

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: P198411

Luminaire Tested: **TT-C3-LED-E1-WQ-CG-LWR-LW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198411
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-WQ-CG-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5152.8 lumens
Efficiency: N/A
Efficacy: 82.6 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): 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

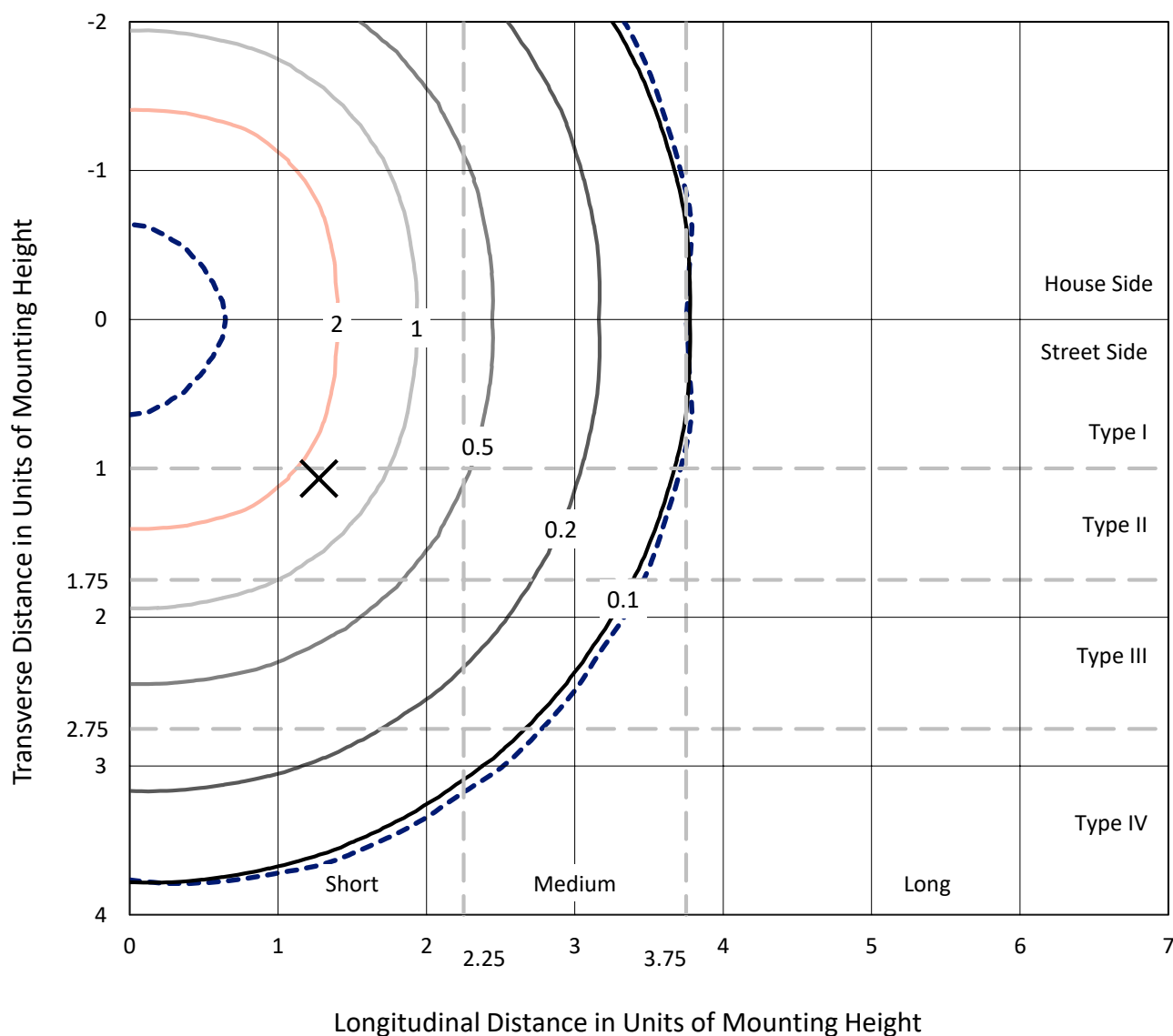


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

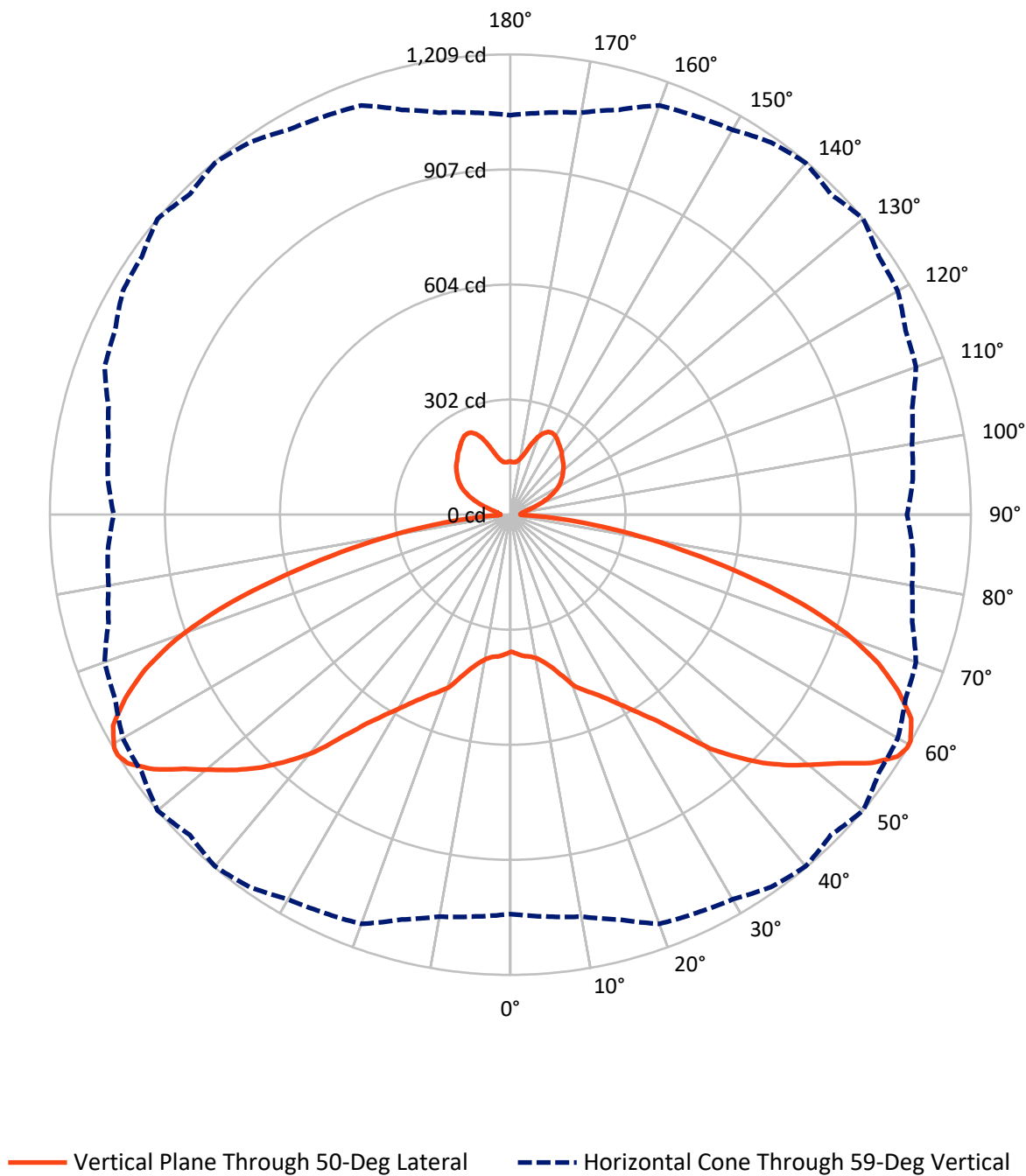


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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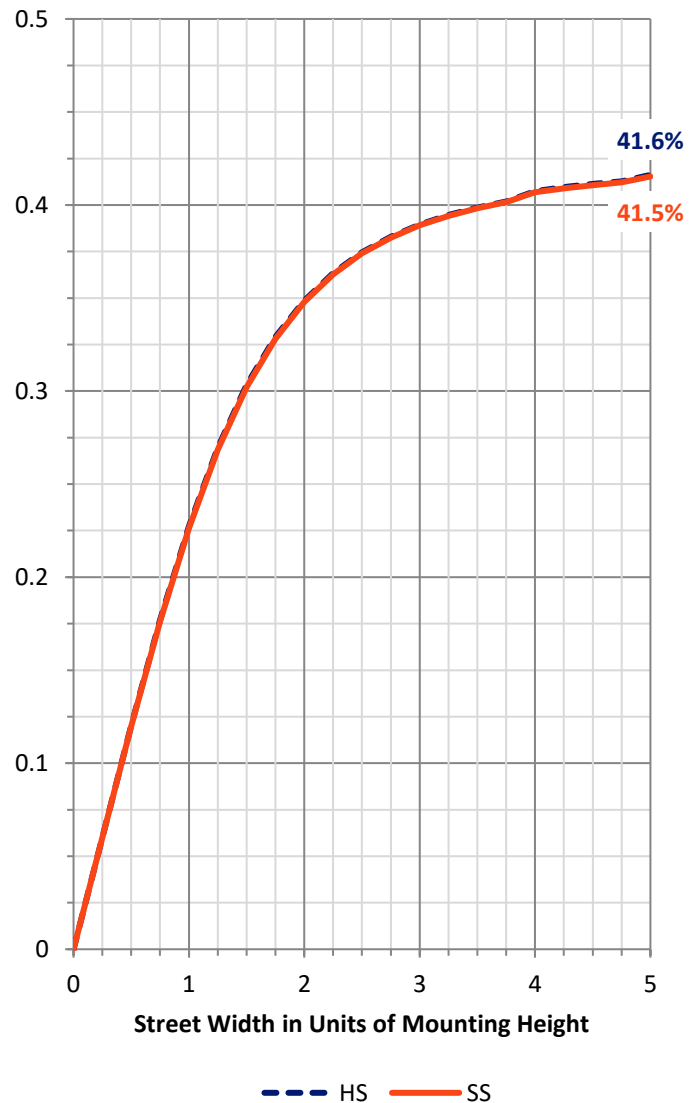
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2164.4	412.0	2576.4
	% Fixture	42.0	8.0	50.0
Street Side	Lumens	2164.4	412.0	2576.4
	% Fixture	42.0	8.0	50.0
Total	Lumens	4328.8	824.0	5152.8
	% Fixture	84.0	16.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	0.7
10°-20°	120.8	2.3
20°-30°	243.1	4.7
30°-40°	418.3	8.1
40°-50°	690.5	13.4
50°-60°	972.3	18.9
60°-70°	1040.2	20.2
70°-80°	660.7	12.8
80°-90°	147.2	2.9
90°-100°	38.3	0.7
100°-110°	59.4	1.2
110°-120°	119.3	2.3
120°-130°	148.7	2.9
130°-140°	153.2	3.0
140°-150°	136.0	2.6
150°-160°	103.7	2.0
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4328.8	84.0
0°-180°	5152.8	100.0

Coefficient of Utilization



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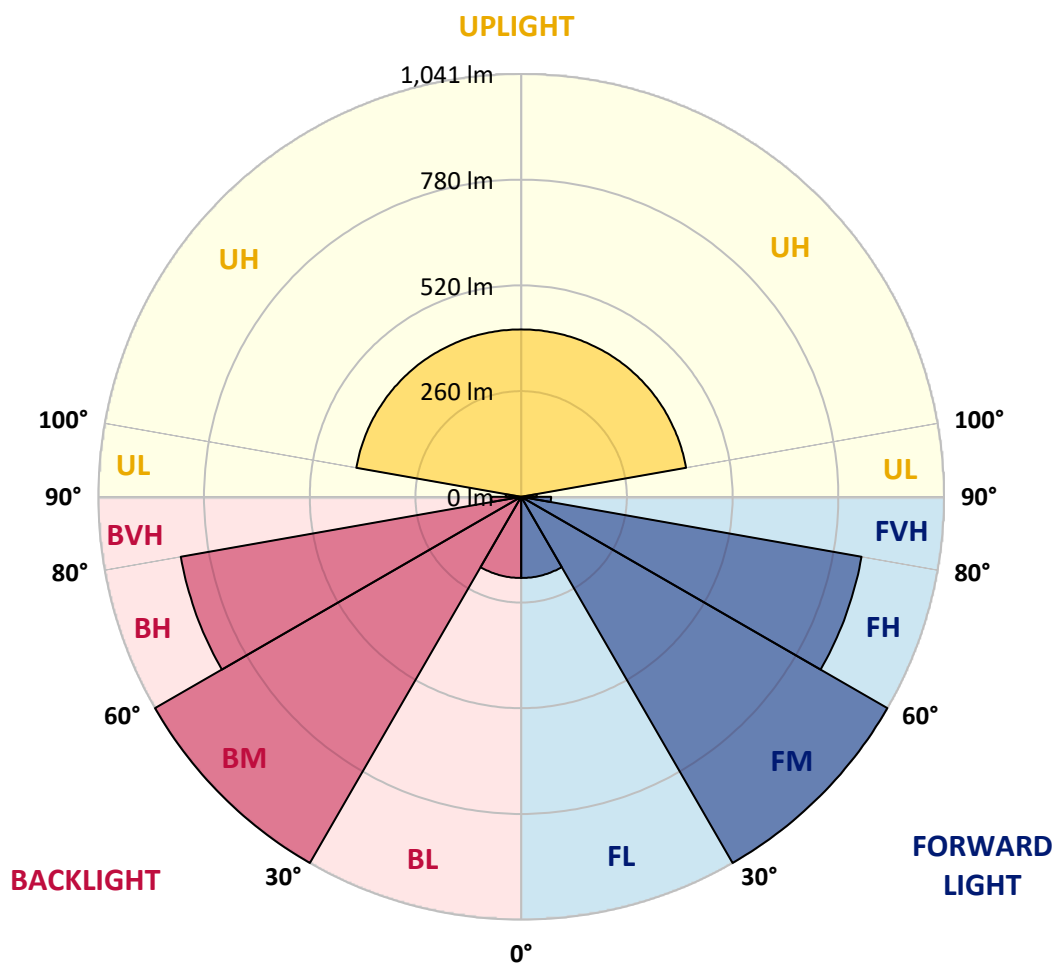
CATALOG NUMBER: TT-C3-LED-E1-WQ-CG-LWR-LW-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	199.8	3.9			
FM	(30°-60°)	1040.6	20.2			
FH	(60°-80°)	850.5	16.5			G1/1800
FVH	(80°-90°)	73.6	1.4			G1/100
BL	(0°-30°)	199.8	3.9	B1/500		
BM	(30°-60°)	1040.6	20.2	B2/2500		
BH	(60°-80°)	850.5	16.5	B2/1000		G1/1800
BVH	(80°-90°)	73.6	1.4			G1/100
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	8.0		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	359.9	359.9	359.9	359.9	359.9	359.9	359.9	359.9	359.9	359.9	359.9
2.5°	367.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6
5°	369.5	369.5	370.4	370.4	371.4	371.4	371.4	372.3	372.3	372.3	373.3
7.5°	373.3	372.3	373.3	373.3	373.3	374.3	374.3	374.3	375.2	376.2	376.2
10°	385.7	384.8	385.7	385.7	385.7	383.8	383.8	384.8	383.8	383.8	383.8
12.5°	400.1	400.1	401.1	402.0	402.0	401.1	400.1	399.1	398.2	398.2	398.2
15°	413.5	414.5	415.4	417.3	418.3	418.3	419.3	420.2	419.3	419.3	418.3
17.5°	434.6	436.5	437.4	438.4	438.4	438.4	440.3	443.2	446.1	448.0	446.1
20°	470.0	470.9	472.9	472.9	471.9	472.9	474.8	475.7	477.6	479.6	480.5
22.5°	493.9	495.8	498.7	498.7	497.7	498.7	500.6	500.6	498.7	499.7	501.6
25°	514.0	515.0	516.9	517.8	518.8	523.6	527.4	526.5	522.6	523.6	522.6
27.5°	537.9	539.9	541.8	541.8	541.8	544.6	548.5	550.4	553.3	552.3	549.4
30°	569.5	572.4	573.4	572.4	574.3	577.2	576.2	578.1	582.9	587.7	582.0
32.5°	594.4	597.3	600.2	604.0	610.7	614.5	612.6	613.6	616.4	620.3	620.3
35°	631.7	636.5	638.4	639.4	646.1	653.8	659.5	664.3	663.3	660.5	665.2
37.5°	688.2	693.0	694.9	698.8	707.4	709.3	717.9	729.4	733.2	729.4	729.4
40°	748.5	753.3	762.9	771.5	784.9	787.8	798.3	803.1	812.7	813.6	807.9
42.5°	798.3	804.0	806.0	820.3	838.5	851.9	863.4	864.3	871.0	876.8	870.1
45°	851.9	856.7	859.6	873.0	882.5	898.8	917.0	924.6	927.5	926.6	930.4
47.5°	901.7	908.4	911.2	921.8	933.3	946.7	957.2	979.2	984.0	974.4	983.0
50°	932.3	940.0	946.7	969.6	989.7	1000.3	1008.9	1027.1	1037.6	1029.0	1031.9
52.5°	980.2	982.1	987.8	997.4	1027.1	1062.5	1072.1	1077.8	1093.1	1097.9	1084.5
55°	1045.3	1052.0	1056.7	1069.2	1081.6	1106.5	1148.6	1156.3	1152.5	1175.4	1151.5
57.5°	1054.8	1067.3	1081.6	1109.4	1134.3	1141.9	1166.8	1196.5	1193.6	1196.5	1198.4
59°	1049.1	1059.6	1072.1	1100.8	1143.8	1154.4	1166.8	1193.6	1206.1	1189.8	1208.9
60°	1051.0	1058.7	1065.4	1088.3	1134.3	1158.2	1165.9	1182.1	1206.1	1184.0	1207.0
62.5°	1043.3	1052.9	1060.6	1074.0	1096.0	1129.5	1159.2	1151.5	1186.0	1168.7	1181.2
65°	1002.2	1012.7	1028.0	1047.2	1073.0	1082.6	1112.3	1128.5	1120.9	1140.0	1119.9
67.5°	933.3	942.8	952.4	975.4	1004.1	1016.5	1024.2	1053.9	1043.3	1065.4	1042.4
70°	841.4	851.9	865.3	877.7	903.6	914.1	922.7	936.1	940.0	940.0	938.0
72.5°	731.3	739.9	748.5	761.0	776.3	785.9	789.7	792.6	807.9	802.1	803.1
75°	606.9	615.5	619.3	624.1	634.6	633.7	637.5	635.6	645.1	641.3	639.4
77.5°	474.8	477.6	488.2	488.2	485.3	490.1	485.3	482.4	480.5	482.4	482.4
80°	329.3	337.9	344.6	349.4	351.3	349.4	350.3	346.5	346.5	343.6	344.6
82.5°	202.9	211.5	214.4	219.2	220.2	220.2	220.2	217.3	218.2	215.4	217.3
85°	99.5	99.5	103.4	108.2	109.1	111.0	111.0	111.0	111.0	111.0	112.0
87.5°	24.9	24.9	26.8	29.7	29.7	30.6	31.6	32.5	32.5	33.5	33.5
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°	359.9	359.9	359.9	359.9	359.9	359.9	359.9	359.9
2.5°	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6
5°	373.3	372.3	372.3	371.4	371.4	370.4	370.4	370.4
7.5°	377.1	377.1	376.2	375.2	374.3	374.3	375.2	375.2
10°	384.8	386.7	387.7	387.7	386.7	386.7	385.7	385.7
12.5°	397.2	399.1	401.1	403.0	403.0	402.0	400.1	399.1
15°	416.4	416.4	417.3	418.3	418.3	416.4	412.5	412.5
17.5°	442.2	440.3	437.4	438.4	439.4	438.4	434.6	436.5
20°	477.6	473.8	471.9	470.0	473.8	473.8	468.1	468.1
22.5°	503.5	500.6	495.8	494.9	497.7	499.7	494.9	492.0
25°	525.5	526.5	520.7	517.8	518.8	519.8	513.1	514.0
27.5°	549.4	550.4	547.5	542.7	540.8	543.7	538.9	537.0
30°	578.1	577.2	579.1	573.4	568.6	571.4	571.4	566.7
32.5°	615.5	612.6	613.6	606.9	601.1	600.2	596.3	590.6
35°	666.2	658.5	652.8	649.0	638.4	636.5	636.5	629.8
37.5°	732.3	720.8	710.2	710.2	694.0	689.2	692.0	683.4
40°	806.0	802.1	785.9	783.0	765.8	754.3	754.3	743.7
42.5°	859.6	864.3	845.2	833.7	822.2	804.0	806.0	792.6
45°	917.9	915.1	898.8	878.7	874.9	855.7	857.6	844.2
47.5°	973.5	956.2	948.6	928.5	919.9	897.8	904.5	894.0
50°	1027.1	1007.9	1000.3	976.3	964.8	940.9	941.9	922.7
52.5°	1082.6	1065.4	1053.9	1023.2	1003.1	985.9	982.1	973.5
55°	1154.4	1136.2	1108.4	1079.7	1064.4	1039.5	1042.4	1029.0
57.5°	1182.1	1170.6	1141.0	1123.7	1095.0	1070.1	1064.4	1040.5
59°	1181.2	1174.5	1144.8	1133.3	1092.2	1071.1	1060.6	1041.4
60°	1174.5	1172.6	1142.9	1128.5	1085.5	1066.3	1056.7	1044.3
62.5°	1154.4	1153.4	1119.9	1102.7	1067.3	1052.0	1046.2	1029.9
65°	1124.7	1108.4	1082.6	1071.1	1034.7	1023.2	1007.0	990.7
67.5°	1053.9	1017.5	1013.7	999.3	967.7	953.4	942.8	927.5
70°	937.1	913.2	913.2	895.0	873.0	866.3	851.9	834.7
72.5°	791.6	785.9	788.7	767.7	757.1	753.3	740.9	725.6
75°	632.7	633.7	630.8	626.0	623.1	624.1	610.7	604.0
77.5°	479.6	488.2	486.3	479.6	486.3	485.3	473.8	470.9
80°	341.7	345.5	347.5	343.6	347.5	344.6	335.0	334.1
82.5°	215.4	216.3	218.2	214.4	215.4	214.4	207.7	207.7
85°	110.1	113.9	109.1	105.3	105.3	101.5	99.5	100.5
87.5°	32.5	34.5	30.6	30.6	28.7	26.8	25.8	25.8
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)