

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: P833883

Luminaire Tested: **TTN-D3-735-U-CQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833883
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-D3-735-U-CQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7461.7 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

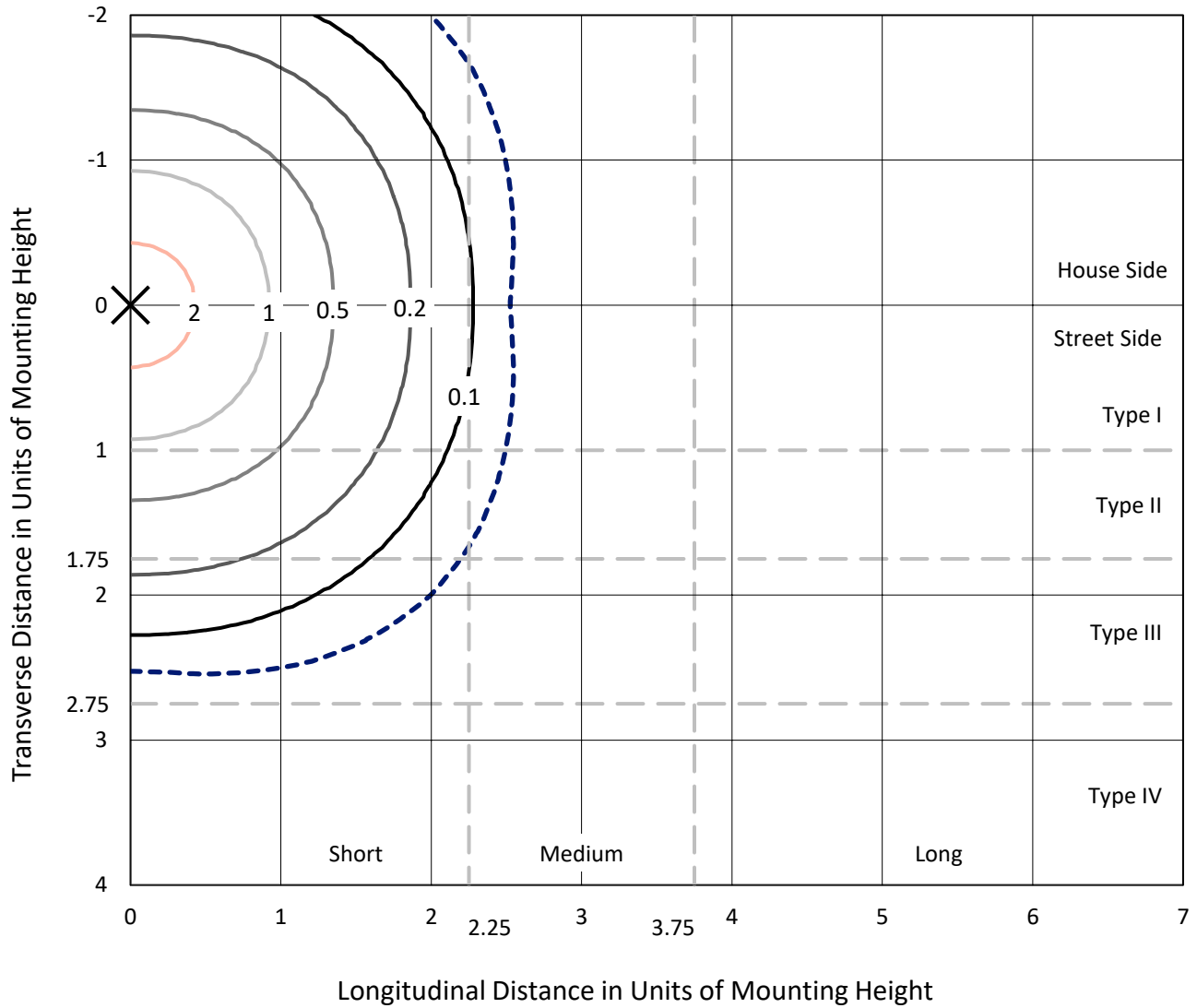
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

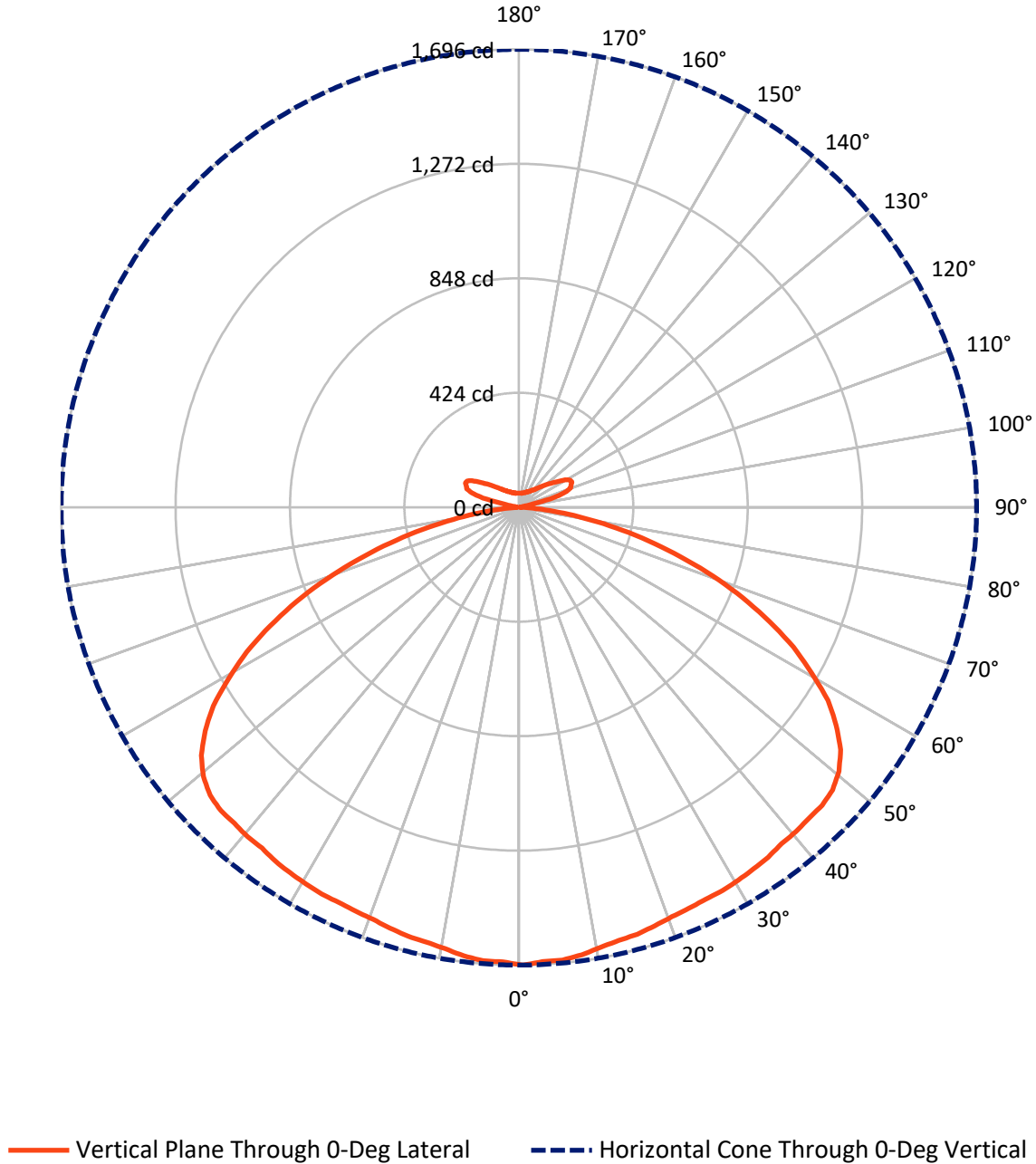
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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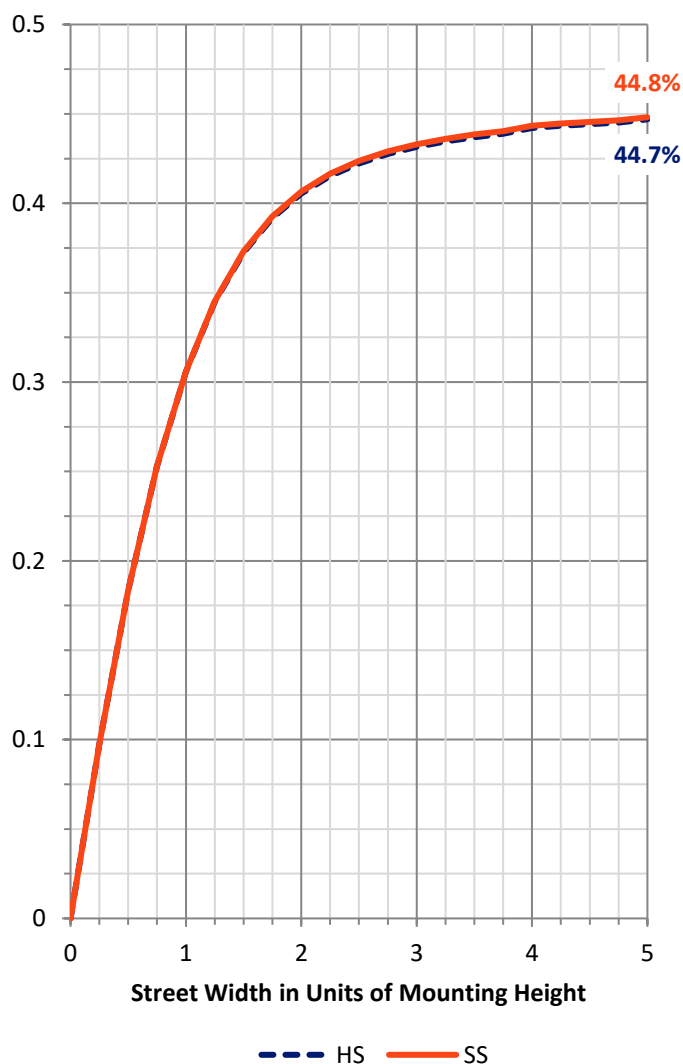
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3354.5	376.3	3730.8
	% Fixture	45.0	5.0	50.0
Street Side	Lumens	3354.5	376.3	3730.8
	% Fixture	45.0	5.0	50.0
Total	Lumens	6709.0	752.7	7461.7
	% Fixture	89.9	10.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	2.1
10°-20°	464.4	6.2
20°-30°	747.8	10.0
30°-40°	1005.8	13.5
40°-50°	1241.0	16.6
50°-60°	1331.4	17.8
60°-70°	1079.7	14.5
70°-80°	572.2	7.7
80°-90°	106.9	1.4
90°-100°	16.8	0.2
100°-110°	170.7	2.3
110°-120°	249.6	3.3
120°-130°	144.9	1.9
130°-140°	76.7	1.0
140°-150°	45.6	0.6
150°-160°	28.1	0.4
160°-170°	15.3	0.2
170°-180°	5.0	0.1
0°-90°	6709.0	89.9
0°-180°	7461.7	100.0

Coefficient of Utilization



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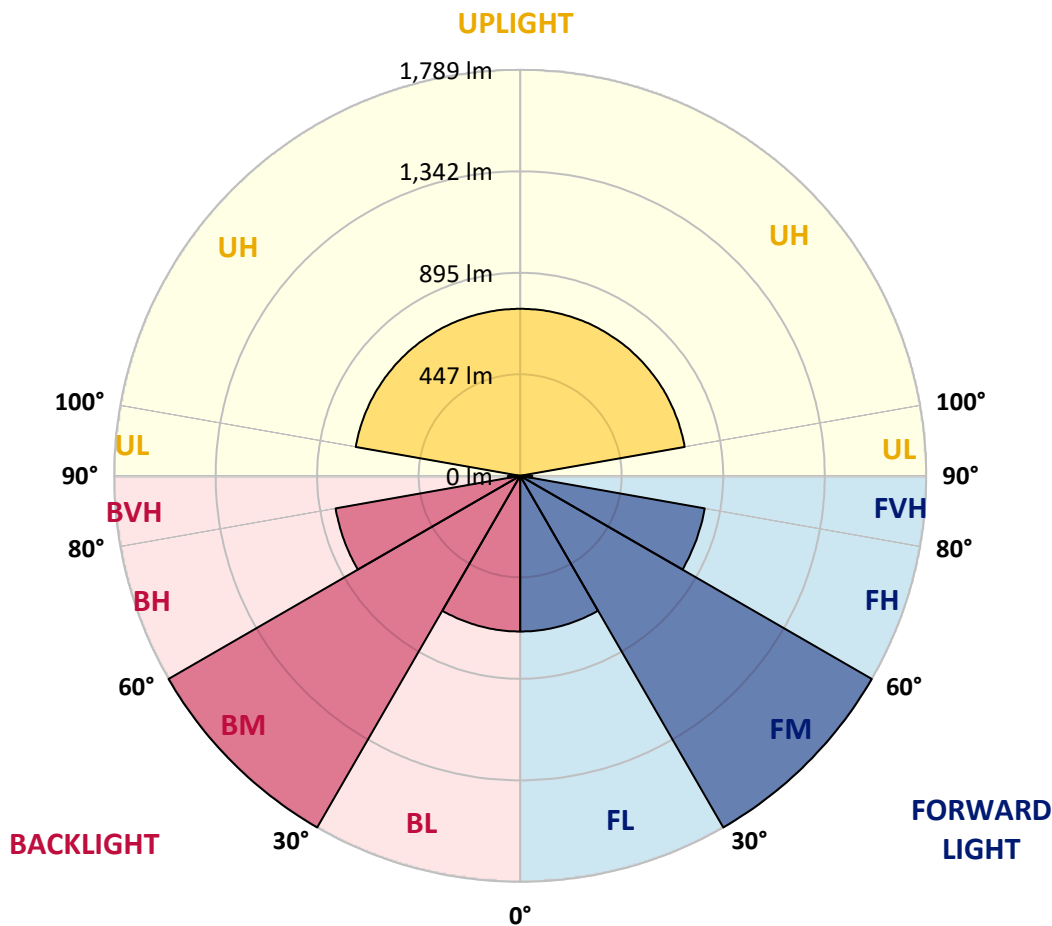
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.1	9.2			
FM (30°-60°)	1789.1	24.0			
FH (60°-80°)	825.9	11.1			G1/1800
FVH (80°-90°)	53.4	0.7			G1/100
BL (0°-30°)	686.1	9.2	B2/1000		
BM (30°-60°)	1789.1	24.0	B2/2500		
BH (60°-80°)	825.9	11.1	B2/1000		G1/1800
BVH (80°-90°)	53.4	0.7			G1/100
UL (90°-100°)	16.8	0.2		U2/50	
UH (100°-180°)	735.8	9.9		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°	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1690.7
5°	1685.2	1685.2	1685.2	1685.2	1679.7	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2
7.5°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
10°	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8	1657.8
12.5°	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8
15°	1641.3	1641.3	1641.3	1641.3	1641.3	1641.3	1641.3	1641.3	1641.3	1635.8	1635.8
17.5°	1630.3	1630.3	1630.3	1630.3	1635.8	1635.8	1635.8	1630.3	1630.3	1630.3	1630.3
20°	1619.4	1619.4	1619.4	1624.9	1624.9	1624.9	1624.9	1624.9	1619.4	1619.4	1619.4
22.5°	1613.9	1613.9	1613.9	1613.9	1619.4	1619.4	1619.4	1619.4	1613.9	1613.9	1613.9
25°	1608.4	1608.4	1613.9	1613.9	1619.4	1619.4	1619.4	1613.9	1613.9	1608.4	1608.4
27.5°	1608.4	1608.4	1613.9	1613.9	1619.4	1619.4	1619.4	1619.4	1613.9	1608.4	1608.4
30°	1602.9	1608.4	1608.4	1613.9	1619.4	1619.4	1619.4	1613.9	1608.4	1602.9	1602.9
32.5°	1597.4	1597.4	1602.9	1608.4	1613.9	1613.9	1613.9	1608.4	1602.9	1597.4	1591.9
35°	1591.9	1591.9	1591.9	1602.9	1608.4	1608.4	1608.4	1602.9	1591.9	1586.4	1586.4
37.5°	1580.9	1586.4	1591.9	1597.4	1608.4	1608.4	1608.4	1597.4	1586.4	1580.9	1575.4
40°	1580.9	1580.9	1591.9	1597.4	1613.9	1613.9	1608.4	1597.4	1586.4	1575.4	1570.0
42.5°	1575.4	1580.9	1591.9	1608.4	1624.9	1624.9	1619.4	1602.9	1586.4	1575.4	1570.0
45°	1575.4	1575.4	1591.9	1613.9	1635.8	1641.3	1630.3	1613.9	1591.9	1570.0	1570.0
47.5°	1564.5	1564.5	1586.4	1613.9	1641.3	1646.8	1641.3	1613.9	1586.4	1570.0	1564.5
50°	1537.0	1537.0	1564.5	1597.4	1630.3	1641.3	1630.3	1608.4	1570.0	1548.0	1542.5
52.5°	1493.1	1493.1	1520.6	1564.5	1597.4	1613.9	1602.9	1575.4	1537.0	1504.1	1498.6
55°	1427.2	1432.7	1460.2	1509.6	1548.0	1564.5	1553.5	1520.6	1476.6	1443.7	1432.7
57.5°	1350.4	1350.4	1388.8	1438.2	1476.6	1493.1	1482.1	1449.2	1399.8	1366.9	1355.9
60°	1246.1	1251.6	1284.5	1350.4	1388.8	1405.3	1394.3	1355.9	1301.0	1262.6	1251.6
62.5°	1141.8	1147.3	1180.2	1235.1	1279.0	1290.0	1279.0	1240.6	1191.2	1152.8	1141.8
65°	1021.0	1026.5	1064.9	1114.3	1147.3	1163.7	1147.3	1114.3	1070.4	1032.0	1026.5
67.5°	894.8	900.3	938.7	982.6	1015.5	1026.5	1010.0	982.6	938.7	905.7	894.8
70°	763.0	768.5	801.4	839.9	867.3	878.3	867.3	834.4	801.4	768.5	763.0
72.5°	625.8	631.3	664.2	697.1	719.1	730.1	713.6	691.7	658.7	631.3	625.8
75°	494.0	494.0	521.5	548.9	570.9	576.4	565.4	548.9	521.5	499.5	488.6
77.5°	367.8	367.8	395.2	411.7	422.7	433.7	422.7	406.2	389.7	367.8	367.8
80°	247.0	247.0	269.0	280.0	290.9	296.4	290.9	280.0	269.0	252.5	247.0
82.5°	148.2	148.2	159.2	170.2	170.2	175.7	175.7	170.2	159.2	148.2	148.2
85°	65.9	60.4	71.4	76.9	76.9	82.3	82.3	76.9	71.4	65.9	65.9
87.5°	5.5	11.0	11.0	16.5	16.5	16.5	16.5	16.5	11.0	11.0	11.0
90°	6.4	6.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	6.4
92.5°	6.4	6.4	6.4	9.0	10.3	9.0	10.3	7.7	7.7	6.4	6.4
95°	7.7	7.7	9.0	11.6	14.2	15.5	15.5	9.0	9.0	7.7	7.7
97.5°	10.3	11.6	11.6	14.2	23.2	42.5	25.8	12.9	12.9	11.6	10.3
100°	16.7	18.0	18.0	32.2	68.2	91.4	65.7	33.5	24.5	18.0	18.0
102.5°	54.1	56.7	69.5	104.3	154.5	140.4	118.5	112.0	77.3	61.8	59.2
105°	137.8	136.5	146.8	173.8	216.3	212.5	195.7	177.7	153.2	141.6	141.6
107.5°	181.6	181.6	190.6	213.8	245.9	287.1	291.0	230.5	202.2	189.3	188.0
110°	204.7	204.7	212.5	231.8	274.3	332.2	329.6	284.6	249.8	233.1	230.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	209.9	211.2	221.5	251.1	297.5	323.2	311.6	293.6	278.1	265.3	262.7
115°	217.6	217.6	229.2	257.5	283.3	293.6	280.7	266.5	256.2	251.1	253.7
117.5°	215.0	218.9	221.5	236.9	253.7	261.4	255.0	235.6	227.9	225.3	221.5
120°	199.6	199.6	202.2	209.9	218.9	222.8	220.2	207.3	200.9	199.6	197.0
122.5°	177.7	179.0	177.7	181.6	188.0	191.9	189.3	179.0	176.4	176.4	173.8
125°	155.8	155.8	154.5	157.1	161.0	159.7	161.0	155.8	154.5	154.5	153.2
127.5°	140.4	139.1	136.5	137.8	139.1	139.1	140.4	135.2	136.5	137.8	136.5
130°	124.9	124.9	122.3	122.3	122.3	119.8	122.3	119.8	121.0	122.3	123.6
132.5°	110.7	110.7	106.9	105.6	105.6	105.6	106.9	105.6	108.2	110.7	110.7
135°	99.2	99.2	95.3	96.6	96.6	95.3	96.6	95.3	97.9	99.2	99.2
137.5°	90.1	90.1	87.6	87.6	87.6	86.3	87.6	87.6	88.8	91.4	92.7
140°	82.4	82.4	81.1	81.1	79.8	81.1	81.1	81.1	82.4	83.7	83.7
142.5°	78.5	77.3	76.0	74.7	76.0	76.0	76.0	74.7	76.0	78.5	78.5
145°	72.1	72.1	70.8	70.8	70.8	72.1	70.8	70.8	72.1	72.1	73.4
147.5°	68.2	68.2	67.0	68.2	68.2	68.2	68.2	67.0	68.2	68.2	69.5
150°	67.0	65.7	64.4	65.7	65.7	64.4	64.4	64.4	64.4	65.7	65.7
152.5°	63.1	63.1	61.8	63.1	61.8	61.8	61.8	61.8	61.8	63.1	64.4
155°	60.5	60.5	59.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
157.5°	57.9	59.2	57.9	57.9	57.9	57.9	57.9	57.9	57.9	59.2	59.2
160°	56.7	56.7	56.7	56.7	55.4	55.4	55.4	56.7	56.7	56.7	57.9
162.5°	55.4	55.4	55.4	55.4	54.1	54.1	54.1	54.1	55.4	55.4	56.7
165°	55.4	54.1	54.1	54.1	52.8	52.8	52.8	52.8	54.1	55.4	54.1
167.5°	52.8	52.8	52.8	52.8	52.8	51.5	51.5	52.8	52.8	52.8	54.1
170°	52.8	52.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	52.8
172.5°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	51.5	51.5	52.8	52.8
175°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	52.8	52.8	52.8	51.5
177.5°	52.8	52.8	52.8	52.8	51.5	52.8	52.8	52.8	52.8	52.8	52.8
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

(END OF REPORT)