

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: P198467

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198467
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-C4-LED-E1-WQ-CG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE 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: 5659.3 lumens
Efficiency: N/A
Efficacy: 75.1 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): 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

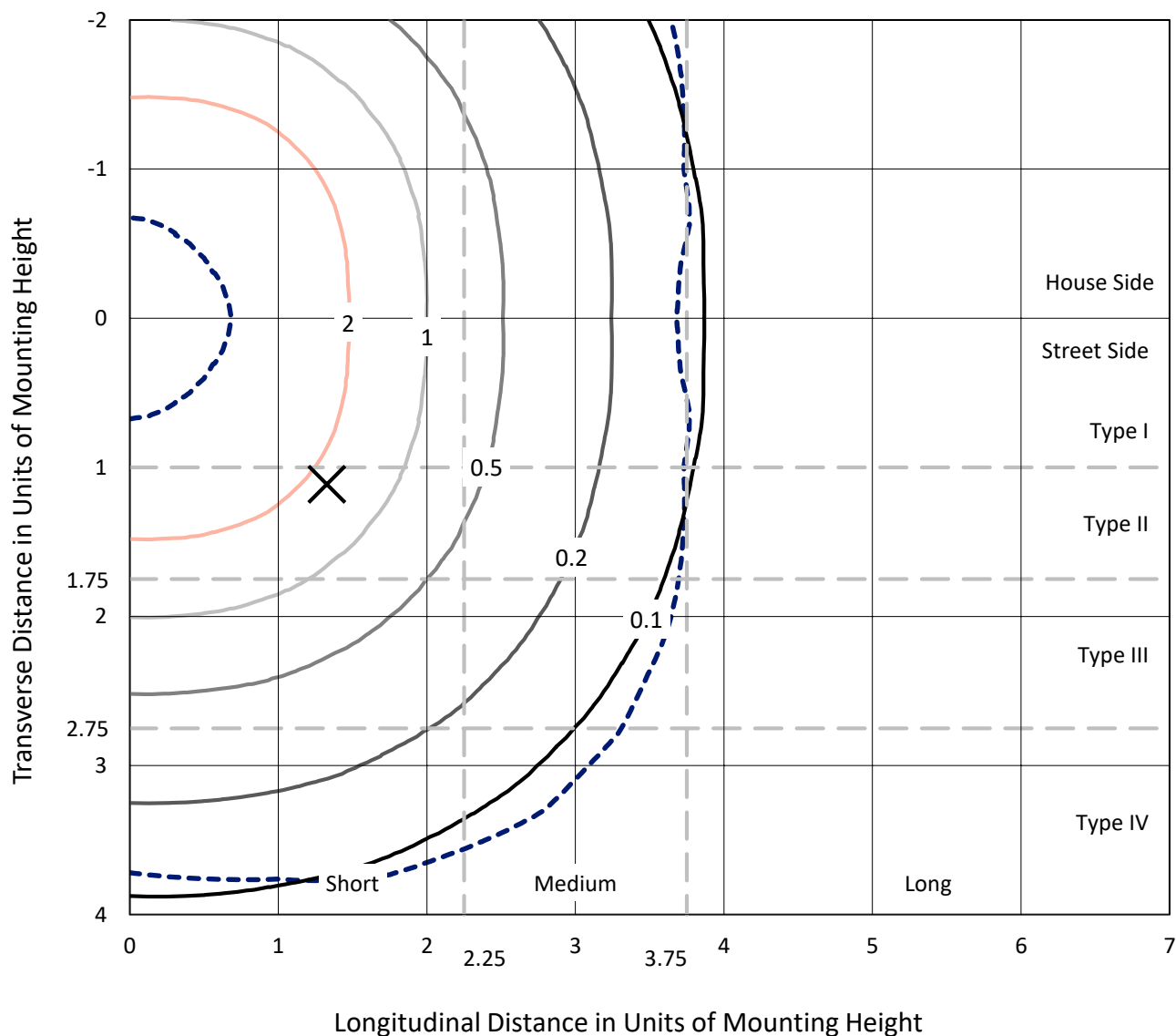


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

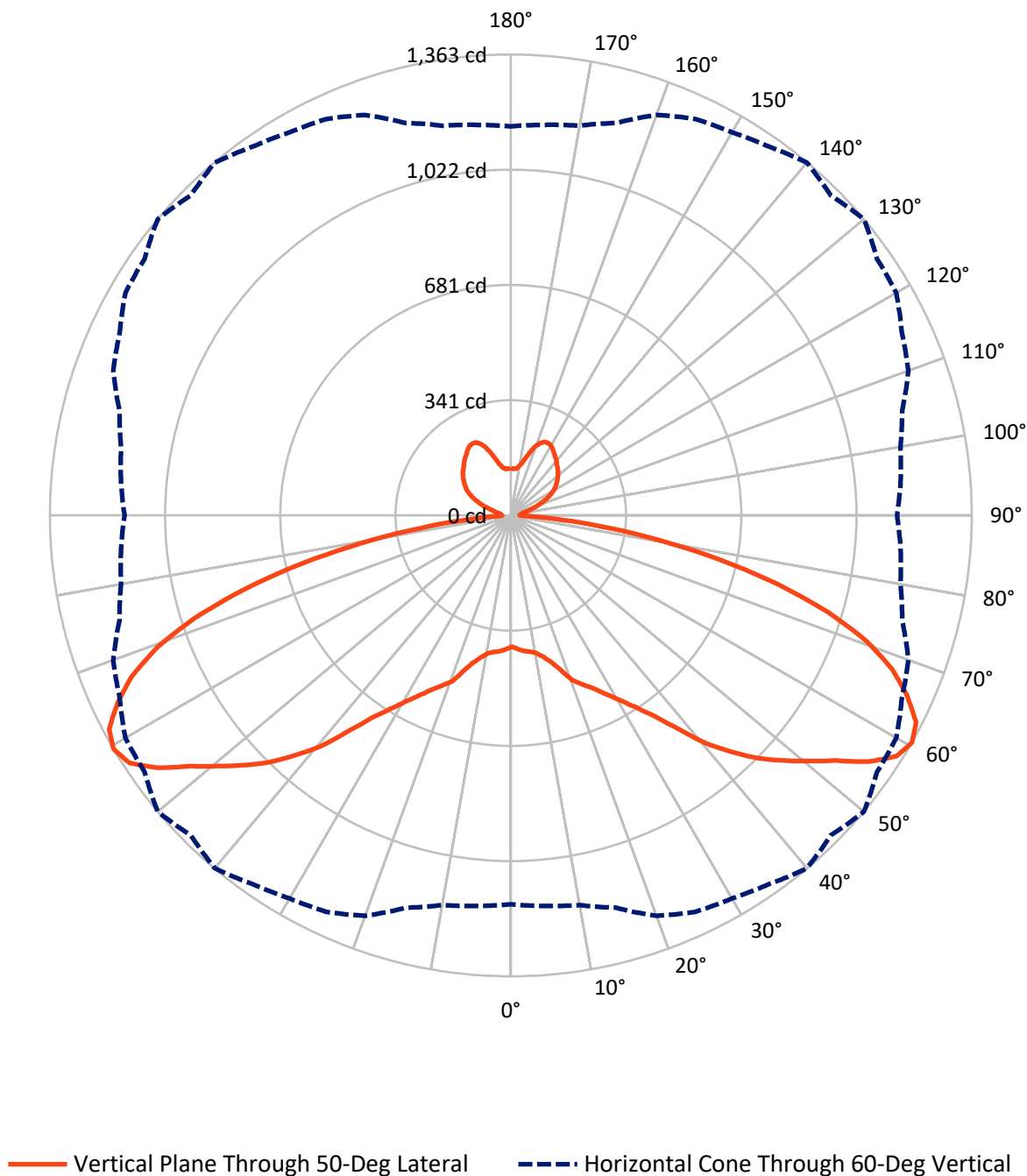


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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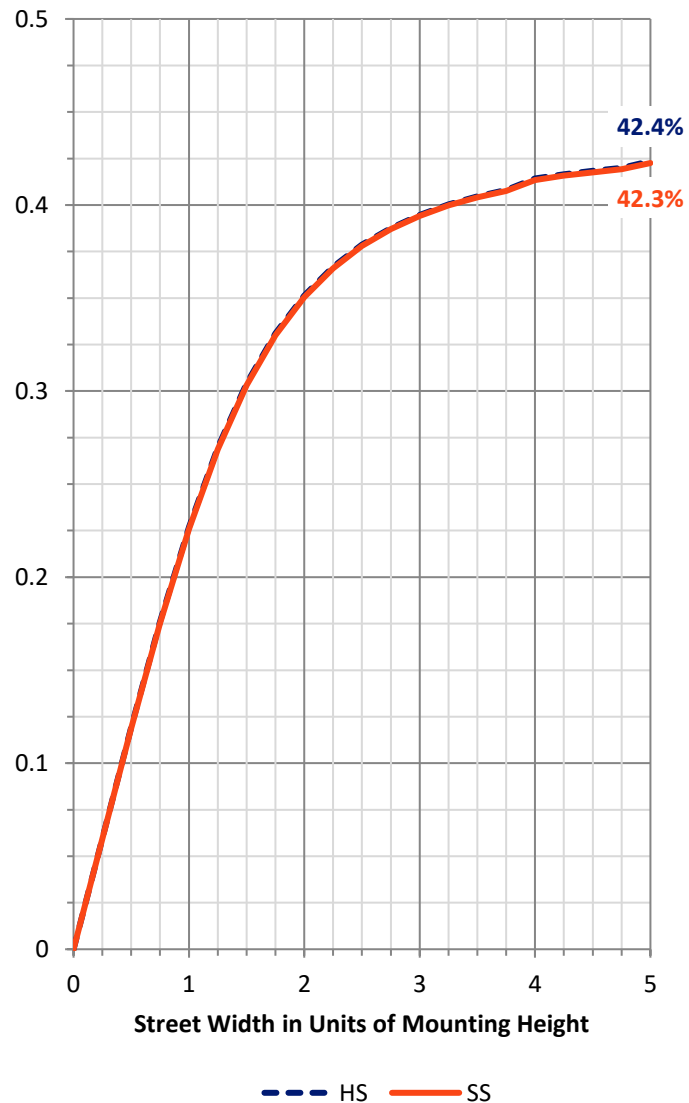
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2417.6	412.0	2829.6
	% Fixture	42.7	7.3	50.0
Street Side	Lumens	2417.6	412.0	2829.6
	% Fixture	42.7	7.3	50.0
Total	Lumens	4835.3	824.0	5659.3
	% Fixture	85.4	14.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	0.7
10°-20°	130.3	2.3
20°-30°	263.1	4.6
30°-40°	454.8	8.0
40°-50°	755.4	13.3
50°-60°	1073.5	19.0
60°-70°	1172.6	20.7
70°-80°	779.0	13.8
80°-90°	167.9	3.0
90°-100°	38.3	0.7
100°-110°	59.4	1.0
110°-120°	119.3	2.1
120°-130°	148.7	2.6
130°-140°	153.2	2.7
140°-150°	136.0	2.4
150°-160°	103.7	1.8
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	4835.3	85.4
0°-180°	5659.3	100.0

Coefficient of Utilization



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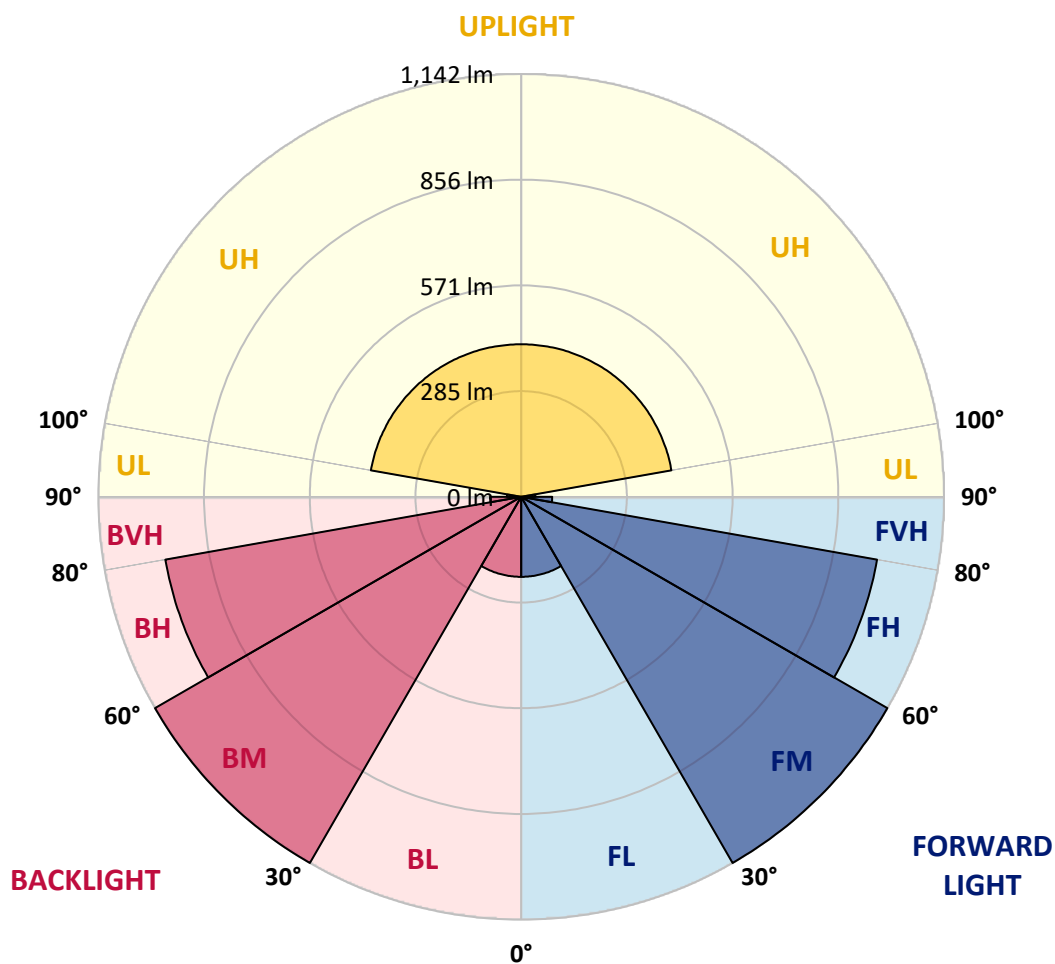
CATALOG NUMBER: TT-C4-LED-E1-WQ-CG-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.0	3.8			
FM	(30°-60°)	1141.9	20.2			
FH	(60°-80°)	975.8	17.2			G1/1800
FVH	(80°-90°)	84.0	1.5			G1/100
BL	(0°-30°)	216.0	3.8	B1/500		
BM	(30°-60°)	1141.9	20.2	B2/2500		
BH	(60°-80°)	975.8	17.2	B2/1000		G1/1800
BVH	(80°-90°)	84.0	1.5			G1/100
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	7.3		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6
2.5°	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	394.6	395.6	395.6
5°	399.6	399.6	399.6	400.6	400.6	400.6	401.6	401.6	401.6	402.6	402.6
7.5°	402.6	402.6	402.6	402.6	403.6	403.6	403.6	404.6	404.6	405.6	406.6
10°	415.6	415.6	415.6	415.6	415.6	414.6	414.6	414.6	413.6	413.6	413.6
12.5°	431.6	432.6	433.6	433.6	433.6	433.6	431.6	429.6	429.6	429.6	429.6
15°	446.5	447.5	448.5	450.5	451.5	452.5	452.5	452.5	452.5	452.5	450.5
17.5°	470.5	471.5	471.5	472.5	473.5	473.5	474.5	477.5	481.5	483.5	481.5
20°	507.5	509.5	510.5	510.5	511.5	510.5	512.5	514.5	517.5	519.5	520.5
22.5°	534.5	536.5	539.5	539.5	539.5	538.5	540.5	541.5	540.5	540.5	542.5
25°	555.4	557.4	559.4	560.4	562.4	566.4	570.4	570.4	567.4	566.4	566.4
27.5°	582.4	585.4	585.4	586.4	588.4	591.4	595.4	598.4	600.4	598.4	597.4
30°	617.4	619.4	620.4	619.4	623.4	624.4	625.4	627.4	633.4	637.4	632.4
32.5°	644.3	647.3	650.3	654.3	663.3	667.3	666.3	668.3	670.3	674.3	675.3
35°	685.3	690.3	691.3	694.3	705.3	711.3	720.3	725.3	724.3	719.3	726.3
37.5°	747.2	753.2	754.2	759.2	770.2	775.2	785.2	798.2	801.2	794.2	798.2
40°	812.2	820.2	827.2	838.2	856.1	862.1	874.1	881.1	891.1	892.1	885.1
42.5°	867.1	876.1	876.1	895.1	915.1	932.1	947.0	948.0	955.0	965.0	955.0
45°	926.1	933.1	936.1	952.0	964.0	986.0	1008.0	1016.0	1019.0	1021.0	1024.0
47.5°	980.0	989.0	992.0	1006.0	1019.0	1038.9	1052.9	1076.9	1082.9	1074.9	1082.9
50°	1014.0	1024.0	1032.0	1060.9	1083.9	1100.9	1112.9	1133.9	1145.8	1139.8	1140.8
52.5°	1066.9	1069.9	1077.9	1093.9	1126.9	1172.8	1186.8	1193.8	1210.8	1219.8	1203.8
55°	1138.8	1148.8	1154.8	1173.8	1190.8	1223.8	1276.7	1287.7	1283.7	1311.7	1284.7
57.5°	1150.8	1165.8	1184.8	1220.8	1250.7	1268.7	1301.7	1339.6	1338.6	1342.6	1343.6
60°	1149.8	1158.8	1169.8	1200.8	1259.7	1292.7	1307.7	1330.7	1361.6	1337.6	1362.6
62.5°	1142.8	1155.8	1167.8	1189.8	1221.8	1268.7	1310.7	1307.7	1349.6	1330.7	1344.6
65°	1100.9	1112.9	1134.8	1163.8	1202.8	1224.8	1266.7	1293.7	1287.7	1313.7	1287.7
67.5°	1028.0	1038.9	1056.9	1090.9	1131.9	1163.8	1178.8	1223.8	1218.8	1247.7	1216.8
70°	928.1	942.0	963.0	987.0	1027.0	1060.9	1077.9	1106.9	1120.9	1118.9	1116.9
72.5°	808.2	820.2	837.2	863.1	897.1	930.1	943.0	965.0	988.0	981.0	983.0
75°	674.3	684.3	697.3	713.3	745.2	771.2	786.2	806.2	824.2	819.2	817.2
77.5°	519.5	531.5	545.4	560.4	573.4	597.4	608.4	622.4	637.4	634.4	635.4
80°	363.6	373.6	382.6	398.6	408.6	416.6	428.6	434.6	445.5	443.6	446.5
82.5°	221.8	228.8	234.8	242.8	251.7	249.7	250.7	257.7	266.7	261.7	269.7
85°	108.9	107.9	113.9	115.9	121.9	120.9	119.9	123.9	128.9	125.9	125.9
87.5°	28.0	28.0	28.0	29.0	32.0	35.0	32.0	34.0	36.0	37.0	36.0
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
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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°	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6
2.5°	394.6	395.6	394.6	395.6	395.6	395.6	395.6	394.6
5°	402.6	401.6	401.6	401.6	400.6	399.6	399.6	399.6
7.5°	406.6	406.6	405.6	404.6	403.6	403.6	405.6	404.6
10°	415.6	416.6	417.6	418.6	417.6	416.6	416.6	415.6
12.5°	429.6	430.6	432.6	434.6	434.6	433.6	431.6	430.6
15°	449.5	448.5	449.5	451.5	451.5	448.5	445.5	444.5
17.5°	477.5	474.5	472.5	472.5	474.5	471.5	468.5	469.5
20°	516.5	511.5	510.5	507.5	510.5	510.5	505.5	505.5
22.5°	544.4	540.5	536.5	533.5	537.5	539.5	534.5	530.5
25°	570.4	569.4	563.4	560.4	560.4	561.4	554.4	555.4
27.5°	596.4	596.4	592.4	587.4	585.4	588.4	582.4	580.4
30°	627.4	624.4	627.4	620.4	615.4	618.4	618.4	614.4
32.5°	667.3	663.3	666.3	658.3	651.3	650.3	645.3	639.4
35°	724.3	714.3	709.3	705.3	691.3	690.3	689.3	684.3
37.5°	796.2	783.2	772.2	773.2	753.2	748.2	748.2	741.2
40°	882.1	874.1	858.1	852.1	832.2	819.2	818.2	805.2
42.5°	942.0	945.0	924.1	910.1	894.1	874.1	875.1	861.1
45°	1008.0	1002.0	983.0	960.0	953.0	931.1	932.1	918.1
47.5°	1070.9	1048.9	1038.9	1014.0	1003.0	978.0	981.0	971.0
50°	1132.9	1108.9	1097.9	1070.9	1052.9	1027.0	1024.0	1003.0
52.5°	1198.8	1175.8	1160.8	1121.9	1097.9	1077.9	1069.9	1059.9
55°	1284.7	1261.7	1224.8	1186.8	1168.8	1137.8	1134.8	1121.9
57.5°	1322.7	1304.7	1265.7	1240.7	1204.8	1172.8	1160.8	1135.8
60°	1321.7	1315.7	1275.7	1250.7	1197.8	1169.8	1156.8	1141.8
62.5°	1310.7	1303.7	1256.7	1228.8	1180.8	1156.8	1146.8	1127.9
65°	1288.7	1264.7	1222.8	1199.8	1147.8	1126.9	1104.9	1087.9
67.5°	1226.8	1176.8	1157.8	1128.9	1077.9	1055.9	1035.0	1018.0
70°	1110.9	1073.9	1056.9	1021.0	977.0	963.0	937.1	918.1
72.5°	963.0	943.0	925.1	886.1	855.1	841.1	815.2	799.2
75°	799.2	787.2	762.2	733.3	705.3	700.3	672.3	666.3
77.5°	620.4	609.4	589.4	568.4	555.4	545.4	520.5	518.5
80°	434.6	427.6	411.6	402.6	393.6	384.6	367.6	365.6
82.5°	256.7	251.7	252.7	243.8	238.8	236.8	223.8	224.8
85°	123.9	119.9	119.9	119.9	114.9	113.9	105.9	106.9
87.5°	36.0	32.0	32.0	32.0	30.0	30.0	26.0	27.0
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
110°	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
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)