

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: P834042

Luminaire Tested: **TTN-D3-830-U-MQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P834042
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-D3-830-U-MQ-CG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7133.7 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

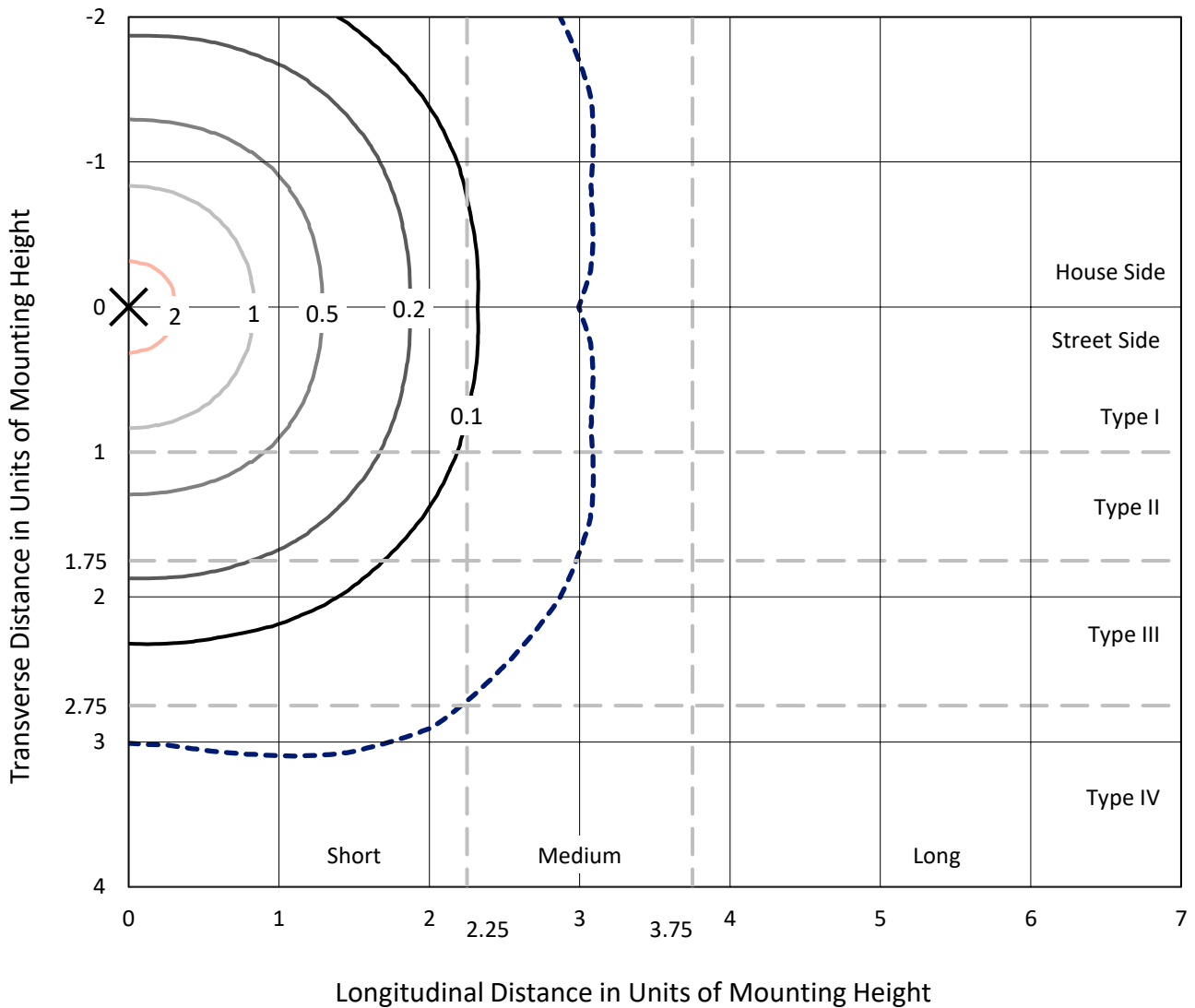
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

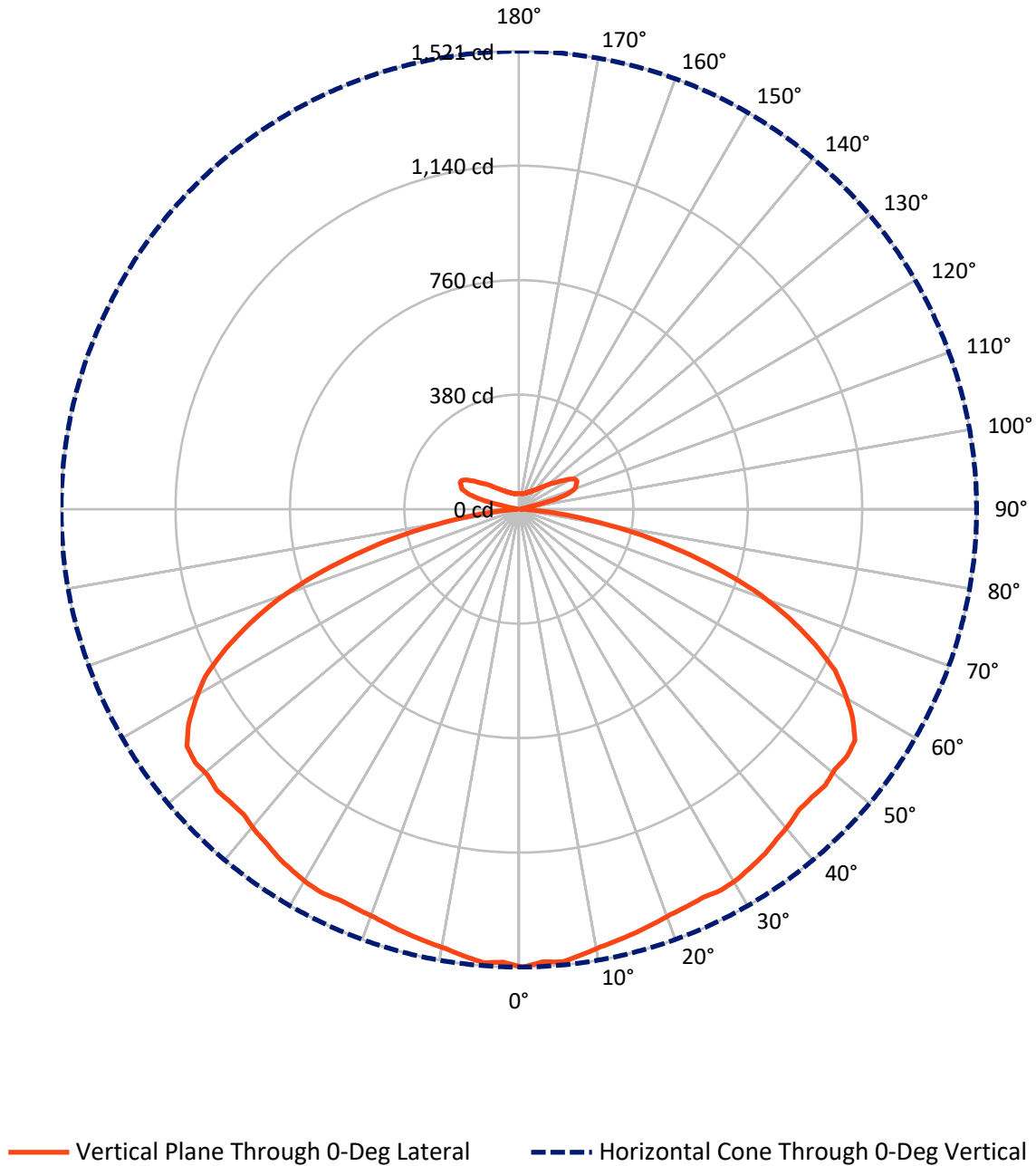
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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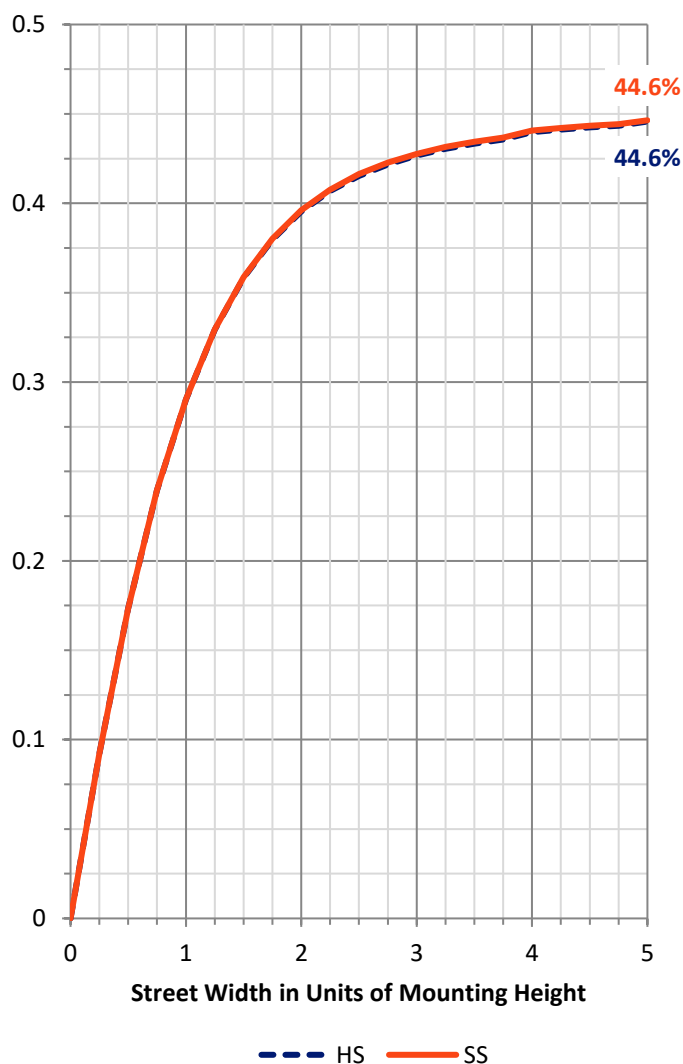
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3196.5	370.3	3566.8
	% Fixture	44.8	5.2	50.0
Street Side	Lumens	3196.5	370.3	3566.8
	% Fixture	44.8	5.2	50.0
Total	Lumens	6393.0	740.7	7133.7
	% Fixture	89.6	10.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	2.0
10°-20°	413.1	5.8
20°-30°	664.6	9.3
30°-40°	887.8	12.4
40°-50°	1078.6	15.1
50°-60°	1253.3	17.6
60°-70°	1156.3	16.2
70°-80°	676.9	9.5
80°-90°	119.6	1.7
90°-100°	16.5	0.2
100°-110°	168.0	2.4
110°-120°	245.6	3.4
120°-130°	142.5	2.0
130°-140°	75.5	1.1
140°-150°	44.9	0.6
150°-160°	27.6	0.4
160°-170°	15.1	0.2
170°-180°	4.9	0.1
0°-90°	6393.0	89.6
0°-180°	7133.7	100.0

Coefficient of Utilization



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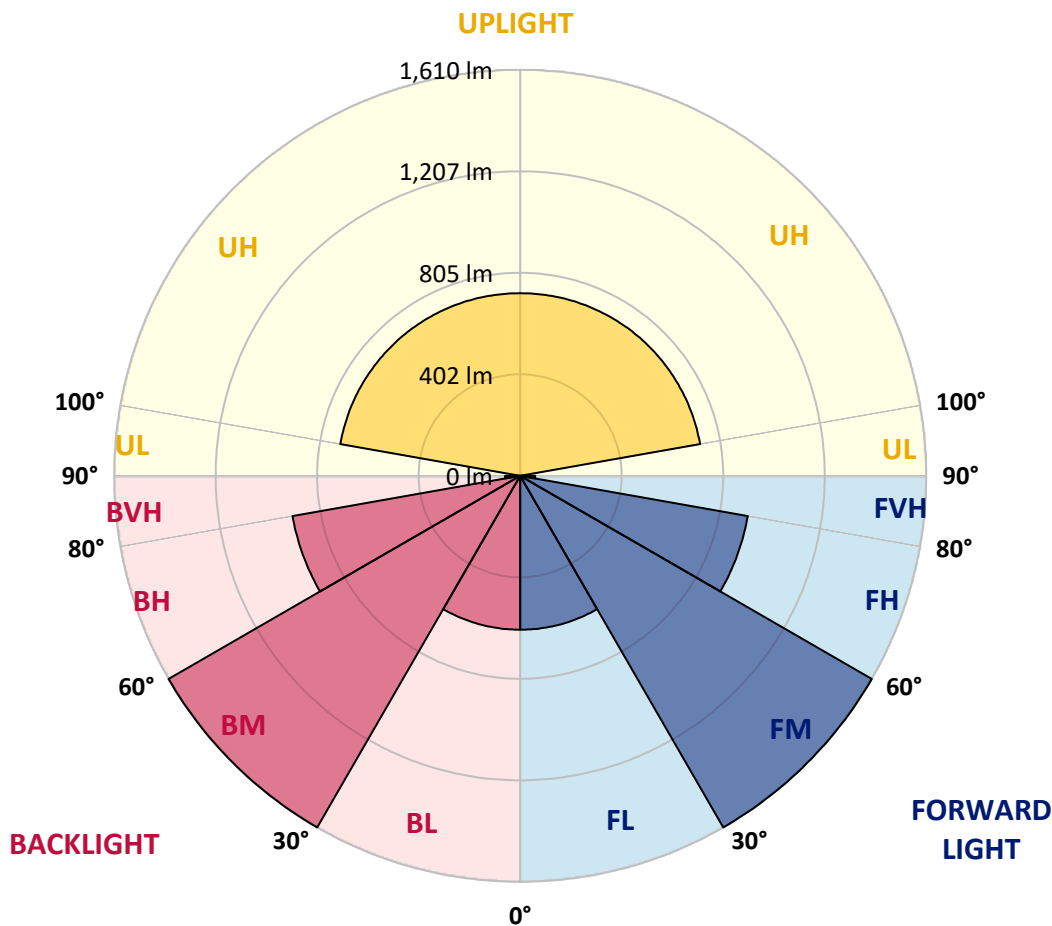
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.3	8.6			
FM (30°-60°)	1609.9	22.6			
FH (60°-80°)	916.6	12.8			G1/1800
FVH (80°-90°)	59.8	0.8			G1/100
BL (0°-30°)	610.3	8.6	B2/1000		
BM (30°-60°)	1609.9	22.6	B2/2500		
BH (60°-80°)	916.6	12.8	B2/1000		G1/1800
BVH (80°-90°)	59.8	0.8			G1/100
UL (90°-100°)	16.5	0.2		U2/50	
UH (100°-180°)	724.2	10.2		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°	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6	1520.6
2.5°	1505.1	1510.3	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1510.3
5°	1510.3	1510.3	1510.3	1510.3	1505.1	1505.1	1505.1	1505.1	1505.1	1510.3	1510.3
7.5°	1494.7	1494.7	1494.7	1494.7	1494.7	1489.5	1494.7	1494.7	1494.7	1494.7	1494.7
10°	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1	1479.1
12.5°	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1463.6	1463.6
15°	1458.4	1458.4	1458.4	1458.4	1463.6	1463.6	1458.4	1458.4	1458.4	1458.4	1458.4
17.5°	1448.0	1448.0	1448.0	1448.0	1453.2	1453.2	1453.2	1448.0	1448.0	1448.0	1448.0
20°	1437.6	1437.6	1437.6	1437.6	1442.8	1442.8	1442.8	1442.8	1442.8	1437.6	1437.6
22.5°	1432.4	1432.4	1432.4	1432.4	1437.6	1437.6	1437.6	1437.6	1432.4	1432.4	1432.4
25°	1427.2	1432.4	1432.4	1432.4	1437.6	1442.8	1442.8	1437.6	1432.4	1427.2	1427.2
27.5°	1432.4	1432.4	1432.4	1437.6	1437.6	1442.8	1442.8	1437.6	1432.4	1432.4	1432.4
30°	1427.2	1427.2	1427.2	1432.4	1437.6	1442.8	1437.6	1437.6	1432.4	1427.2	1427.2
32.5°	1416.8	1416.8	1422.0	1427.2	1432.4	1432.4	1432.4	1427.2	1422.0	1416.8	1416.8
35°	1406.5	1406.5	1406.5	1411.7	1422.0	1422.0	1422.0	1416.8	1411.7	1406.5	1401.3
37.5°	1390.9	1396.1	1396.1	1406.5	1411.7	1416.8	1411.7	1406.5	1396.1	1390.9	1390.9
40°	1380.5	1380.5	1385.7	1396.1	1406.5	1406.5	1401.3	1396.1	1385.7	1380.5	1380.5
42.5°	1364.9	1364.9	1375.3	1385.7	1401.3	1401.3	1396.1	1385.7	1375.3	1364.9	1364.9
45°	1364.9	1364.9	1375.3	1396.1	1406.5	1416.8	1406.5	1396.1	1375.3	1364.9	1359.8
47.5°	1370.1	1370.1	1380.5	1406.5	1427.2	1437.6	1422.0	1401.3	1380.5	1370.1	1364.9
50°	1359.8	1364.9	1385.7	1411.7	1437.6	1442.8	1437.6	1406.5	1385.7	1359.8	1359.8
52.5°	1364.9	1364.9	1390.9	1432.4	1458.4	1468.7	1458.4	1432.4	1385.7	1359.8	1359.8
55°	1354.6	1349.4	1385.7	1432.4	1473.9	1494.7	1473.9	1432.4	1380.5	1349.4	1344.2
57.5°	1307.9	1307.9	1354.6	1401.3	1453.2	1463.6	1448.0	1401.3	1349.4	1307.9	1297.5
60°	1245.6	1250.8	1297.5	1349.4	1396.1	1401.3	1390.9	1349.4	1297.5	1250.8	1235.2
62.5°	1178.1	1188.5	1235.2	1287.1	1344.2	1354.6	1339.0	1287.1	1224.8	1193.7	1167.7
65°	1079.5	1095.1	1147.0	1204.1	1266.3	1261.1	1261.1	1198.9	1152.2	1100.3	1074.3
67.5°	970.5	986.1	1022.4	1100.3	1152.2	1147.0	1141.8	1100.3	1022.4	986.1	970.5
70°	851.1	861.5	897.9	975.7	1022.4	1027.6	1012.0	970.5	897.9	871.9	846.0
72.5°	711.0	716.2	768.1	830.4	877.1	871.9	866.7	830.4	762.9	737.0	705.8
75°	560.5	565.7	612.4	669.5	705.8	700.6	695.4	669.5	612.4	581.3	555.3
77.5°	420.4	415.2	461.9	503.4	524.2	529.4	519.0	498.2	456.7	430.8	415.2
80°	275.1	269.9	311.4	342.5	358.1	358.1	352.9	337.3	306.2	285.4	275.1
82.5°	155.7	150.5	176.5	197.2	212.8	207.6	202.4	192.0	176.5	160.9	150.5
85°	57.1	57.1	72.7	83.0	93.4	93.4	88.2	83.0	67.5	62.3	57.1
87.5°	5.2	5.2	10.4	15.6	15.6	15.6	10.4	10.4	5.2	5.2	5.2
90°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	6.3
92.5°	6.3	6.3	6.3	8.9	10.1	8.9	10.1	7.6	7.6	6.3	6.3
95°	7.6	7.6	8.9	11.4	13.9	15.2	15.2	8.9	8.9	7.6	7.6
97.5°	10.1	11.4	11.4	13.9	22.8	41.8	25.3	12.7	12.7	11.4	10.1
100°	16.5	17.7	17.7	31.7	67.2	90.0	64.6	32.9	24.1	17.7	17.7
102.5°	53.2	55.8	68.4	102.6	152.1	138.1	116.6	110.2	76.0	60.8	58.3
105°	135.6	134.3	144.5	171.1	212.9	209.1	192.6	174.9	150.8	139.4	139.4
107.5°	178.7	178.7	187.5	210.4	242.0	282.6	286.4	226.8	198.9	186.3	185.0
110°	201.5	201.5	209.1	228.1	269.9	326.9	324.4	280.0	245.8	229.4	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	206.5	207.8	218.0	247.1	292.7	318.1	306.7	288.9	273.7	261.0	258.5
115°	214.2	214.2	225.6	253.4	278.8	288.9	276.2	262.3	252.2	247.1	249.6
117.5°	211.6	215.4	218.0	233.2	249.6	257.2	250.9	231.9	224.3	221.8	218.0
120°	196.4	196.4	198.9	206.5	215.4	219.2	216.7	204.0	197.7	196.4	193.9
122.5°	174.9	176.1	174.9	178.7	185.0	188.8	186.3	176.1	173.6	173.6	171.1
125°	153.3	153.3	152.1	154.6	158.4	157.1	158.4	153.3	152.1	152.1	150.8
127.5°	138.1	136.9	134.3	135.6	136.9	136.9	138.1	133.1	134.3	135.6	134.3
130°	122.9	122.9	120.4	120.4	120.4	117.8	120.4	117.8	119.1	120.4	121.6
132.5°	109.0	109.0	105.2	103.9	103.9	103.9	105.2	103.9	106.4	109.0	109.0
135°	97.6	97.6	93.8	95.0	95.0	93.8	95.0	93.8	96.3	97.6	97.6
137.5°	88.7	88.7	86.2	86.2	86.2	84.9	86.2	86.2	87.4	90.0	91.2
140°	81.1	81.1	79.8	79.8	78.6	79.8	79.8	79.8	81.1	82.4	82.4
142.5°	77.3	76.0	74.8	73.5	74.8	74.8	74.8	73.5	74.8	77.3	77.3
145°	71.0	71.0	69.7	69.7	69.7	71.0	69.7	69.7	71.0	71.0	72.2
147.5°	67.2	67.2	65.9	67.2	67.2	67.2	67.2	65.9	67.2	67.2	68.4
150°	65.9	64.6	63.4	64.6	64.6	63.4	63.4	63.4	63.4	64.6	64.6
152.5°	62.1	62.1	60.8	62.1	60.8	60.8	60.8	60.8	60.8	62.1	63.4
155°	59.6	59.6	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
157.5°	57.0	58.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.3	58.3
160°	55.8	55.8	55.8	55.8	54.5	54.5	54.5	55.8	55.8	55.8	57.0
162.5°	54.5	54.5	54.5	54.5	53.2	53.2	53.2	53.2	54.5	54.5	55.8
165°	54.5	53.2	53.2	53.2	52.0	52.0	52.0	52.0	53.2	54.5	53.2
167.5°	52.0	52.0	52.0	52.0	52.0	50.7	50.7	52.0	52.0	52.0	53.2
170°	52.0	52.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	52.0
172.5°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	50.7	50.7	52.0	52.0
175°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	52.0	52.0	52.0	50.7
177.5°	52.0	52.0	52.0	52.0	50.7	52.0	52.0	52.0	52.0	52.0	52.0
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

(END OF REPORT)