

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: P198418

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198418
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-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE 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: 5666.5 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - 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



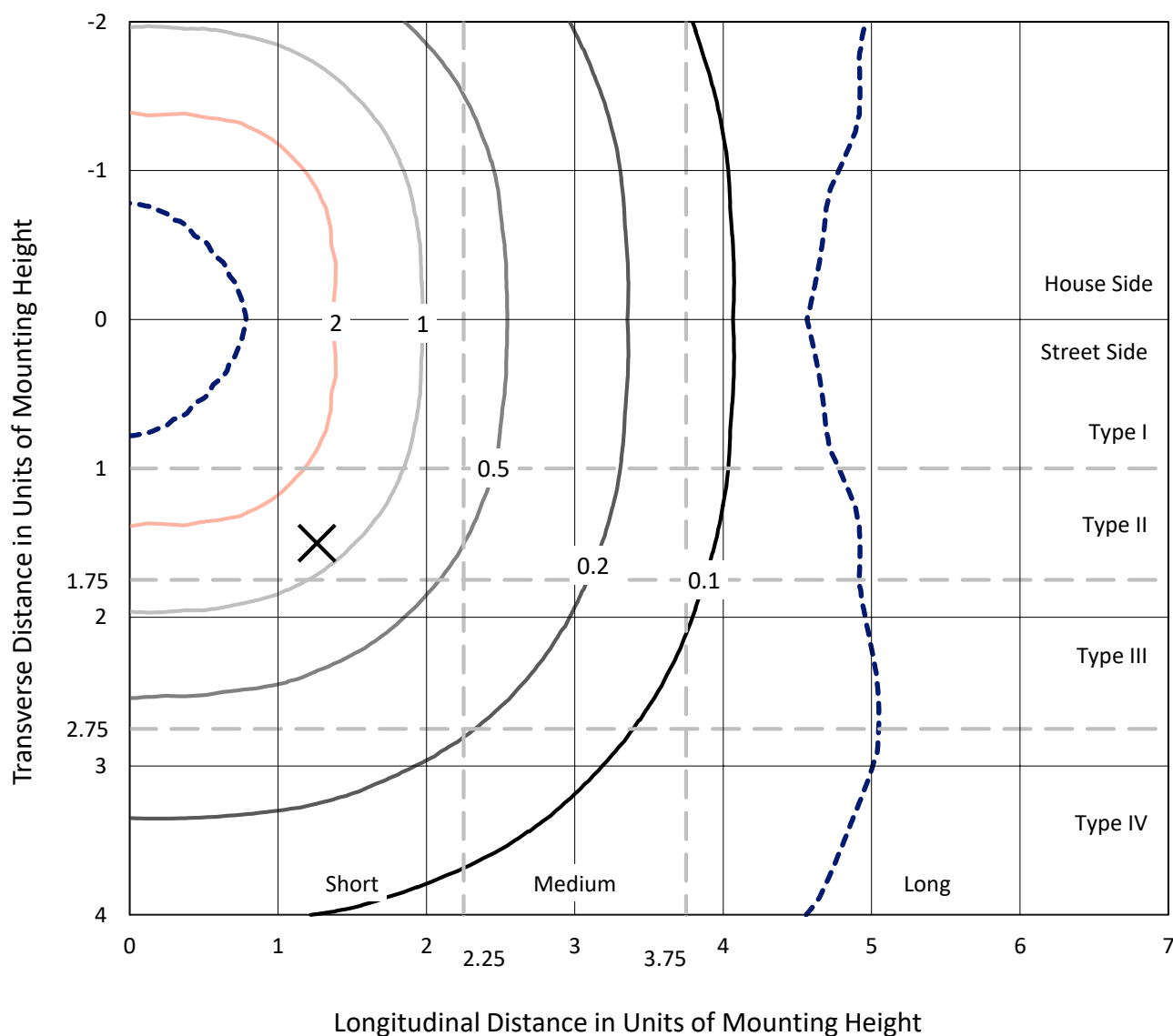
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

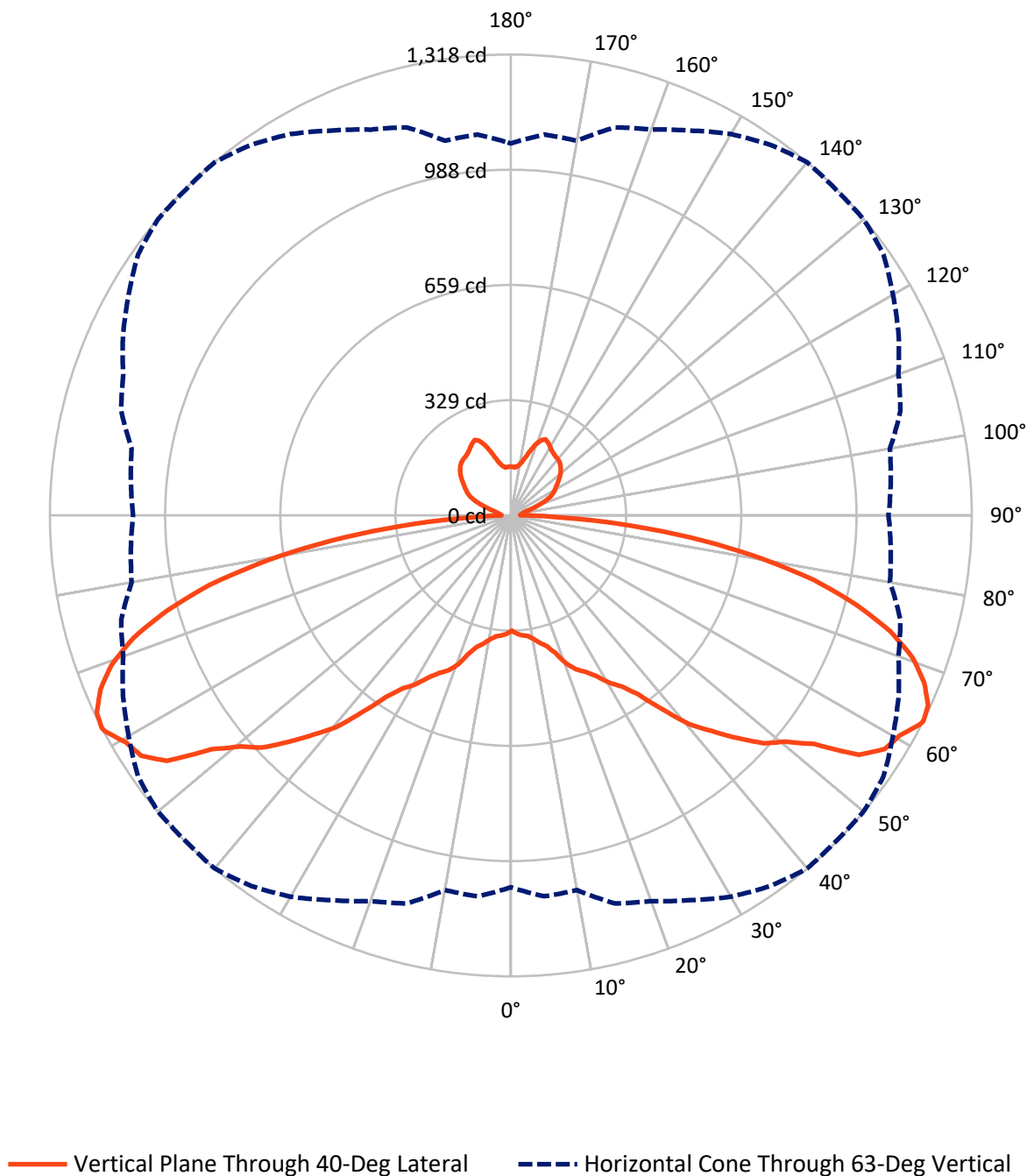


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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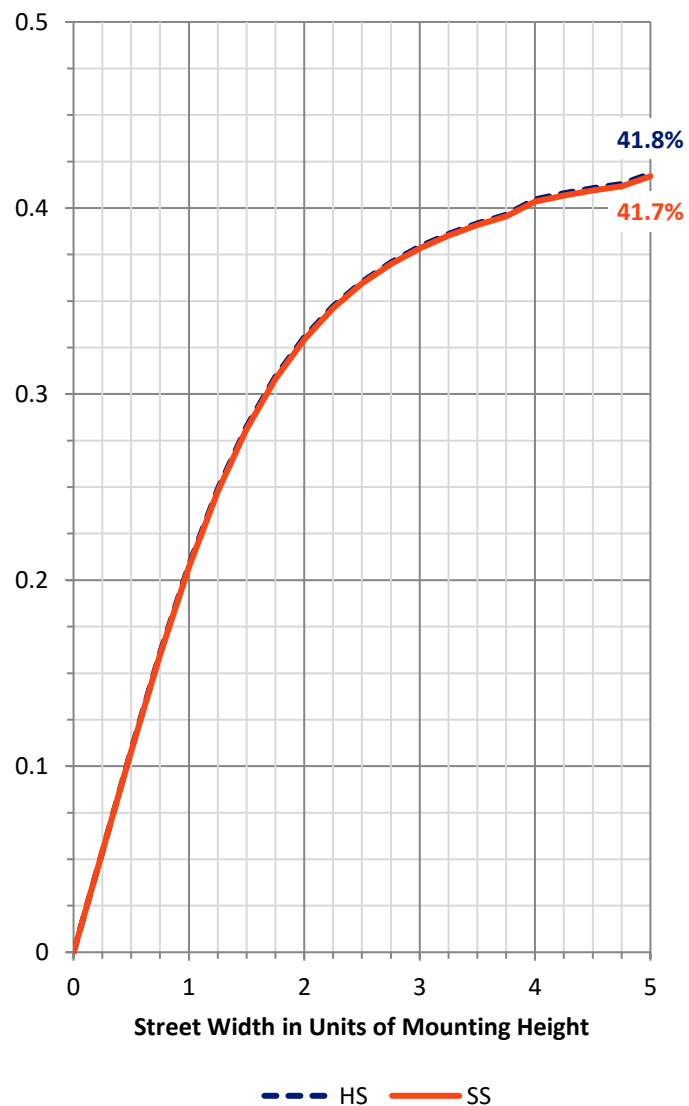
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2421.3	412.0	2833.3
	% Fixture	42.7	7.3	50.0
Street Side	Lumens	2421.3	412.0	2833.3
	% Fixture	42.7	7.3	50.0
Total	Lumens	4842.5	824.0	5666.5
	% Fixture	85.5	14.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	0.6
10°-20°	113.0	2.0
20°-30°	229.8	4.1
30°-40°	396.0	7.0
40°-50°	667.2	11.8
50°-60°	982.4	17.3
60°-70°	1168.2	20.6
70°-80°	945.7	16.7
80°-90°	306.9	5.4
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°	4842.5	85.5
0°-180°	5666.5	100.0

Coefficient of Utilization



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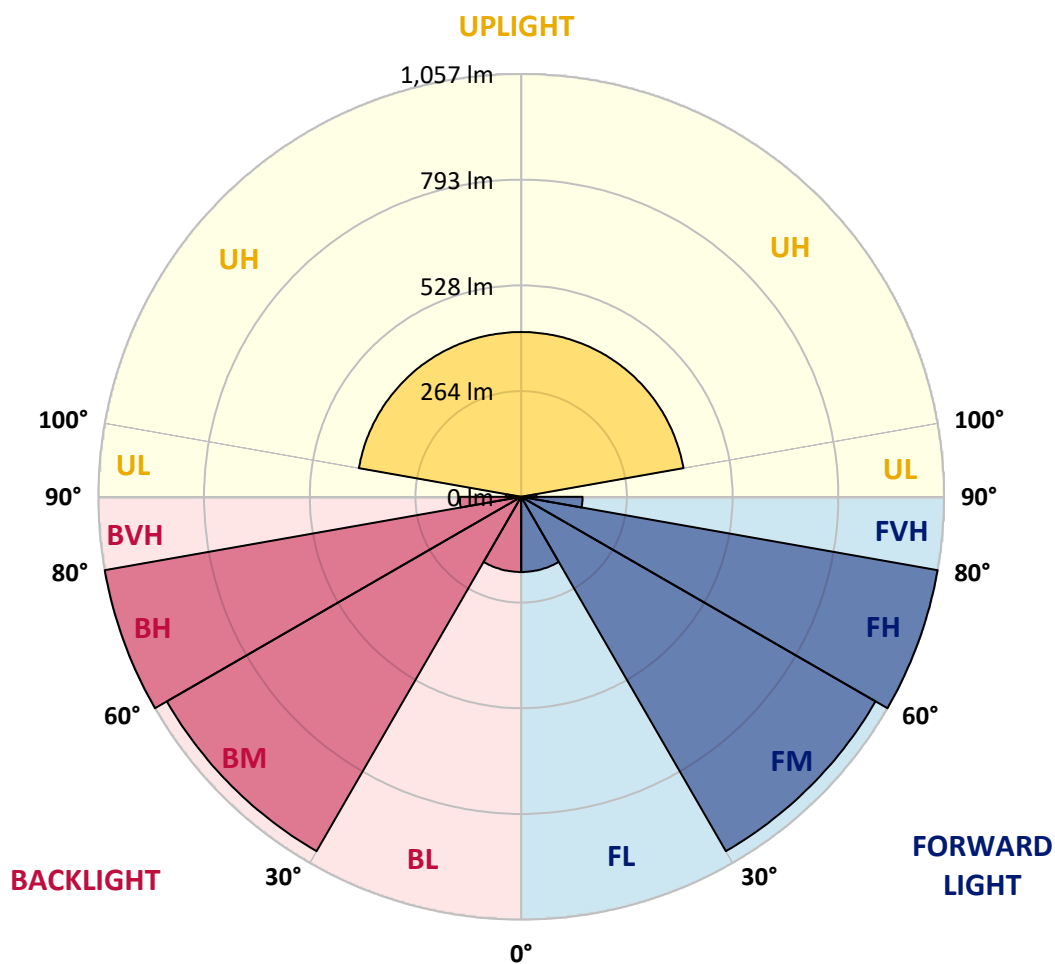
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	188.0	3.3			
FM	(30°-60°)	1022.8	18.0			
FH	(60°-80°)	1057.0	18.7			G1/1800
FVH	(80°-90°)	153.5	2.7			G2/225
BL	(0°-30°)	188.0	3.3	B1/500		
BM	(30°-60°)	1022.8	18.0	B2/2500		
BH	(60°-80°)	1057.0	18.7	B3/2500		G1/1800
BVH	(80°-90°)	153.5	2.7			G2/225
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	7.3		U3/500	

BUG Rating: B3-U4-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	329.4	329.4	329.4	329.4	329.4	329.4	329.4	329.4	329.4	329.4	329.4
2.5°	339.7	339.7	339.7	339.7	339.7	339.7	338.8	339.7	338.8	338.8	338.8
5°	346.2	346.2	346.2	346.2	345.4	345.4	344.4	344.4	344.4	343.4	344.4
7.5°	349.1	349.1	349.1	349.1	348.1	348.1	348.1	348.1	348.1	348.1	348.1
10°	355.6	355.6	356.6	357.5	359.3	359.3	359.3	360.3	359.3	359.3	359.3
12.5°	369.7	368.7	370.6	372.4	374.4	375.2	375.2	375.2	374.4	374.4	375.2
15°	389.3	387.5	388.3	389.3	390.2	391.2	391.2	390.2	388.3	388.3	388.3
17.5°	414.6	411.8	410.8	409.9	409.9	411.8	413.6	412.7	413.6	412.7	413.6
20°	444.5	442.6	442.6	442.6	443.6	447.3	451.0	452.9	452.0	450.2	452.9
22.5°	464.1	465.1	469.8	468.8	467.9	471.6	476.3	480.0	478.2	475.4	477.3
25°	485.7	485.7	492.3	495.1	492.3	492.3	494.1	496.9	495.1	493.1	495.1
27.5°	510.0	510.0	512.9	515.6	513.7	513.7	516.6	521.3	520.3	519.4	520.3
30°	539.0	535.3	532.5	537.2	541.9	542.8	545.6	553.1	555.0	554.0	555.8
32.5°	566.2	560.5	562.4	565.2	575.6	579.3	578.3	584.0	583.0	580.3	584.0
35°	592.4	598.9	602.6	608.3	612.0	616.7	616.7	627.0	628.9	626.1	628.9
37.5°	642.9	645.7	656.1	656.9	661.6	679.4	681.2	695.3	702.8	699.0	700.0
40°	712.2	711.2	718.8	730.0	739.3	761.7	768.3	777.6	784.2	781.5	785.2
42.5°	768.3	760.9	766.4	790.7	801.1	817.9	826.3	831.0	843.2	839.5	844.1
45°	808.5	811.3	818.9	843.2	849.7	863.8	883.4	891.8	907.7	903.1	905.9
47.5°	847.9	861.0	867.5	878.7	899.3	918.0	942.4	950.8	973.3	971.4	968.6
50°	899.3	909.6	917.1	925.5	953.7	984.5	1005.1	1008.8	1016.3	1010.7	1020.1
52.5°	954.5	953.7	960.2	983.5	1022.9	1035.0	1052.8	1069.7	1085.6	1091.2	1085.6
55°	1027.5	1004.1	1031.3	1065.0	1081.8	1110.8	1153.9	1177.3	1208.2	1212.9	1203.5
57.5°	1057.5	1057.5	1085.6	1105.2	1136.1	1187.6	1233.4	1244.6	1260.5	1252.1	1261.5
60°	1053.8	1089.3	1089.3	1123.9	1174.5	1220.3	1237.2	1255.8	1277.4	1276.5	1276.5
62.5°	1058.5	1093.0	1083.6	1143.6	1174.5	1211.9	1249.3	1284.0	1313.9	1313.0	1312.0
63°	1063.1	1093.0	1087.5	1148.3	1173.5	1213.7	1258.7	1293.3	1317.7	1315.8	1316.7
65°	1077.1	1068.7	1102.4	1140.8	1169.8	1229.7	1267.1	1294.2	1311.1	1310.1	1310.1
67.5°	1050.9	1031.3	1079.0	1094.0	1149.2	1202.5	1231.5	1262.4	1274.6	1274.6	1272.7
70°	970.5	978.8	1011.7	1036.0	1092.1	1139.8	1164.1	1203.5	1218.4	1218.4	1217.6
72.5°	889.0	903.1	925.5	960.2	1013.5	1050.9	1079.9	1115.5	1135.1	1134.2	1134.2
75°	785.2	798.3	824.4	857.3	904.0	940.5	963.9	997.6	1020.1	1028.5	1019.1
77.5°	668.2	672.0	696.3	730.0	771.1	796.4	832.0	864.7	883.4	882.4	879.7
80°	526.0	530.6	551.2	589.5	612.0	642.0	674.7	692.5	708.4	708.4	706.5
82.5°	363.1	373.4	394.0	419.3	442.6	468.8	486.6	504.4	517.6	516.6	513.7
85°	204.9	209.6	229.2	245.2	262.9	279.8	291.9	303.2	314.4	314.4	312.5
87.5°	61.7	55.2	66.4	73.0	82.3	90.7	96.4	107.6	115.2	106.7	106.7
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°	329.4	329.4	329.4	329.4	329.4	329.4	329.4	329.4
2.5°	339.7	339.7	339.7	339.7	339.7	339.7	339.7	339.7
5°	344.4	345.4	345.4	346.2	346.2	346.2	346.2	346.2
7.5°	348.1	348.1	348.1	348.1	349.1	349.1	349.1	349.1
10°	359.3	360.3	359.3	359.3	357.5	356.6	356.6	356.6
12.5°	375.2	376.2	376.2	374.4	372.4	370.6	369.7	368.7
15°	390.2	393.0	391.2	390.2	388.3	389.3	389.3	390.2
17.5°	413.6	414.6	411.8	409.9	408.9	410.8	412.7	413.6
20°	453.9	452.0	446.4	444.5	442.6	442.6	444.5	444.5
22.5°	479.2	474.5	470.7	468.8	468.8	468.8	466.1	462.3
25°	496.9	494.1	491.3	493.1	495.1	492.3	485.7	484.7
27.5°	521.3	515.6	514.7	513.7	514.7	512.9	511.9	508.2
30°	553.1	545.6	543.7	541.9	536.2	534.4	536.2	539.0
32.5°	583.0	578.3	580.3	576.4	566.2	562.4	564.3	563.4
35°	626.1	617.7	617.7	610.1	607.3	606.4	598.9	592.4
37.5°	694.3	683.1	680.4	663.5	656.1	657.9	647.6	640.1
40°	777.6	769.3	761.7	743.1	732.7	719.6	713.1	713.1
42.5°	832.9	827.3	817.0	803.9	792.7	770.2	761.7	766.4
45°	893.7	886.3	864.7	851.6	841.3	825.4	816.0	806.7
47.5°	955.5	945.2	920.0	903.1	878.7	874.0	863.8	850.7
50°	1009.7	1006.0	988.2	960.2	929.2	921.8	912.4	900.2
52.5°	1076.2	1053.8	1038.7	1026.6	991.9	967.6	954.5	960.2
55°	1184.7	1156.7	1118.3	1079.9	1072.4	1043.4	1010.7	1028.5
57.5°	1247.4	1231.5	1202.5	1141.7	1111.8	1092.1	1070.6	1054.6
60°	1262.4	1233.4	1226.8	1181.0	1133.3	1092.1	1100.5	1063.1
62.5°	1291.4	1252.1	1215.6	1179.2	1150.2	1094.0	1092.1	1072.4
63°	1300.8	1261.5	1223.1	1179.2	1152.9	1100.5	1090.2	1079.9
65°	1298.9	1265.2	1236.2	1179.2	1139.8	1119.2	1068.7	1092.1
67.5°	1263.4	1235.3	1201.6	1162.3	1096.8	1080.9	1045.4	1050.0
70°	1206.3	1169.8	1138.0	1101.4	1049.1	1012.5	991.1	973.3
72.5°	1117.3	1084.6	1050.9	1017.2	970.5	926.5	911.5	891.8
75°	999.5	967.6	936.8	904.9	861.0	821.7	805.8	791.7
77.5°	864.7	837.5	793.6	763.6	738.4	696.3	681.2	666.3
80°	689.7	676.6	644.8	605.5	592.4	551.2	540.0	520.3
82.5°	501.6	488.5	463.2	436.1	420.2	398.7	379.9	366.8
85°	306.0	291.9	278.8	254.5	245.2	229.2	214.3	206.8
87.5°	110.5	99.2	88.9	77.6	72.1	60.8	59.0	53.3
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)