

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: P833913

Luminaire Tested: **TTN-D3-740-U-CQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833913
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-CQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7888.6 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

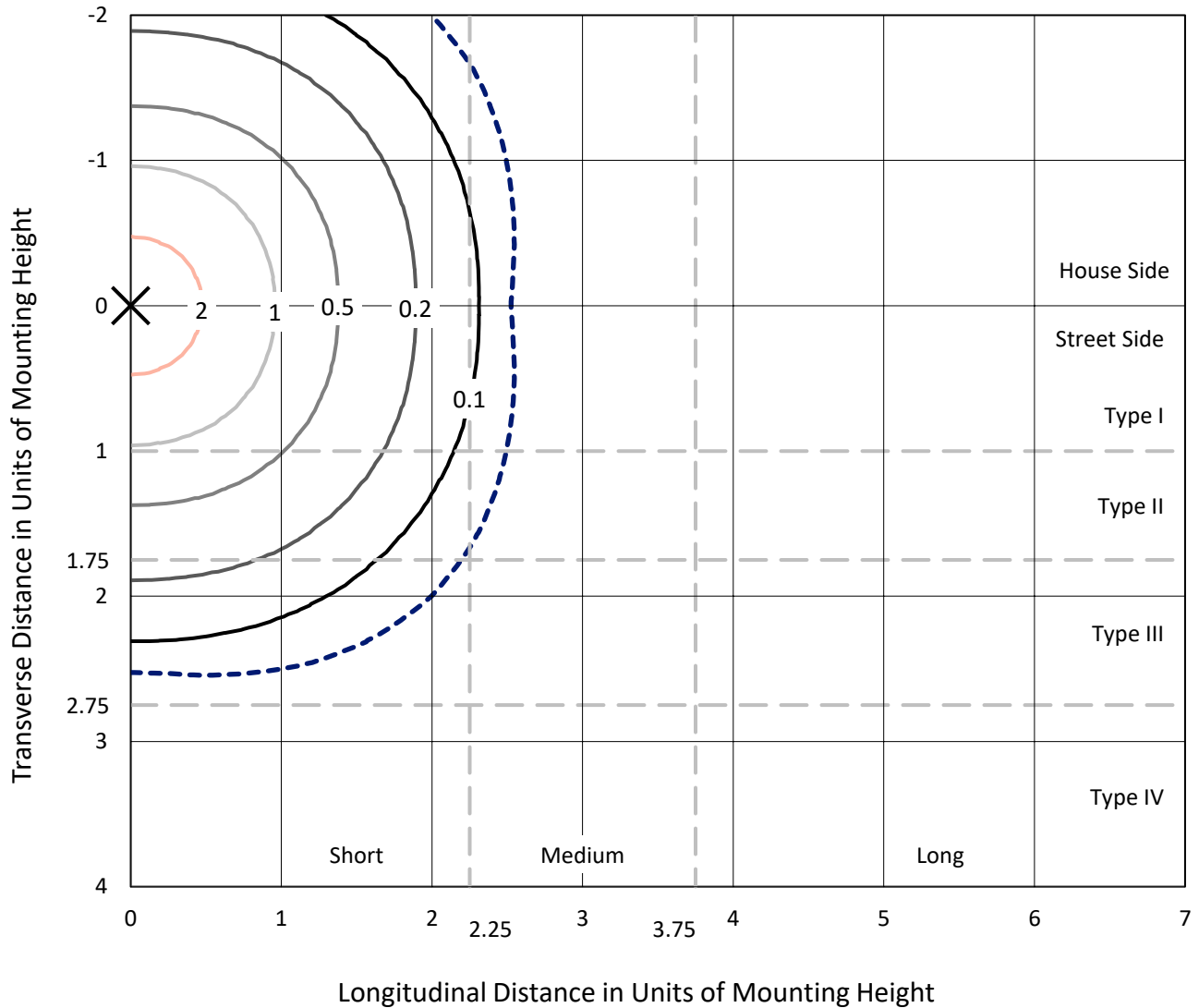
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

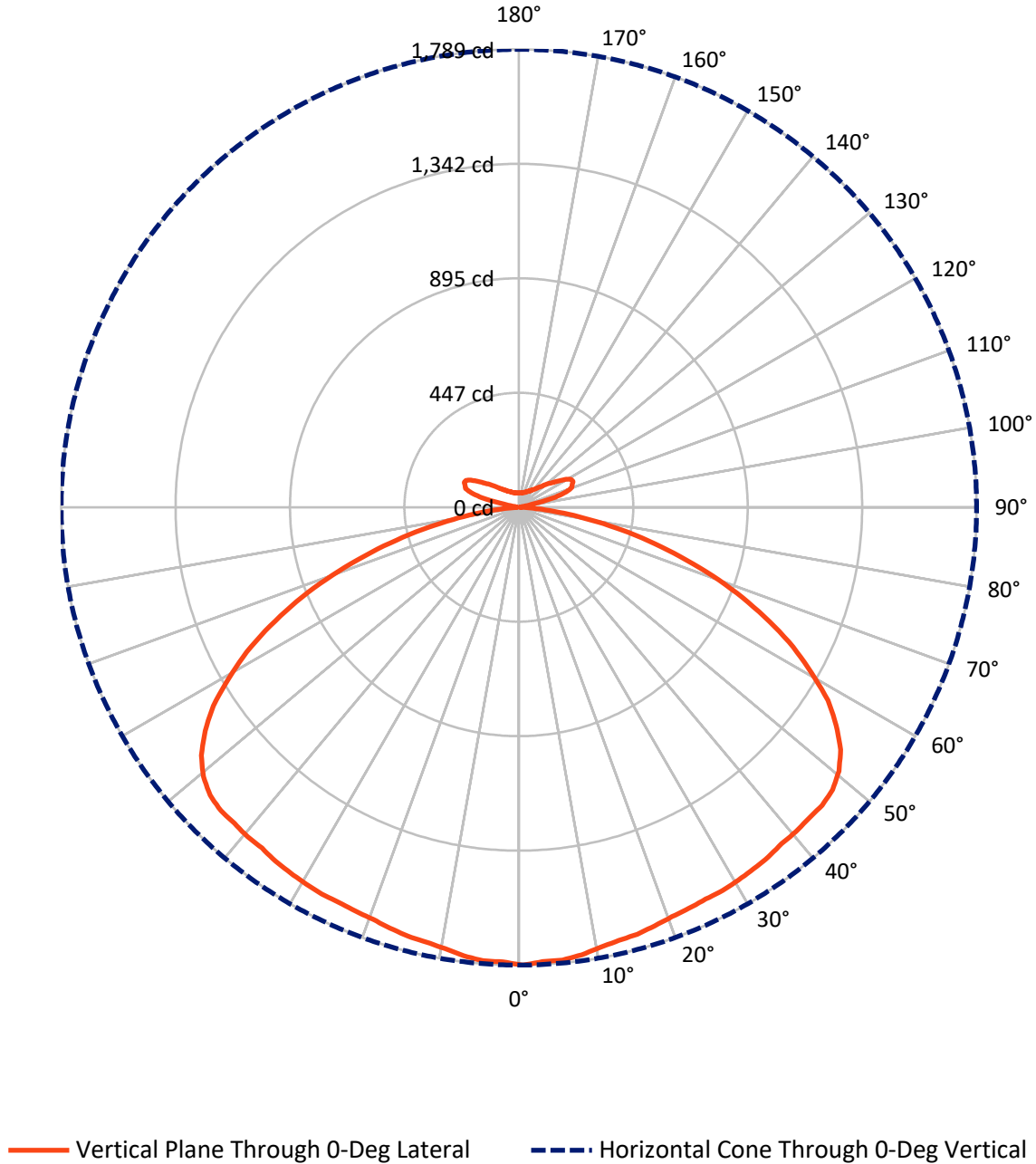
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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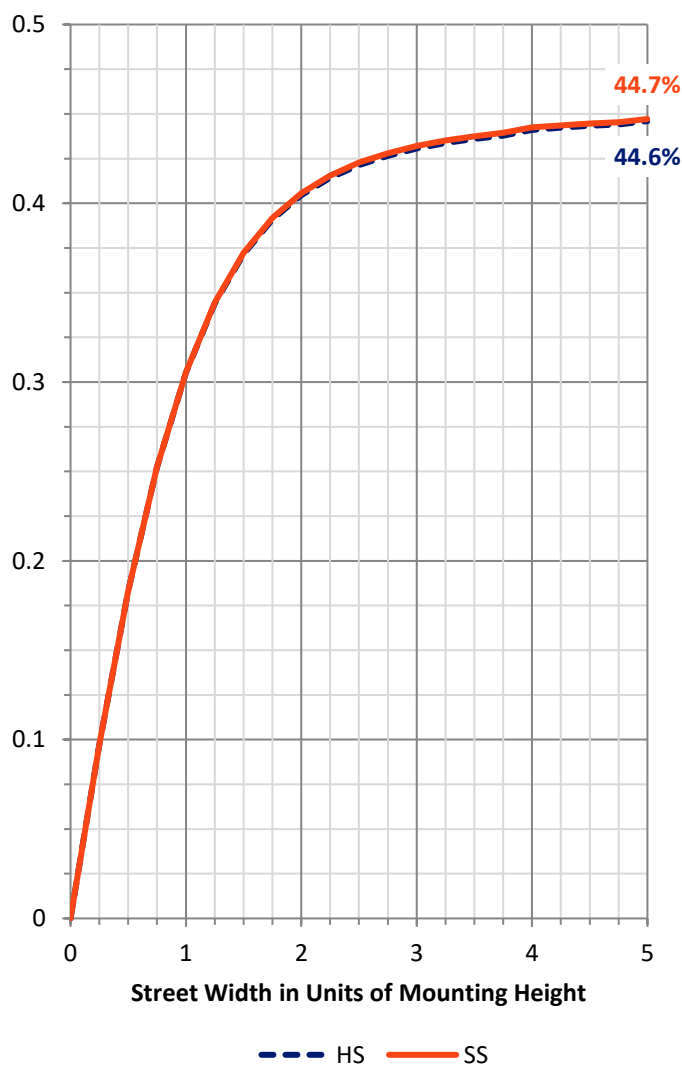
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3538.6	405.8	3944.3
	% Fixture	44.9	5.1	50.0
Street Side	Lumens	3538.6	405.8	3944.3
	% Fixture	44.9	5.1	50.0
Total	Lumens	7077.1	811.5	7888.6
	% Fixture	89.7	10.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	2.1
10°-20°	489.9	6.2
20°-30°	788.8	10.0
30°-40°	1061.0	13.4
40°-50°	1309.0	16.6
50°-60°	1404.4	17.8
60°-70°	1138.9	14.4
70°-80°	603.6	7.7
80°-90°	112.7	1.4
90°-100°	18.1	0.2
100°-110°	184.1	2.3
110°-120°	269.1	3.4
120°-130°	156.2	2.0
130°-140°	82.7	1.0
140°-150°	49.1	0.6
150°-160°	30.3	0.4
160°-170°	16.5	0.2
170°-180°	5.4	0.1
0°-90°	7077.1	89.7
0°-180°	7888.6	100.0

Coefficient of Utilization



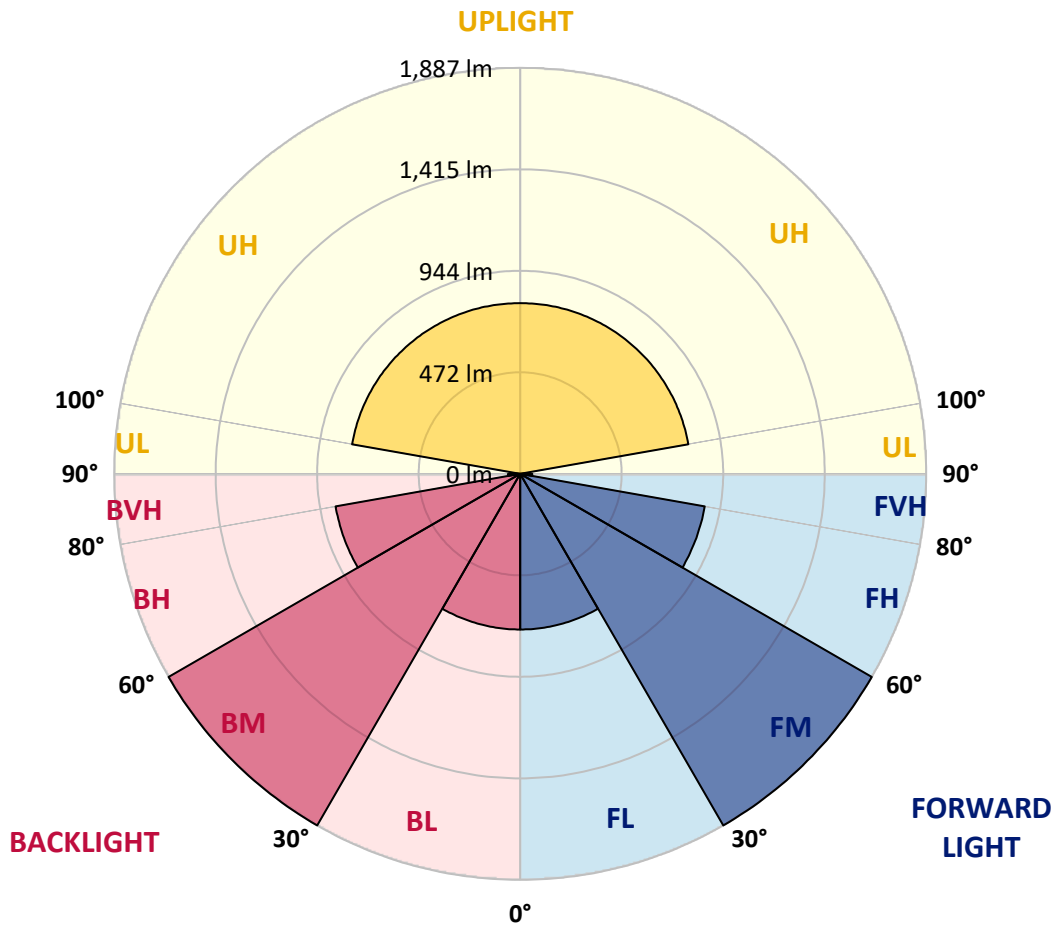
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.7	9.2			
FM (30°-60°)	1887.2	23.9			
FH (60°-80°)	871.3	11.0			G1/1800
FVH (80°-90°)	56.4	0.7			G1/100
BL (0°-30°)	723.7	9.2	B2/1000		
BM (30°-60°)	1887.2	23.9	B2/2500		
BH (60°-80°)	871.3	11.0	B2/1000		G1/1800
BVH (80°-90°)	56.4	0.7			G1/100
UL (90°-100°)	18.1	0.2		U2/50	
UH (100°-180°)	793.4	10.1		U4/1000	

BUG Rating: B2-U4-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3
2.5°	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7	1783.5
5°	1777.7	1777.7	1777.7	1777.7	1771.9	1777.7	1777.7	1777.7	1777.7	1777.7	1777.7
7.5°	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1	1766.1
10°	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7
12.5°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2
15°	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1731.4	1725.6	1725.6
17.5°	1719.8	1719.8	1719.8	1719.8	1725.6	1725.6	1725.6	1719.8	1719.8	1719.8	1719.8
20°	1708.2	1708.2	1708.2	1714.0	1714.0	1714.0	1714.0	1714.0	1708.2	1708.2	1708.2
22.5°	1702.4	1702.4	1702.4	1702.4	1708.2	1708.2	1708.2	1708.2	1702.4	1702.4	1702.4
25°	1696.6	1696.6	1702.4	1702.4	1708.2	1708.2	1708.2	1702.4	1702.4	1696.6	1696.6
27.5°	1696.6	1696.6	1702.4	1702.4	1708.2	1708.2	1708.2	1708.2	1702.4	1696.6	1696.6
30°	1690.8	1696.6	1696.6	1702.4	1708.2	1708.2	1708.2	1702.4	1696.6	1690.8	1690.8
32.5°	1685.0	1685.0	1690.8	1696.6	1702.4	1702.4	1702.4	1696.6	1690.8	1685.0	1679.2
35°	1679.2	1679.2	1679.2	1690.8	1696.6	1696.6	1696.6	1690.8	1679.2	1673.5	1673.5
37.5°	1667.7	1673.5	1679.2	1685.0	1696.6	1696.6	1696.6	1685.0	1673.5	1667.7	1661.9
40°	1667.7	1667.7	1679.2	1685.0	1702.4	1702.4	1696.6	1685.0	1673.5	1661.9	1656.1
42.5°	1661.9	1667.7	1679.2	1696.6	1714.0	1714.0	1708.2	1690.8	1673.5	1661.9	1656.1
45°	1661.9	1661.9	1679.2	1702.4	1725.6	1731.4	1719.8	1702.4	1679.2	1656.1	1656.1
47.5°	1650.3	1650.3	1673.5	1702.4	1731.4	1737.2	1731.4	1702.4	1673.5	1656.1	1650.3
50°	1621.3	1621.3	1650.3	1685.0	1719.8	1731.4	1719.8	1696.6	1656.1	1632.9	1627.1
52.5°	1575.0	1575.0	1604.0	1650.3	1685.0	1702.4	1690.8	1661.9	1621.3	1586.6	1580.8
55°	1505.5	1511.3	1540.3	1592.4	1632.9	1650.3	1638.7	1604.0	1557.6	1522.9	1511.3
57.5°	1424.5	1424.5	1465.0	1517.1	1557.6	1575.0	1563.4	1528.7	1476.6	1441.8	1430.3
60°	1314.4	1320.2	1355.0	1424.5	1465.0	1482.4	1470.8	1430.3	1372.4	1331.8	1320.2
62.5°	1204.4	1210.2	1245.0	1302.9	1349.2	1360.8	1349.2	1308.7	1256.5	1216.0	1204.4
65°	1077.0	1082.8	1123.4	1175.5	1210.2	1227.6	1210.2	1175.5	1129.1	1088.6	1082.8
67.5°	943.9	949.6	990.2	1036.5	1071.2	1082.8	1065.5	1036.5	990.2	955.4	943.9
70°	804.9	810.7	845.4	885.9	914.9	926.5	914.9	880.2	845.4	810.7	804.9
72.5°	660.1	665.9	700.7	735.4	758.6	770.1	752.8	729.6	694.9	665.9	660.1
75°	521.1	521.1	550.1	579.1	602.2	608.0	596.4	579.1	550.1	526.9	515.4
77.5°	388.0	388.0	416.9	434.3	445.9	457.5	445.9	428.5	411.1	388.0	388.0
80°	260.6	260.6	283.7	295.3	306.9	312.7	306.9	295.3	283.7	266.4	260.6
82.5°	156.3	156.3	167.9	179.5	179.5	185.3	185.3	179.5	167.9	156.3	156.3
85°	69.5	63.7	75.3	81.1	81.1	86.9	86.9	81.1	75.3	69.5	69.5
87.5°	5.8	11.6	11.6	17.4	17.4	17.4	17.4	17.4	11.6	11.6	11.6
90°	6.9	6.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	6.9
92.5°	6.9	6.9	6.9	9.7	11.1	9.7	11.1	8.3	8.3	6.9	6.9
95°	8.3	8.3	9.7	12.5	15.3	16.7	16.7	9.7	9.7	8.3	8.3
97.5°	11.1	12.5	12.5	15.3	25.0	45.8	27.8	13.9	13.9	12.5	11.1
100°	18.0	19.4	19.4	34.7	73.6	98.6	70.8	36.1	26.4	19.4	19.4
102.5°	58.3	61.1	75.0	112.5	166.6	151.3	127.7	120.8	83.3	66.6	63.9
105°	148.6	147.2	158.3	187.4	233.3	229.1	211.0	191.6	165.2	152.7	152.7
107.5°	195.8	195.8	205.5	230.5	265.2	309.6	313.8	248.5	218.0	204.1	202.7
110°	220.8	220.8	229.1	249.9	295.7	358.2	355.4	306.8	269.4	251.3	248.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	226.3	227.7	238.8	270.7	320.7	348.5	336.0	316.6	299.9	286.0	283.2
115°	234.6	234.6	247.1	277.7	305.5	316.6	302.7	287.4	276.3	270.7	273.5
117.5°	231.9	236.0	238.8	255.5	273.5	281.8	274.9	254.1	245.8	243.0	238.8
120°	215.2	215.2	218.0	226.3	236.0	240.2	237.4	223.5	216.6	215.2	212.4
122.5°	191.6	193.0	191.6	195.8	202.7	206.9	204.1	193.0	190.2	190.2	187.4
125°	168.0	168.0	166.6	169.4	173.6	172.2	173.6	168.0	166.6	166.6	165.2
127.5°	151.3	149.9	147.2	148.6	149.9	149.9	151.3	145.8	147.2	148.6	147.2
130°	134.7	134.7	131.9	131.9	131.9	129.1	131.9	129.1	130.5	131.9	133.3
132.5°	119.4	119.4	115.2	113.9	113.9	113.9	115.2	113.9	116.6	119.4	119.4
135°	106.9	106.9	102.7	104.1	104.1	102.7	104.1	102.7	105.5	106.9	106.9
137.5°	97.2	97.2	94.4	94.4	94.4	93.0	94.4	94.4	95.8	98.6	100.0
140°	88.9	88.9	87.5	87.5	86.1	87.5	87.5	87.5	88.9	90.2	90.2
142.5°	84.7	83.3	81.9	80.5	81.9	81.9	81.9	80.5	81.9	84.7	84.7
145°	77.8	77.8	76.4	76.4	76.4	77.8	76.4	76.4	77.8	77.8	79.1
147.5°	73.6	73.6	72.2	73.6	73.6	73.6	73.6	72.2	73.6	73.6	75.0
150°	72.2	70.8	69.4	70.8	70.8	69.4	69.4	69.4	69.4	70.8	70.8
152.5°	68.0	68.0	66.6	68.0	66.6	66.6	66.6	66.6	66.6	68.0	69.4
155°	65.3	65.3	63.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
157.5°	62.5	63.9	62.5	62.5	62.5	62.5	62.5	62.5	62.5	63.9	63.9
160°	61.1	61.1	61.1	61.1	59.7	59.7	59.7	61.1	61.1	61.1	62.5
162.5°	59.7	59.7	59.7	59.7	58.3	58.3	58.3	58.3	59.7	59.7	61.1
165°	59.7	58.3	58.3	58.3	56.9	56.9	56.9	56.9	58.3	59.7	58.3
167.5°	56.9	56.9	56.9	56.9	56.9	55.5	55.5	56.9	56.9	56.9	58.3
170°	56.9	56.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.9
172.5°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	55.5	55.5	56.9	56.9
175°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	56.9	56.9	56.9	55.5
177.5°	56.9	56.9	56.9	56.9	55.5	56.9	56.9	56.9	56.9	56.9	56.9
180°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9

(END OF REPORT)