

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: P833561

Luminaire Tested: **TTN-D2-740-U-MQ-CG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833561
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-D2-740-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: 5945.7 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

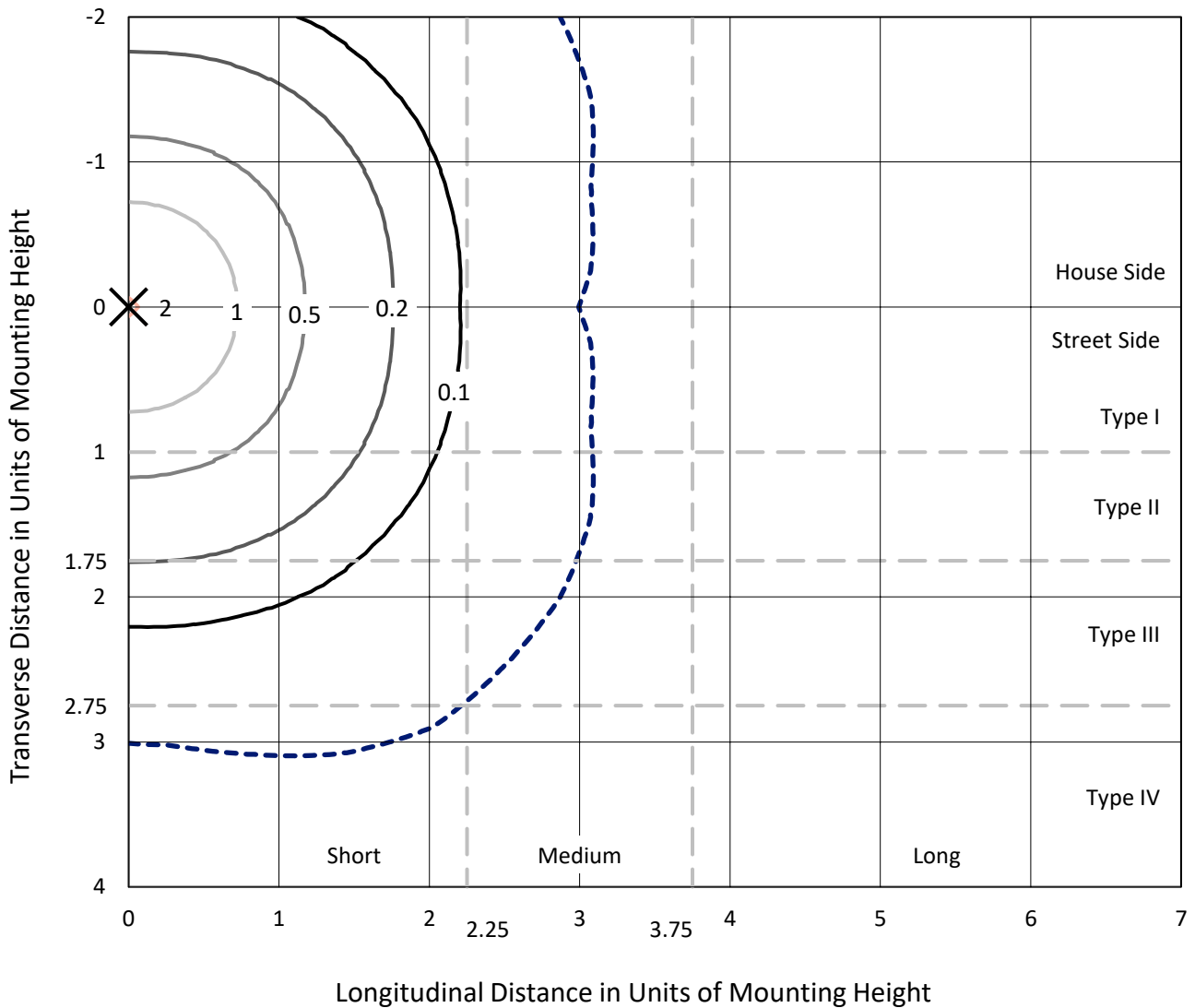
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

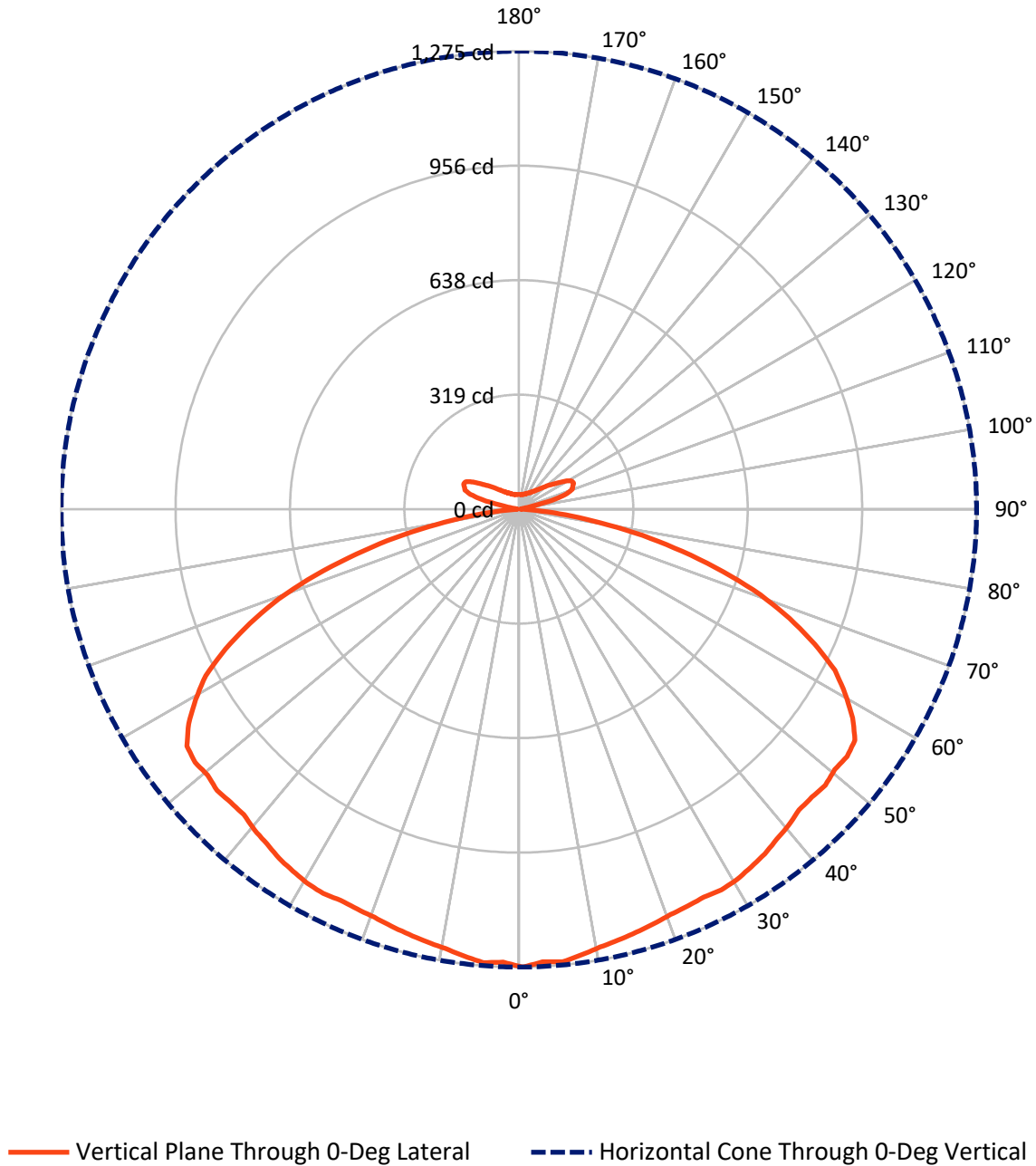
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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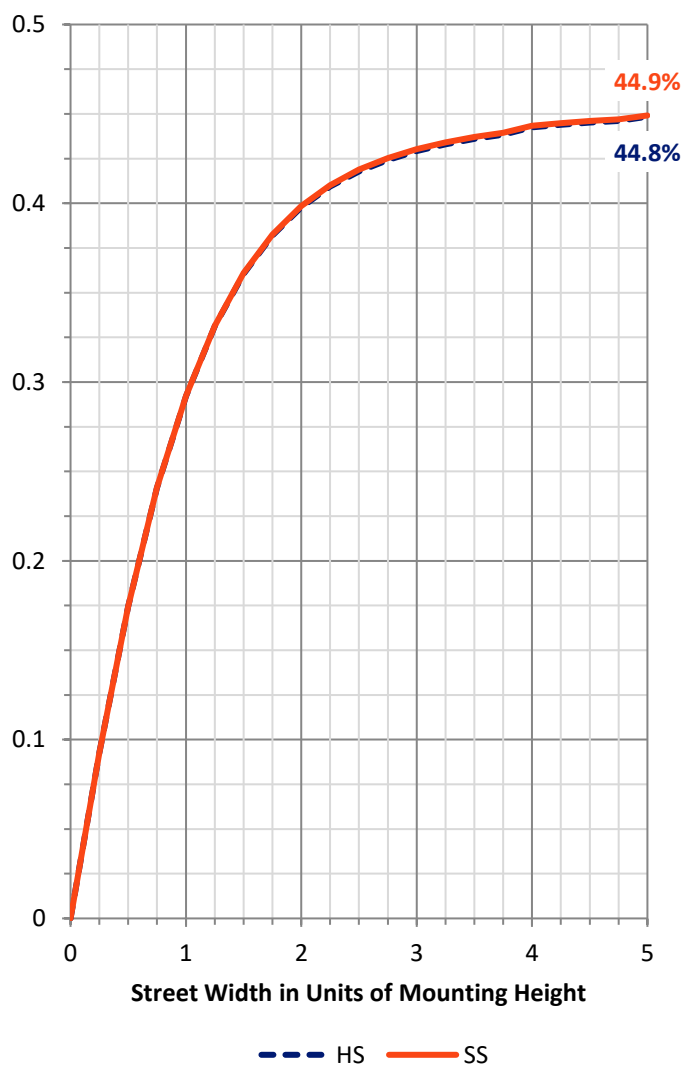
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2680.4	292.5	2972.8
	% Fixture	45.1	4.9	50.0
Street Side	Lumens	2680.4	292.5	2972.8
	% Fixture	45.1	4.9	50.0
Total	Lumens	5360.8	584.9	5945.7
	% Fixture	90.2	9.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	2.0
10°-20°	346.4	5.8
20°-30°	557.3	9.4
30°-40°	744.4	12.5
40°-50°	904.5	15.2
50°-60°	1050.9	17.7
60°-70°	969.6	16.3
70°-80°	567.6	9.5
80°-90°	100.2	1.7
90°-100°	13.1	0.2
100°-110°	132.7	2.2
110°-120°	194.0	3.3
120°-130°	112.6	1.9
130°-140°	59.7	1.0
140°-150°	35.4	0.6
150°-160°	21.8	0.4
160°-170°	11.9	0.2
170°-180°	3.9	0.1
0°-90°	5360.8	90.2
0°-180°	5945.7	100.0

Coefficient of Utilization

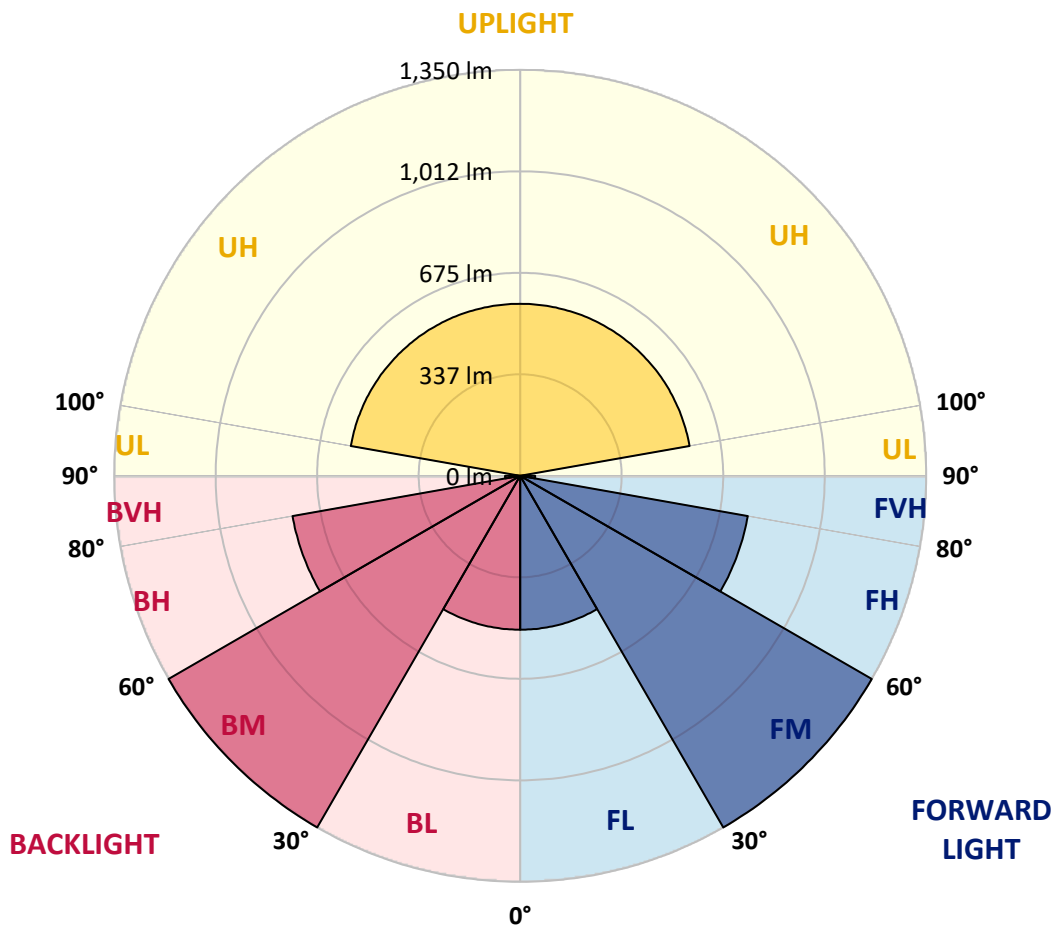


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.7	8.6			
FM (30°-60°)	1349.9	22.7			
FH (60°-80°)	768.6	12.9			G1/1800
FVH (80°-90°)	50.1	0.8			G1/100
BL (0°-30°)	511.7	8.6	B2/1000		
BM (30°-60°)	1349.9	22.7	B2/2500		
BH (60°-80°)	768.6	12.9	B2/1000		G1/1800
BVH (80°-90°)	50.1	0.8			G1/100
UL (90°-100°)	13.1	0.2		U2/50	
UH (100°-180°)	571.8	9.6		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°	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1
2.5°	1262.1	1266.4	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1266.4
5°	1266.4	1266.4	1266.4	1266.4	1262.1	1262.1	1262.1	1262.1	1262.1	1266.4	1266.4
7.5°	1253.4	1253.4	1253.4	1253.4	1253.4	1249.0	1253.4	1253.4	1253.4	1253.4	1253.4
10°	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3
12.5°	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1231.6	1227.3	1227.3
15°	1222.9	1222.9	1222.9	1222.9	1227.3	1227.3	1222.9	1222.9	1222.9	1222.9	1222.9
17.5°	1214.2	1214.2	1214.2	1214.2	1218.6	1218.6	1218.6	1214.2	1214.2	1214.2	1214.2
20°	1205.5	1205.5	1205.5	1205.5	1209.9	1209.9	1209.9	1209.9	1209.9	1205.5	1205.5
22.5°	1201.1	1201.1	1201.1	1201.1	1205.5	1205.5	1205.5	1205.5	1201.1	1201.1	1201.1
25°	1196.8	1201.1	1201.1	1201.1	1205.5	1209.9	1209.9	1205.5	1201.1	1196.8	1196.8
27.5°	1201.1	1201.1	1201.1	1205.5	1205.5	1209.9	1209.9	1205.5	1201.1	1201.1	1201.1
30°	1196.8	1196.8	1196.8	1201.1	1205.5	1209.9	1205.5	1205.5	1201.1	1196.8	1196.8
32.5°	1188.1	1188.1	1192.4	1196.8	1201.1	1201.1	1201.1	1196.8	1192.4	1188.1	1188.1
35°	1179.4	1179.4	1179.4	1183.7	1192.4	1192.4	1192.4	1188.1	1183.7	1179.4	1175.0
37.5°	1166.3	1170.7	1170.7	1179.4	1183.7	1188.1	1183.7	1179.4	1170.7	1166.3	1166.3
40°	1157.6	1157.6	1162.0	1170.7	1179.4	1179.4	1175.0	1170.7	1162.0	1157.6	1157.6
42.5°	1144.6	1144.6	1153.3	1162.0	1175.0	1175.0	1170.7	1162.0	1153.3	1144.6	1144.6
45°	1144.6	1144.6	1153.3	1170.7	1179.4	1188.1	1179.4	1170.7	1153.3	1144.6	1140.2
47.5°	1148.9	1148.9	1157.6	1179.4	1196.8	1205.5	1192.4	1175.0	1157.6	1148.9	1144.6
50°	1140.2	1144.6	1162.0	1183.7	1205.5	1209.9	1205.5	1179.4	1162.0	1140.2	1140.2
52.5°	1144.6	1144.6	1166.3	1201.1	1222.9	1231.6	1222.9	1201.1	1162.0	1140.2	1140.2
55°	1135.9	1131.5	1162.0	1201.1	1236.0	1253.4	1236.0	1201.1	1157.6	1131.5	1127.2
57.5°	1096.7	1096.7	1135.9	1175.0	1218.6	1227.3	1214.2	1175.0	1131.5	1096.7	1088.0
60°	1044.5	1048.8	1088.0	1131.5	1170.7	1175.0	1166.3	1131.5	1088.0	1048.8	1035.8
62.5°	987.9	996.6	1035.8	1079.3	1127.2	1135.9	1122.8	1079.3	1027.1	1001.0	979.2
65°	905.2	918.3	961.8	1009.7	1061.9	1057.5	1057.5	1005.3	966.1	922.6	900.9
67.5°	813.8	826.9	857.3	922.6	966.1	961.8	957.4	922.6	857.3	826.9	813.8
70°	713.7	722.4	752.9	818.2	857.3	861.7	848.6	813.8	752.9	731.1	709.4
72.5°	596.2	600.6	644.1	696.3	735.5	731.1	726.8	696.3	639.7	618.0	591.9
75°	470.0	474.4	513.5	561.4	591.9	587.5	583.2	561.4	513.5	487.4	465.7
77.5°	352.5	348.2	387.3	422.1	439.6	443.9	435.2	417.8	383.0	361.2	348.2
80°	230.7	226.3	261.1	287.2	300.3	300.3	295.9	282.9	256.8	239.4	230.7
82.5°	130.6	126.2	148.0	165.4	178.4	174.1	169.7	161.0	148.0	134.9	126.2
85°	47.9	47.9	60.9	69.6	78.3	78.3	74.0	69.6	56.6	52.2	47.9
87.5°	4.4	4.4	8.7	13.1	13.1	13.1	8.7	8.7	4.4	4.4	4.4
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)