

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: P198449

Luminaire Tested: **TT-C4-LED-E1-RW-CG-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198449
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-C4-LED-E1-RW-CG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4913.9 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G2

Input Watts (W): 75.4
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

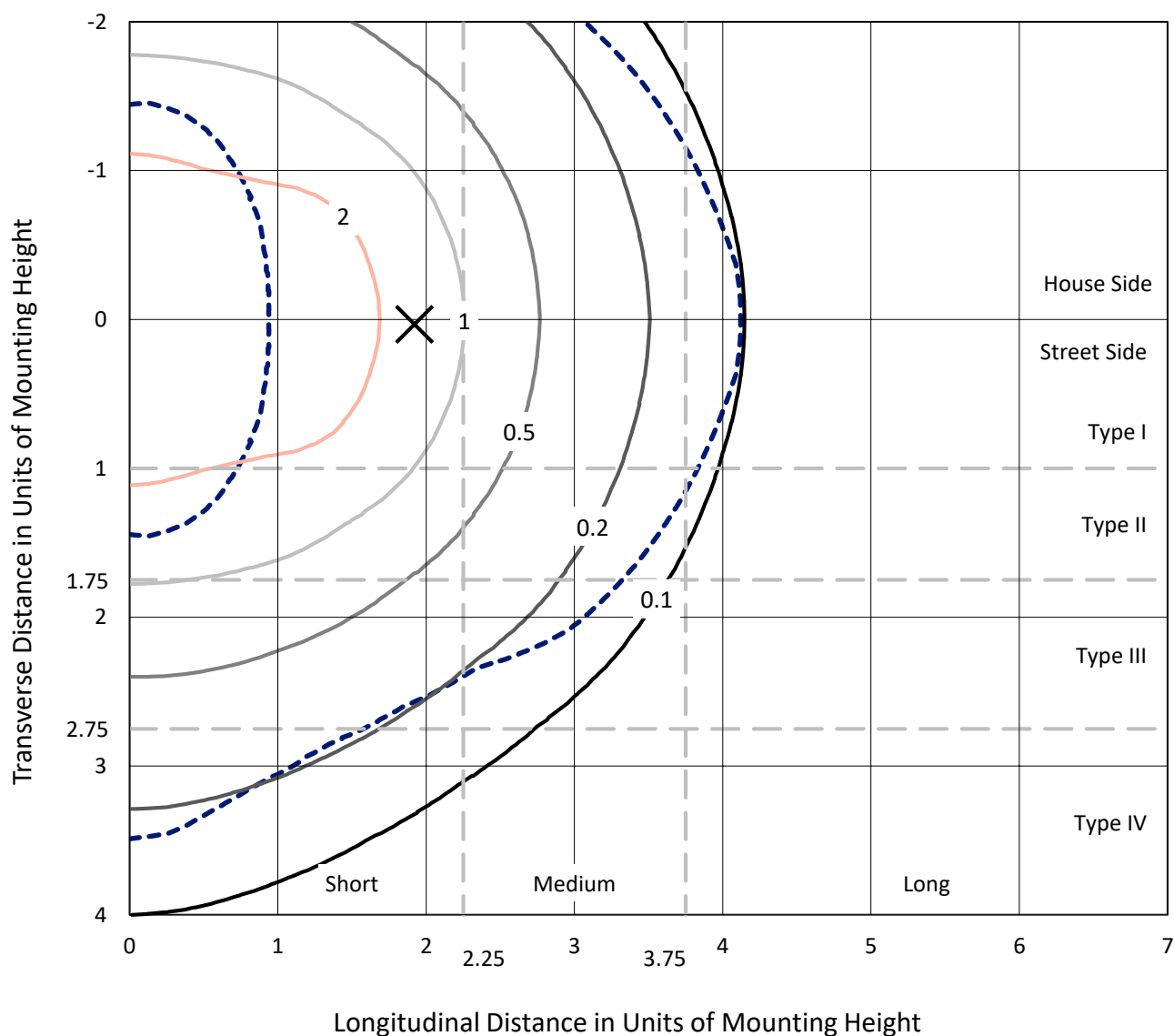


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

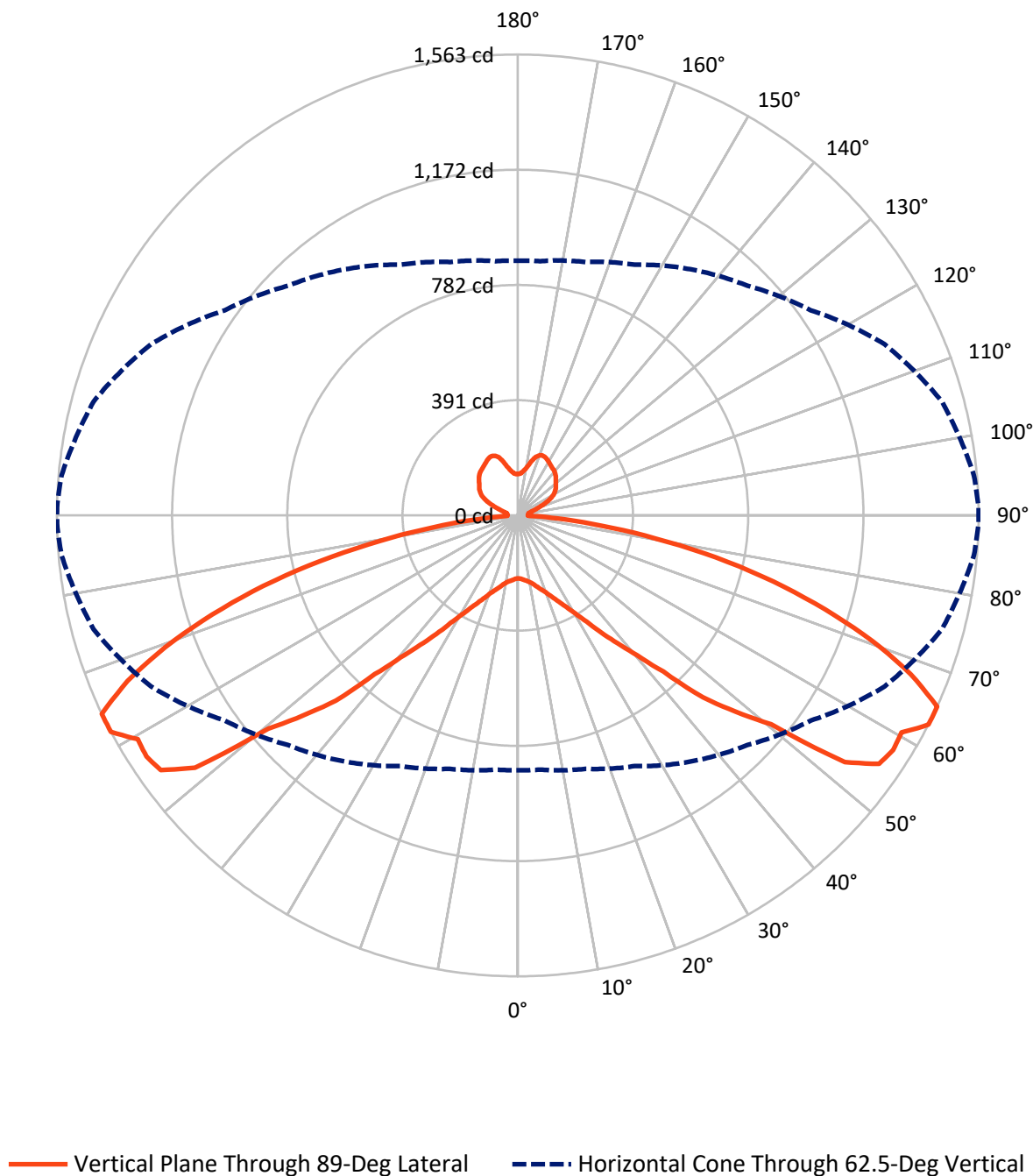


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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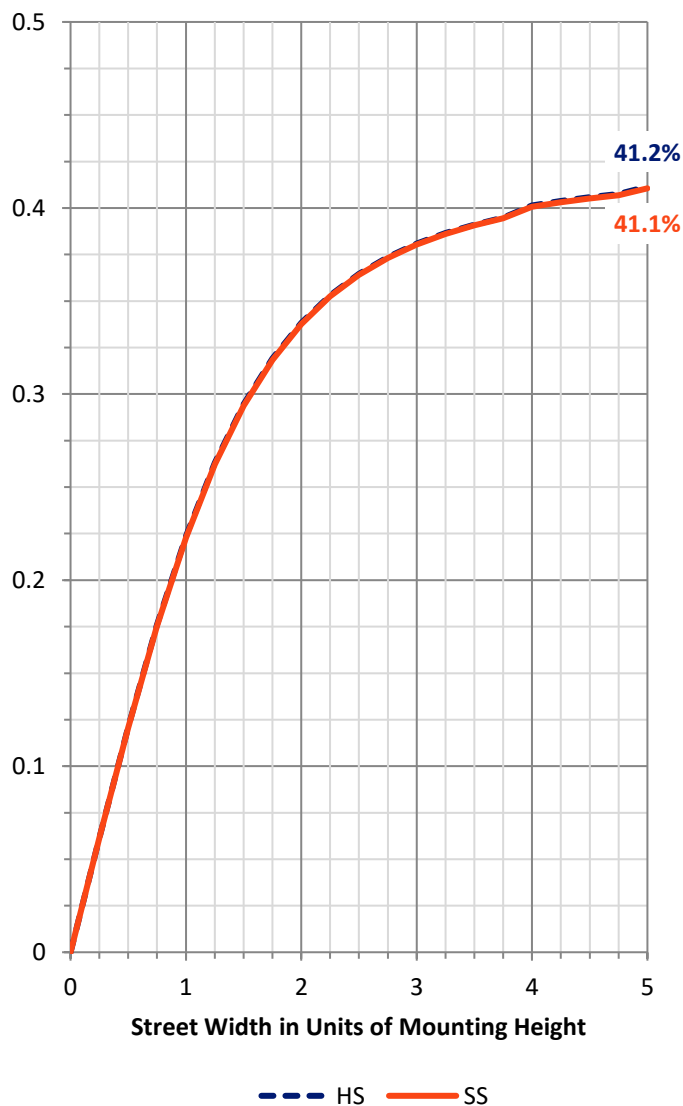
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2044.3	412.7	2457.0
	% Fixture	41.6	8.4	50.0
Street Side	Lumens	2044.3	412.7	2457.0
	% Fixture	41.6	8.4	50.0
Total	Lumens	4088.6	825.3	4913.9
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.4
10°-20°	72.7	1.5
20°-30°	154.6	3.1
30°-40°	297.1	6.0
40°-50°	550.0	11.2
50°-60°	929.1	18.9
60°-70°	1122.1	22.8
70°-80°	772.6	15.7
80°-90°	169.2	3.4
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	2.8
150°-160°	103.9	2.1
160°-170°	51.8	1.1
170°-180°	13.6	0.3
0°-90°	4088.6	83.2
0°-180°	4913.9	100.0

Coefficient of Utilization



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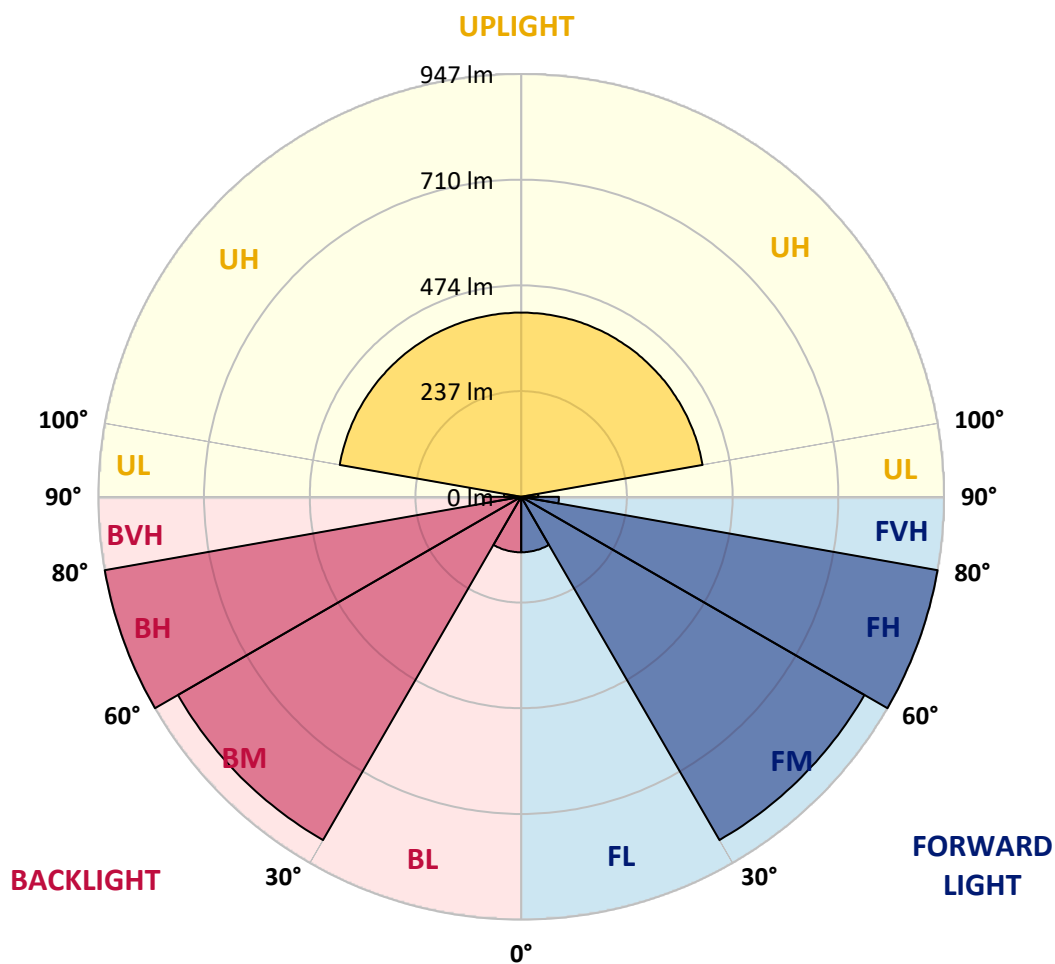
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	124.3	2.5			
FM	(30°-60°)	888.1	18.1			
FH	(60°-80°)	947.3	19.3			G1/1800
FVH	(80°-90°)	84.6	1.7			G1/100
BL	(0°-30°)	124.3	2.5	B1/500		
BM	(30°-60°)	888.1	18.1	B1/1000		
BH	(60°-80°)	947.3	19.3	B2/1000		G2/1000
BVH	(80°-90°)	84.6	1.7			G1/100
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	8.4		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



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CATALOG NUMBER: TT-C4-LED-E1-RW-CG-MS/DIM-8030-UPL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5
2.5°	215.3	215.3	215.3	215.3	216.2	216.2	216.2	216.2	216.2	216.2	215.3
5°	218.8	218.0	218.8	219.7	219.7	220.6	220.6	220.6	220.6	219.7	219.7
7.5°	223.3	223.3	224.2	225.1	226.0	225.1	225.1	224.2	224.2	224.2	224.2
10°	231.4	230.5	231.4	232.2	231.4	231.4	231.4	231.4	231.4	231.4	230.5
12.5°	240.3	240.3	240.3	240.3	239.4	240.3	239.4	240.3	240.3	240.3	239.4
15°	252.8	252.8	252.8	251.9	251.0	251.0	251.0	251.0	251.0	251.0	251.9
17.5°	269.8	268.9	268.0	266.2	265.3	264.4	264.4	264.4	265.3	265.3	265.3
20°	289.4	287.6	285.8	284.9	284.1	282.3	281.4	282.3	283.2	283.2	280.5
22.5°	313.5	310.9	308.2	307.3	303.7	302.8	301.9	301.0	301.0	301.9	301.0
25°	335.9	336.8	334.1	329.6	328.7	326.9	324.3	325.1	324.3	325.1	324.3
27.5°	363.6	365.3	362.7	358.2	355.5	352.8	351.1	351.1	351.9	354.6	351.9
30°	394.8	395.7	393.0	389.5	385.0	381.4	380.5	385.0	385.0	388.6	386.8
32.5°	427.9	427.0	423.4	422.5	417.2	417.2	418.0	421.6	427.9	430.5	429.7
35°	468.1	462.7	461.8	458.2	453.8	453.8	459.1	468.1	479.7	486.8	487.7
37.5°	504.7	502.9	502.0	496.7	494.0	499.3	510.0	526.1	536.0	550.2	550.2
40°	542.2	546.7	542.2	536.8	539.5	547.6	565.4	586.0	608.3	623.5	623.5
42.5°	578.8	586.9	582.4	577.9	585.1	603.8	626.2	661.0	705.7	725.3	724.4
45°	618.1	624.4	619.9	620.8	636.0	659.2	702.1	777.1	839.7	879.9	880.8
47.5°	661.0	661.9	659.2	663.7	686.0	730.7	788.7	880.8	942.4	990.6	994.2
50°	703.9	699.4	698.5	709.2	749.4	805.7	888.8	978.1	1075.5	1111.2	1113.9
52.5°	742.3	736.9	740.5	758.4	811.1	880.8	984.4	1136.2	1277.4	1382.8	1389.9
55°	778.9	772.7	781.6	810.2	879.9	973.7	1103.2	1292.5	1412.2	1481.0	1487.3
57.5°	810.2	808.4	822.7	858.4	944.2	1058.5	1200.5	1355.1	1443.5	1495.3	1501.6
60°	841.4	841.4	860.2	906.7	1002.2	1106.7	1219.3	1354.2	1445.3	1489.1	1495.3
62.5°	863.8	865.6	889.7	937.9	1019.2	1101.4	1213.0	1372.9	1490.0	1553.4	1563.2
65°	876.3	879.9	905.8	937.9	1012.1	1096.0	1253.2	1388.1	1484.6	1551.6	1563.2
67.5°	878.1	885.2	897.7	921.8	984.4	1055.8	1188.9	1298.8	1379.2	1430.1	1438.1
70°	870.0	867.4	866.5	872.7	904.0	955.8	1072.8	1159.4	1238.9	1271.1	1277.4
72.5°	829.8	828.9	797.7	778.0	786.1	821.8	925.4	992.4	1044.2	1085.3	1089.8
75°	749.4	742.3	690.5	650.3	642.3	674.4	752.1	801.3	847.7	886.1	895.9
77.5°	625.3	607.4	554.7	507.4	492.2	516.3	574.4	608.3	642.3	686.9	686.9
80°	453.8	444.8	399.3	360.9	345.7	360.0	401.1	415.4	433.2	473.4	474.3
82.5°	293.0	283.2	252.8	228.7	215.3	224.2	241.2	247.4	262.6	286.7	285.8
85°	142.9	142.9	127.7	114.3	101.8	103.6	114.3	117.9	130.4	136.7	134.9
87.5°	35.7	39.3	34.8	32.2	28.6	28.6	32.2	32.2	39.3	39.3	37.5
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°	213.5
2.5°	215.3
5°	219.7
7.5°	224.2
10°	230.5
12.5°	240.3
15°	251.0
17.5°	266.2
20°	283.2
22.5°	301.0
25°	324.3
27.5°	354.6
30°	388.6
32.5°	428.8
35°	484.1
37.5°	550.2
40°	624.4
42.5°	725.3
45°	882.5
47.5°	990.6
50°	1111.2
52.5°	1385.4
55°	1486.4
57.5°	1502.5
60°	1497.1
62.5°	1563.2
65°	1561.4
67.5°	1436.4
70°	1280.0
72.5°	1096.9
75°	899.5
77.5°	682.4
80°	493.1
82.5°	287.6
85°	136.7
87.5°	41.1
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)