

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: P198295

Luminaire Tested: **TT-C2-LED-E1-CQ-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198295
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-C2-LED-E1-CQ-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
CONCENTRATED DISTRIBUTION
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4964.9 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G1

Input Watts (W): 51.4
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

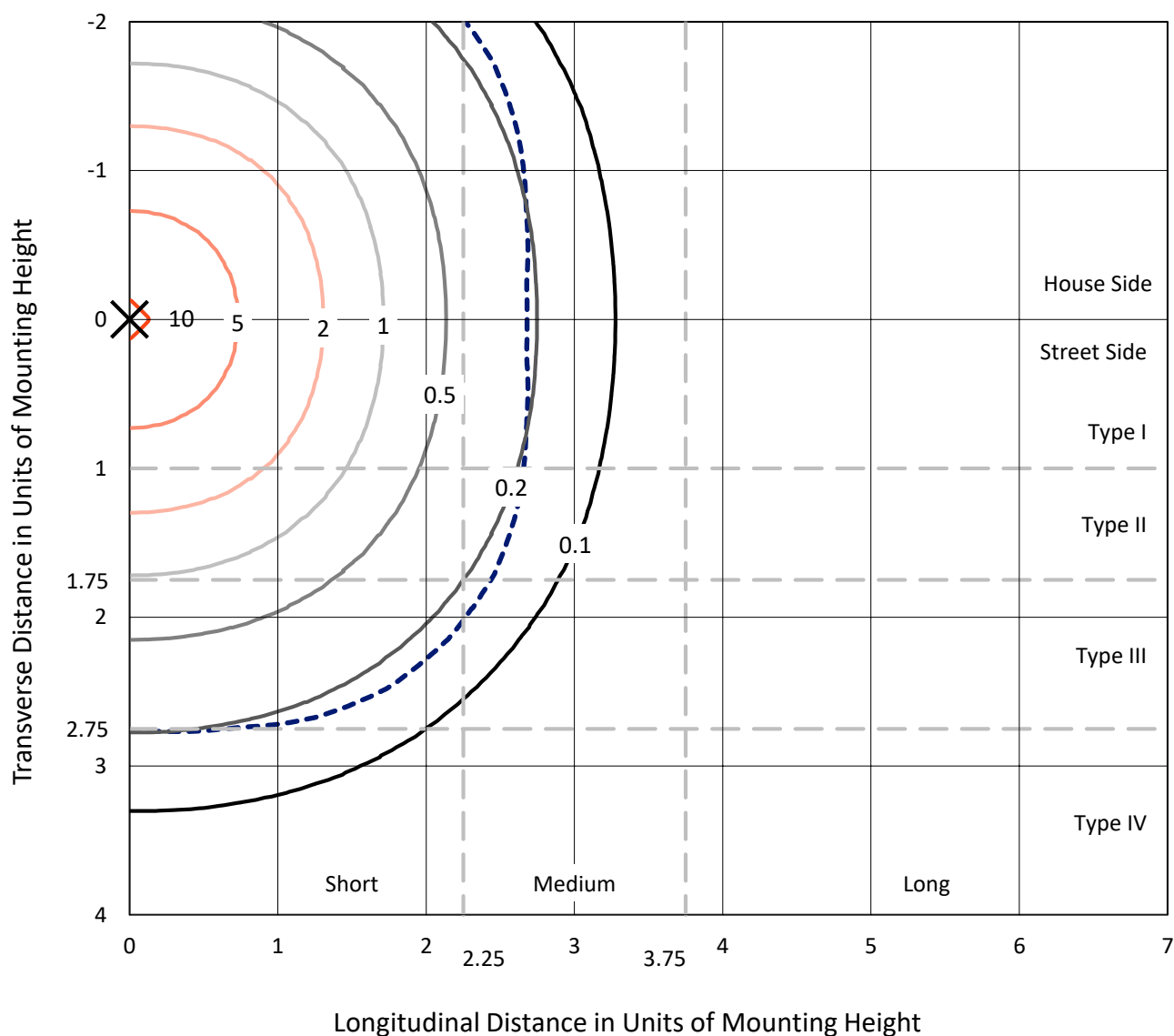


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

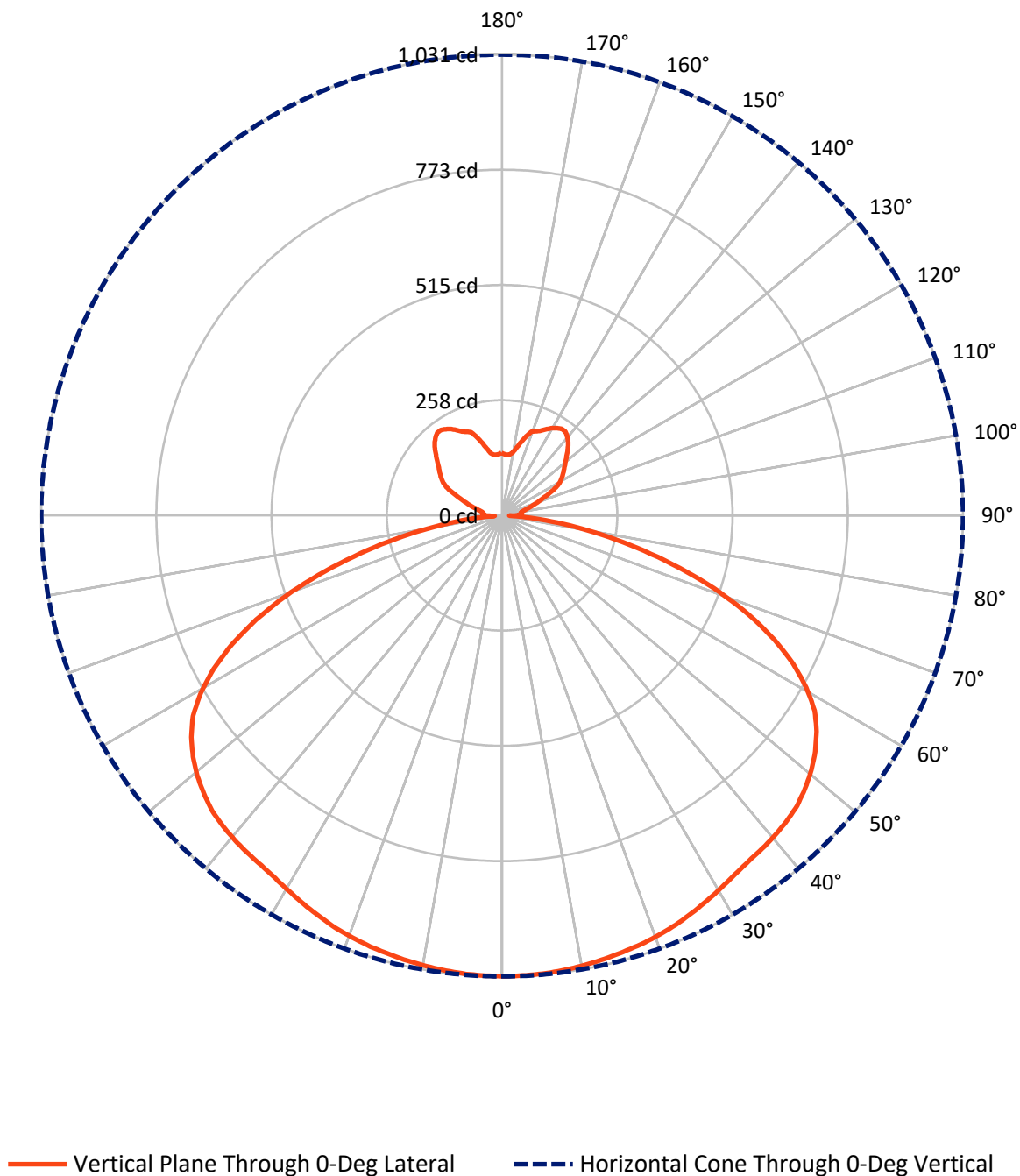


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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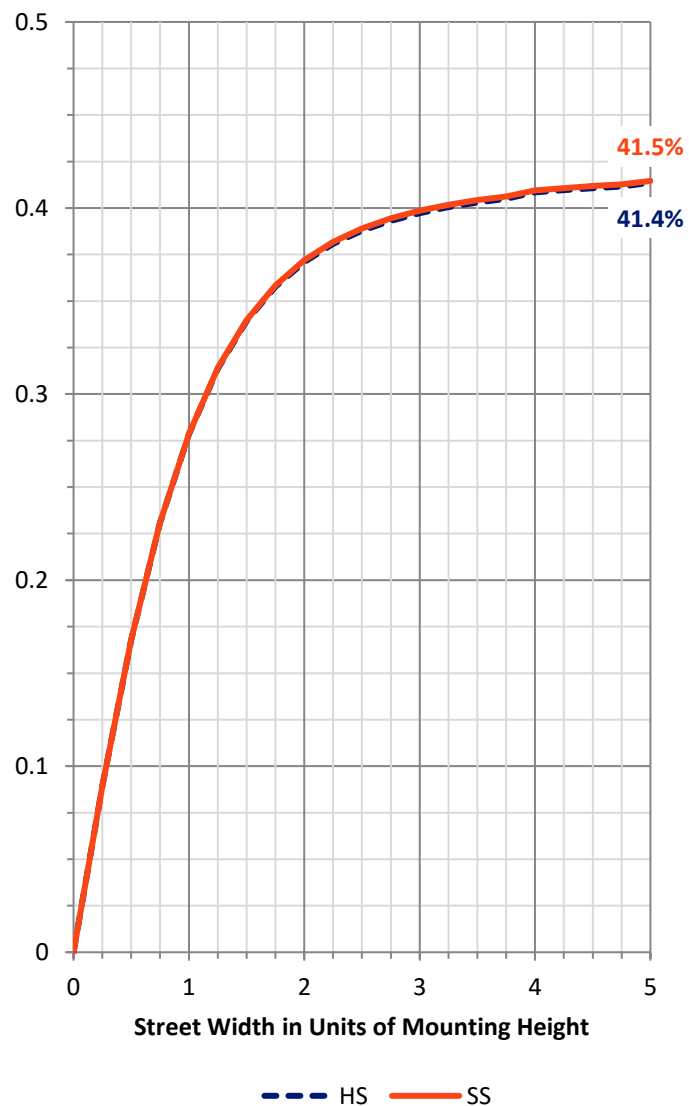
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2069.8	412.7	2482.4
	% Fixture	41.7	8.3	50.0
Street Side	Lumens	2069.8	412.7	2482.4
	% Fixture	41.7	8.3	50.0
Total	Lumens	4139.6	825.3	4964.9
	% Fixture	83.4	16.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	2.0
10°-20°	286.8	5.8
20°-30°	456.2	9.2
30°-40°	603.4	12.2
40°-50°	736.3	14.8
50°-60°	795.2	16.0
60°-70°	688.6	13.9
70°-80°	390.4	7.9
80°-90°	84.7	1.7
90°-100°	38.4	0.8
100°-110°	59.5	1.2
110°-120°	119.6	2.4
120°-130°	148.9	3.0
130°-140°	153.3	3.1
140°-150°	136.3	2.7
150°-160°	103.9	2.1
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4139.6	83.4
0°-180°	4964.9	100.0

Coefficient of Utilization



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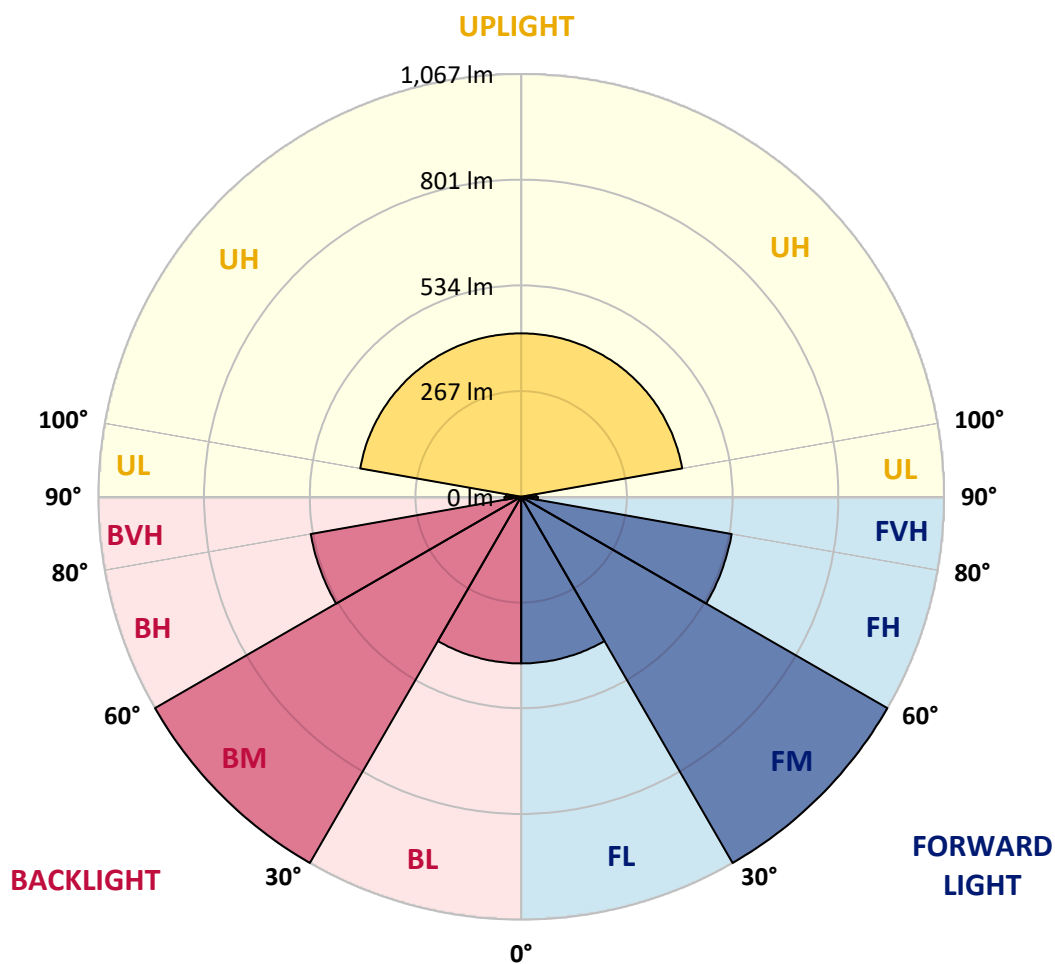
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.5	8.5			
FM	(30°-60°)	1067.4	21.5			
FH	(60°-80°)	539.5	10.9			G0/660
FVH	(80°-90°)	42.3	0.9			G1/100
BL	(0°-30°)	420.5	8.5	B1/500		
BM	(30°-60°)	1067.4	21.5	B2/2500		
BH	(60°-80°)	539.5	10.9	B2/1000		G0/660
BVH	(80°-90°)	42.3	0.9			G1/100
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	8.3		U3/500	

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°	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5
2.5°	1029.8	1029.8	1029.8	1029.8	1029.8	1029.8	1029.8	1029.8	1029.8	1029.8	1029.8
5°	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4
7.5°	1025.5	1025.5	1025.5	1025.5	1025.5	1026.3	1025.5	1025.5	1025.5	1025.5	1026.3
10°	1022.0	1022.0	1022.7	1022.7	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0	1022.0
12.5°	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.0	1017.0	1017.0
15°	1012.7	1012.7	1012.7	1013.5	1013.5	1013.5	1013.5	1012.7	1012.0	1011.3	1012.0
17.5°	1007.8	1007.8	1008.5	1009.2	1009.2	1009.2	1009.2	1007.8	1007.0	1006.3	1006.3
20°	1001.4	1002.1	1002.1	1002.8	1003.5	1003.5	1003.5	1002.8	1001.4	999.9	999.9
22.5°	994.2	994.9	995.7	996.4	997.1	996.4	996.4	995.7	994.2	993.5	992.8
25°	985.0	985.0	986.4	987.8	988.5	988.5	988.5	987.1	985.7	985.0	984.3
27.5°	975.7	975.7	977.2	979.3	980.0	980.7	979.3	978.6	976.4	975.0	975.0
30°	965.8	965.8	967.9	970.7	972.9	973.6	972.9	970.0	967.2	965.8	965.8
32.5°	956.5	957.2	959.4	963.6	967.2	968.6	967.9	964.3	960.8	957.9	957.2
35°	949.4	950.1	954.4	959.4	965.1	967.2	965.1	961.5	955.8	951.5	951.5
37.5°	945.1	945.1	950.8	959.4	965.8	968.6	965.8	960.8	953.0	947.3	947.3
40°	940.1	941.6	948.7	959.4	968.6	972.9	969.3	962.2	952.2	945.1	944.4
42.5°	933.7	935.9	943.7	957.9	969.3	975.7	972.2	963.6	951.5	943.7	943.0
45°	925.2	925.9	935.9	953.0	967.9	976.4	973.6	962.9	949.4	940.1	938.7
47.5°	911.7	913.1	925.2	945.1	963.6	972.9	970.7	958.7	941.6	930.9	928.8
50°	896.0	897.4	911.7	934.5	955.1	965.8	962.2	947.3	928.8	914.5	913.1
52.5°	876.8	879.7	895.3	920.9	943.0	953.0	947.3	928.0	906.7	891.0	889.6
55°	853.3	856.2	874.0	901.0	923.1	930.9	923.1	900.3	877.5	859.7	856.2
57.5°	824.1	826.3	843.4	871.8	893.2	899.6	889.6	866.1	839.1	819.9	817.7
60°	781.4	784.3	804.2	830.5	851.9	859.7	849.8	821.3	792.1	772.9	772.2
62.5°	730.2	735.2	752.3	780.7	799.9	810.6	797.1	767.9	738.7	716.7	716.7
65°	668.3	671.8	690.3	718.1	736.6	745.9	732.3	705.3	673.3	654.0	651.9
67.5°	597.1	600.0	616.3	644.8	664.7	672.6	657.6	632.0	602.1	581.5	579.3
70°	518.1	522.4	534.5	560.8	578.6	582.9	571.5	547.3	520.2	501.7	500.3
72.5°	432.0	435.6	451.2	471.9	486.1	487.5	480.4	462.6	434.8	419.9	417.8
75°	343.7	349.4	363.0	380.8	391.4	391.4	387.2	374.4	350.2	338.8	338.8
77.5°	260.5	263.3	277.6	289.7	298.2	302.5	297.5	286.1	266.9	259.1	254.8
80°	181.5	184.3	190.7	200.0	208.5	211.4	205.7	196.4	185.8	180.1	177.2
82.5°	111.0	113.9	117.4	122.4	128.1	131.0	127.4	121.7	112.4	111.7	111.0
85°	53.4	54.8	57.6	59.1	61.9	62.6	63.3	60.5	57.6	54.1	55.5
87.5°	16.4	16.4	17.1	17.8	19.2	19.2	19.2	18.5	17.1	16.4	16.4
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)