

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: P198392

Luminaire Tested: **TT-C3-LED-E1-RW-CG-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198392
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-RW-CG-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5014.7 lumens
Efficiency: N/A
Efficacy: 80.4 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): 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

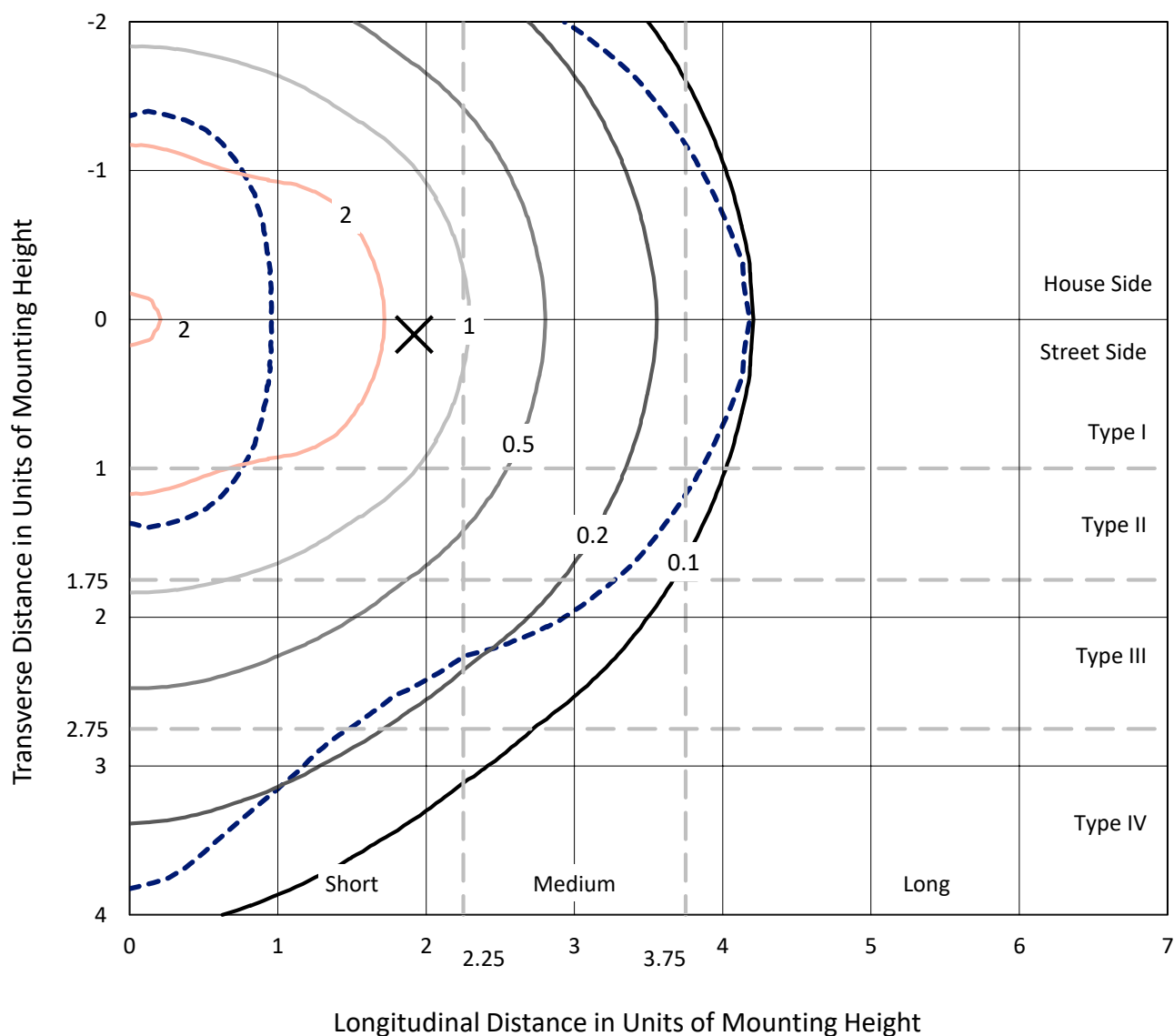


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

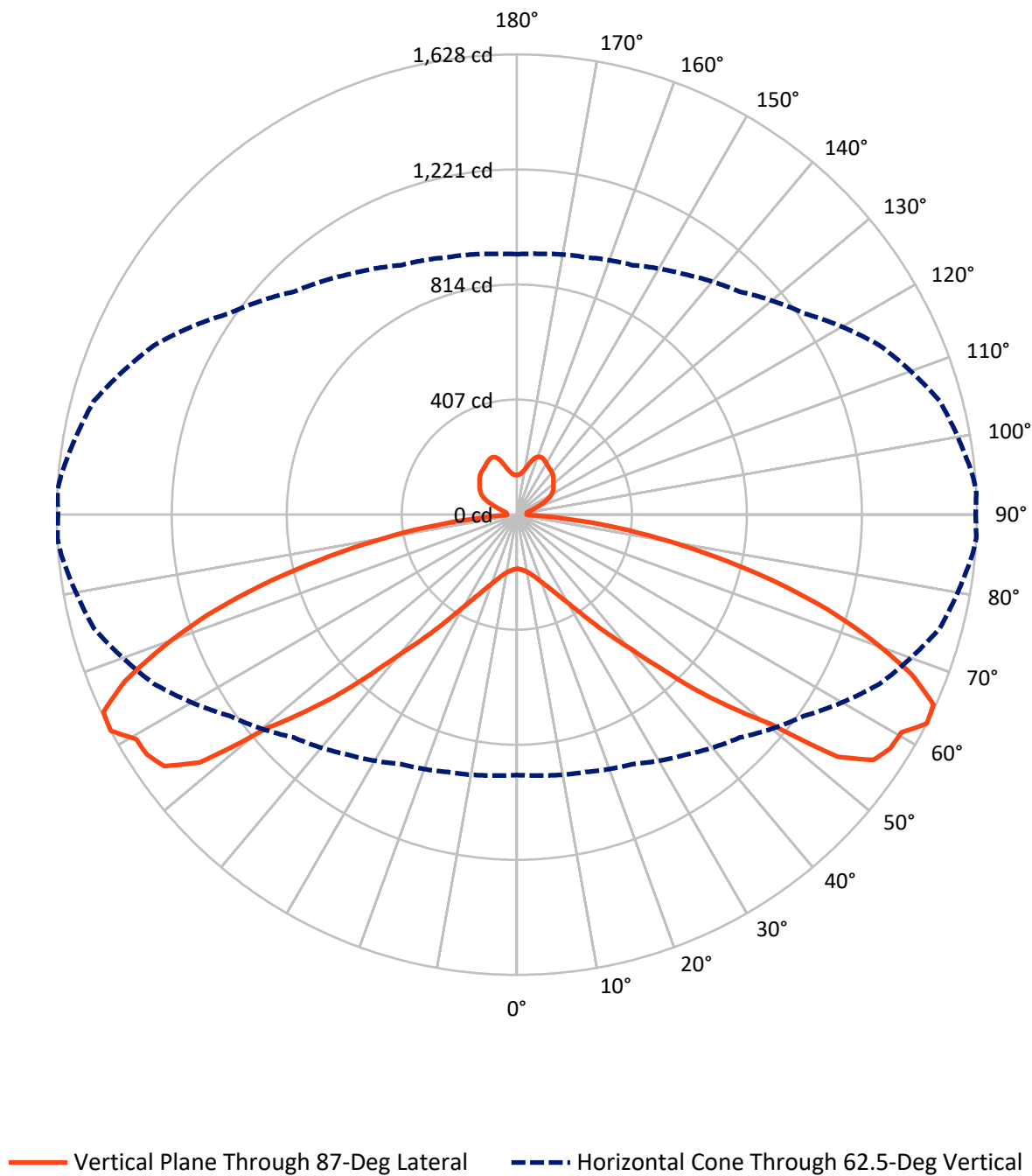


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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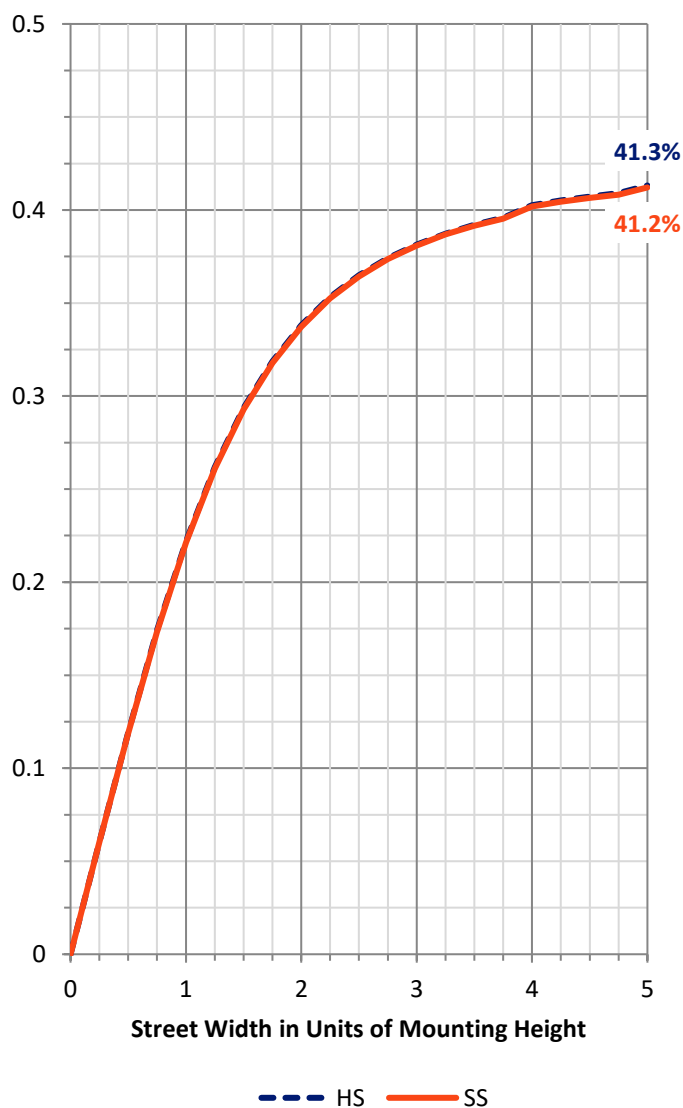
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2094.7	412.7	2507.4
	% Fixture	41.8	8.2	50.0
Street Side	Lumens	2094.7	412.7	2507.4
	% Fixture	41.8	8.2	50.0
Total	Lumens	4189.4	825.3	5014.7
	% Fixture	83.5	16.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	0.4
10°-20°	66.1	1.3
20°-30°	145.9	2.9
30°-40°	293.7	5.9
40°-50°	560.3	11.2
50°-60°	959.3	19.1
60°-70°	1162.2	23.2
70°-80°	805.3	16.1
80°-90°	177.5	3.5
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°	4189.4	83.5
0°-180°	5014.7	100.0

Coefficient of Utilization



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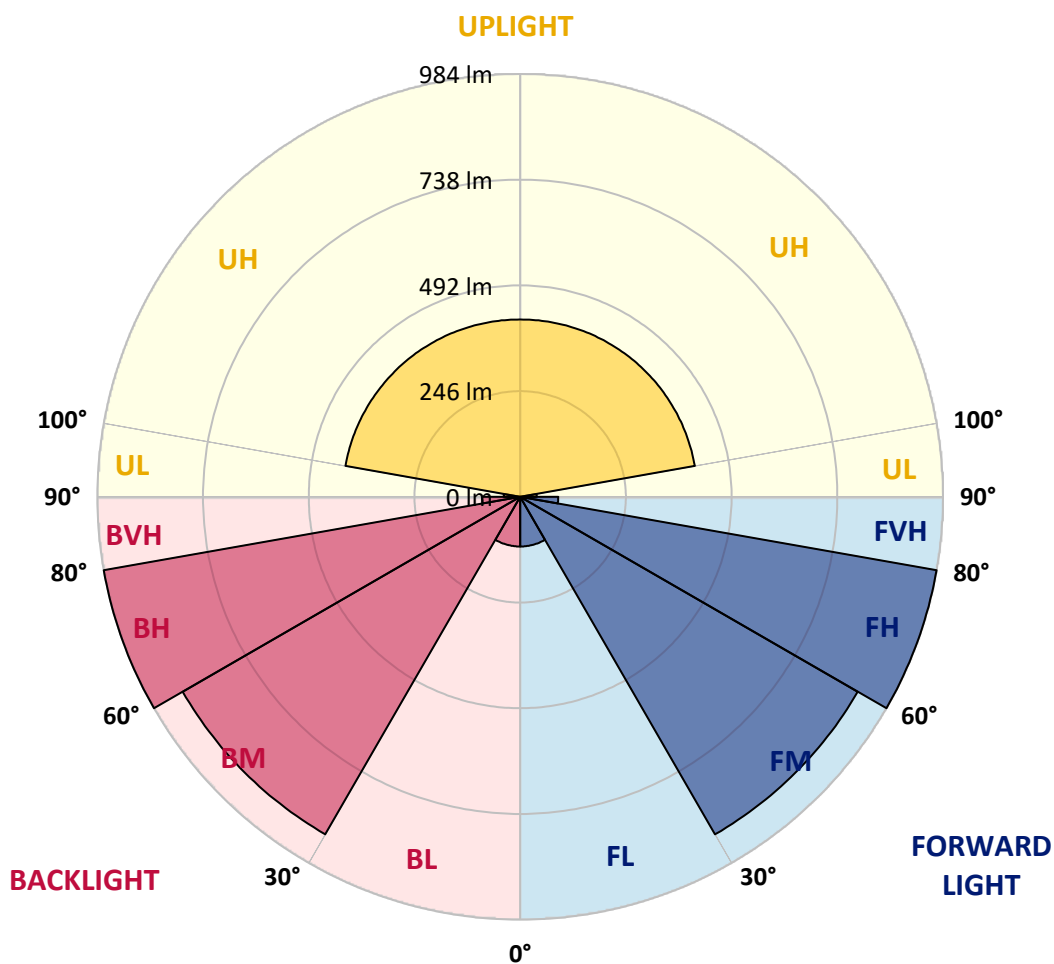
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.5	2.3			
FM	(30°-60°)	906.7	18.1			
FH	(60°-80°)	983.7	19.6			G1/1800
FVH	(80°-90°)	88.7	1.8			G1/100
BL	(0°-30°)	115.5	2.3	B1/500		
BM	(30°-60°)	906.7	18.1	B1/1000		
BH	(60°-80°)	983.7	19.6	B2/1000		G2/1000
BVH	(80°-90°)	88.7	1.8			G1/100
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	8.2		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9
2.5°	192.6	192.6	193.4	193.4	193.4	193.4	193.4	193.4	193.4	193.4	193.4
5°	196.0	196.0	196.0	196.9	196.9	196.9	196.9	196.9	196.0	196.0	196.0
7.5°	201.1	201.1	201.1	202.0	202.0	202.0	201.1	201.1	200.3	200.3	200.3
10°	208.0	208.0	208.8	208.8	208.0	208.0	207.1	206.3	207.1	206.3	206.3
12.5°	217.4	219.1	218.3	218.3	216.5	216.5	215.7	215.7	215.7	214.8	214.8
15°	231.1	231.1	231.9	230.2	230.2	227.7	226.8	226.0	226.8	226.8	226.0
17.5°	247.4	247.4	247.4	244.8	243.1	241.4	240.5	239.6	238.8	239.6	239.6
20°	272.2	270.5	267.0	265.3	261.0	259.3	257.6	256.8	255.9	255.9	255.9
22.5°	297.8	296.1	291.9	288.4	285.0	280.7	279.0	275.6	274.7	276.5	275.6
25°	322.7	325.2	320.1	315.8	313.3	306.4	302.1	301.3	299.6	298.7	299.6
27.5°	353.5	355.2	350.9	344.9	339.8	334.7	330.4	328.7	329.5	329.5	330.4
30°	387.7	391.1	384.3	380.9	373.2	366.3	362.9	364.6	366.3	368.9	368.0
32.5°	427.1	427.1	423.7	417.7	409.1	403.1	401.4	404.0	411.7	415.1	414.2
35°	473.3	469.9	466.5	458.8	447.6	444.2	447.6	456.2	467.3	473.3	476.7
37.5°	521.2	514.4	509.3	500.7	495.6	493.8	501.5	517.8	529.8	540.9	546.1
40°	562.3	562.3	555.5	546.1	540.9	548.6	560.6	583.7	606.8	618.8	627.4
42.5°	603.4	608.5	600.8	593.1	593.1	603.4	626.5	662.5	706.1	731.8	736.1
45°	646.2	655.6	645.3	640.2	645.3	665.9	709.5	778.9	843.9	885.8	879.0
47.5°	690.7	699.3	689.8	687.3	699.3	736.1	802.8	891.8	956.9	1000.5	1017.6
50°	745.5	739.5	736.1	735.2	760.0	814.8	901.2	997.1	1101.5	1140.9	1162.3
52.5°	791.7	781.4	779.7	785.7	826.8	892.7	1000.5	1176.8	1321.5	1419.1	1422.5
55°	831.9	820.8	826.8	841.3	897.0	988.5	1124.6	1330.9	1453.3	1526.0	1532.0
57.5°	866.2	860.2	870.4	890.1	962.0	1071.6	1223.9	1394.2	1495.2	1553.4	1559.4
60°	897.0	896.1	907.2	940.6	1021.1	1120.4	1246.2	1398.5	1503.8	1556.0	1563.7
62.5°	920.9	926.1	942.3	973.1	1037.3	1115.2	1241.0	1416.5	1550.0	1618.5	1627.9
65°	941.5	946.6	962.9	973.1	1030.5	1104.9	1269.3	1428.5	1543.2	1614.2	1620.2
67.5°	952.6	958.6	956.0	957.7	1002.2	1060.4	1202.5	1339.5	1433.6	1498.7	1506.4
70°	950.9	945.8	925.2	903.8	913.2	954.3	1082.7	1197.4	1283.0	1334.3	1336.9
72.5°	914.9	906.4	857.6	808.0	793.4	820.8	932.9	1019.4	1092.1	1139.2	1153.7
75°	833.6	816.5	745.5	681.3	648.8	669.3	755.7	831.1	885.0	931.2	940.6
77.5°	685.6	675.3	604.3	534.1	498.1	511.8	580.3	624.8	683.0	730.9	718.9
80°	499.0	497.3	439.9	377.4	351.8	357.8	394.6	438.2	475.0	511.0	512.7
82.5°	326.1	321.0	282.4	237.1	210.5	214.0	237.1	260.2	295.3	318.4	325.2
85°	161.8	159.2	142.1	113.8	99.3	99.3	110.4	124.1	141.2	151.5	150.6
87.5°	44.5	40.2	39.4	29.1	24.0	25.7	25.7	28.2	35.9	38.5	41.1
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	38.6
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	48.4
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	59.4
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	74.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.6
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	114.8
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	131.4
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	143.8
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	151.8
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	159.2
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	164.8
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	170.2
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	177.8
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.6
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.6
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	201.4
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	204.8
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	210.4
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	215.4
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.6
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	220.8
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	216.8
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	190.8
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	172.8
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	159.4
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	149.8
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	143.4
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°	190.9
2.5°	193.4
5°	196.0
7.5°	200.3
10°	207.1
12.5°	214.8
15°	226.0
17.5°	238.8
20°	255.9
22.5°	277.3
25°	299.6
27.5°	329.5
30°	368.9
32.5°	415.1
35°	475.0
37.5°	541.8
40°	623.9
42.5°	731.8
45°	886.7
47.5°	1009.1
50°	1151.2
52.5°	1427.6
55°	1533.7
57.5°	1561.1
60°	1564.6
62.5°	1623.6
65°	1627.0
67.5°	1500.4
70°	1341.2
72.5°	1152.0
75°	947.5
77.5°	731.8
80°	511.8
82.5°	320.1
85°	149.8
87.5°	37.7
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)