

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: P833930

Luminaire Tested: **TTN-D3-740-U-RW-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833930  
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-RW-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

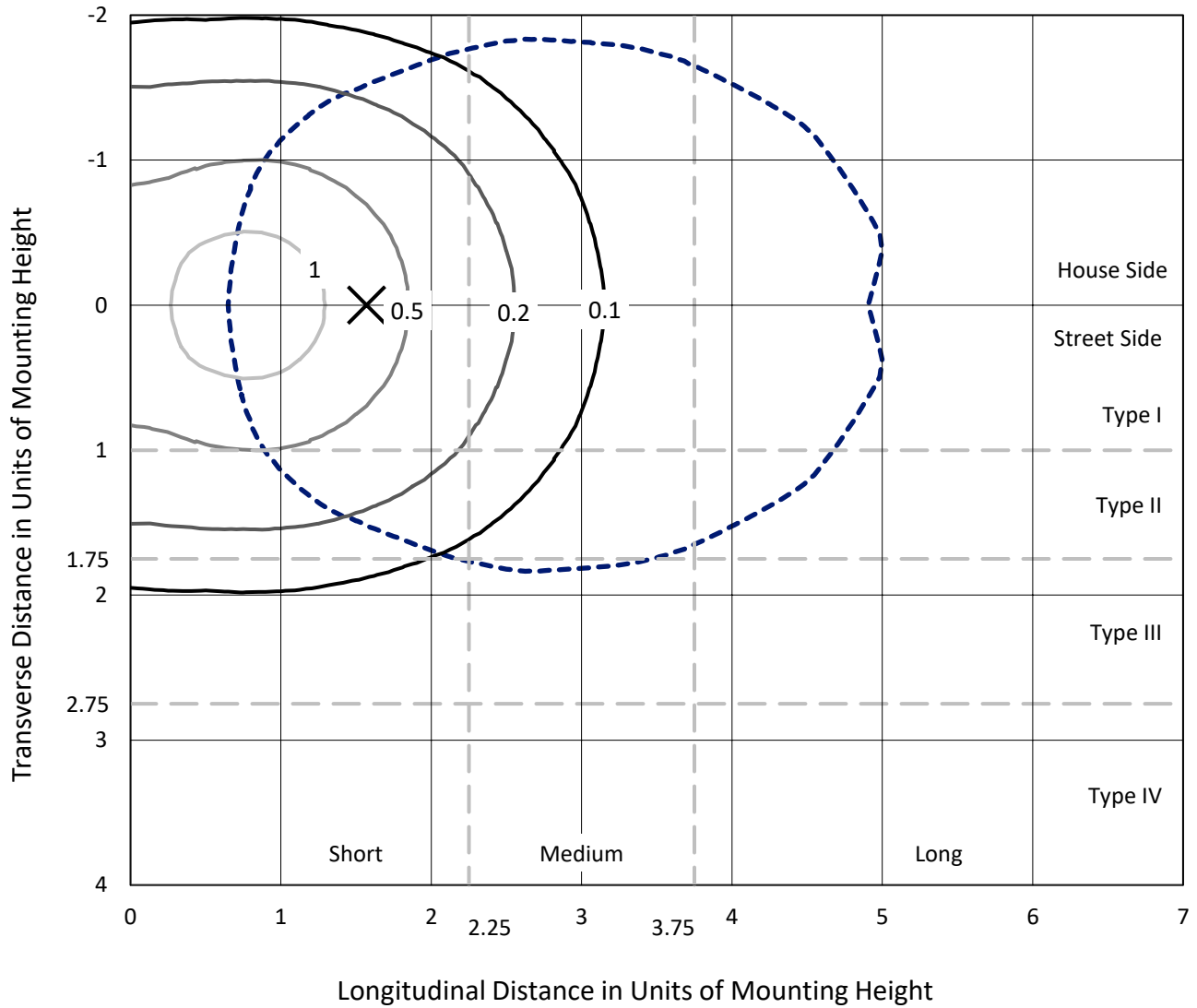
Lumens per Lamp: N/A  
Luminaire Lumens: 7446.7 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type II - Short  
BUG Rating: B3 - U4 - G3  
  
Input Watts (W): 63.7  
Input Voltage (V): NR  
Input Current (Ain): 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

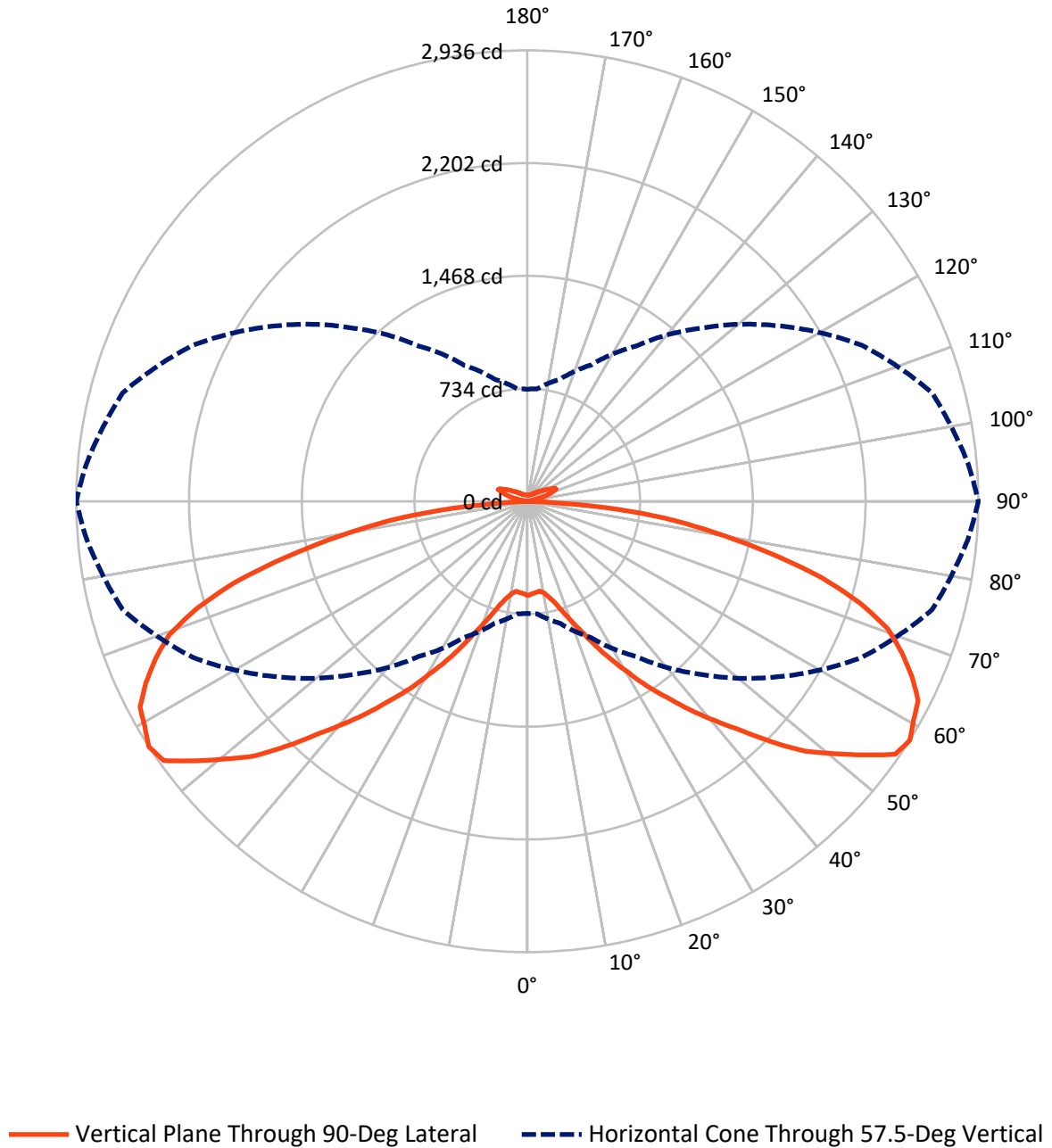
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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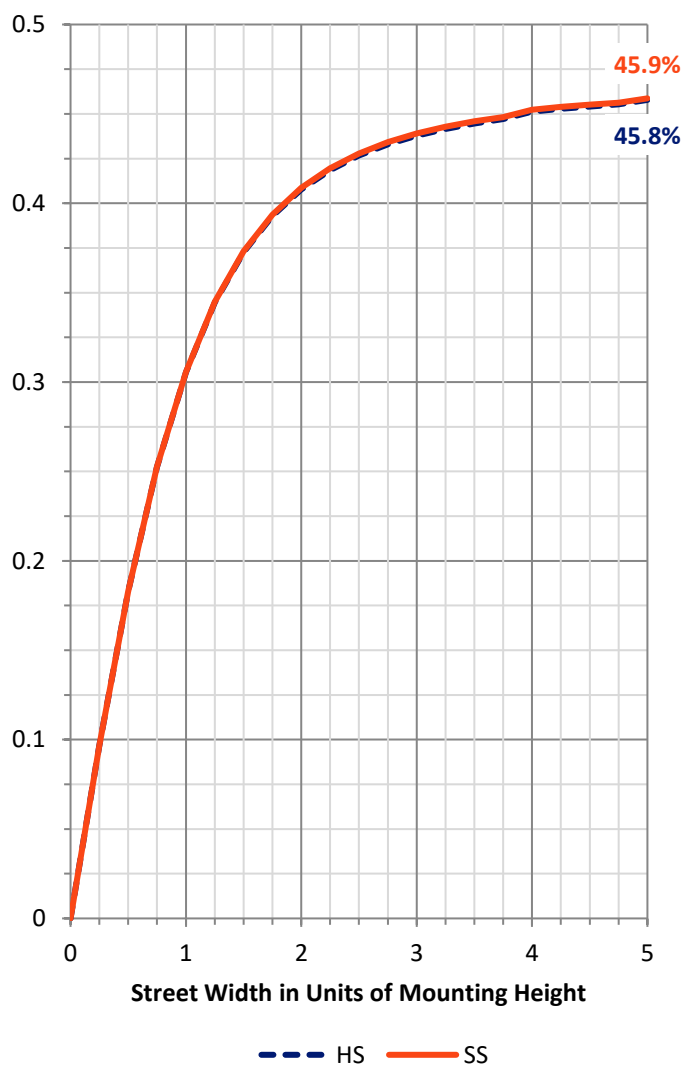
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3430.9	292.5	3723.4
	% Fixture	46.1	3.9	50.0
<b>Street Side</b>	Lumens	3430.9	292.5	3723.4
	% Fixture	46.1	3.9	50.0
<b>Total</b>	Lumens	6861.8	584.9	7446.7
	% Fixture	92.1	7.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	0.8
10°-20°	184.0	2.5
20°-30°	383.9	5.2
30°-40°	688.5	9.2
40°-50°	1100.1	14.8
50°-60°	1506.1	20.2
60°-70°	1553.5	20.9
70°-80°	1104.8	14.8
80°-90°	283.6	3.8
90°-100°	13.1	0.2
100°-110°	132.7	1.8
110°-120°	194.0	2.6
120°-130°	112.6	1.5
130°-140°	59.7	0.8
140°-150°	35.4	0.5
150°-160°	21.8	0.3
160°-170°	11.9	0.2
170°-180°	3.9	0.1
0°-90°	6861.8	92.1
0°-180°	7446.7	100.0

**Coefficient of Utilization**

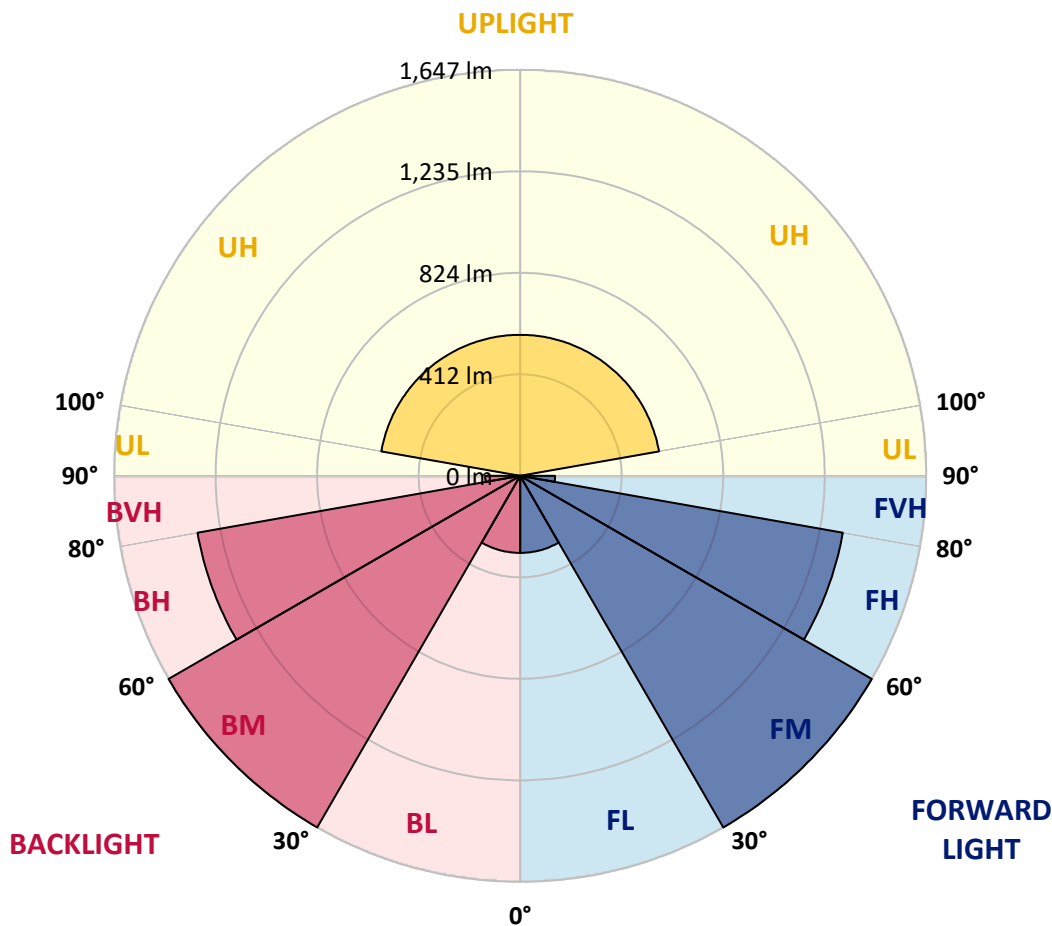


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.7	4.2			
FM (30°-60°)	1647.3	22.1			
FH (60°-80°)	1329.1	17.8			G1/1800
FVH (80°-90°)	141.8	1.9			G2/225
BL (0°-30°)	312.7	4.2	B1/500		
BM (30°-60°)	1647.3	22.1	B2/2500		
BH (60°-80°)	1329.1	17.8	B3/2500		G3/2500
BVH (80°-90°)	141.8	1.9			G2/225
UL (90°-100°)	13.1	0.2		U2/50	
UH (100°-180°)	571.8	7.7		U4/1000	

**BUG Rating: B3-U4-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7
2.5°	613.7	613.7	608.0	608.0	608.0	602.2	602.2	602.2	602.2	596.4	602.2
5°	613.7	613.7	613.7	613.7	608.0	602.2	602.2	602.2	596.4	596.4	596.4
7.5°	608.0	608.0	608.0	608.0	602.2	596.4	596.4	596.4	590.6	590.6	590.6
10°	602.2	608.0	602.2	602.2	596.4	596.4	602.2	602.2	608.0	608.0	608.0
12.5°	596.4	596.4	596.4	602.2	602.2	608.0	619.5	631.1	636.9	642.7	642.7
15°	596.4	596.4	602.2	608.0	619.5	631.1	648.5	665.9	677.4	689.0	689.0
17.5°	596.4	596.4	602.2	619.5	636.9	660.1	689.0	712.2	735.3	752.7	758.5
20°	596.4	596.4	608.0	631.1	665.9	700.6	741.1	775.9	810.6	839.6	839.6
22.5°	602.2	608.0	619.5	648.5	700.6	752.7	804.8	856.9	897.5	932.2	932.2
25°	613.7	613.7	631.1	677.4	741.1	810.6	885.9	949.6	1001.7	1048.0	1048.0
27.5°	619.5	625.3	648.5	706.4	787.4	874.3	978.5	1053.8	1123.3	1163.8	1169.6
30°	631.1	636.9	671.6	729.5	828.0	938.0	1059.6	1163.8	1239.1	1279.6	1291.2
32.5°	636.9	642.7	689.0	758.5	868.5	995.9	1134.8	1268.0	1372.2	1418.6	1435.9
35°	654.3	660.1	706.4	787.4	914.8	1059.6	1221.7	1378.0	1499.6	1557.5	1569.1
37.5°	671.6	677.4	723.8	816.4	961.1	1129.1	1314.3	1493.8	1632.8	1702.3	1725.4
40°	683.2	689.0	741.1	851.1	1013.3	1204.3	1418.6	1615.4	1771.7	1858.6	1876.0
42.5°	700.6	706.4	764.3	880.1	1059.6	1279.6	1528.6	1748.6	1916.5	2014.9	2038.1
45°	718.0	723.8	787.4	914.8	1111.7	1360.7	1638.6	1904.9	2096.0	2211.8	2235.0
47.5°	735.3	741.1	810.6	949.6	1163.8	1441.7	1754.4	2043.9	2275.5	2385.5	2431.8
50°	741.1	752.7	822.2	972.7	1198.5	1511.2	1852.8	2182.8	2426.0	2570.8	2582.4
52.5°	746.9	758.5	833.8	990.1	1227.5	1563.3	1933.9	2298.6	2582.4	2756.1	2744.5
55°	752.7	752.7	833.8	990.1	1239.1	1598.0	1991.8	2373.9	2686.6	2825.5	2906.6
57.5°	729.5	735.3	822.2	978.5	1233.3	1592.3	1991.8	2402.9	2727.1	2877.6	2935.5
60°	700.6	712.2	793.2	949.6	1210.1	1574.9	1980.2	2391.3	2744.5	2906.6	2889.2
62.5°	660.1	683.2	752.7	909.0	1175.4	1534.4	1962.8	2362.3	2703.9	2871.9	2854.5
65°	613.7	636.9	700.6	868.5	1100.1	1435.9	1870.2	2304.4	2593.9	2785.0	2750.3
67.5°	567.4	584.8	648.5	799.0	1013.3	1331.7	1748.6	2177.1	2437.6	2646.0	2628.7
70°	515.3	521.1	584.8	718.0	926.4	1227.5	1632.8	1997.6	2298.6	2455.0	2489.7
72.5°	451.6	451.6	515.3	631.1	822.2	1088.5	1476.5	1794.9	2078.6	2211.8	2263.9
75°	370.6	376.4	428.5	532.7	689.0	932.2	1256.4	1580.7	1818.1	1957.0	1974.4
77.5°	289.5	295.3	335.8	422.7	555.8	752.7	1036.4	1291.2	1517.0	1638.6	1603.8
80°	208.4	214.2	243.2	306.9	411.1	561.6	799.0	1024.8	1187.0	1285.4	1239.1
82.5°	127.4	133.2	150.5	191.1	260.6	364.8	544.3	712.2	839.6	920.6	903.2
85°	63.7	63.7	75.3	86.9	110.0	162.1	260.6	359.0	457.4	515.3	497.9
87.5°	11.6	17.4	17.4	17.4	17.4	11.6	17.4	17.4	17.4	29.0	11.6
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)