

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: P198379

Luminaire Tested: **TT-C3-LED-E1-MQ-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198379
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-MQ-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM DISTRIBUTION
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6186.4 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G2

Input Watts (W): 62.4
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: 25 FT

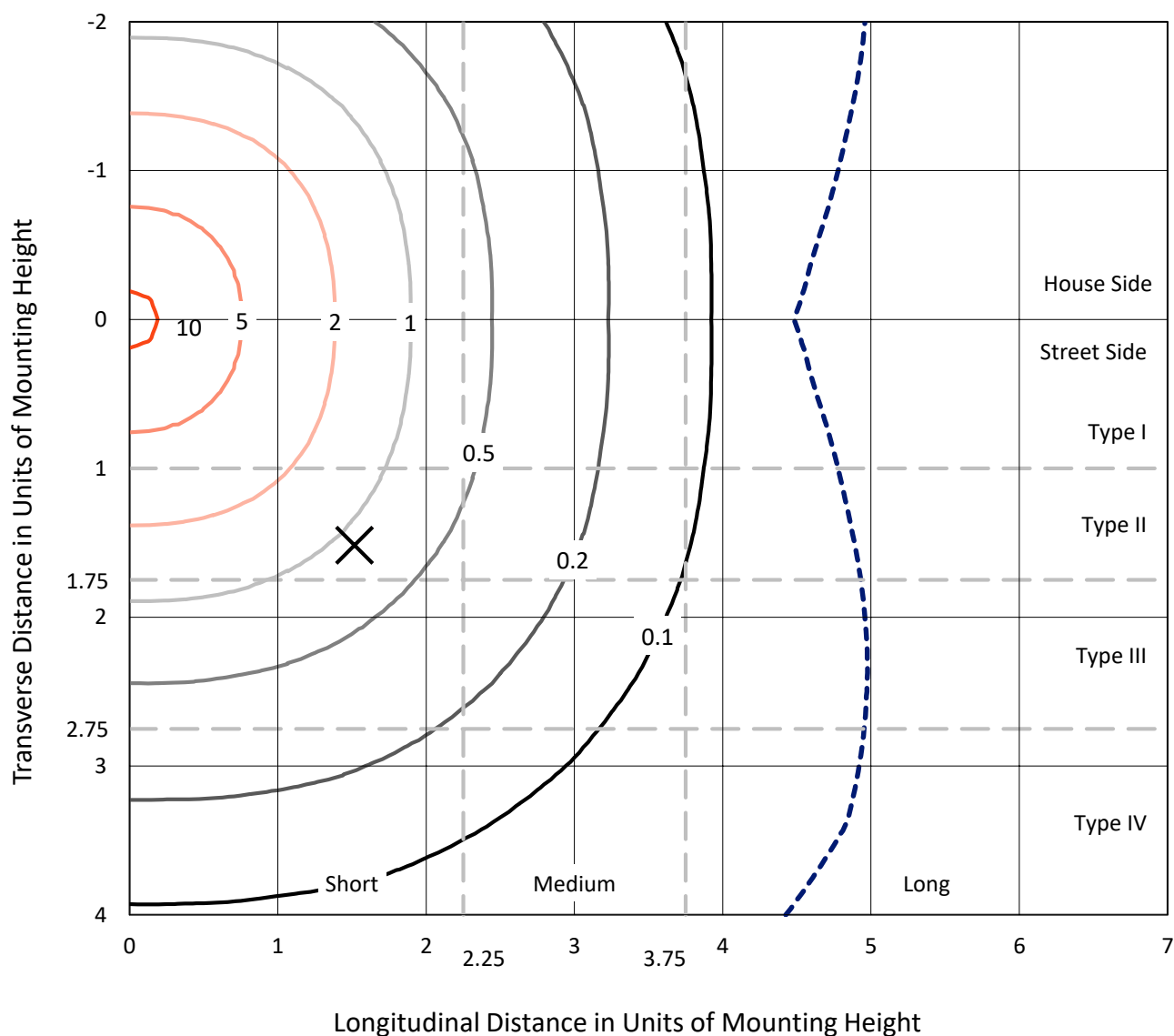


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

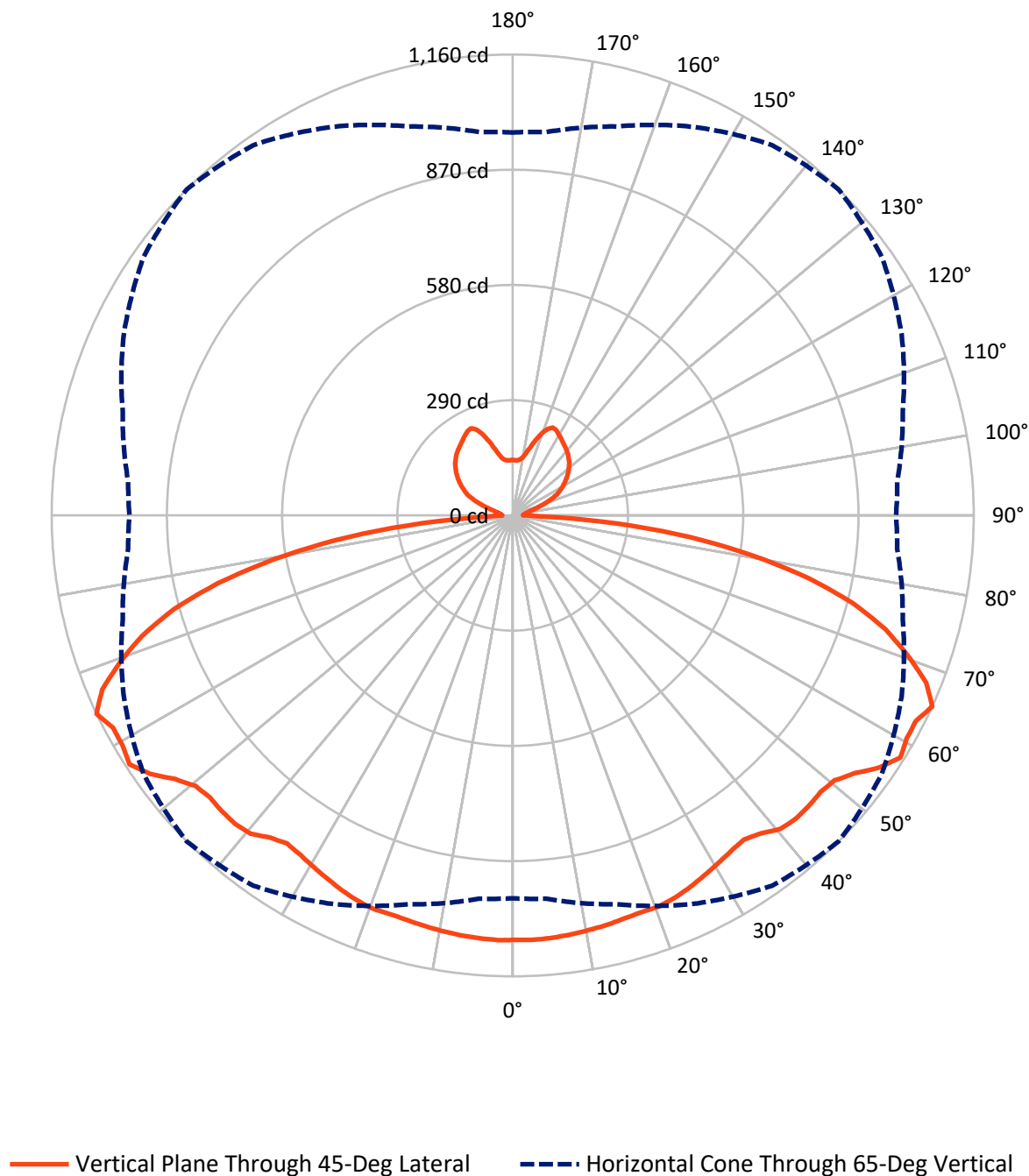


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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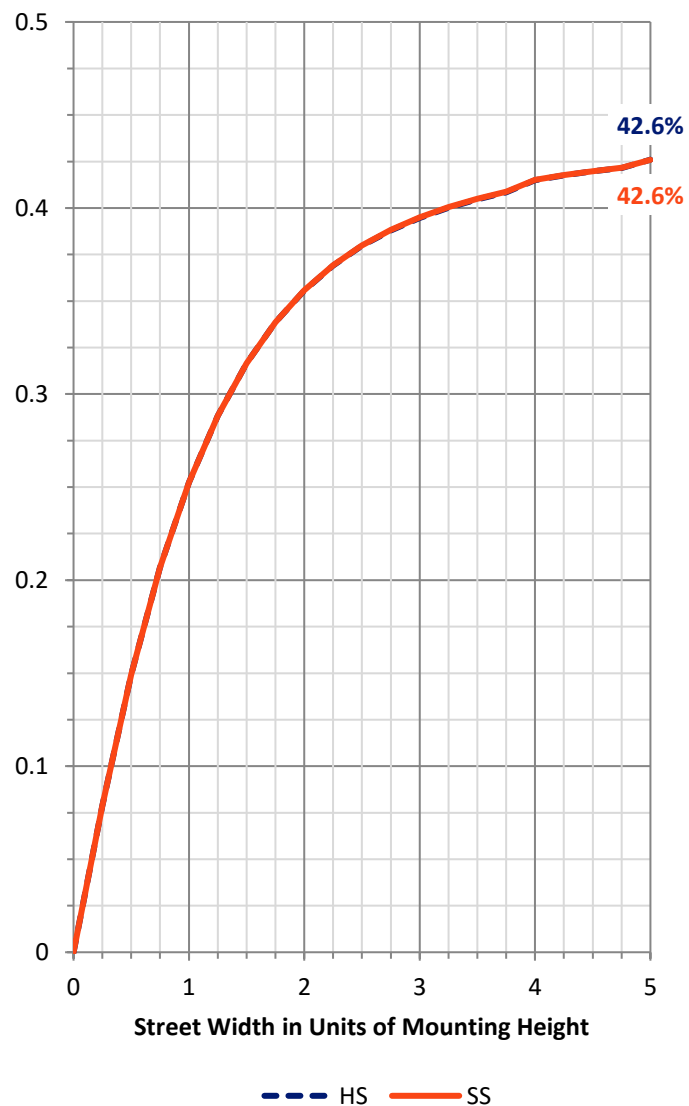
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2680.5	412.7	3093.2
	% Fixture	43.3	6.7	50.0
Street Side	Lumens	2680.5	412.7	3093.2
	% Fixture	43.3	6.7	50.0
Total	Lumens	5361.1	825.3	6186.4
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.6
10°-20°	298.4	4.8
20°-30°	477.4	7.7
30°-40°	630.6	10.2
40°-50°	788.3	12.7
50°-60°	946.3	15.3
60°-70°	1034.4	16.7
70°-80°	821.9	13.3
80°-90°	262.1	4.2
90°-100°	38.4	0.6
100°-110°	59.5	1.0
110°-120°	119.6	1.9
120°-130°	148.9	2.4
130°-140°	153.3	2.5
140°-150°	136.3	2.2
150°-160°	103.9	1.7
160°-170°	51.8	0.8
170°-180°	13.6	0.2
0°-90°	5361.1	86.7
0°-180°	6186.4	100.0

Coefficient of Utilization



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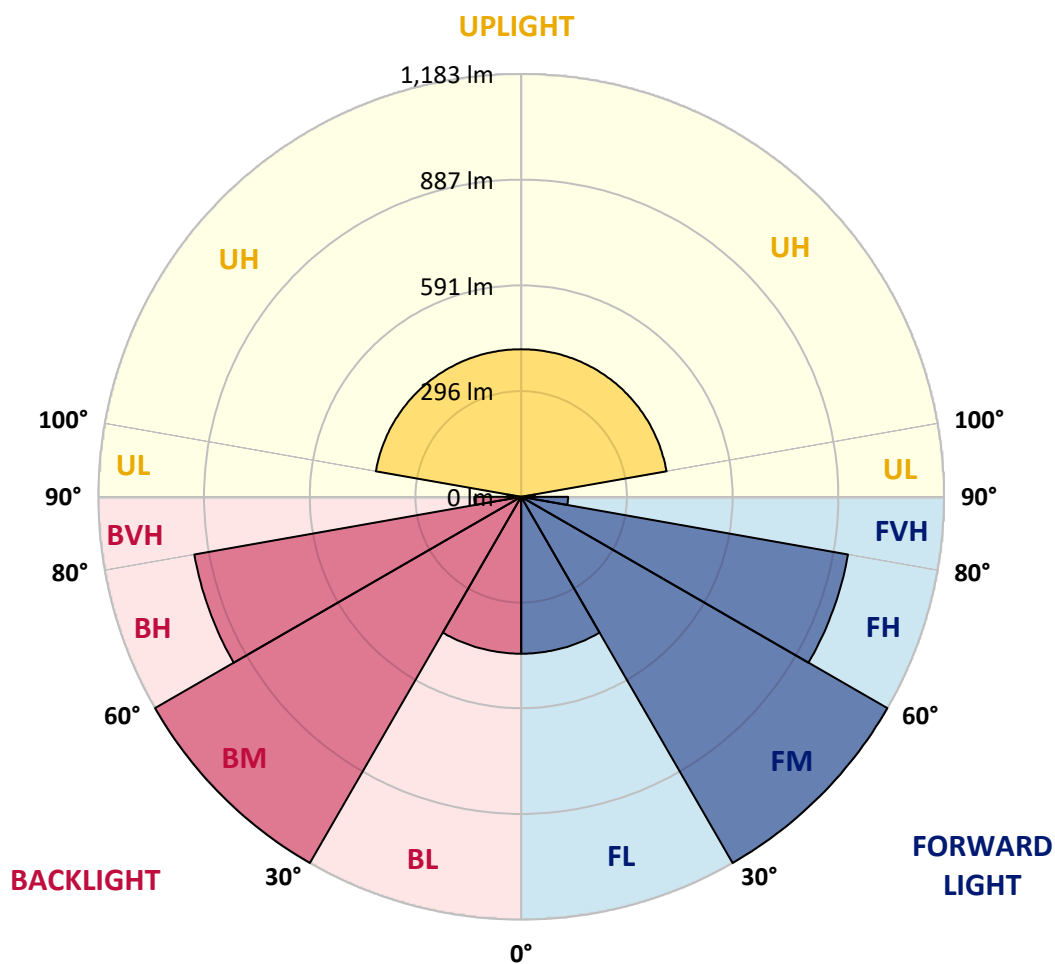
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.7	7.1			
FM	(30°-60°)	1182.6	19.1			
FH	(60°-80°)	928.1	15.0			G1/1800
FVH	(80°-90°)	131.1	2.1			G2/225
BL	(0°-30°)	438.7	7.1	B1/500		
BM	(30°-60°)	1182.6	19.1	B2/2500		
BH	(60°-80°)	928.1	15.0	B2/1000		G1/1800
BVH	(80°-90°)	131.1	2.1			G2/225
UL	(90°-100°)	38.4	0.6		U2/50	
UH	(100°-180°)	412.7	6.7		U3/500	

BUG Rating: B2-U4-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7
2.5°	1069.7	1069.7	1069.7	1069.7	1068.7	1069.7	1068.7	1068.7	1069.7	1069.7	1069.7
5°	1067.8	1067.8	1067.8	1067.8	1067.8	1067.8	1067.8	1067.8	1067.8	1067.8	1067.8
7.5°	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0
10°	1061.2	1062.2	1062.2	1062.2	1061.2	1061.2	1061.2	1062.2	1062.2	1061.2	1061.2
12.5°	1057.5	1057.5	1058.4	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1056.6
15°	1051.9	1051.9	1052.8	1052.8	1052.8	1052.8	1052.8	1051.9	1051.9	1050.9	1050.9
17.5°	1047.2	1047.2	1049.1	1049.1	1050.0	1050.0	1050.0	1048.1	1048.1	1046.3	1046.3
20°	1046.3	1046.3	1047.2	1049.1	1050.0	1050.9	1050.0	1048.1	1046.3	1044.4	1044.4
22.5°	1039.7	1040.6	1042.5	1043.5	1045.3	1045.3	1045.3	1042.5	1041.6	1039.7	1039.7
25°	1031.3	1030.3	1033.2	1035.0	1036.9	1036.9	1036.0	1034.1	1033.2	1030.3	1030.3
27.5°	1018.2	1019.1	1021.0	1023.8	1026.6	1026.6	1025.7	1023.8	1021.9	1020.1	1019.1
30°	1007.0	1007.9	1009.8	1012.6	1014.4	1017.2	1014.4	1012.6	1009.8	1008.8	1007.9
32.5°	994.8	995.7	998.5	1003.2	1006.0	1007.9	1006.0	1004.1	999.5	996.7	995.7
35°	986.4	987.3	990.1	996.7	1002.3	1002.3	1002.3	997.6	992.0	987.3	986.4
37.5°	987.3	989.2	995.7	1005.1	1014.4	1015.4	1014.4	1005.1	996.7	989.2	988.2
40°	994.8	996.7	1007.9	1021.9	1034.1	1037.8	1035.0	1021.9	1008.8	998.5	995.7
42.5°	993.9	996.7	1008.8	1026.6	1038.8	1044.4	1038.8	1026.6	1010.7	999.5	995.7
45°	990.1	992.0	1005.1	1023.8	1038.8	1044.4	1039.7	1025.7	1007.9	994.8	992.0
47.5°	984.5	986.4	996.7	1019.1	1036.0	1041.6	1036.9	1021.9	999.5	989.2	987.3
50°	977.0	982.6	999.5	1022.9	1045.3	1049.1	1046.3	1024.7	1001.3	986.4	978.9
52.5°	984.5	983.6	1003.2	1045.3	1065.9	1078.1	1068.7	1043.5	1007.9	988.2	986.4
55°	1001.3	1008.8	1030.3	1069.7	1103.3	1120.2	1107.1	1072.5	1032.2	1007.9	1003.2
57.5°	1000.4	1009.8	1048.1	1087.4	1138.9	1150.1	1135.2	1092.1	1046.3	1014.4	1002.3
60°	994.8	998.5	1027.5	1097.7	1126.7	1139.8	1126.7	1093.0	1035.0	999.5	999.5
62.5°	976.1	982.6	1028.5	1077.1	1118.3	1138.9	1123.0	1080.9	1027.5	989.2	977.0
65°	963.9	968.6	1013.5	1079.0	1138.0	1160.4	1134.2	1079.9	1016.3	971.4	964.8
67.5°	925.5	934.0	976.1	1047.2	1104.3	1122.1	1111.8	1045.3	976.1	934.9	924.6
70°	860.0	864.7	922.7	990.1	1042.5	1054.7	1039.7	996.7	917.1	871.3	857.2
72.5°	779.5	786.1	839.4	914.3	964.8	980.8	963.0	917.1	834.8	793.6	780.5
75°	698.1	704.7	739.3	820.7	862.8	885.3	864.7	815.1	741.2	700.9	695.3
77.5°	581.2	591.4	644.8	699.1	739.3	762.7	744.9	699.1	641.0	593.3	575.5
80°	456.7	464.2	513.8	561.5	598.0	613.0	604.5	561.5	514.7	466.0	457.6
82.5°	320.1	324.7	367.8	406.2	451.1	451.1	441.7	413.6	366.8	324.7	326.6
85°	171.3	176.9	209.6	239.6	267.6	267.6	259.2	241.4	208.7	175.9	172.2
87.5°	34.6	38.4	50.5	55.2	65.5	70.2	63.6	58.0	50.5	40.2	40.2
90°	36.0	36.0	36.0	34.0	29.0	26.0	28.0	32.0	34.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	28.0	32.0	35.0	36.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.0	30.0	34.0	37.0	39.0	38.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.0	33.0	34.0	36.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	36.0	38.0	38.0	37.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	43.0	44.0	42.0	41.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	52.0	54.0	53.0	49.0	48.0	49.0
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	60.0
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	75.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.0
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	113.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	129.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	142.0
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	150.0
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.0
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	163.0
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	176.0
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.0
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.0
140°	229.0	226.0	216.0	200.0	207.0	213.0	212.0	217.0	209.0	195.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	218.0	220.0	223.0	211.0	198.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	223.0	230.0	227.0	211.0	201.0	202.0
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	206.0
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	211.0
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	216.0
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.0
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	219.0
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	215.0
162.5°	185.0	184.0	193.0	193.0	198.0	198.0	196.0	200.0	204.0	207.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	177.0	176.0	181.0	185.0	190.0	192.0
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	174.0
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	160.0
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	151.0
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	144.0
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	138.0	140.0	140.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)