

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: P198388

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198388
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-MQ-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6065.5 lumens
Efficiency: N/A
Efficacy: 97.2 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

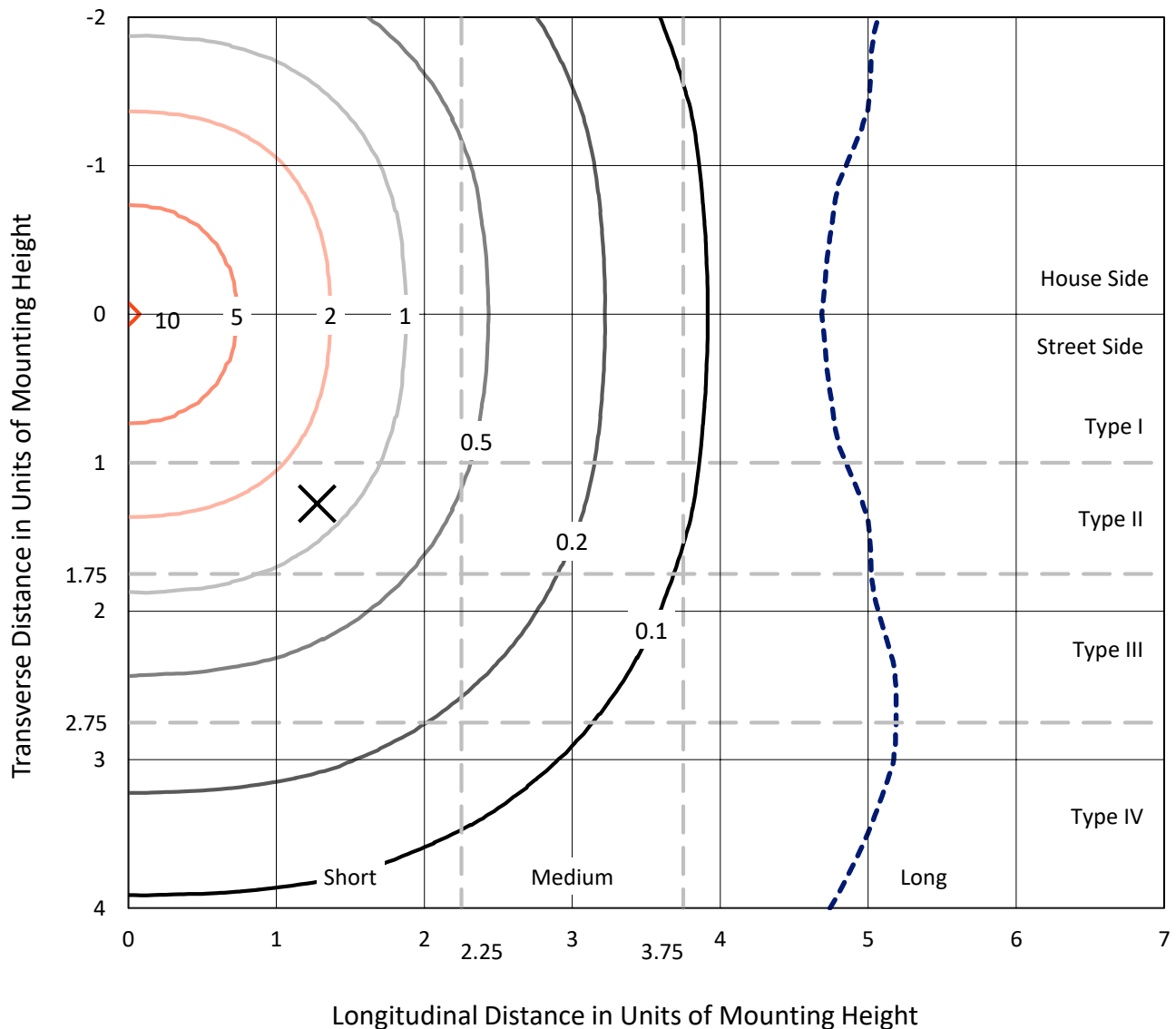


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

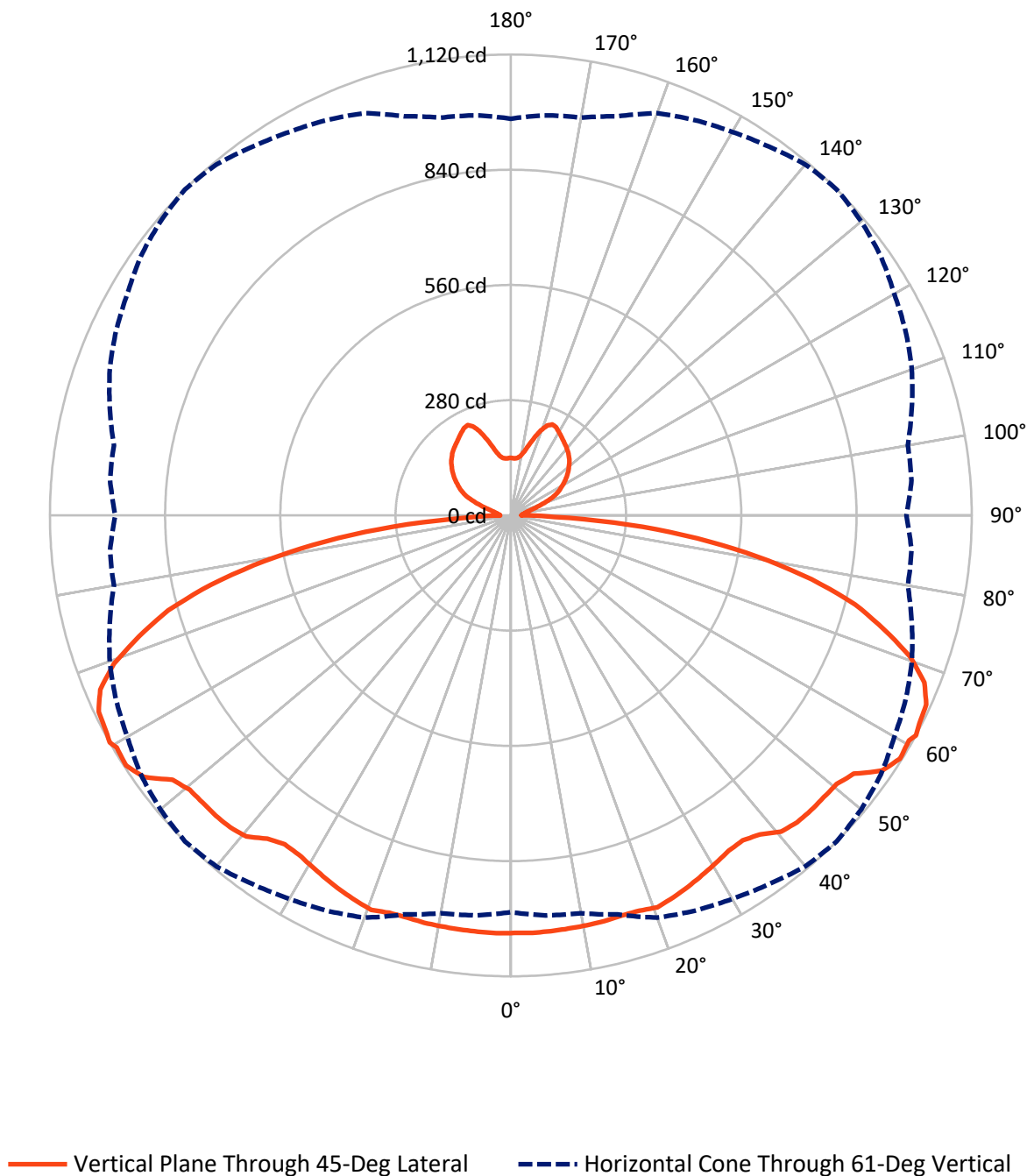


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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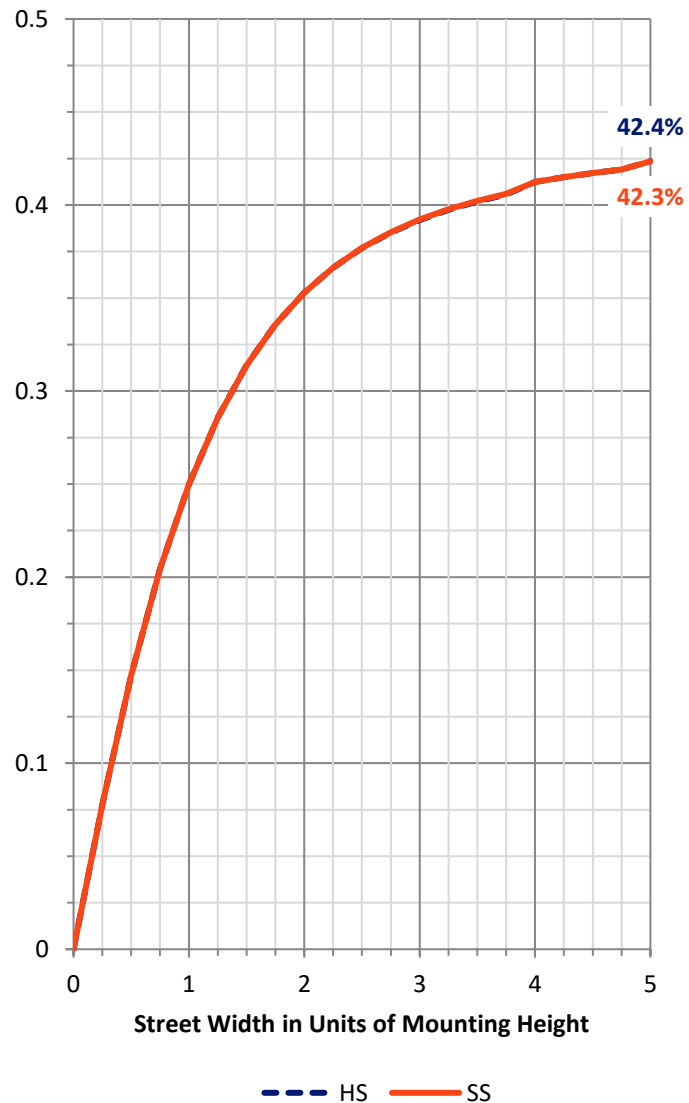
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2620.8	412.0	3032.7
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2620.8	412.0	3032.7
	% Fixture	43.2	6.8	50.0
Total	Lumens	5241.5	824.0	6065.5
	% Fixture	86.4	13.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	1.6
10°-20°	286.2	4.7
20°-30°	460.5	7.6
30°-40°	610.0	10.1
40°-50°	770.3	12.7
50°-60°	923.0	15.2
60°-70°	1009.2	16.6
70°-80°	807.9	13.3
80°-90°	277.7	4.6
90°-100°	38.3	0.6
100°-110°	59.4	1.0
110°-120°	119.3	2.0
120°-130°	148.7	2.5
130°-140°	153.2	2.5
140°-150°	136.0	2.2
150°-160°	103.7	1.7
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	5241.5	86.4
0°-180°	6065.5	100.0

Coefficient of Utilization



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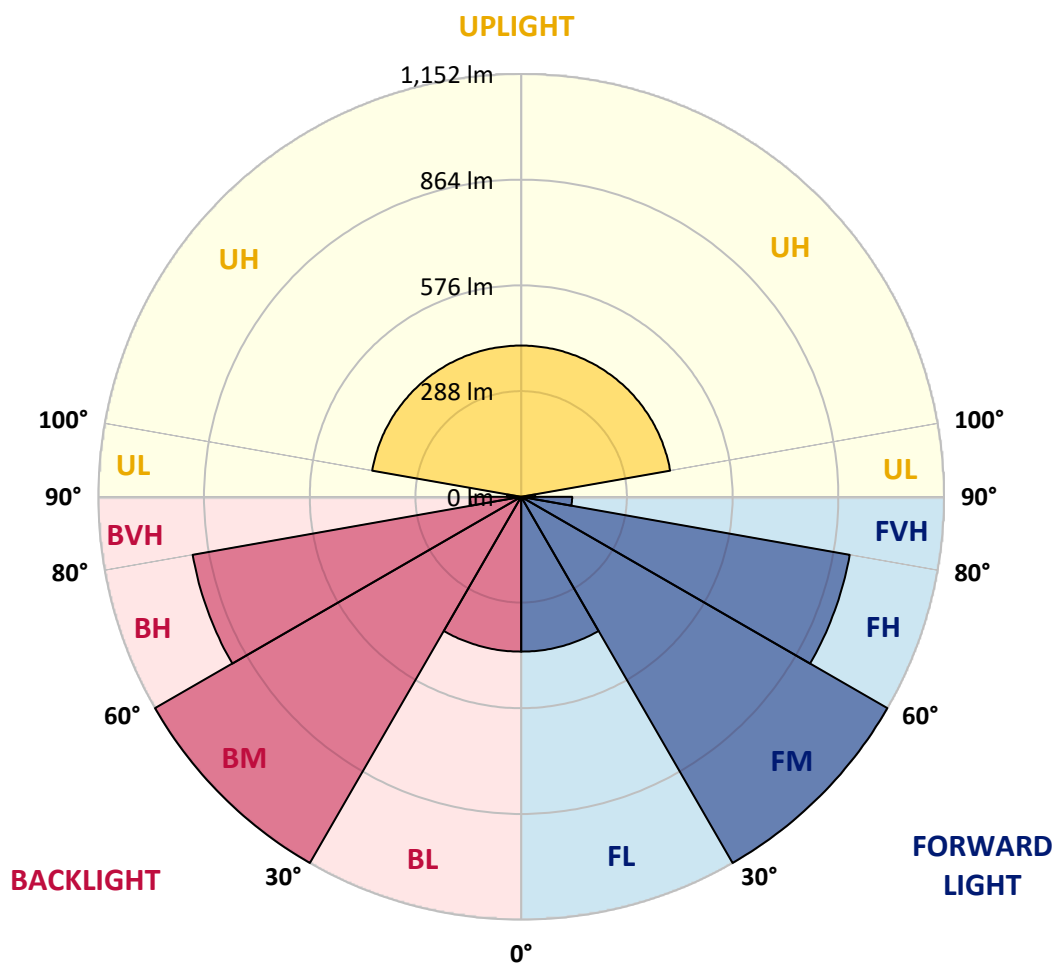
CATALOG NUMBER: TT-C3-LED-E1-MQ-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.7	7.0			
FM	(30°-60°)	1151.6	19.0			
FH	(60°-80°)	908.5	15.0			G1/1800
FVH	(80°-90°)	138.9	2.3			G2/225
BL	(0°-30°)	421.7	7.0	B1/500		
BM	(30°-60°)	1151.6	19.0	B2/2500		
BH	(60°-80°)	908.5	15.0	B2/1000		G1/1800
BVH	(80°-90°)	138.9	2.3			G2/225
UL	(90°-100°)	38.3	0.6		U2/50	
UH	(100°-180°)	412.0	6.8		U3/500	

BUG Rating: B2-U4-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7
2.5°	1015.7	1014.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7
5°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7
7.5°	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1014.7	1013.7	1014.7
10°	1011.8	1011.8	1011.8	1011.8	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
12.5°	1009.8	1009.8	1009.8	1009.8	1010.8	1010.8	1010.8	1010.8	1011.8	1011.8	1010.8
15°	1007.8	1006.9	1006.9	1007.8	1007.8	1008.8	1008.8	1008.8	1009.8	1008.8	1008.8
17.5°	1005.9	1004.9	1005.9	1006.9	1006.9	1007.8	1008.8	1008.8	1009.8	1009.8	1009.8
20°	1008.8	1007.8	1008.8	1009.8	1010.8	1012.7	1013.7	1014.7	1015.7	1016.6	1016.6
22.5°	1003.0	1002.0	1003.0	1003.0	1003.9	1004.9	1006.9	1007.8	1008.8	1008.8	1008.8
25°	994.2	994.2	995.1	995.1	996.1	997.1	998.1	999.0	999.0	1000.0	999.0
27.5°	984.4	984.4	985.4	985.4	987.3	987.3	988.3	989.3	990.2	990.2	990.2
30°	972.7	972.7	973.7	974.7	976.6	977.5	978.5	979.5	980.5	980.5	980.5
32.5°	962.0	961.0	962.0	963.9	966.9	968.8	970.8	971.8	971.8	971.8	972.7
35°	953.2	954.2	956.1	958.1	962.0	963.9	965.9	968.8	969.8	969.8	969.8
37.5°	955.1	956.1	959.1	963.0	967.9	973.7	977.5	981.4	984.4	983.4	982.4
40°	967.9	969.8	974.7	980.5	988.3	996.1	1002.0	1006.9	1009.8	1010.8	1009.8
42.5°	969.8	971.8	975.7	984.4	993.2	1002.0	1009.8	1014.7	1018.6	1019.6	1018.6
45°	968.8	968.8	974.7	984.4	993.2	1002.0	1011.8	1018.6	1022.5	1022.5	1022.5
47.5°	962.0	964.9	968.8	978.5	990.2	999.0	1008.8	1015.7	1020.5	1023.5	1020.5
50°	962.0	962.0	968.8	975.7	986.3	1002.0	1015.7	1022.5	1027.3	1026.3	1027.3
52.5°	960.0	965.9	969.8	979.5	999.0	1014.7	1025.3	1035.1	1042.0	1042.9	1041.0
55°	977.5	978.5	987.3	1005.9	1024.4	1042.0	1061.5	1076.1	1087.8	1094.7	1084.9
57.5°	991.2	986.3	1003.9	1019.6	1041.0	1067.4	1096.6	1108.3	1117.1	1115.2	1118.1
60°	972.7	979.5	992.2	1008.8	1042.9	1069.3	1084.9	1097.6	1108.3	1111.3	1107.4
61°	963.9	975.7	981.4	1003.9	1040.0	1059.6	1076.1	1093.7	1113.2	1120.0	1111.3
62.5°	949.3	967.9	965.9	1002.0	1024.4	1046.8	1078.0	1098.6	1112.3	1114.2	1112.3
65°	950.3	947.3	969.8	996.1	1018.6	1058.6	1084.9	1097.6	1105.4	1109.3	1107.4
67.5°	919.1	909.3	936.6	955.1	993.2	1024.4	1049.8	1068.4	1080.0	1083.9	1079.0
70°	846.8	853.7	873.2	901.5	932.7	970.8	994.2	1018.6	1028.3	1029.2	1029.2
72.5°	777.6	781.5	801.0	827.4	863.4	896.6	920.0	939.5	948.3	949.3	951.2
75°	685.9	689.8	712.2	736.6	772.7	801.0	817.6	841.0	853.7	864.4	855.6
77.5°	579.5	586.4	603.9	630.3	663.4	679.1	708.3	735.7	744.4	747.3	744.4
80°	459.5	468.3	483.9	519.0	533.7	559.0	587.4	599.0	606.8	608.8	609.7
82.5°	330.7	337.6	354.2	378.5	395.2	415.6	435.1	449.8	458.5	456.6	455.6
85°	195.1	197.1	214.6	231.2	243.9	256.6	272.2	282.9	284.9	288.8	287.8
87.5°	58.6	59.5	67.4	76.1	81.9	87.8	97.6	110.3	113.2	105.4	106.4
90°	36.0	36.0	36.0	36.0	35.0	34.0	31.0	29.0	27.0	26.0	26.0
92.5°	40.0	39.0	39.0	38.0	36.0	34.0	32.0	29.0	27.0	27.0	27.0
95°	44.0	43.0	42.0	41.0	38.0	36.0	34.0	32.0	31.0	30.0	30.0
97.5°	42.0	42.0	41.0	40.0	38.0	37.0	36.0	35.0	34.0	33.0	32.0
100°	45.0	45.0	45.0	44.0	42.0	40.0	39.0	38.0	36.0	36.0	35.0
102.5°	51.0	51.0	50.0	49.0	47.0	46.0	45.0	44.0	42.0	42.0	42.0
105°	60.0	60.0	59.0	57.0	55.0	54.0	53.0	53.0	51.0	52.0	52.0
107.5°	72.0	72.0	72.0	70.0	68.0	67.0	66.0	66.0	66.0	68.0	68.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.0
112.5°	101.0	102.0	104.0	108.0	106.0	107.0	107.0	110.0	108.0	107.0	103.0
115°	121.0	122.0	123.0	128.0	126.0	128.0	127.0	129.0	126.0	124.0	120.0
117.5°	140.0	141.0	141.0	144.0	141.0	141.0	140.0	141.0	138.0	136.0	135.0
120°	152.0	153.0	154.0	155.0	151.0	149.0	147.0	149.0	147.0	147.0	148.0
122.5°	161.0	162.0	163.0	164.0	159.0	154.0	153.0	155.0	156.0	158.0	158.0
125°	169.0	169.0	170.0	172.0	168.0	163.0	160.0	165.0	166.0	168.0	167.0
127.5°	177.0	177.0	179.0	181.0	177.0	171.0	170.0	176.0	177.0	178.0	175.0
130°	187.0	188.0	190.0	191.0	185.0	179.0	179.0	186.0	187.0	186.0	183.0
132.5°	198.0	199.0	200.0	201.0	193.0	186.0	187.0	193.0	195.0	195.0	191.0
135°	210.0	210.0	211.0	209.0	199.0	192.0	193.0	199.0	202.0	201.0	197.0
137.5°	221.0	219.0	217.0	213.0	203.0	197.0	198.0	205.0	207.0	208.0	203.0
140°	229.0	226.0	222.0	216.0	205.0	200.0	201.0	207.0	210.0	213.0	212.0
142.5°	235.0	231.0	225.0	218.0	206.0	201.0	202.0	208.0	212.0	218.0	218.0
145°	235.0	230.0	225.0	218.0	207.0	202.0	204.0	211.0	215.0	223.0	225.0
147.5°	230.0	227.0	223.0	219.0	210.0	207.0	209.0	216.0	220.0	229.0	233.0
150°	224.0	221.0	219.0	220.0	215.0	214.0	216.0	222.0	227.0	235.0	239.0
152.5°	216.0	214.0	216.0	221.0	220.0	220.0	224.0	230.0	234.0	241.0	241.0
155°	208.0	207.0	211.0	219.0	222.0	224.0	229.0	237.0	239.0	243.0	239.0
157.5°	203.0	203.0	207.0	216.0	220.0	224.0	229.0	234.0	232.0	235.0	230.0
160°	199.0	198.0	203.0	210.0	212.0	213.0	216.0	219.0	216.0	219.0	216.0
162.5°	185.0	184.0	188.0	193.0	194.0	193.0	196.0	198.0	195.0	198.0	196.0
165°	169.0	167.0	169.0	173.0	173.0	173.0	175.0	176.0	174.0	177.0	175.0
167.5°	154.0	152.0	153.0	156.0	156.0	155.0	157.0	159.0	157.0	159.0	158.0
170°	142.0	141.0	142.0	145.0	144.0	144.0	146.0	147.0	146.0	147.0	147.0
172.5°	137.0	135.0	136.0	139.0	139.0	138.0	140.0	141.0	140.0	141.0	140.0
175°	136.0	134.0	135.0	137.0	137.0	137.0	138.0	139.0	138.0	139.0	138.0
177.5°	137.0	136.0	136.0	139.0	138.0	138.0	139.0	140.0	139.0	139.0	138.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7
2.5°	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1014.7	1015.7
5°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7
7.5°	1014.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7
10°	1012.7	1012.7	1012.7	1012.7	1011.8	1011.8	1011.8	1011.8
12.5°	1010.8	1010.8	1010.8	1010.8	1009.8	1009.8	1009.8	1009.8
15°	1008.8	1008.8	1008.8	1008.8	1007.8	1007.8	1007.8	1007.8
17.5°	1009.8	1008.8	1007.8	1007.8	1006.9	1005.9	1005.9	1005.9
20°	1015.7	1014.7	1012.7	1010.8	1009.8	1008.8	1008.8	1008.8
22.5°	1007.8	1006.9	1004.9	1003.9	1003.9	1003.0	1002.0	1002.0
25°	999.0	997.1	997.1	996.1	996.1	994.2	994.2	993.2
27.5°	989.3	988.3	987.3	986.3	986.3	985.4	984.4	983.4
30°	980.5	978.5	976.6	975.7	974.7	973.7	973.7	973.7
32.5°	971.8	969.8	968.8	965.9	963.9	963.0	962.0	962.0
35°	968.8	965.9	963.9	961.0	958.1	956.1	955.1	953.2
37.5°	980.5	976.6	973.7	968.8	962.0	959.1	956.1	955.1
40°	1005.9	1002.0	996.1	988.3	980.5	974.7	969.8	967.9
42.5°	1014.7	1009.8	1002.0	994.2	984.4	975.7	971.8	969.8
45°	1017.6	1012.7	1002.0	992.2	983.4	975.7	969.8	967.9
47.5°	1014.7	1007.8	998.1	990.2	977.5	967.9	963.9	961.0
50°	1021.5	1015.7	1003.0	985.4	974.7	968.8	962.0	961.0
52.5°	1035.1	1024.4	1012.7	1000.0	979.5	967.9	963.9	959.1
55°	1076.1	1061.5	1041.0	1020.5	1007.8	989.3	977.5	977.5
57.5°	1107.4	1095.6	1069.3	1042.0	1018.6	1004.9	987.3	988.3
60°	1098.6	1082.9	1070.3	1042.9	1009.8	991.2	984.4	971.8
61°	1097.6	1076.1	1058.6	1037.1	1008.8	979.5	977.5	961.0
62.5°	1099.5	1080.0	1046.8	1024.4	1003.0	964.9	963.9	948.3
65°	1097.6	1079.0	1062.5	1020.5	991.2	975.7	942.4	955.1
67.5°	1067.4	1050.8	1020.5	997.1	952.2	932.7	914.2	914.2
70°	1019.6	995.1	965.9	936.6	906.4	873.2	856.6	846.8
72.5°	939.5	919.1	895.6	864.4	827.4	797.1	781.5	774.7
75°	839.0	816.6	796.1	772.7	733.7	708.3	691.7	686.9
77.5°	733.7	714.2	678.1	655.6	629.3	600.0	585.4	579.5
80°	599.0	588.3	562.9	526.8	514.1	478.1	468.3	459.5
82.5°	449.8	438.1	414.6	389.3	373.7	353.2	335.6	333.7
85°	282.9	275.1	260.5	242.0	222.4	210.8	195.1	199.0
87.5°	105.4	100.5	91.7	80.0	71.3	63.4	55.6	58.6
90°	28.0	30.0	32.0	33.0	34.0	34.0	34.0	34.0
92.5°	28.0	30.0	32.0	33.0	35.0	36.0	36.0	36.0
95°	30.0	32.0	34.0	35.0	37.0	38.0	39.0	38.0
97.5°	33.0	34.0	34.0	35.0	36.0	36.0	36.0	36.0
100°	36.0	37.0	38.0	38.0	38.0	38.0	37.0	37.0
102.5°	43.0	44.0	44.0	42.0	42.0	41.0	41.0	41.0
105°	54.0	54.0	53.0	51.0	49.0	48.0	48.0	49.0
107.5°	68.0	68.0	66.0	63.0	60.0	59.0	59.0	60.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0
112.5°	102.0	102.0	105.0	103.0	100.0	98.0	95.0	94.0
115°	121.0	123.0	125.0	124.0	123.0	121.0	116.0	113.0
117.5°	138.0	140.0	141.0	139.0	139.0	139.0	133.0	129.0
120°	150.0	151.0	153.0	148.0	148.0	148.0	145.0	142.0
122.5°	159.0	160.0	162.0	156.0	155.0	156.0	153.0	150.0
125°	167.0	167.0	168.0	164.0	163.0	164.0	160.0	158.0
127.5°	176.0	175.0	175.0	173.0	173.0	173.0	166.0	163.0
130°	183.0	182.0	183.0	181.0	184.0	181.0	171.0	169.0
132.5°	190.0	189.0	192.0	189.0	192.0	190.0	179.0	176.0
135°	196.0	197.0	201.0	199.0	199.0	195.0	185.0	184.0
137.5°	203.0	205.0	210.0	207.0	204.0	198.0	191.0	190.0
140°	212.0	214.0	217.0	214.0	209.0	202.0	195.0	195.0
142.5°	220.0	222.0	223.0	217.0	211.0	204.0	198.0	198.0
145°	230.0	230.0	227.0	217.0	211.0	205.0	201.0	202.0
147.5°	239.0	236.0	229.0	218.0	212.0	207.0	204.0	206.0
150°	242.0	240.0	232.0	220.0	214.0	211.0	210.0	211.0
152.5°	242.0	241.0	235.0	223.0	219.0	217.0	215.0	216.0
155°	238.0	237.0	234.0	227.0	224.0	223.0	220.0	219.0
157.5°	228.0	229.0	229.0	226.0	226.0	225.0	222.0	219.0
160°	215.0	217.0	219.0	219.0	221.0	222.0	218.0	215.0
162.5°	196.0	199.0	200.0	201.0	204.0	208.0	207.0	207.0
165°	176.0	179.0	181.0	181.0	185.0	189.0	190.0	192.0
167.5°	160.0	163.0	165.0	164.0	168.0	171.0	172.0	174.0
170°	148.0	150.0	152.0	152.0	155.0	158.0	159.0	160.0
172.5°	141.0	144.0	145.0	144.0	146.0	149.0	149.0	151.0
175°	138.0	140.0	141.0	140.0	141.0	143.0	143.0	144.0
177.5°	138.0	140.0	140.0	138.0	140.0	141.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)