

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: P198420

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198420
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-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5507.9 lumens
Efficiency: N/A
Efficacy: 88.3 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

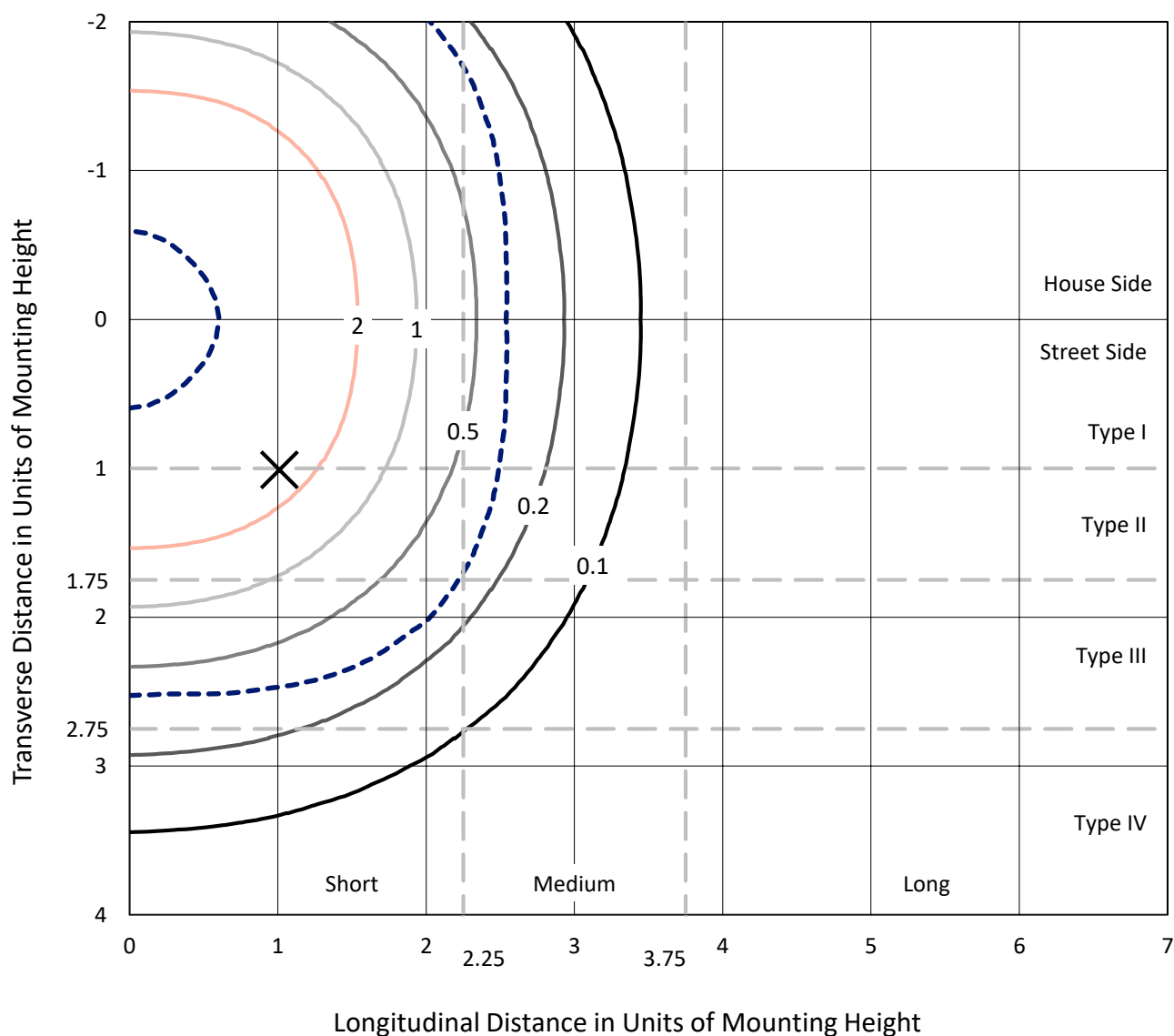


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

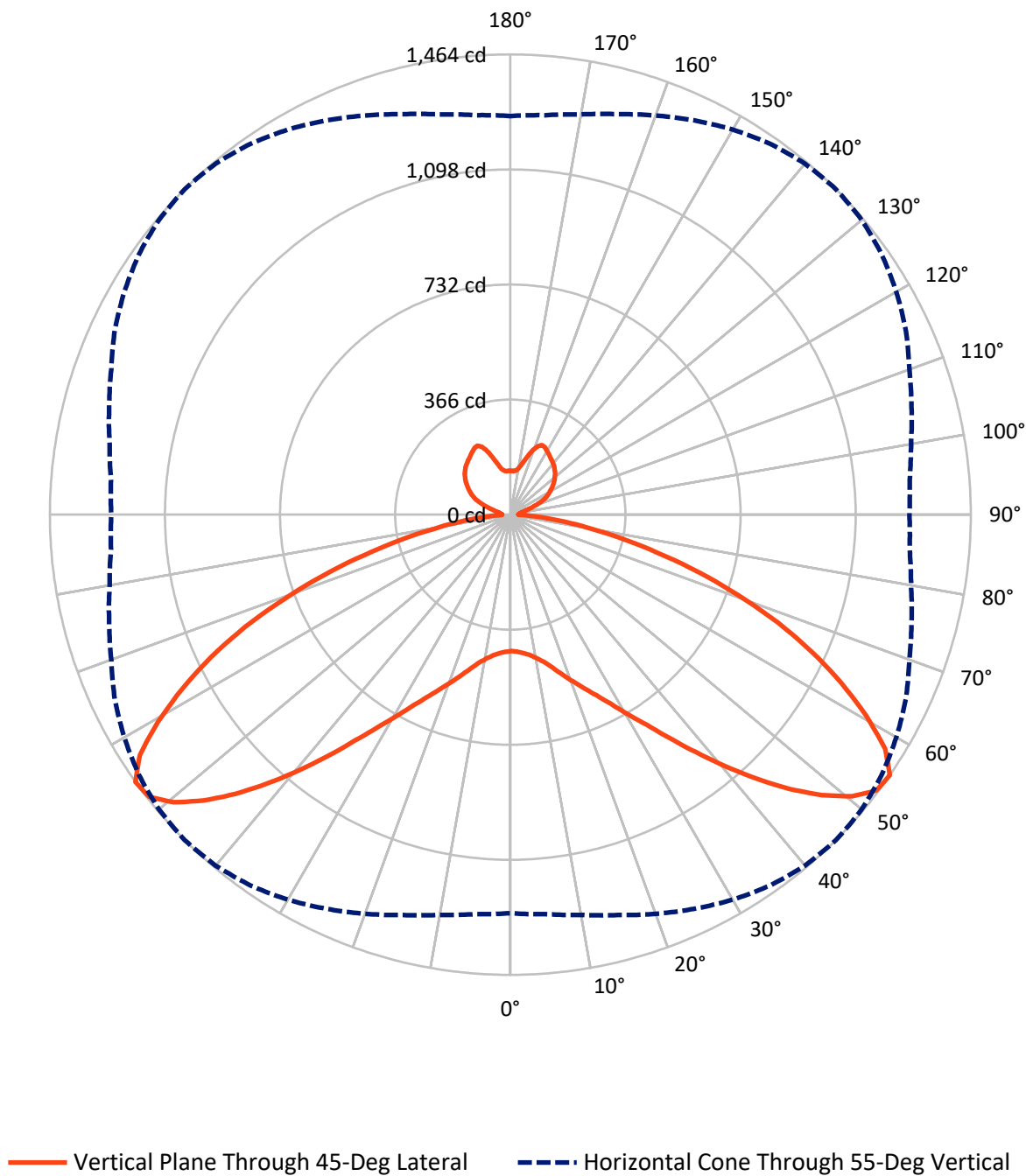


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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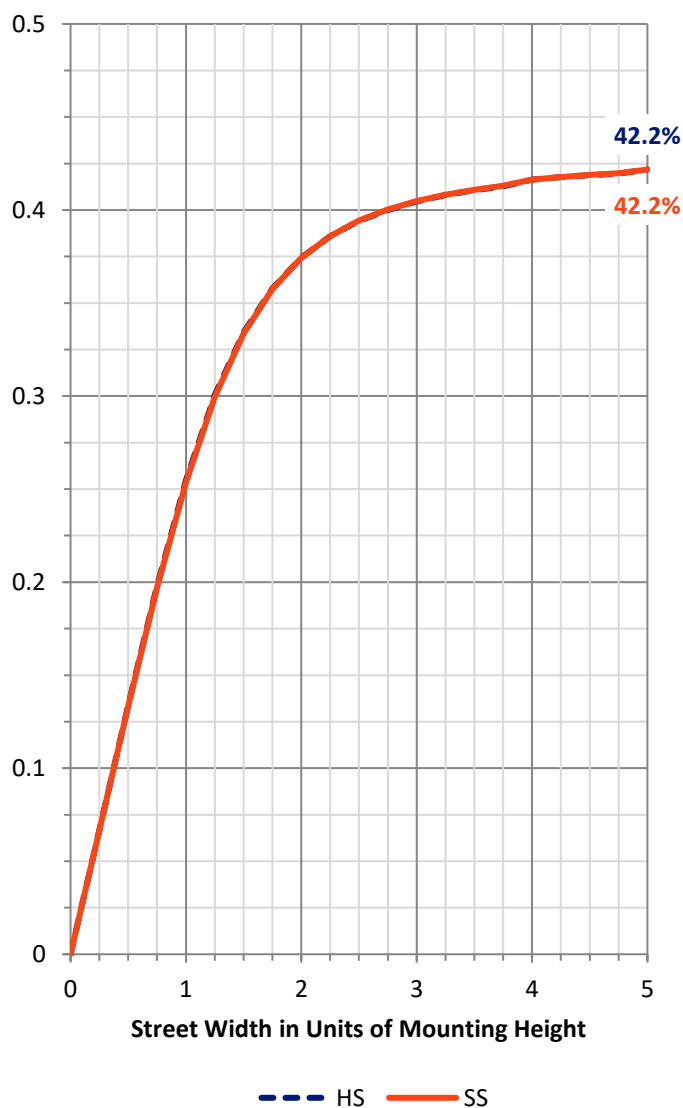
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2342.0	412.0	2754.0
	% Fixture	42.5	7.5	50.0
Street Side	Lumens	2342.0	412.0	2754.0
	% Fixture	42.5	7.5	50.0
Total	Lumens	4684.0	824.0	5507.9
	% Fixture	85.0	15.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	0.8
10°-20°	145.3	2.6
20°-30°	295.8	5.4
30°-40°	540.2	9.8
40°-50°	917.3	16.7
50°-60°	1194.6	21.7
60°-70°	966.1	17.5
70°-80°	474.7	8.6
80°-90°	107.2	1.9
90°-100°	38.3	0.7
100°-110°	59.4	1.1
110°-120°	119.3	2.2
120°-130°	148.7	2.7
130°-140°	153.2	2.8
140°-150°	136.0	2.5
150°-160°	103.7	1.9
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	4684.0	85.0
0°-180°	5507.9	100.0

Coefficient of Utilization



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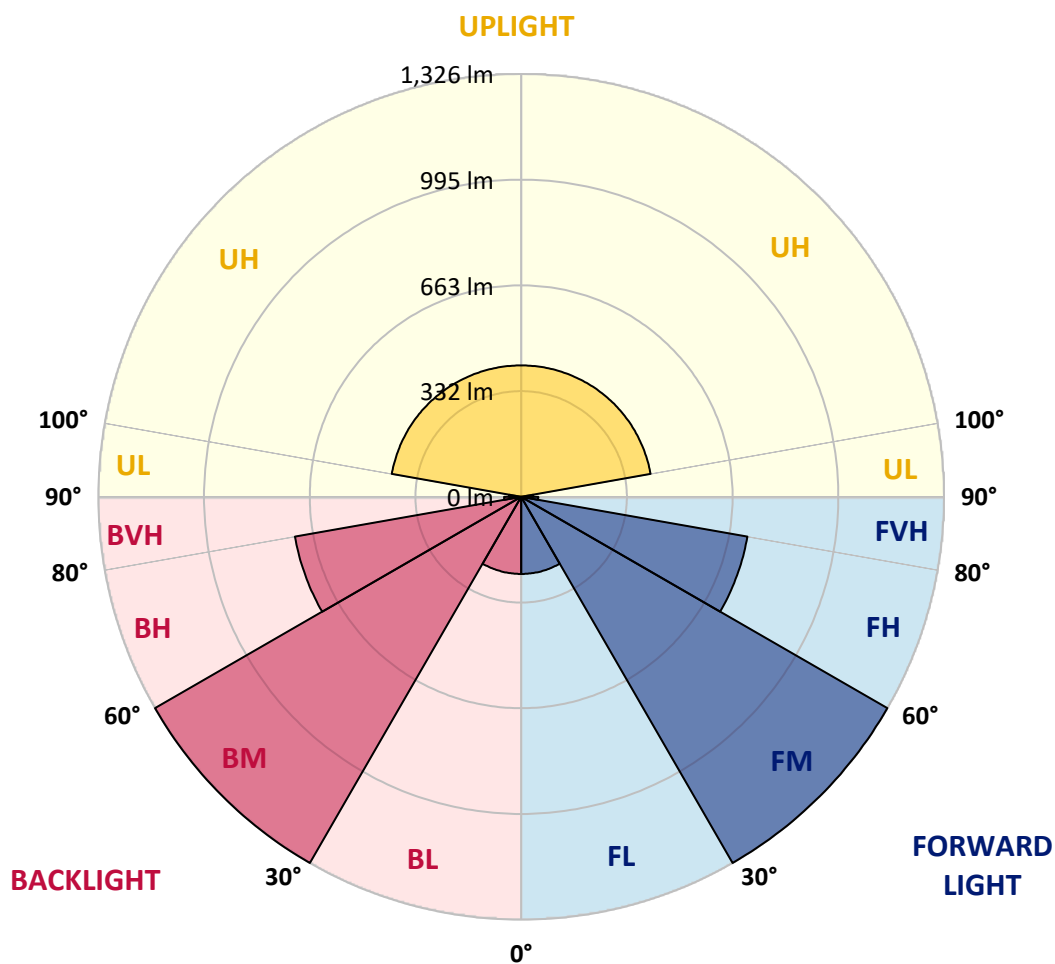
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.0	4.4			
FM	(30°-60°)	1326.0	24.1			
FH	(60°-80°)	720.4	13.1			G1/1800
FVH	(80°-90°)	53.6	1.0			G1/100
BL	(0°-30°)	242.0	4.4	B1/500		
BM	(30°-60°)	1326.0	24.1	B2/2500		
BH	(60°-80°)	720.4	13.1	B2/1000		G1/1800
BVH	(80°-90°)	53.6	1.0			G1/100
UL	(90°-100°)	38.3	0.7		U2/50	
UH	(100°-180°)	412.0	7.5		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°	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6
2.5°	435.5	435.5	435.5	435.5	435.5	435.5	436.5	436.5	436.5	436.5	436.5
5°	441.3	441.3	441.3	442.2	442.2	442.2	442.2	442.2	442.2	442.2	442.2
7.5°	449.9	448.9	449.9	449.9	449.9	450.8	450.8	449.9	450.8	450.8	450.8
10°	462.3	461.4	462.3	462.3	462.3	463.3	463.3	463.3	463.3	464.2	464.2
12.5°	480.5	479.6	480.5	481.5	480.5	481.5	481.5	481.5	481.5	481.5	481.5
15°	503.5	502.5	503.5	504.4	503.5	505.4	505.4	504.4	504.4	505.4	505.4
17.5°	531.2	529.3	530.3	531.2	531.2	533.2	533.2	532.2	533.2	534.1	533.2
20°	560.0	558.0	559.0	561.9	561.9	562.8	564.7	563.8	564.7	565.7	564.7
22.5°	591.5	590.6	591.5	594.4	594.4	595.4	598.2	598.2	598.2	599.2	598.2
25°	626.0	625.0	626.0	628.9	628.9	630.8	634.6	634.6	635.6	636.5	635.6
27.5°	666.2	665.2	667.2	670.0	671.0	673.9	678.6	679.6	680.6	681.5	679.6
30°	713.1	711.2	714.1	718.9	720.8	724.6	730.3	732.3	733.2	736.1	734.2
32.5°	766.7	764.8	768.6	774.4	777.2	783.0	790.6	792.6	795.4	797.3	794.5
35°	829.9	828.9	832.8	841.4	846.2	852.9	863.4	866.3	868.2	872.0	868.2
37.5°	899.8	898.8	905.5	915.1	923.7	934.2	945.7	950.5	953.4	958.1	953.4
40°	977.3	976.3	985.0	996.4	1007.0	1020.4	1034.7	1041.4	1047.2	1052.0	1046.2
42.5°	1056.7	1056.7	1067.3	1079.7	1095.0	1111.3	1127.6	1135.2	1144.8	1147.7	1141.0
45°	1133.3	1134.3	1144.8	1160.1	1182.1	1203.2	1221.4	1230.9	1241.5	1244.3	1235.7
47.5°	1206.1	1207.0	1216.6	1236.7	1261.6	1285.5	1307.5	1320.9	1331.5	1332.4	1325.7
50°	1265.4	1269.2	1281.7	1299.9	1325.7	1350.6	1377.4	1394.6	1405.2	1408.0	1401.3
52.5°	1288.4	1295.1	1309.4	1332.4	1362.1	1387.9	1417.6	1439.6	1452.1	1456.8	1451.1
55°	1267.3	1275.0	1292.2	1318.1	1350.6	1383.1	1413.8	1439.6	1456.8	1463.5	1457.8
57.5°	1220.4	1221.4	1238.6	1264.5	1294.1	1327.6	1357.3	1381.2	1397.5	1404.2	1403.2
60°	1139.1	1139.1	1155.3	1180.2	1203.2	1237.6	1262.5	1280.7	1292.2	1299.9	1298.0
62.5°	1029.9	1029.9	1044.3	1070.1	1093.1	1122.8	1146.7	1165.9	1173.5	1182.1	1184.0
65°	908.4	908.4	921.8	947.6	968.7	995.5	1018.5	1036.6	1044.3	1054.8	1052.9
67.5°	779.2	778.2	790.6	812.7	832.8	857.6	879.7	896.9	905.5	917.9	909.3
70°	646.1	646.1	656.6	673.9	688.2	713.1	734.2	751.4	758.1	768.6	763.8
72.5°	519.8	518.8	527.4	540.8	552.3	574.3	586.8	605.9	611.6	626.0	618.3
75°	405.8	403.9	410.6	420.2	427.9	442.2	451.8	467.1	471.9	481.5	477.6
77.5°	305.3	304.4	307.3	314.0	319.7	331.2	335.0	342.7	346.5	356.1	348.4
80°	219.2	216.3	219.2	223.0	224.9	233.6	234.5	237.4	239.3	246.0	238.3
82.5°	147.4	143.6	145.5	148.4	148.4	153.2	154.1	153.2	157.0	158.9	155.1
85°	84.2	81.4	82.3	84.2	83.3	86.1	86.1	85.2	88.1	88.1	86.1
87.5°	27.8	25.8	26.8	27.8	27.8	28.7	29.7	28.7	30.6	30.6	28.7
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
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°	433.6	433.6	433.6	433.6	433.6	433.6	433.6	433.6
2.5°	436.5	436.5	436.5	436.5	436.5	436.5	436.5	436.5
5°	442.2	442.2	442.2	442.2	442.2	441.3	441.3	441.3
7.5°	450.8	450.8	450.8	450.8	450.8	449.9	449.9	449.9
10°	464.2	463.3	463.3	463.3	463.3	462.3	463.3	462.3
12.5°	481.5	482.4	482.4	481.5	482.4	480.5	480.5	480.5
15°	505.4	504.4	504.4	504.4	504.4	503.5	503.5	503.5
17.5°	532.2	532.2	531.2	531.2	530.3	529.3	529.3	529.3
20°	563.8	562.8	561.9	560.9	560.0	558.0	557.1	557.1
22.5°	596.3	595.4	594.4	593.5	592.5	590.6	588.7	588.7
25°	632.7	630.8	629.8	627.9	626.0	624.1	623.1	622.2
27.5°	676.7	674.8	671.9	669.1	665.2	664.3	662.4	662.4
30°	729.4	726.5	722.7	717.9	714.1	710.2	708.3	707.4
32.5°	790.6	786.8	780.1	774.4	767.7	763.8	761.0	759.1
35°	862.4	856.7	849.0	840.4	831.8	825.1	820.3	820.3
37.5°	946.7	938.0	926.6	916.0	903.6	895.9	890.2	886.4
40°	1038.6	1026.1	1011.8	998.4	984.0	973.5	964.8	965.8
42.5°	1129.5	1119.0	1101.7	1085.5	1067.3	1052.9	1042.4	1041.4
45°	1225.2	1211.8	1190.7	1169.7	1148.6	1131.4	1119.0	1117.0
47.5°	1314.2	1299.9	1275.0	1249.1	1226.2	1207.0	1193.6	1191.7
50°	1387.0	1369.7	1343.9	1316.1	1291.3	1270.2	1255.8	1252.0
52.5°	1433.9	1414.7	1387.0	1353.5	1326.7	1302.7	1285.5	1280.7
55°	1441.5	1416.6	1387.0	1349.6	1320.0	1293.2	1274.0	1268.3
57.5°	1388.9	1362.1	1335.3	1302.7	1273.1	1244.3	1229.0	1221.4
60°	1286.5	1265.4	1243.4	1213.7	1189.8	1163.0	1150.5	1146.7
62.5°	1168.7	1150.5	1130.4	1099.8	1079.7	1055.8	1044.3	1039.5
65°	1042.4	1021.3	1002.2	977.3	955.3	935.2	918.9	917.0
67.5°	902.6	880.6	864.3	842.3	820.3	801.2	790.6	784.9
70°	755.2	737.0	720.8	696.8	682.5	664.3	656.6	650.9
72.5°	608.8	598.2	578.1	562.8	546.6	532.2	527.4	521.7
75°	470.9	458.5	443.2	433.6	421.2	413.5	409.7	405.8
77.5°	345.5	335.0	326.4	322.6	316.8	309.2	306.3	303.4
80°	239.3	234.5	228.8	227.8	224.0	218.2	217.3	216.3
82.5°	155.1	152.2	150.3	150.3	148.4	144.5	143.6	143.6
85°	86.1	85.2	86.1	85.2	83.3	81.4	81.4	81.4
87.5°	28.7	28.7	29.7	30.6	27.8	27.8	26.8	26.8
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
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)