

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: P833892

Luminaire Tested: **TTN-D3-735-U-MQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833892
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-MQ-CG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7515.7 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

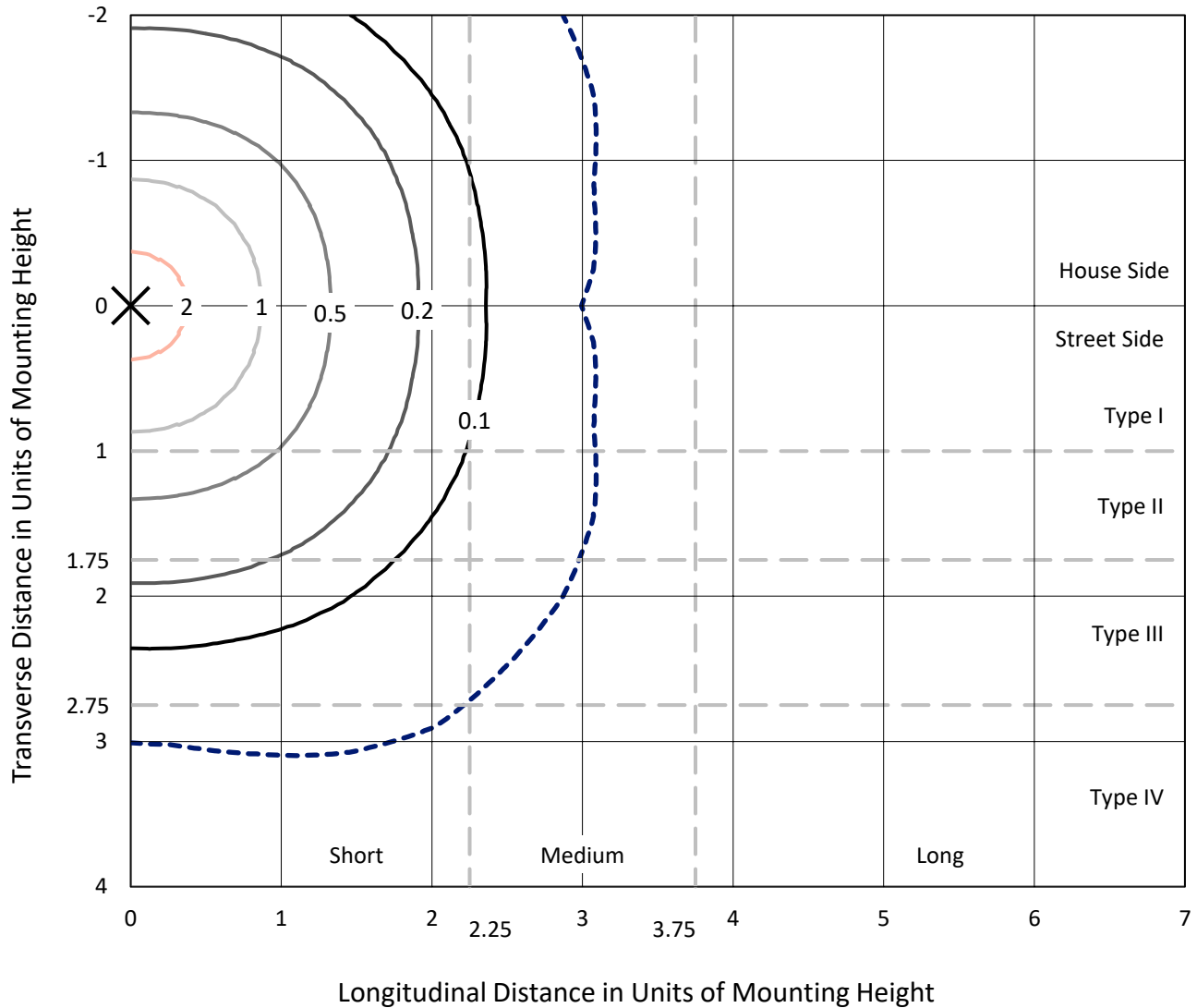
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

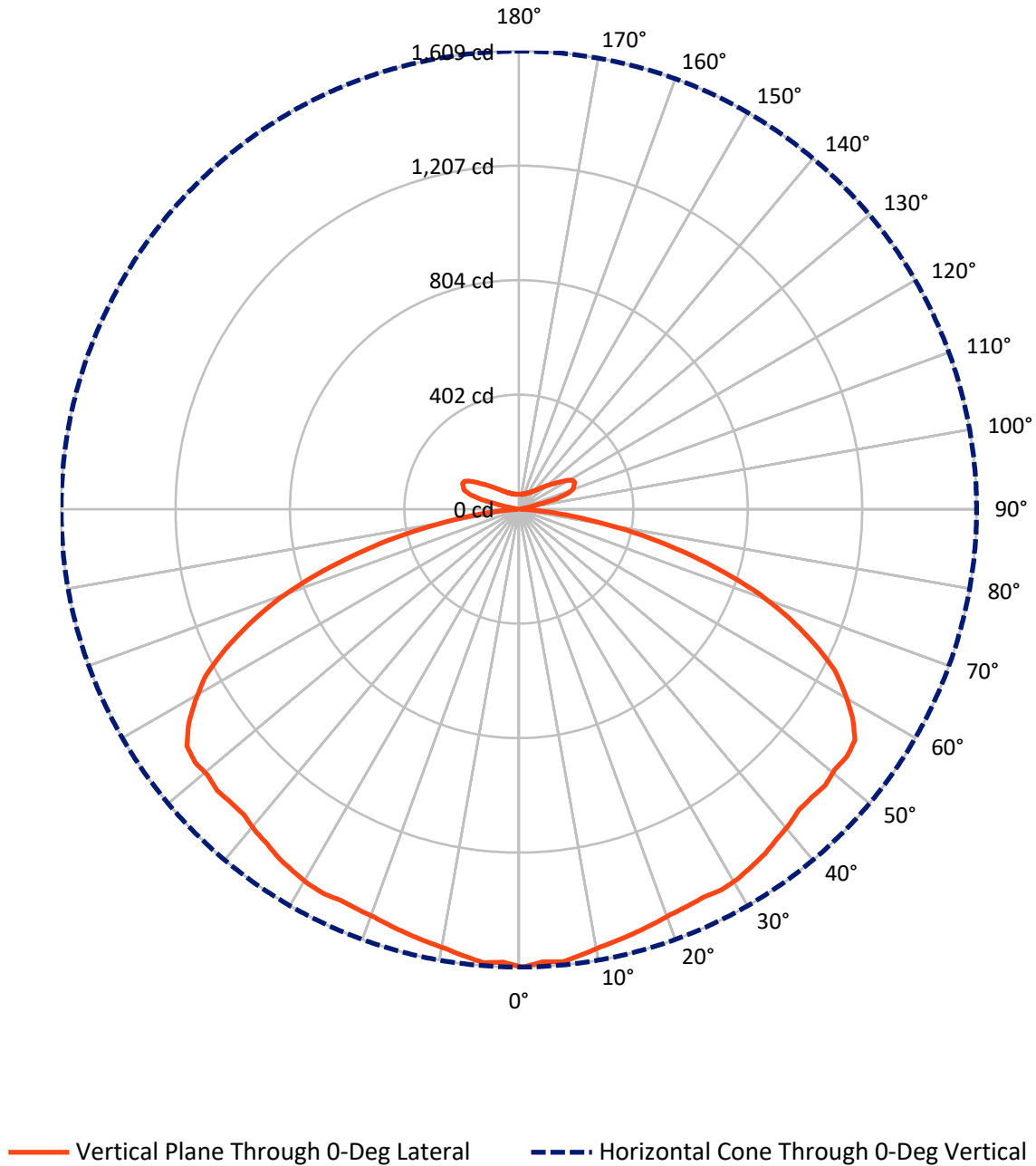
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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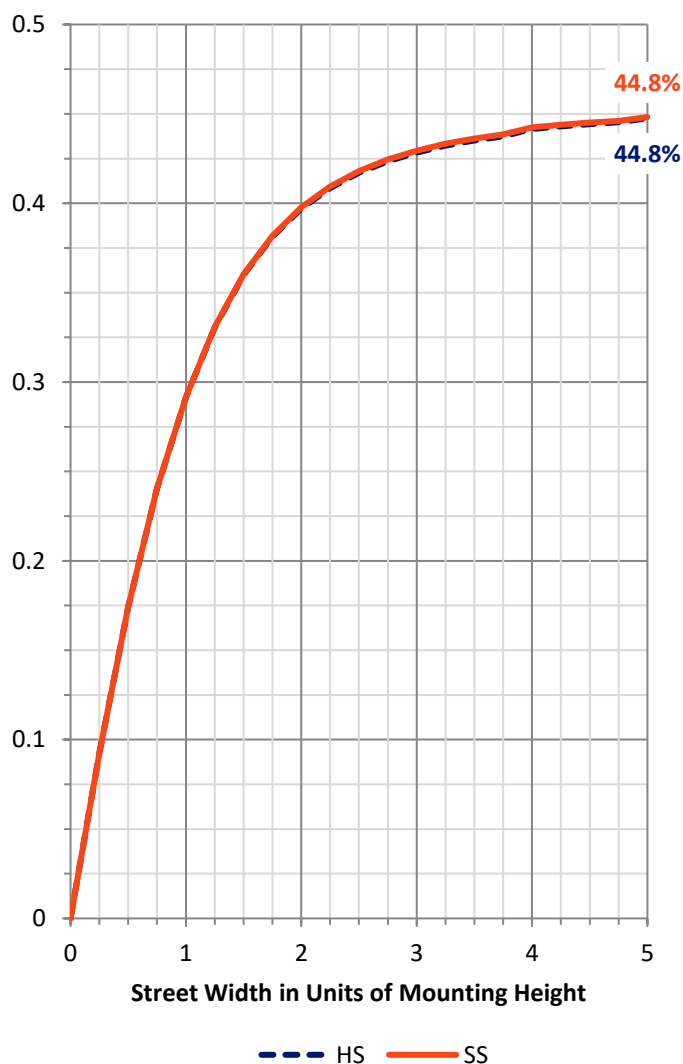
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3381.5	376.3	3757.8
	% Fixture	45.0	5.0	50.0
Street Side	Lumens	3381.5	376.3	3757.8
	% Fixture	45.0	5.0	50.0
Total	Lumens	6763.0	752.7	7515.7
	% Fixture	90.0	10.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	2.0
10°-20°	437.0	5.8
20°-30°	703.0	9.4
30°-40°	939.2	12.5
40°-50°	1141.1	15.2
50°-60°	1325.8	17.6
60°-70°	1223.2	16.3
70°-80°	716.1	9.5
80°-90°	126.5	1.7
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°	6763.0	90.0
0°-180°	7515.7	100.0

Coefficient of Utilization

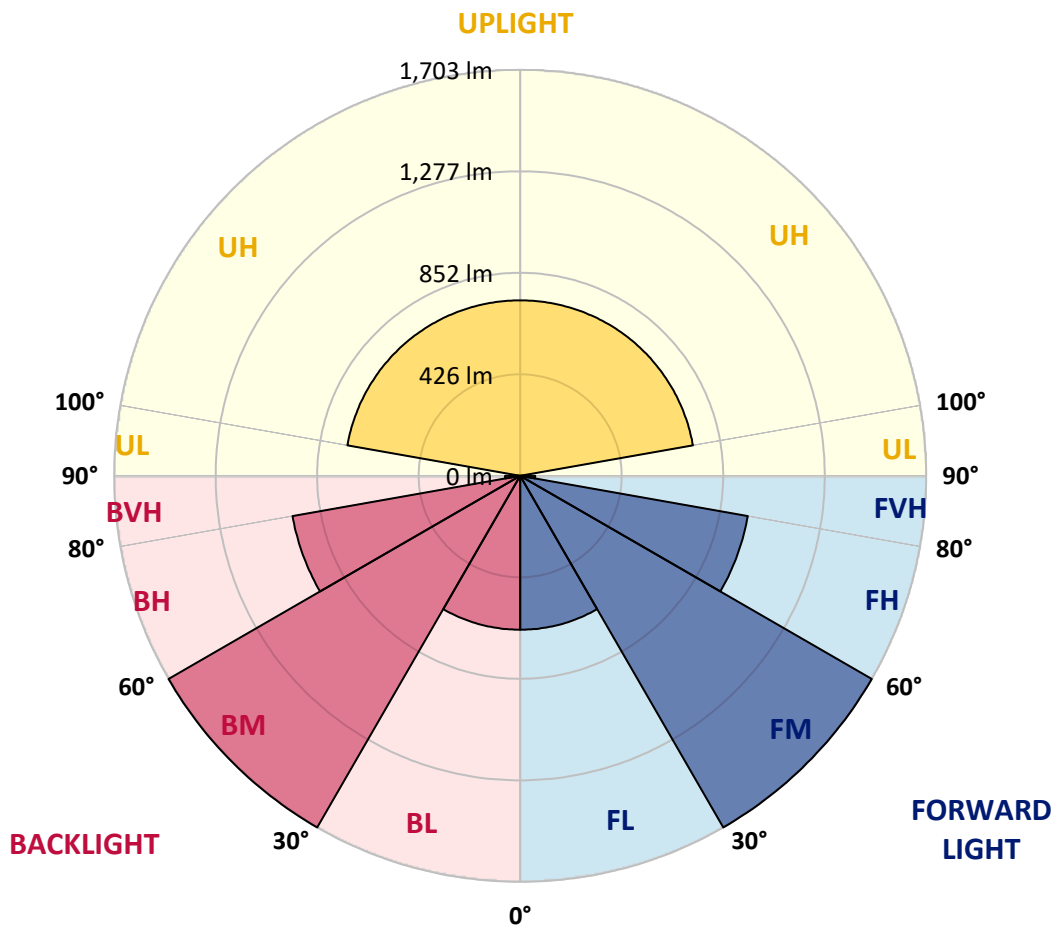


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.6	8.6			
FM (30°-60°)	1703.1	22.7			
FH (60°-80°)	969.7	12.9			G1/1800
FVH (80°-90°)	63.2	0.8			G1/100
BL (0°-30°)	645.6	8.6	B2/1000		
BM (30°-60°)	1703.1	22.7	B2/2500		
BH (60°-80°)	969.7	12.9	B2/1000		G1/1800
BVH (80°-90°)	63.2	0.8			G1/100
UL (90°-100°)	16.8	0.2		U2/50	
UH (100°-180°)	735.8	9.8		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°	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7	1608.7
2.5°	1592.2	1597.7	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1592.2	1597.7
5°	1597.7	1597.7	1597.7	1597.7	1592.2	1592.2	1592.2	1592.2	1592.2	1597.7	1597.7
7.5°	1581.2	1581.2	1581.2	1581.2	1581.2	1575.7	1581.2	1581.2	1581.2	1581.2	1581.2
10°	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7	1564.7
12.5°	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1548.3	1548.3
15°	1542.8	1542.8	1542.8	1542.8	1548.3	1548.3	1542.8	1542.8	1542.8	1542.8	1542.8
17.5°	1531.8	1531.8	1531.8	1531.8	1537.3	1537.3	1537.3	1531.8	1531.8	1531.8	1531.8
20°	1520.8	1520.8	1520.8	1520.8	1526.3	1526.3	1526.3	1526.3	1526.3	1520.8	1520.8
22.5°	1515.3	1515.3	1515.3	1515.3	1520.8	1520.8	1520.8	1520.8	1515.3	1515.3	1515.3
25°	1509.8	1515.3	1515.3	1515.3	1520.8	1526.3	1526.3	1520.8	1515.3	1509.8	1509.8
27.5°	1515.3	1515.3	1515.3	1520.8	1520.8	1526.3	1526.3	1520.8	1515.3	1515.3	1515.3
30°	1509.8	1509.8	1509.8	1515.3	1520.8	1526.3	1520.8	1520.8	1515.3	1509.8	1509.8
32.5°	1498.9	1498.9	1504.4	1509.8	1515.3	1515.3	1515.3	1509.8	1504.4	1498.9	1498.9
35°	1487.9	1487.9	1487.9	1493.4	1504.4	1504.4	1504.4	1498.9	1493.4	1487.9	1482.4
37.5°	1471.4	1476.9	1476.9	1487.9	1493.4	1498.9	1493.4	1487.9	1476.9	1471.4	1471.4
40°	1460.4	1460.4	1465.9	1476.9	1487.9	1487.9	1482.4	1476.9	1465.9	1460.4	1460.4
42.5°	1444.0	1444.0	1454.9	1465.9	1482.4	1482.4	1476.9	1465.9	1454.9	1444.0	1444.0
45°	1444.0	1444.0	1454.9	1476.9	1487.9	1498.9	1487.9	1476.9	1454.9	1444.0	1438.5
47.5°	1449.4	1449.4	1460.4	1487.9	1509.8	1520.8	1504.4	1482.4	1460.4	1449.4	1444.0
50°	1438.5	1444.0	1465.9	1493.4	1520.8	1526.3	1520.8	1487.9	1465.9	1438.5	1438.5
52.5°	1444.0	1444.0	1471.4	1515.3	1542.8	1553.8	1542.8	1515.3	1465.9	1438.5	1438.5
55°	1433.0	1427.5	1465.9	1515.3	1559.3	1581.2	1559.3	1515.3	1460.4	1427.5	1422.0
57.5°	1383.6	1383.6	1433.0	1482.4	1537.3	1548.3	1531.8	1482.4	1427.5	1383.6	1372.6
60°	1317.7	1323.2	1372.6	1427.5	1476.9	1482.4	1471.4	1427.5	1372.6	1323.2	1306.7
62.5°	1246.3	1257.3	1306.7	1361.6	1422.0	1433.0	1416.5	1361.6	1295.7	1262.8	1235.3
65°	1142.0	1158.5	1213.4	1273.8	1339.6	1334.2	1334.2	1268.3	1218.9	1164.0	1136.5
67.5°	1026.7	1043.2	1081.6	1164.0	1218.9	1213.4	1207.9	1164.0	1081.6	1043.2	1026.7
70°	900.4	911.4	949.8	1032.2	1081.6	1087.1	1070.6	1026.7	949.8	922.4	894.9
72.5°	752.2	757.7	812.6	878.5	927.9	922.4	916.9	878.5	807.1	779.6	746.7
75°	593.0	598.4	647.9	708.3	746.7	741.2	735.7	708.3	647.9	614.9	587.5
77.5°	444.7	439.2	488.6	532.6	554.5	560.0	549.0	527.1	483.1	455.7	439.2
80°	291.0	285.5	329.4	362.4	378.8	378.8	373.3	356.9	323.9	302.0	291.0
82.5°	164.7	159.2	186.7	208.6	225.1	219.6	214.1	203.1	186.7	170.2	159.2
85°	60.4	60.4	76.9	87.8	98.8	98.8	93.3	87.8	71.4	65.9	60.4
87.5°	5.5	5.5	11.0	16.5	16.5	16.5	11.0	11.0	5.5	5.5	5.5
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)