

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: P198336

Luminaire Tested: **TT-C2-LED-E1-RW-SG-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198336
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-RW-SG-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3958.7 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U4 - G2

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



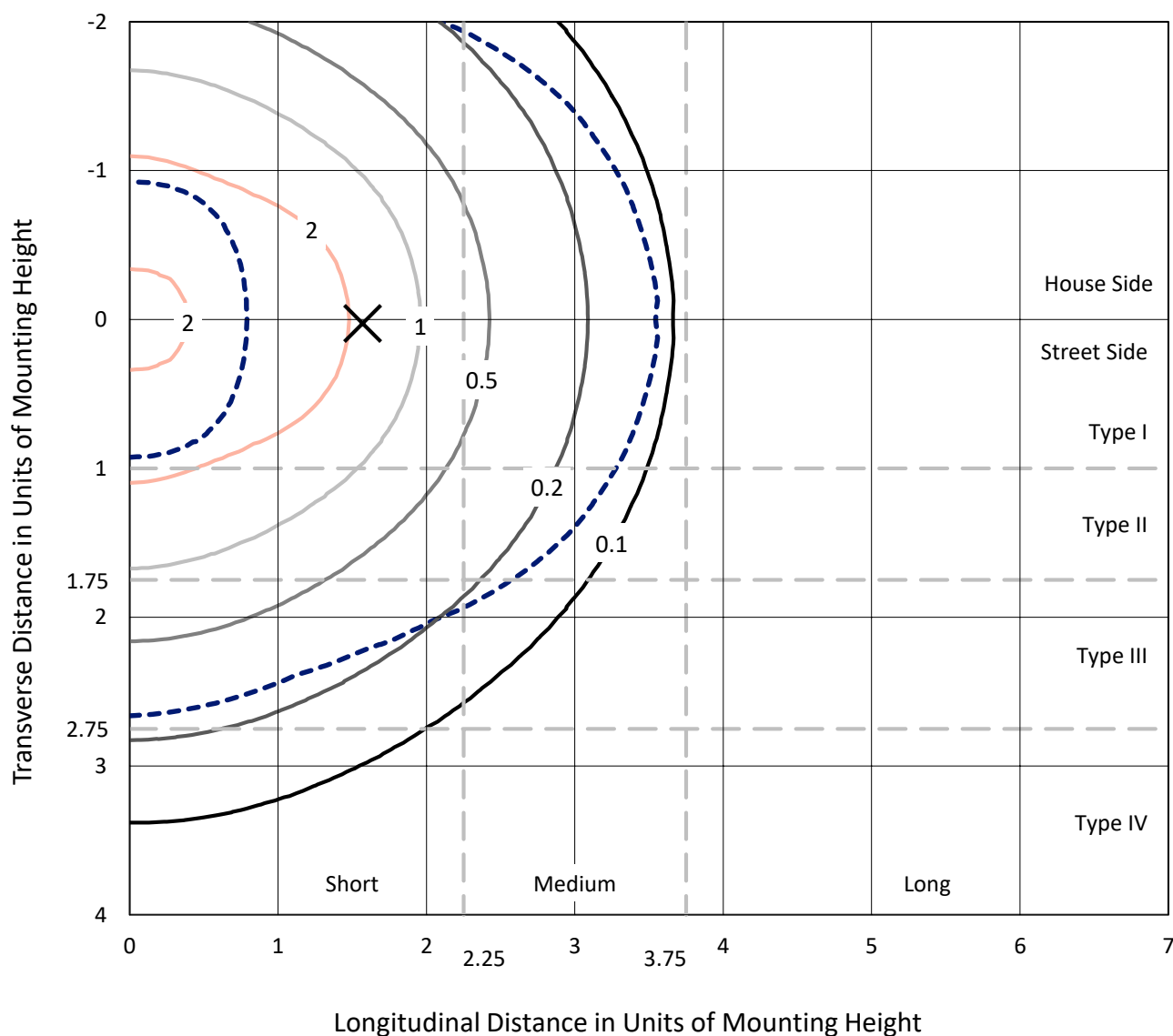
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

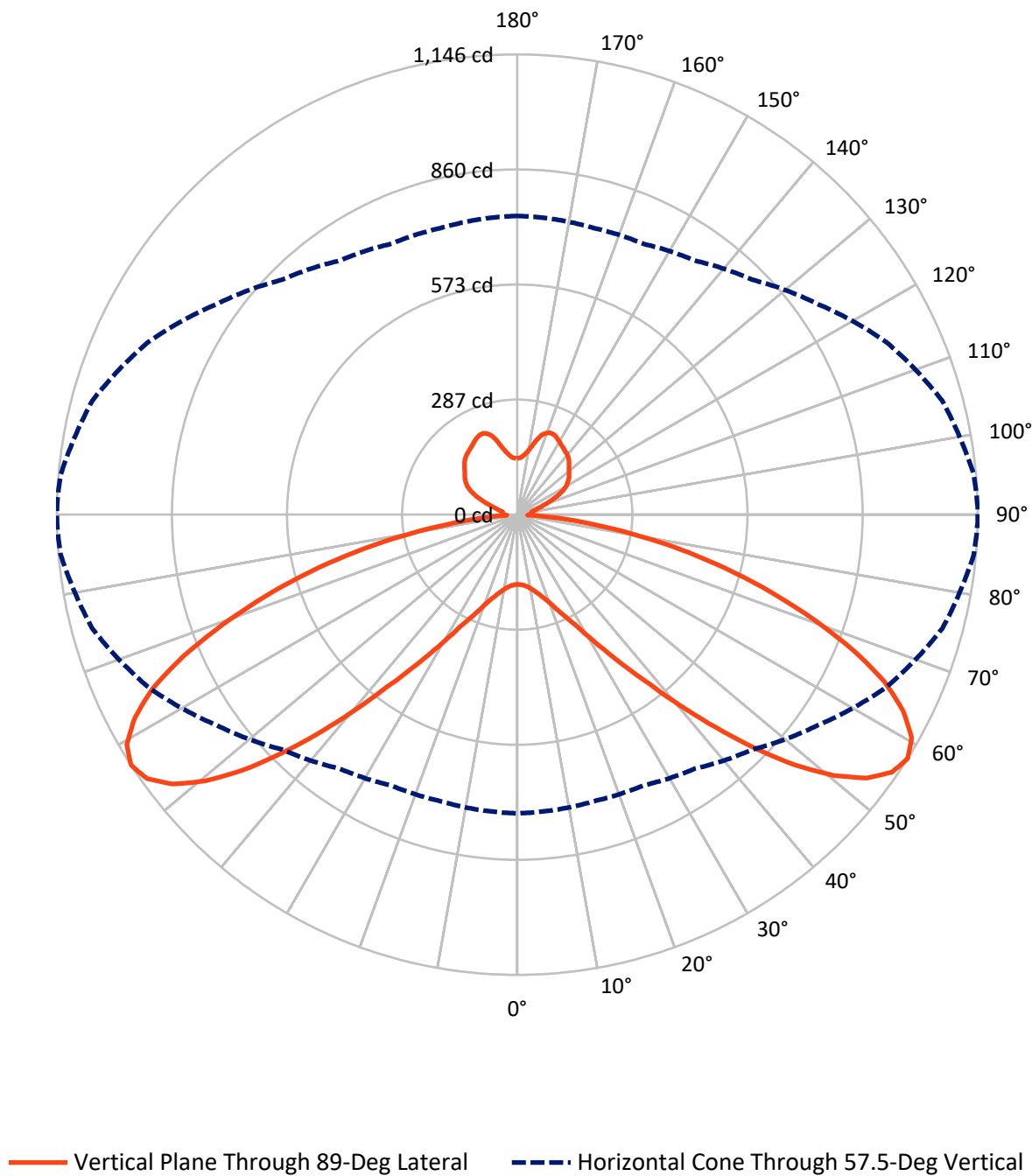


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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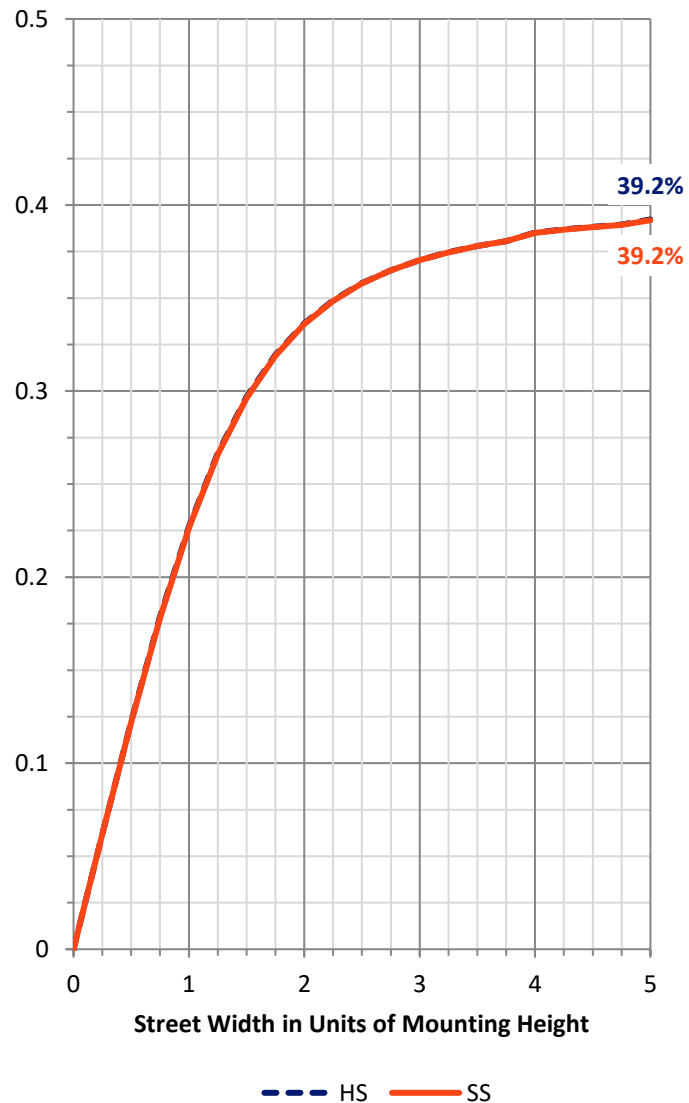
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1566.7	412.7	1979.4
	% Fixture	39.6	10.4	50.0
Street Side	Lumens	1566.7	412.7	1979.4
	% Fixture	39.6	10.4	50.0
Total	Lumens	3133.4	825.3	3958.7
	% Fixture	79.2	20.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	0.4
10°-20°	60.2	1.5
20°-30°	135.0	3.4
30°-40°	279.3	7.1
40°-50°	530.2	13.4
50°-60°	775.8	19.6
60°-70°	773.5	19.5
70°-80°	460.4	11.6
80°-90°	101.8	2.6
90°-100°	38.4	1.0
100°-110°	59.5	1.5
110°-120°	119.6	3.0
120°-130°	148.9	3.8
130°-140°	153.3	3.9
140°-150°	136.3	3.4
150°-160°	103.9	2.6
160°-170°	51.8	1.3
170°-180°	13.6	0.3
0°-90°	3133.4	79.2
0°-180°	3958.7	100.0

Coefficient of Utilization



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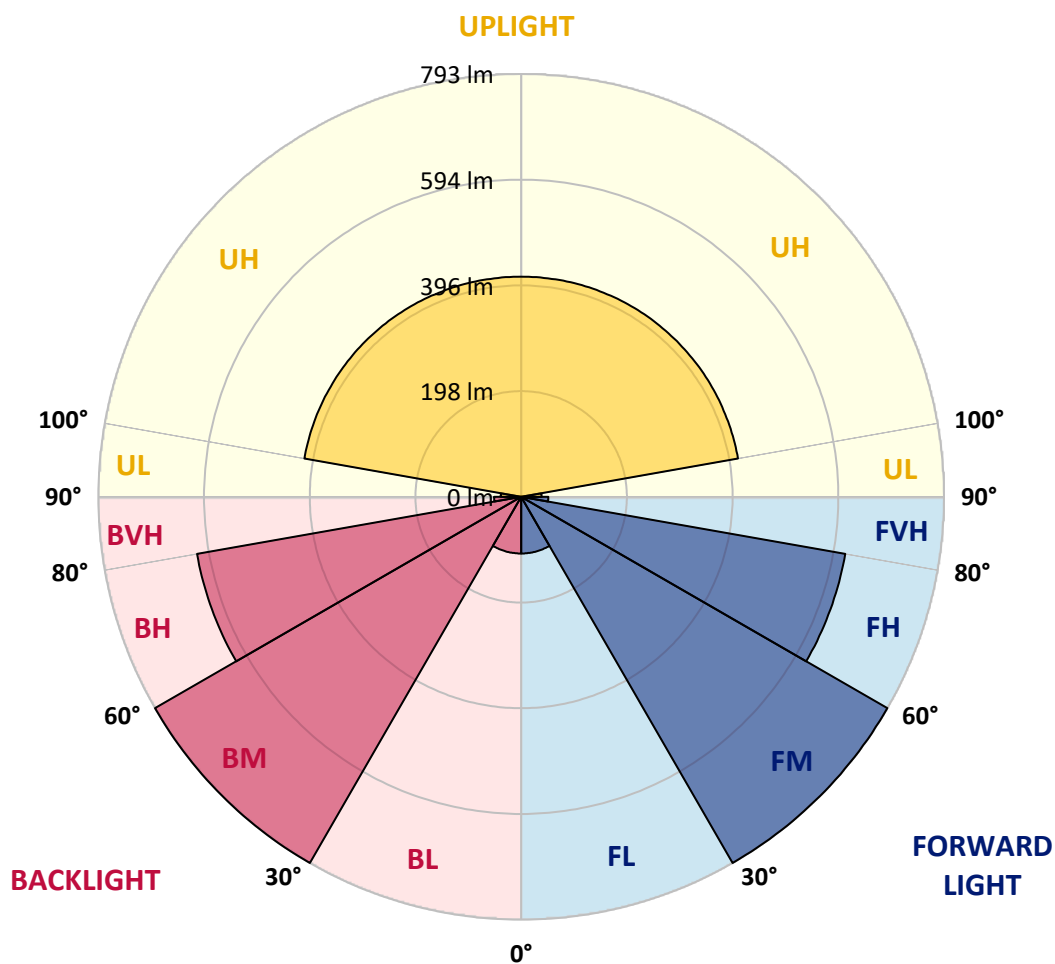
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.2	2.7			
FM	(30°-60°)	792.7	20.0			
FH	(60°-80°)	616.9	15.6			G0/660
FVH	(80°-90°)	50.9	1.3			G1/100
BL	(0°-30°)	106.2	2.7	B0/110		
BM	(30°-60°)	792.7	20.0	B1/1000		
BH	(60°-80°)	616.9	15.6	B2/1000		G2/1000
BVH	(80°-90°)	50.9	1.3			G1/100
UL	(90°-100°)	38.4	1.0		U2/50	
UH	(100°-180°)	412.7	10.4		U3/500	

BUG Rating: B2-U4-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8	173.8
2.5°	175.1	175.1	175.1	175.1	174.4	174.4	174.4	174.4	174.4	174.4	174.4
5°	177.7	177.7	177.1	177.7	177.1	177.1	177.1	177.1	177.1	177.1	177.1
7.5°	181.6	181.6	181.6	181.6	181.6	181.6	181.0	181.6	181.0	181.0	181.0
10°	188.8	188.1	188.8	188.1	188.1	187.5	187.5	187.5	187.5	187.5	187.5
12.5°	197.9	197.9	197.9	197.2	196.6	196.6	195.9	195.9	195.9	195.3	195.9
15°	210.3	210.9	208.9	208.3	208.3	207.0	206.3	207.0	206.3	205.7	206.3
17.5°	225.2	225.9	224.6	223.3	222.0	221.3	220.7	220.0	220.0	220.0	219.4
20°	244.8	244.8	243.4	240.8	238.9	237.6	237.6	236.9	236.9	237.6	235.6
22.5°	266.9	266.2	264.9	263.6	261.0	258.4	257.1	256.5	256.5	257.8	258.4
25°	294.2	294.9	291.0	288.4	285.8	281.2	280.6	281.2	281.9	281.9	283.2
27.5°	322.2	323.5	320.3	316.4	312.4	310.5	309.2	310.5	311.8	313.7	313.1
30°	355.4	354.8	354.1	348.2	343.7	341.7	343.0	346.9	350.2	354.8	355.4
32.5°	391.2	392.5	388.0	383.4	381.4	379.5	381.4	389.9	399.0	401.6	404.9
35°	433.5	430.9	428.3	425.1	421.8	421.8	431.6	441.3	455.7	465.4	465.4
37.5°	476.5	474.5	470.0	465.4	465.4	471.9	481.7	505.8	526.6	540.9	535.1
40°	520.7	518.1	516.8	511.6	512.3	527.9	548.7	578.7	608.6	628.8	624.9
42.5°	565.7	566.3	561.8	559.8	565.7	583.2	619.7	660.0	697.8	723.2	723.8
45°	611.9	611.9	608.6	607.3	618.4	645.1	690.6	746.0	796.7	826.0	829.3
47.5°	654.2	653.5	650.9	650.3	669.2	701.1	758.3	829.3	891.8	924.3	932.8
50°	690.6	691.3	687.4	690.6	707.6	749.9	818.9	904.8	976.4	1017.4	1021.3
52.5°	719.3	719.9	715.4	718.0	740.8	789.6	866.4	962.7	1040.8	1084.5	1089.7
55°	738.8	736.2	732.9	736.9	762.9	816.9	900.9	1001.1	1082.5	1128.1	1132.0
57.5°	744.0	742.1	738.8	744.0	772.0	827.3	913.9	1014.8	1095.5	1141.1	1146.3
60°	736.2	736.2	732.3	738.2	766.1	820.2	904.8	1002.4	1079.2	1120.9	1128.1
62.5°	716.0	716.0	711.5	716.0	742.7	792.8	873.5	964.0	1033.7	1070.1	1078.6
65°	678.3	677.6	675.0	676.3	698.4	746.0	819.5	901.5	962.1	994.6	1005.7
67.5°	623.6	621.6	619.0	621.6	637.9	680.2	747.9	819.5	869.6	900.9	903.5
70°	553.9	552.0	548.7	547.4	564.4	598.2	652.9	716.0	757.7	780.5	783.1
72.5°	471.3	473.9	471.3	467.4	478.4	508.4	553.9	602.1	636.6	657.4	660.7
75°	389.9	390.6	384.0	382.7	391.2	410.1	447.2	484.3	514.2	531.8	537.0
77.5°	302.0	302.0	296.2	292.9	297.5	313.7	339.1	369.1	393.8	404.9	414.0
80°	217.4	217.4	212.2	204.4	208.9	217.4	240.2	256.5	276.0	288.4	289.7
82.5°	136.0	134.1	135.4	129.5	130.8	133.4	147.8	158.8	170.5	177.1	177.7
85°	71.0	68.3	67.0	63.8	61.8	66.4	72.9	80.7	83.3	89.2	87.2
87.5°	22.1	20.8	20.2	20.2	18.2	19.5	20.2	21.5	24.7	24.7	26.0
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	38.2
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	48.8
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	59.8
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	74.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.2
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	113.6
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	129.8
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	142.6
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	150.6
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.4
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	163.6
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.4
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	176.6
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.2
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.2
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	201.8
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	205.6
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	210.8
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	215.8
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.2
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	219.6
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	215.6
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	191.6
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	173.6
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	159.8
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	150.6
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	143.8
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

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CANDELA DISTRIBUTION (continued):

	90°
0°	173.8
2.5°	174.4
5°	177.1
7.5°	181.0
10°	187.5
12.5°	195.3
15°	206.3
17.5°	220.0
20°	235.6
22.5°	256.5
25°	281.9
27.5°	311.8
30°	354.8
32.5°	402.9
35°	461.5
37.5°	541.6
40°	624.2
42.5°	728.4
45°	829.3
47.5°	932.8
50°	1019.4
52.5°	1087.7
55°	1133.9
57.5°	1146.3
60°	1126.1
62.5°	1076.6
65°	1004.4
67.5°	903.5
70°	787.0
72.5°	658.7
75°	531.2
77.5°	411.4
80°	289.7
82.5°	182.9
85°	87.2
87.5°	28.0
90°	34.0
92.5°	36.0
95°	38.0
97.5°	36.0
100°	37.0
102.5°	41.0
105°	49.0
107.5°	60.0
110°	75.0

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CANDELA DISTRIBUTION (continued):

	90°
112.5°	94.0
115°	113.0
117.5°	129.0
120°	142.0
122.5°	150.0
125°	158.0
127.5°	163.0
130°	169.0
132.5°	176.0
135°	184.0
137.5°	190.0
140°	195.0
142.5°	198.0
145°	202.0
147.5°	206.0
150°	211.0
152.5°	216.0
155°	219.0
157.5°	219.0
160°	215.0
162.5°	207.0
165°	192.0
167.5°	174.0
170°	160.0
172.5°	151.0
175°	144.0
177.5°	141.0
180°	140.0

(END OF REPORT)