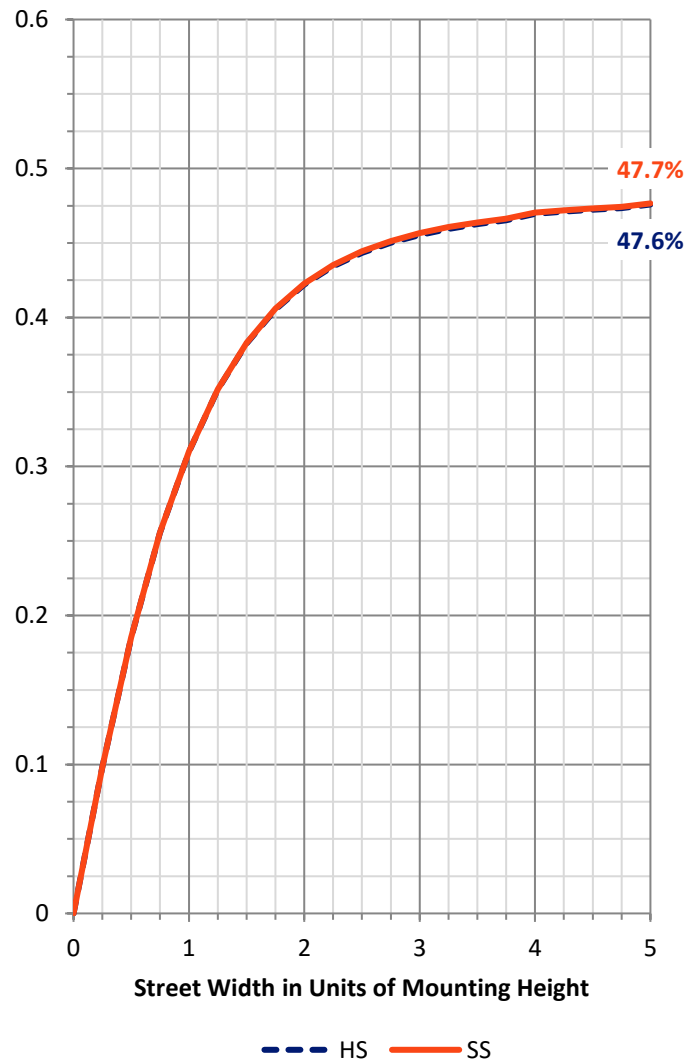
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3566.7	161.7	3728.4
	% Fixture	47.8	2.2	50.0
Street Side	Lumens	3566.7	161.7	3728.4
	% Fixture	47.8	2.2	50.0
Total	Lumens	7133.4	323.4	7456.9
	% Fixture	95.7	4.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	2.1
10°-20°	461.0	6.2
20°-30°	741.6	9.9
30°-40°	990.7	13.3
40°-50°	1203.7	16.1
50°-60°	1398.6	18.8
60°-70°	1290.3	17.3
70°-80°	755.4	10.1
80°-90°	132.8	1.8
90°-100°	7.2	0.1
100°-110°	73.4	1.0
110°-120°	107.3	1.4
120°-130°	62.3	0.8
130°-140°	33.0	0.4
140°-150°	19.6	0.3
150°-160°	12.1	0.2
160°-170°	6.6	0.1
170°-180°	2.1	0.0
0°-90°	7133.4	95.7
0°-180°	7456.9	100.0

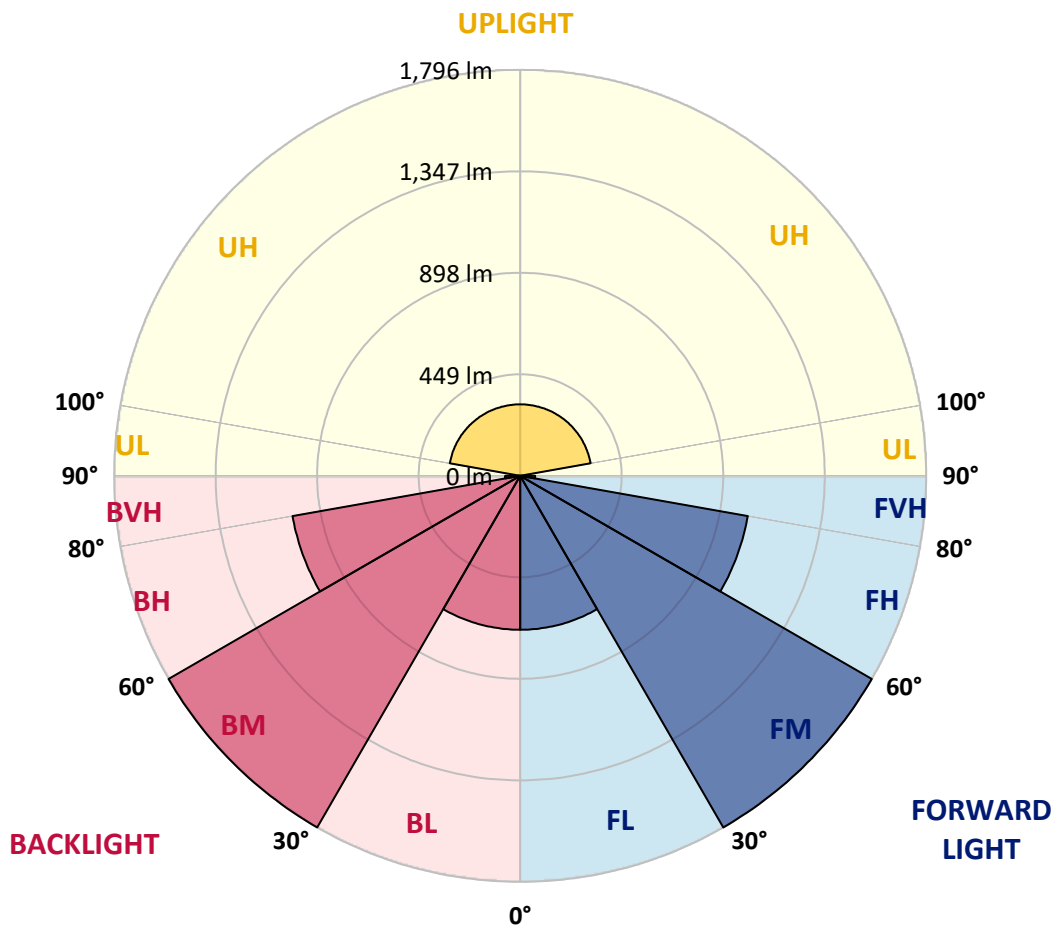


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.0	9.1			
FM (30°-60°)	1796.5	24.1			
FH (60°-80°)	1022.8	13.7			G1/1800
FVH (80°-90°)	66.4	0.9			G1/100
BL (0°-30°)	681.0	9.1	B2/1000		
BM (30°-60°)	1796.5	24.1	B2/2500		
BH (60°-80°)	1022.8	13.7	B3/2500		G1/1800
BVH (80°-90°)	66.4	0.9			G1/100
UL (90°-100°)	7.2	0.1		U1/10	
UH (100°-180°)	316.2	4.2		U3/500	

BUG Rating: B3-U3-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°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	3.9	4.4	3.3	3.3	2.8	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.6	6.6	3.9	3.9	3.3	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	18.3	11.1	5.5	5.5	5.0	4.4
100°	7.2	7.7	7.7	13.8	29.3	39.3	28.2	14.4	10.5	7.7	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	60.3	50.9	48.1	33.2	26.6	25.5
105°	59.2	58.7	63.1	74.7	93.0	91.3	84.1	76.4	65.8	60.9	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	123.4	125.1	99.0	86.9	81.3	80.8
110°	88.0	88.0	91.3	99.6	117.9	142.8	141.6	122.3	107.3	100.2	99.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.2	90.7	95.2	107.9	127.8	138.9	133.9	126.2	119.5	114.0	112.9
115°	93.5	93.5	98.5	110.7	121.7	126.2	120.6	114.5	110.1	107.9	109.0
117.5°	92.4	94.1	95.2	101.8	109.0	112.3	109.6	101.3	97.9	96.8	95.2
120°	85.8	85.8	86.9	90.2	94.1	95.7	94.6	89.1	86.3	85.8	84.7
122.5°	76.4	76.9	76.4	78.0	80.8	82.4	81.3	76.9	75.8	75.8	74.7
125°	67.0	67.0	66.4	67.5	69.2	68.6	69.2	67.0	66.4	66.4	65.8
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	60.3	58.1	58.7	59.2	58.7
130°	53.7	53.7	52.6	52.6	52.6	51.5	52.6	51.5	52.0	52.6	53.1
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.9	45.4	46.5	47.6	47.6
135°	42.6	42.6	40.9	41.5	41.5	40.9	41.5	40.9	42.1	42.6	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.1	37.6	37.6	38.2	39.3	39.8
140°	35.4	35.4	34.9	34.9	34.3	34.9	34.9	34.9	35.4	36.0	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.8	33.8
145°	31.0	31.0	30.4	30.4	30.4	31.0	30.4	30.4	31.0	31.0	31.5
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3	29.9
150°	28.8	28.2	27.7	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	27.1	27.7
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.9
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	24.3
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	23.2	23.8	23.2
167.5°	22.7	22.7	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	23.2
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.1
177.5°	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)