

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: P198423

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198423
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-SG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5403.3 lumens
Efficiency: N/A
Efficacy: 86.6 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

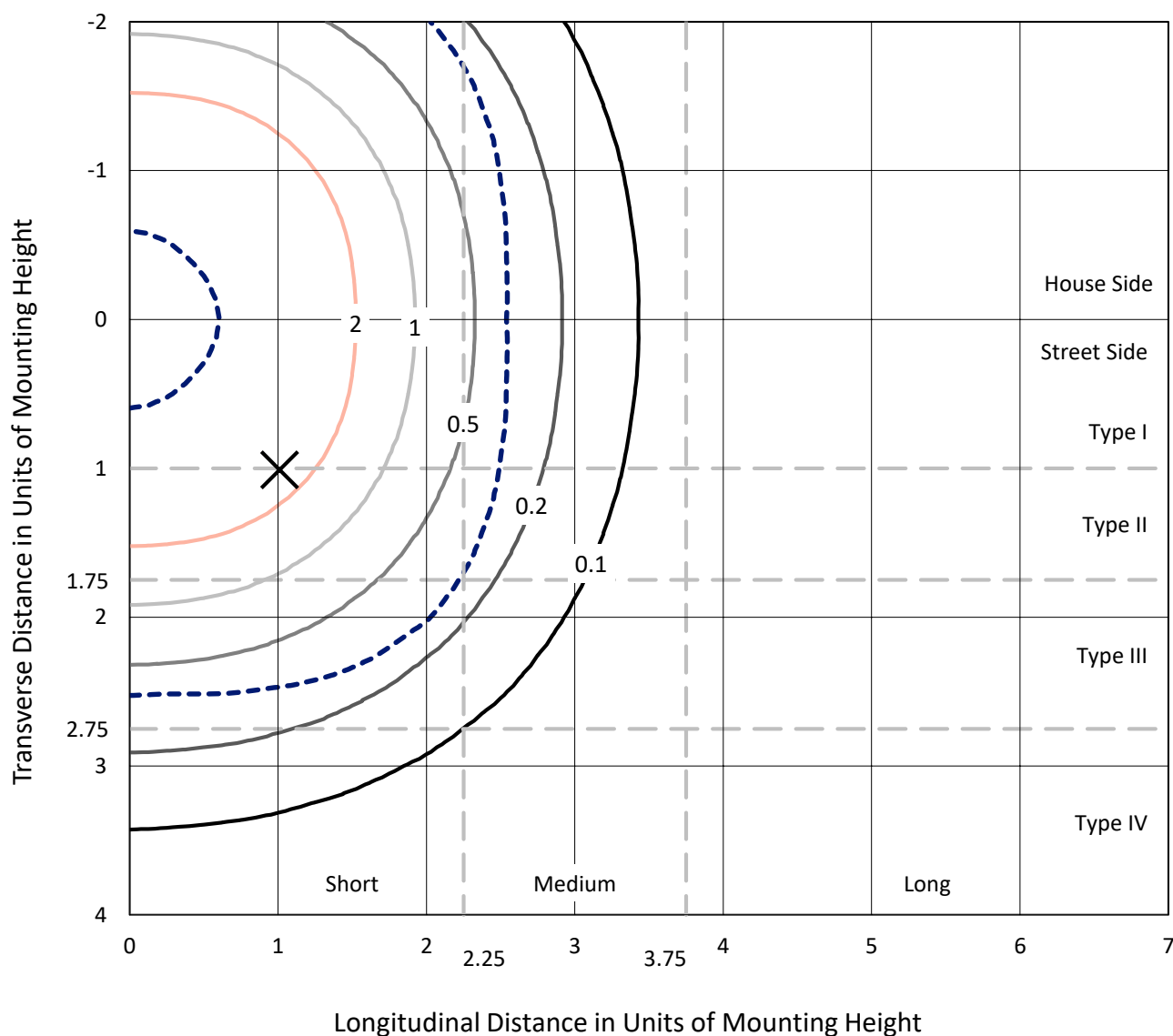


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

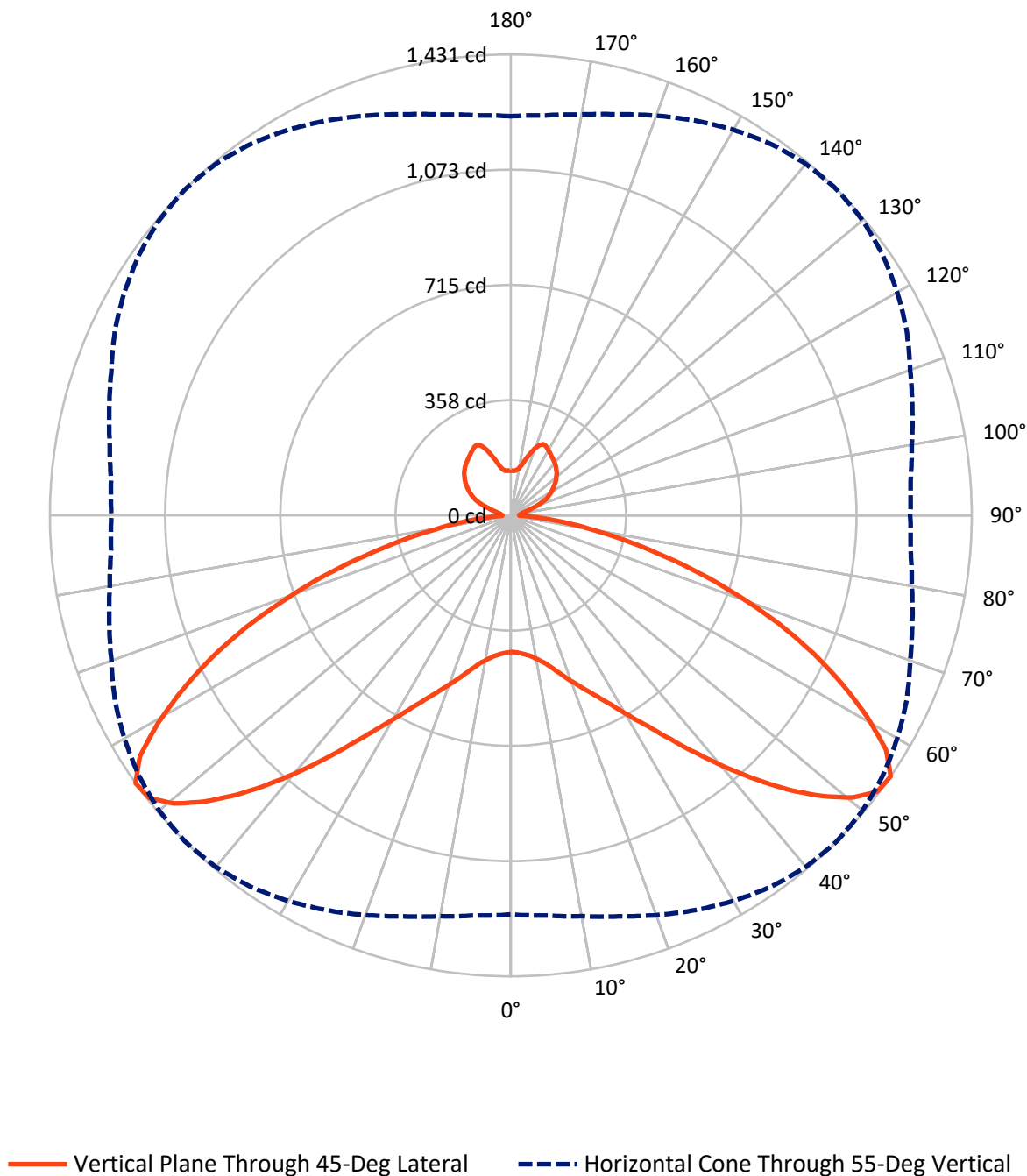


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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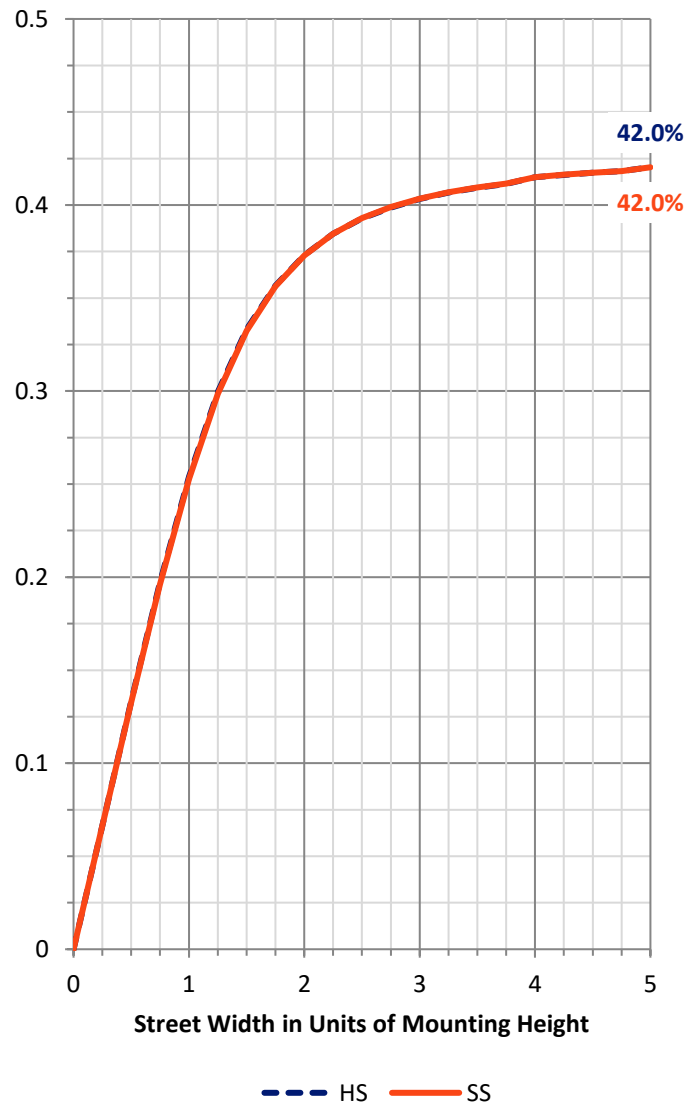
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2289.7	412.0	2701.7
	% Fixture	42.4	7.6	50.0
Street Side	Lumens	2289.7	412.0	2701.7
	% Fixture	42.4	7.6	50.0
Total	Lumens	4579.4	824.0	5403.3
	% Fixture	84.8	15.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	0.8
10°-20°	142.0	2.6
20°-30°	289.2	5.4
30°-40°	528.1	9.8
40°-50°	896.8	16.6
50°-60°	1167.9	21.6
60°-70°	944.5	17.5
70°-80°	464.1	8.6
80°-90°	104.8	1.9
90°-100°	38.3	0.7
100°-110°	59.4	1.1
110°-120°	119.3	2.2
120°-130°	148.7	2.8
130°-140°	153.2	2.8
140°-150°	136.0	2.5
150°-160°	103.7	1.9
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4579.4	84.8
0°-180°	5403.3	100.0

Coefficient of Utilization



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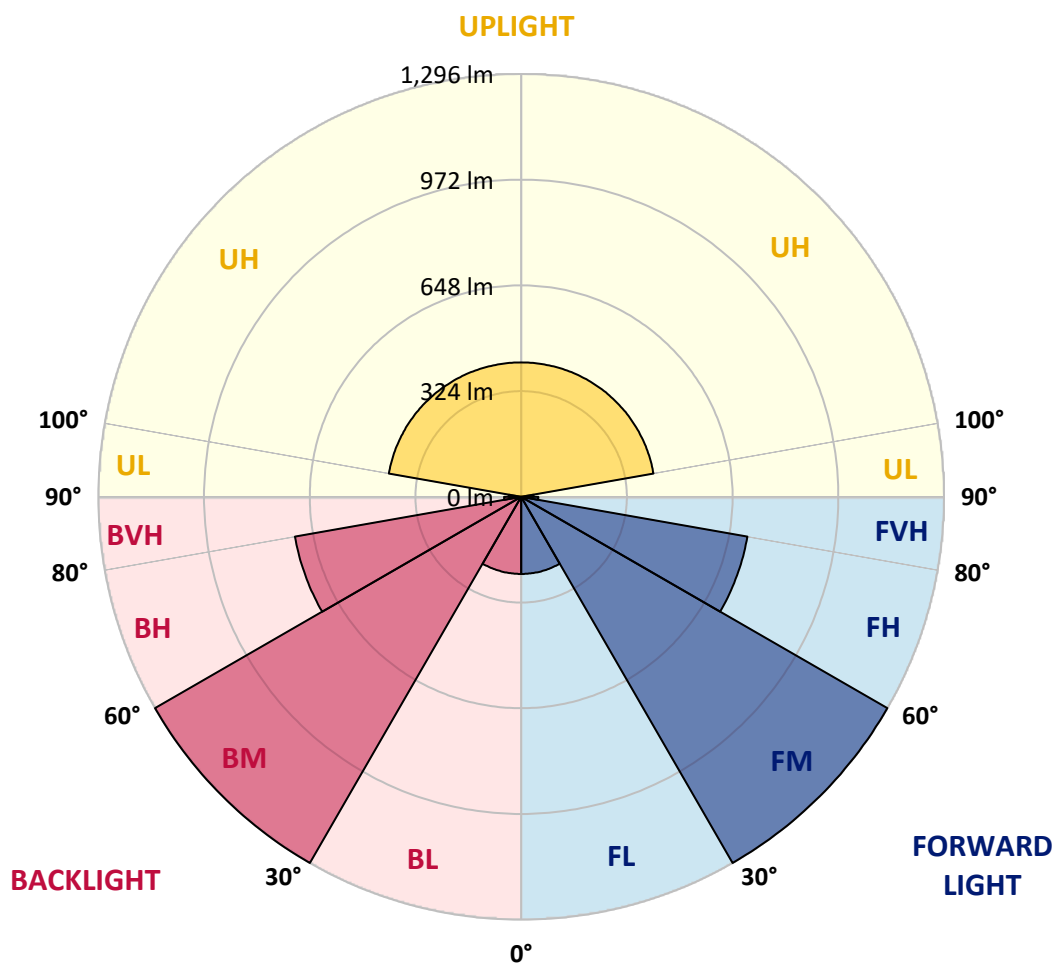
CATALOG NUMBER: TT-C3-LED-E1-WQ-SG-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	236.5	4.4			
FM	(30°-60°)	1296.4	24.0			
FH	(60°-80°)	704.3	13.0			G1/1800
FVH	(80°-90°)	52.4	1.0			G1/100
BL	(0°-30°)	236.5	4.4	B1/500		
BM	(30°-60°)	1296.4	24.0	B2/2500		
BH	(60°-80°)	704.3	13.0	B2/1000		G1/1800
BVH	(80°-90°)	52.4	1.0			G1/100
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	7.6		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°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9
2.5°	425.7	425.7	425.7	425.7	425.7	425.7	426.7	426.7	426.7	426.7	426.7
5°	431.4	431.4	431.4	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3
7.5°	439.8	438.9	439.8	439.8	439.8	440.8	440.8	439.8	440.8	440.8	440.8
10°	452.0	451.0	452.0	452.0	452.0	452.9	452.9	452.9	452.9	453.9	453.9
12.5°	469.8	468.8	469.8	470.7	469.8	470.7	470.7	470.7	470.7	470.7	470.7
15°	492.3	491.3	492.3	493.1	492.3	494.1	494.1	493.1	493.1	494.1	494.1
17.5°	519.4	517.5	518.4	519.4	519.4	521.3	521.3	520.3	521.3	522.1	521.3
20°	547.4	545.6	546.5	549.3	549.3	550.3	552.1	551.2	552.1	553.0	552.1
22.5°	578.3	577.4	578.3	581.1	581.1	582.0	584.8	584.8	584.8	585.8	584.8
25°	612.0	611.1	612.0	614.8	614.8	616.7	620.4	620.4	621.4	622.3	621.4
27.5°	651.3	650.4	652.2	655.1	656.0	658.8	663.5	664.5	665.3	666.3	664.5
30°	697.2	695.3	698.1	702.7	704.7	708.4	714.0	715.9	716.8	719.6	717.8
32.5°	749.6	747.7	751.5	757.0	759.9	765.4	773.0	774.8	777.6	779.5	776.7
35°	811.3	810.4	814.2	822.6	827.3	833.8	844.1	846.9	848.8	852.5	848.8
37.5°	879.6	878.7	885.3	894.7	903.1	913.3	924.5	929.2	932.1	936.8	932.1
40°	955.4	954.5	962.9	974.2	984.4	997.6	1011.6	1018.1	1023.8	1028.5	1022.8
42.5°	1033.2	1033.2	1043.4	1055.6	1070.6	1086.5	1102.4	1109.8	1119.2	1122.0	1115.5
45°	1108.0	1108.9	1119.2	1134.1	1155.7	1176.3	1194.1	1203.4	1213.7	1216.6	1208.1
47.5°	1179.1	1180.1	1189.4	1209.1	1233.4	1256.8	1278.3	1291.4	1301.6	1302.6	1296.1
50°	1237.1	1240.9	1253.0	1270.8	1296.1	1320.4	1346.6	1363.5	1373.7	1376.6	1370.0
52.5°	1259.6	1266.1	1280.2	1302.6	1331.6	1356.9	1385.9	1407.4	1419.6	1424.3	1418.7
55°	1238.9	1246.5	1263.4	1288.6	1320.4	1352.2	1382.1	1407.4	1424.3	1430.9	1425.2
57.5°	1193.1	1194.1	1210.9	1236.2	1265.2	1297.9	1326.9	1350.4	1366.3	1372.9	1371.9
60°	1113.6	1113.6	1129.5	1153.9	1176.3	1209.9	1234.4	1252.1	1263.4	1270.8	1268.9
62.5°	1006.9	1006.9	1020.9	1046.2	1068.7	1097.7	1121.1	1139.8	1147.3	1155.7	1157.6
65°	888.1	888.1	901.2	926.4	947.0	973.2	995.6	1013.4	1020.9	1031.2	1029.3
67.5°	761.7	760.8	773.0	794.4	814.2	838.5	860.0	876.9	885.3	897.4	889.0
70°	631.6	631.6	642.0	658.8	672.8	697.2	717.8	734.6	741.1	751.5	746.8
72.5°	508.2	507.2	515.6	528.7	539.9	561.5	573.6	592.4	597.9	612.0	604.5
75°	396.7	394.9	401.4	410.8	418.3	432.3	441.7	456.7	461.4	470.7	467.0
77.5°	298.5	297.6	300.4	307.0	312.5	323.8	327.5	335.0	338.7	348.1	340.7
80°	214.3	211.5	214.3	218.0	220.0	228.4	229.2	232.1	233.9	240.5	233.0
82.5°	144.1	140.4	142.2	145.0	145.0	149.7	150.7	149.7	153.4	155.3	151.6
85°	82.3	79.5	80.5	82.3	81.5	84.2	84.2	83.3	86.0	86.0	84.2
87.5°	27.2	25.3	26.2	27.2	27.2	28.0	29.0	28.0	30.0	30.0	28.0
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°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9
2.5°	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7
5°	432.3	432.3	432.3	432.3	432.3	431.4	431.4	431.4
7.5°	440.8	440.8	440.8	440.8	440.8	439.8	439.8	439.8
10°	453.9	452.9	452.9	452.9	452.9	452.0	452.9	452.0
12.5°	470.7	471.6	471.6	470.7	471.6	469.8	469.8	469.8
15°	494.1	493.1	493.1	493.1	493.1	492.3	492.3	492.3
17.5°	520.3	520.3	519.4	519.4	518.4	517.5	517.5	517.5
20°	551.2	550.3	549.3	548.4	547.4	545.6	544.6	544.6
22.5°	583.0	582.0	581.1	580.2	579.3	577.4	575.5	575.5
25°	618.5	616.7	615.7	613.9	612.0	610.1	609.2	608.3
27.5°	661.6	659.8	656.9	654.1	650.4	649.4	647.6	647.6
30°	713.1	710.3	706.5	701.9	698.1	694.3	692.5	691.5
32.5°	773.0	769.3	762.7	757.0	750.5	746.8	744.0	742.1
35°	843.2	837.5	830.0	821.6	813.2	806.7	802.0	802.0
37.5°	925.5	917.1	905.9	895.5	883.4	875.9	870.3	866.5
40°	1015.4	1003.2	989.1	976.0	962.0	951.7	943.3	944.2
42.5°	1104.3	1093.9	1077.1	1061.2	1043.4	1029.3	1019.1	1018.1
45°	1197.8	1184.7	1164.1	1143.5	1122.9	1106.1	1093.9	1092.0
47.5°	1284.8	1270.8	1246.5	1221.2	1198.7	1180.1	1167.0	1165.1
50°	1356.0	1339.2	1313.9	1286.7	1262.4	1241.8	1227.7	1224.0
52.5°	1401.9	1383.1	1356.0	1323.2	1297.0	1273.6	1256.8	1252.1
55°	1409.3	1385.0	1356.0	1319.4	1290.4	1264.2	1245.6	1239.9
57.5°	1357.8	1331.6	1305.5	1273.6	1244.6	1216.6	1201.5	1194.1
60°	1257.7	1237.1	1215.6	1186.6	1163.2	1137.0	1124.9	1121.1
62.5°	1142.6	1124.9	1105.1	1075.3	1055.6	1032.2	1020.9	1016.3
65°	1019.1	998.5	979.7	955.4	933.9	914.3	898.4	896.5
67.5°	882.4	861.0	845.0	823.5	802.0	783.2	773.0	767.4
70°	738.4	720.6	704.7	681.2	667.2	649.4	642.0	636.3
72.5°	595.2	584.8	565.2	550.3	534.4	520.3	515.6	510.0
75°	460.4	448.2	433.3	423.9	411.8	404.3	400.5	396.7
77.5°	337.8	327.5	319.1	315.4	309.7	302.3	299.5	296.6
80°	233.9	229.2	223.7	222.7	219.0	213.4	212.4	211.5
82.5°	151.6	148.8	146.9	146.9	145.0	141.3	140.4	140.4
85°	84.2	83.3	84.2	83.3	81.5	79.5	79.5	79.5
87.5°	28.0	28.0	29.0	30.0	27.2	27.2	26.2	26.2
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)