

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: P198424

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198424
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-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6173.7 lumens
Efficiency: N/A
Efficacy: 98.9 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

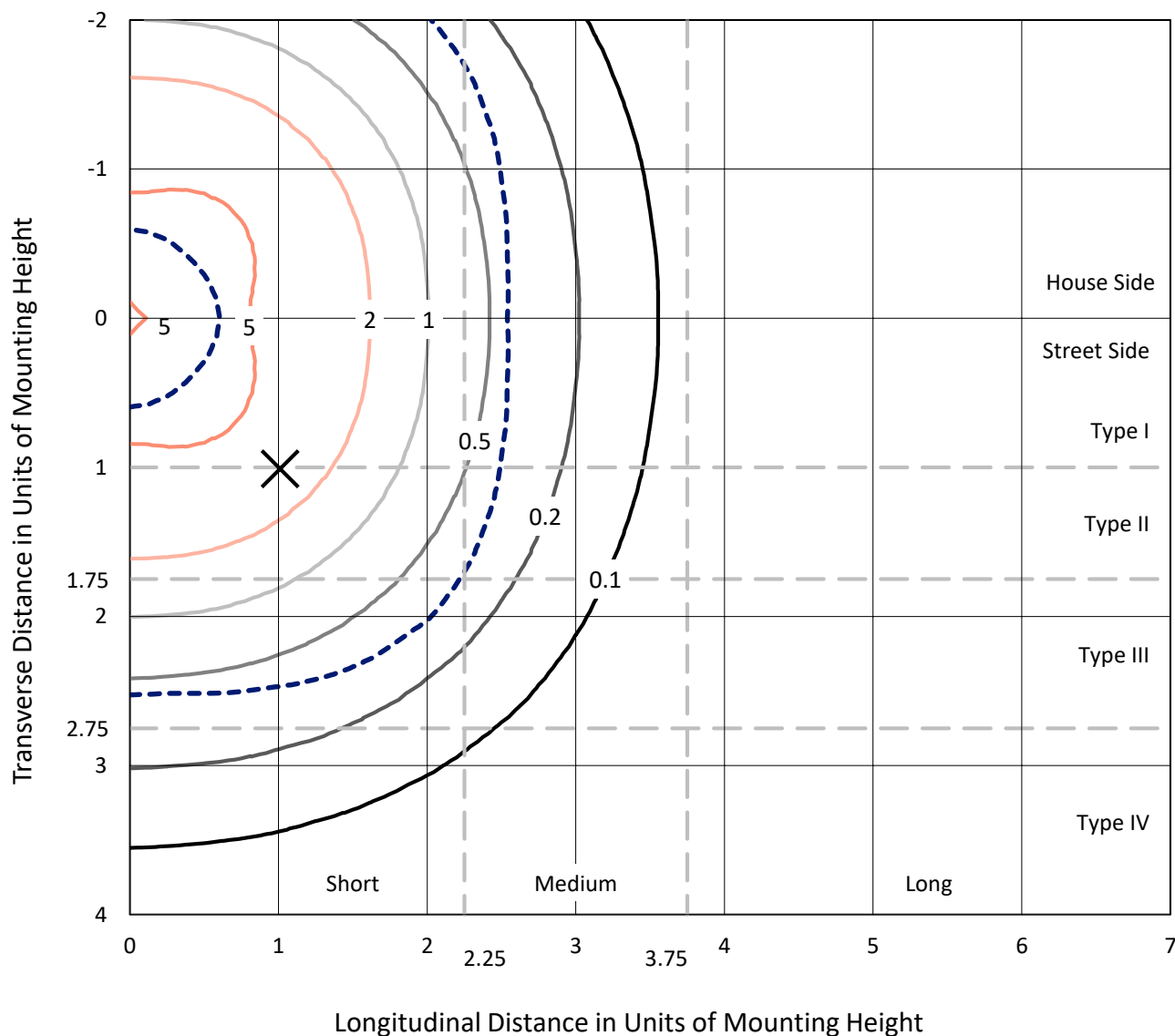


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

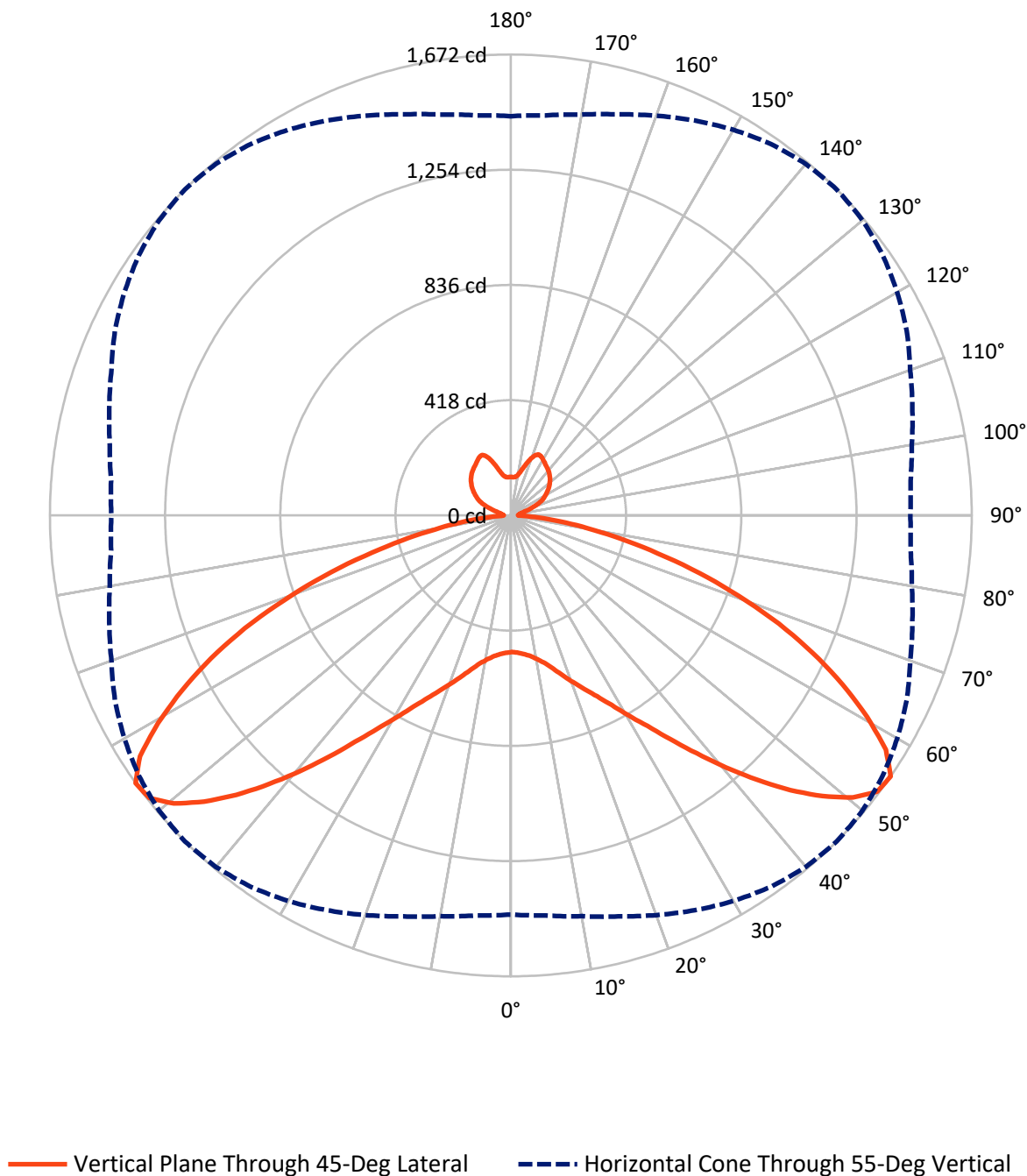


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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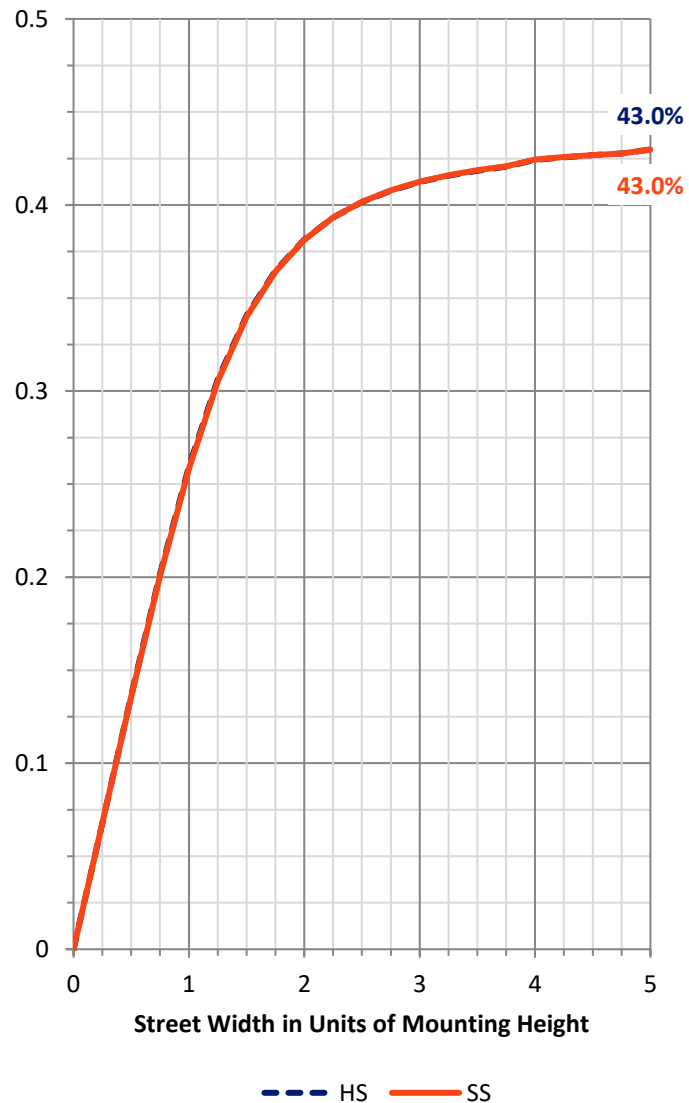
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2674.9	412.0	3086.8
	% Fixture	43.3	6.7	50.0
Street Side	Lumens	2674.9	412.0	3086.8
	% Fixture	43.3	6.7	50.0
Total	Lumens	5349.7	824.0	6173.7
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.8
10°-20°	165.9	2.7
20°-30°	337.9	5.5
30°-40°	617.1	10.0
40°-50°	1047.7	17.0
50°-60°	1364.5	22.1
60°-70°	1103.6	17.9
70°-80°	542.3	8.8
80°-90°	121.8	2.0
90°-100°	38.3	0.6
100°-110°	59.4	1.0
110°-120°	119.3	1.9
120°-130°	148.7	2.4
130°-140°	153.2	2.5
140°-150°	136.0	2.2
150°-160°	103.7	1.7
160°-170°	51.8	0.8
170°-180°	13.6	0.2
0°-90°	5349.7	86.7
0°-180°	6173.7	100.0

Coefficient of Utilization



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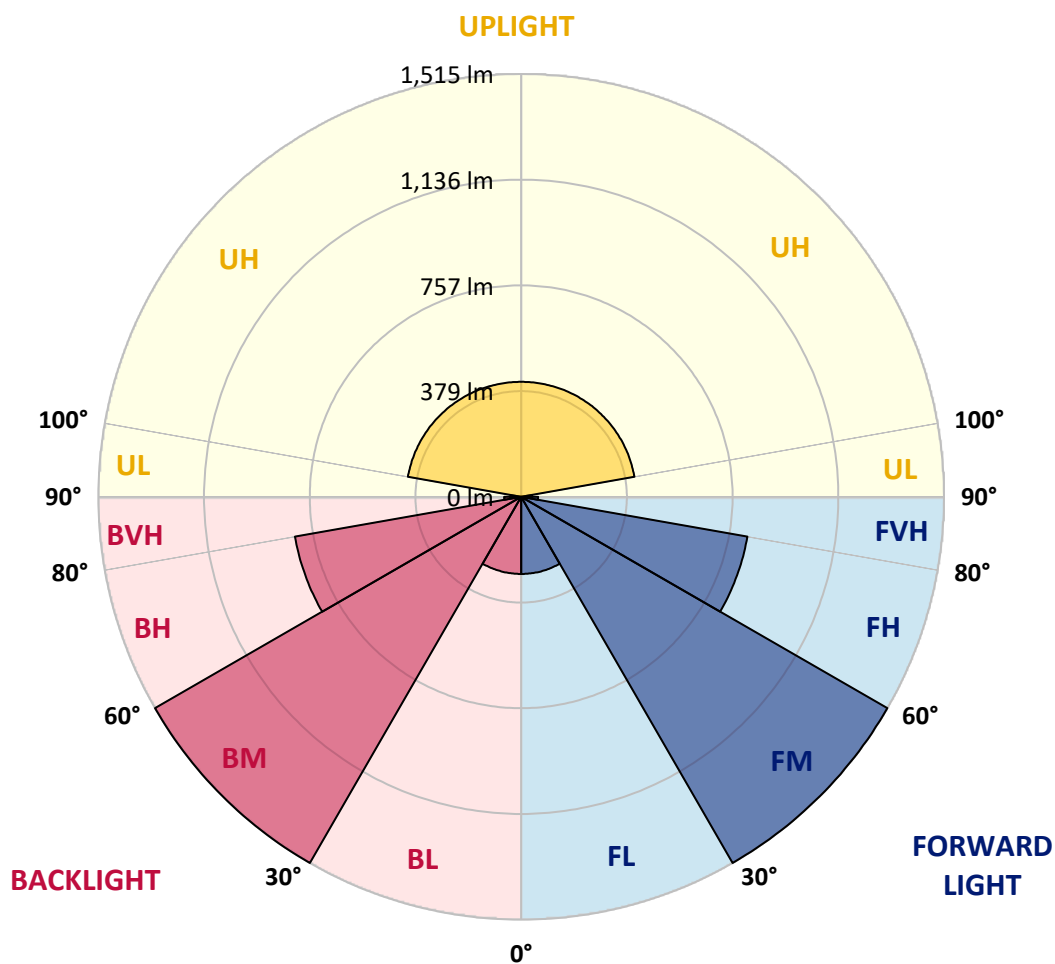
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.4	4.5			
FM	(30°-60°)	1514.7	24.5			
FH	(60°-80°)	822.9	13.3			G1/1800
FVH	(80°-90°)	60.9	1.0			G1/100
BL	(0°-30°)	276.4	4.5	B1/500		
BM	(30°-60°)	1514.7	24.5	B2/2500		
BH	(60°-80°)	822.9	13.3	B2/1000		G1/1800
BVH	(80°-90°)	60.9	1.0			G1/100
UL	(90°-100°)	38.3	0.6		U2/50	
UH	(100°-180°)	412.0	6.7		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°	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3
2.5°	497.4	497.4	497.4	497.4	497.4	497.4	498.6	498.6	498.6	498.6	498.6
5°	504.0	504.0	504.0	505.1	505.1	505.1	505.1	505.1	505.1	505.1	505.1
7.5°	513.9	512.8	513.9	513.9	513.9	515.0	515.0	513.9	515.0	515.0	515.0
10°	528.1	527.0	528.1	528.1	528.1	529.2	529.2	529.2	529.2	530.3	530.3
12.5°	548.9	547.8	548.9	550.0	548.9	550.0	550.0	550.0	550.0	550.0	550.0
15°	575.2	574.0	575.2	576.2	575.2	577.3	577.3	576.2	576.2	577.3	577.3
17.5°	606.8	604.7	605.7	606.8	606.8	609.0	609.0	607.9	609.0	610.0	609.0
20°	639.6	637.4	638.6	641.8	641.8	642.9	645.1	644.0	645.1	646.2	645.1
22.5°	675.7	674.6	675.7	678.9	678.9	680.1	683.3	683.3	683.3	684.4	683.3
25°	715.1	713.9	715.1	718.3	718.3	720.5	724.9	724.9	726.0	727.1	726.0
27.5°	761.0	759.9	762.0	765.4	766.5	769.7	775.2	776.3	777.3	778.5	776.3
30°	814.6	812.4	815.6	821.1	823.3	827.7	834.3	836.4	837.5	840.8	838.6
32.5°	875.8	873.6	878.0	884.5	887.8	894.3	903.2	905.3	908.5	910.8	907.5
35°	947.9	946.9	951.2	961.1	966.6	974.2	986.3	989.5	991.7	996.1	991.7
37.5°	1027.7	1026.6	1034.3	1045.3	1055.1	1067.1	1080.2	1085.7	1089.0	1094.5	1089.0
40°	1116.3	1115.2	1125.0	1138.2	1150.2	1165.5	1182.0	1189.6	1196.2	1201.6	1195.0
42.5°	1207.1	1207.1	1219.1	1233.3	1250.8	1269.4	1288.0	1296.7	1307.7	1310.9	1303.3
45°	1294.6	1295.6	1307.7	1325.1	1350.3	1374.3	1395.1	1406.1	1418.0	1421.4	1411.6
47.5°	1377.7	1378.8	1389.6	1412.7	1441.1	1468.4	1493.5	1508.8	1520.8	1521.9	1514.3
50°	1445.4	1449.8	1464.0	1484.8	1514.3	1542.7	1573.4	1593.1	1605.0	1608.4	1600.7
52.5°	1471.7	1479.3	1495.8	1521.9	1555.8	1585.3	1619.2	1644.4	1658.6	1664.1	1657.6
55°	1447.6	1456.4	1476.1	1505.6	1542.7	1579.9	1614.9	1644.4	1664.1	1671.8	1665.2
57.5°	1394.0	1395.1	1414.8	1444.3	1478.2	1516.5	1550.3	1577.7	1596.3	1604.0	1602.9
60°	1301.1	1301.1	1319.7	1348.1	1374.3	1413.7	1442.2	1462.9	1476.1	1484.8	1482.6
62.5°	1176.5	1176.5	1192.8	1222.3	1248.6	1282.5	1309.9	1331.7	1340.4	1350.3	1352.5
65°	1037.6	1037.6	1052.9	1082.4	1106.5	1137.1	1163.3	1184.1	1192.8	1204.9	1202.6
67.5°	890.0	889.0	903.2	928.2	951.2	979.7	1004.8	1024.5	1034.3	1048.5	1038.7
70°	738.0	738.0	750.1	769.7	786.1	814.6	838.6	858.3	865.9	878.0	872.5
72.5°	593.7	592.6	602.4	617.8	630.8	656.0	670.2	692.1	698.6	715.1	706.3
75°	463.5	461.4	469.0	480.0	488.7	505.1	516.1	533.6	539.0	550.0	545.6
77.5°	348.8	347.7	350.9	358.6	365.1	378.3	382.7	391.4	395.8	406.7	398.0
80°	250.4	247.2	250.4	254.8	257.0	266.8	267.8	271.2	273.3	281.0	272.2
82.5°	168.4	164.1	166.2	169.4	169.4	174.9	176.0	174.9	179.3	181.5	177.1
85°	96.2	92.9	94.1	96.2	95.2	98.4	98.4	97.3	100.5	100.5	98.4
87.5°	31.8	29.5	30.6	31.8	31.8	32.8	33.9	32.8	35.0	35.0	32.8
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°	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3
2.5°	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6
5°	505.1	505.1	505.1	505.1	505.1	504.0	504.0	504.0
7.5°	515.0	515.0	515.0	515.0	515.0	513.9	513.9	513.9
10°	530.3	529.2	529.2	529.2	529.2	528.1	529.2	528.1
12.5°	550.0	551.0	551.0	550.0	551.0	548.9	548.9	548.9
15°	577.3	576.2	576.2	576.2	576.2	575.2	575.2	575.2
17.5°	607.9	607.9	606.8	606.8	605.7	604.7	604.7	604.7
20°	644.0	642.9	641.8	640.7	639.6	637.4	636.3	636.3
22.5°	681.2	680.1	678.9	677.9	676.8	674.6	672.5	672.5
25°	722.7	720.5	719.4	717.3	715.1	712.8	711.8	710.7
27.5°	773.0	770.9	767.5	764.3	759.9	758.8	756.7	756.7
30°	833.2	829.9	825.4	820.1	815.6	811.2	809.1	808.0
32.5°	903.2	898.8	891.1	884.5	876.9	872.5	869.3	867.0
35°	985.1	978.5	969.8	960.0	950.1	942.5	937.0	937.0
37.5°	1081.3	1071.5	1058.4	1046.3	1032.1	1023.4	1016.8	1012.4
40°	1186.3	1172.1	1155.7	1140.4	1124.0	1112.0	1102.1	1103.2
42.5°	1290.2	1278.1	1258.5	1239.9	1219.1	1202.6	1190.7	1189.6
45°	1399.5	1384.2	1360.1	1336.1	1312.0	1292.3	1278.1	1275.9
47.5°	1501.1	1484.8	1456.4	1426.9	1400.6	1378.8	1363.5	1361.2
50°	1584.3	1564.7	1535.1	1503.4	1475.0	1450.9	1434.5	1430.1
52.5°	1637.9	1616.0	1584.3	1546.0	1515.4	1488.0	1468.4	1462.9
55°	1646.6	1618.2	1584.3	1541.6	1507.7	1477.1	1455.3	1448.7
57.5°	1586.5	1555.8	1525.3	1488.0	1454.2	1421.4	1403.8	1395.1
60°	1469.5	1445.4	1420.3	1386.4	1359.1	1328.5	1314.3	1309.9
62.5°	1334.9	1314.3	1291.2	1256.3	1233.3	1206.0	1192.8	1187.4
65°	1190.7	1166.6	1144.7	1116.3	1091.2	1068.2	1049.7	1047.4
67.5°	1031.0	1005.9	987.3	962.2	937.0	915.1	903.2	896.6
70°	862.7	841.9	823.3	795.9	779.6	758.8	750.1	743.5
72.5°	695.4	683.3	660.4	642.9	624.4	607.9	602.4	595.8
75°	537.9	523.7	506.3	495.3	481.1	472.4	467.9	463.5
77.5°	394.7	382.7	372.9	368.5	361.9	353.2	349.9	346.6
80°	273.3	267.8	261.4	260.2	255.9	249.3	248.2	247.2
82.5°	177.1	173.9	171.7	171.7	169.4	165.1	164.1	164.1
85°	98.4	97.3	98.4	97.3	95.2	92.9	92.9	92.9
87.5°	32.8	32.8	33.9	35.0	31.8	31.8	30.6	30.6
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)