

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: LUMARK

Report Number: P272220

Luminaire Tested: **CTKRV1B-SR-CARETAKER**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P272220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-942-12)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CTKRV1B-SR-CARETAKER
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE V ROUND OPTIC AND SR REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4435 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.29')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G2

Input Watts (W): 28.9
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

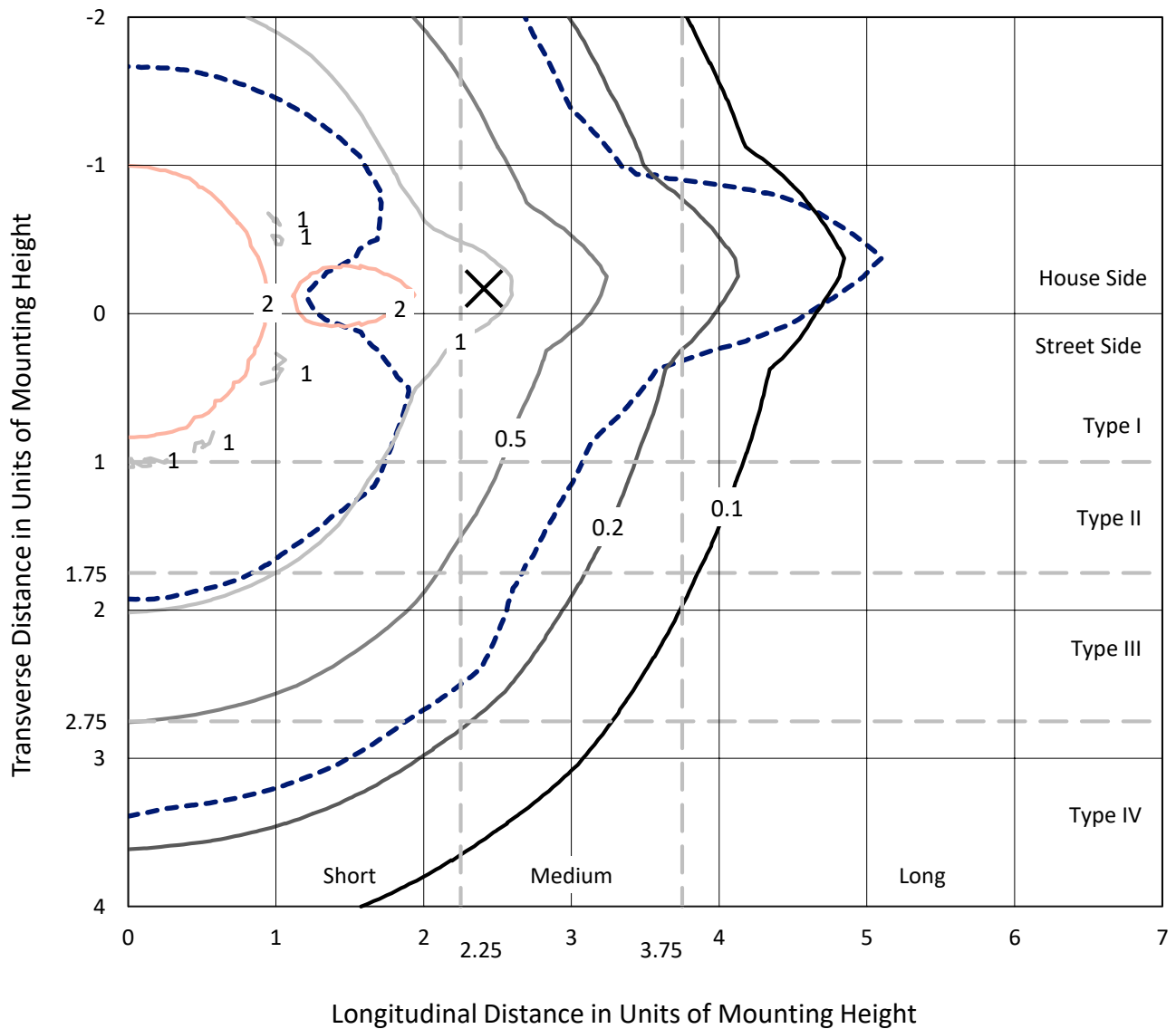


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

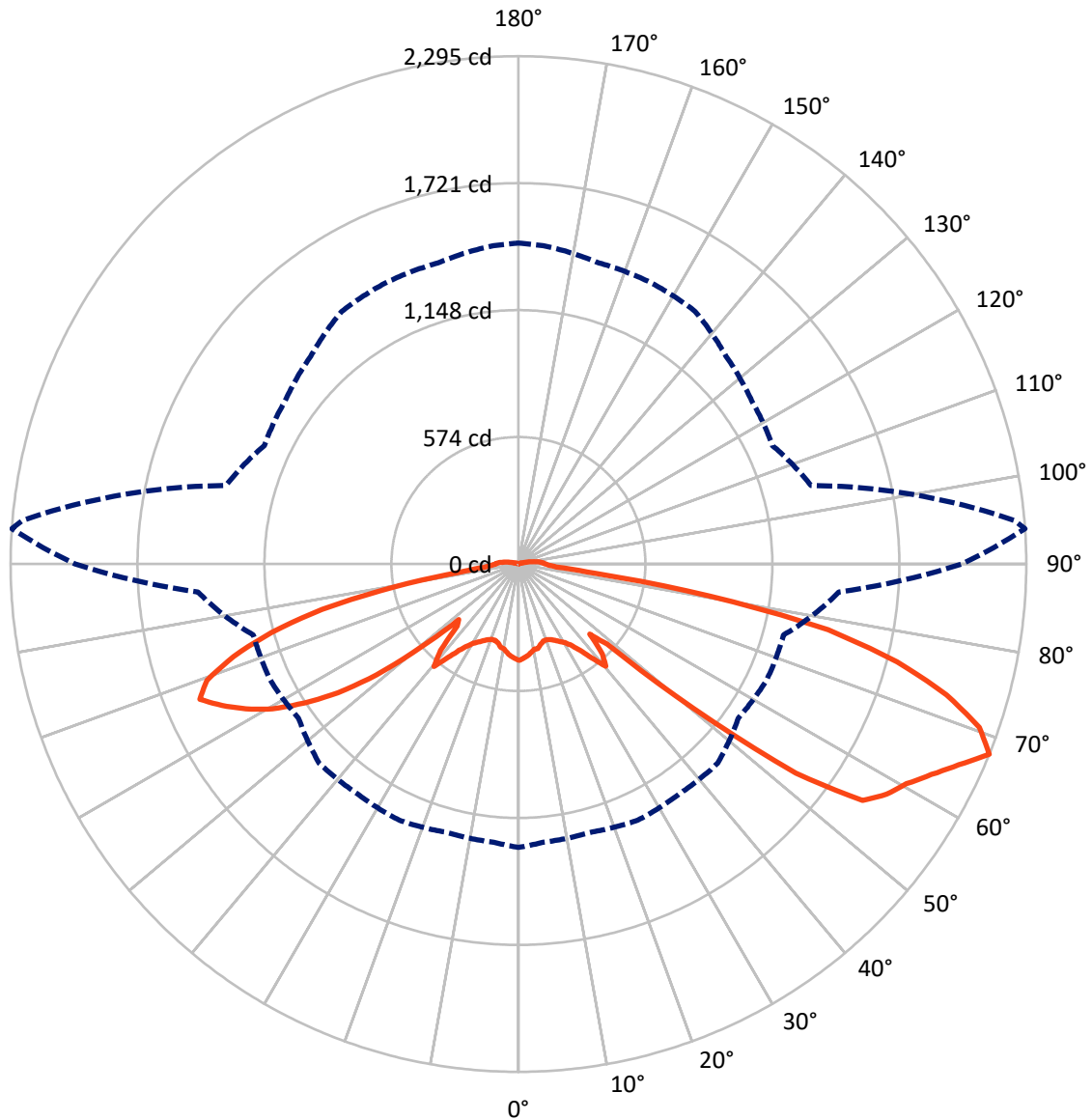


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 94-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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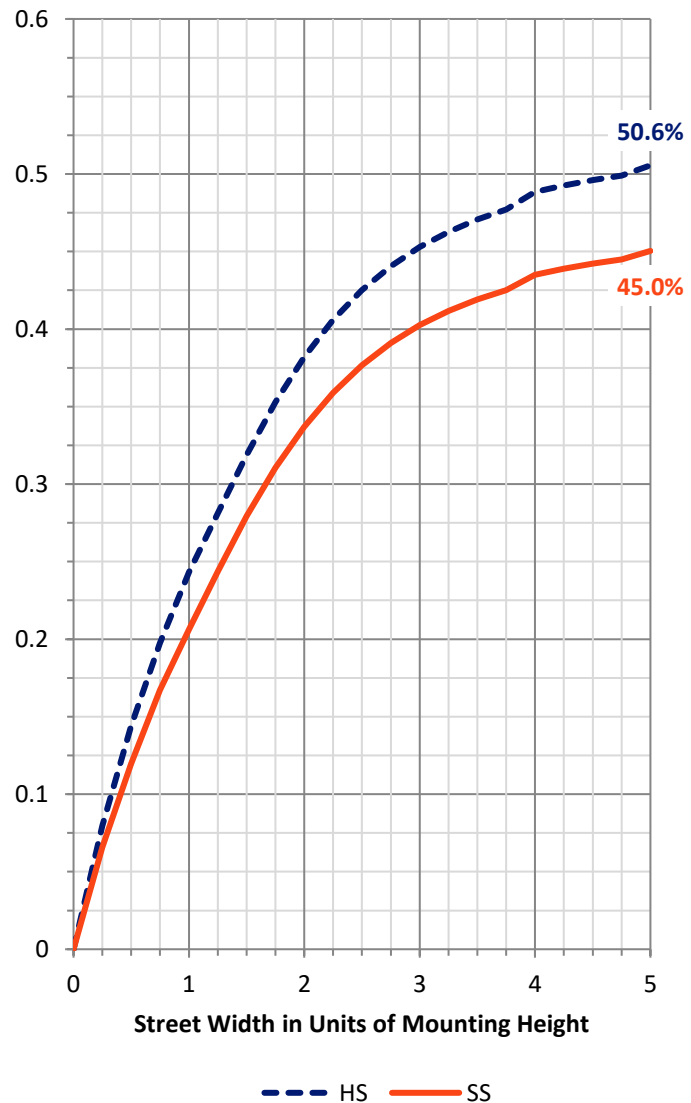
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2277.8	54.7	2332.5
	% Fixture	51.4	1.2	52.6
Street Side	Lumens	2035.7	66.8	2102.5
	% Fixture	45.9	1.5	47.4
Total	Lumens	4313.5	121.5	4435.0
	% Fixture	97.3	2.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	0.9
10°-20°	107.0	2.4
20°-30°	178.6	4.0
30°-40°	303.7	6.8
40°-50°	346.9	7.8
50°-60°	749.1	16.9
60°-70°	1269.0	28.6
70°-80°	1083.6	24.4
80°-90°	236.1	5.3
90°-100°	84.4	1.9
100°-110°	25.5	0.6
110°-120°	6.8	0.2
120°-130°	2.5	0.1
130°-140°	1.5	0.0
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4313.5	97.3
0°-180°	4435.0	100.0



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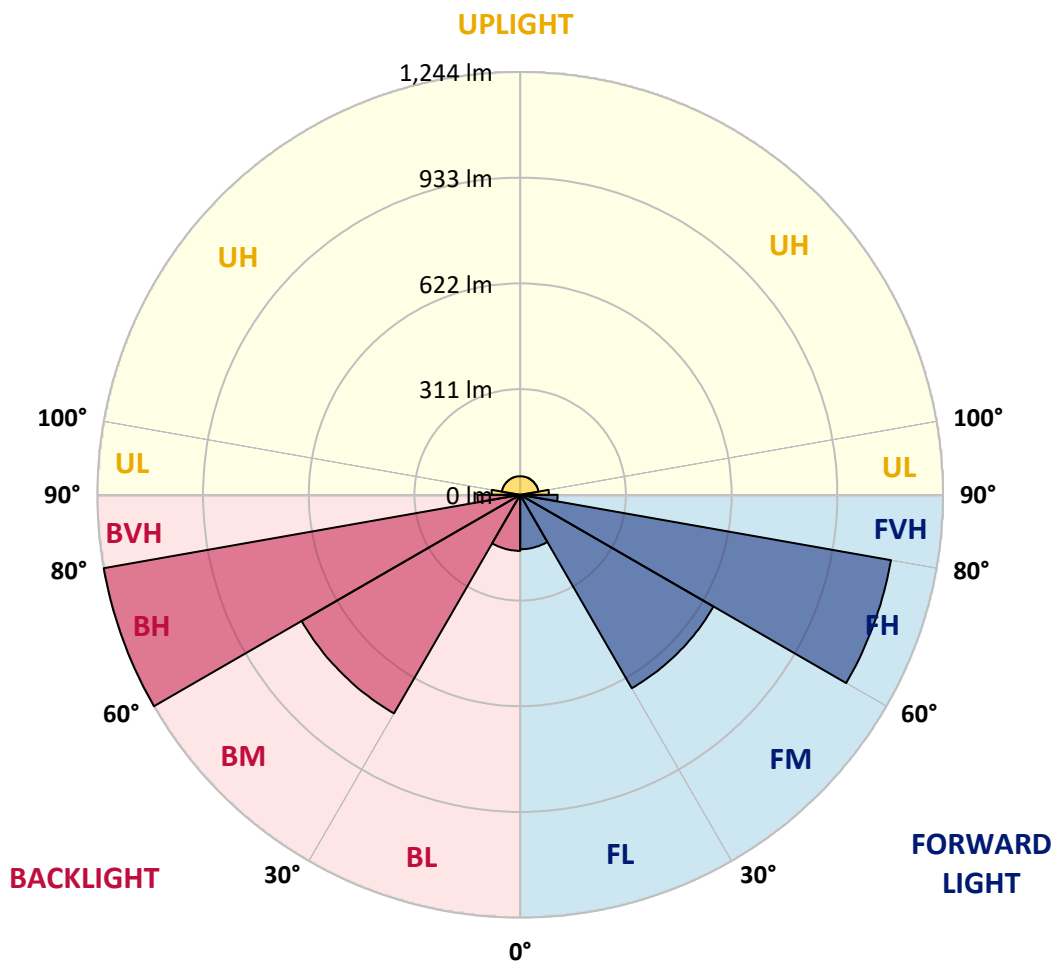
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	160.2	3.6			
FM (30°-60°)	657.1	14.8			
FH (60°-80°)	1108.2	25.0			G1/1800
FVH (80°-90°)	110.2	2.5			G2/225
BL (0°-30°)	164.9	3.7	B1/500		
BM (30°-60°)	742.6	16.7	B1/1000		
BH (60°-80°)	1244.4	28.1	B3/2500		G1/1800
BVH (80°-90°)	125.9	2.8			G2/225
UL (90°-100°)	84.4	1.9		U3/500	
UH (100°-180°)	54.7	1.2		U3/500	

BUG Rating: B3-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5
2.5°	426.7	427.2	426.7	427.2	426.7	427.2	428.0	428.9	428.5	427.2	427.2
5°	421.9	422.4	421.9	421.0	418.9	418.0	418.9	419.7	420.2	418.4	418.0
7.5°	417.5	417.5	415.8	414.9	412.3	409.2	407.0	405.7	406.2	405.3	405.7
10°	407.5	407.9	405.7	403.5	400.5	396.1	392.2	388.2	388.7	389.1	390.8
12.5°	390.8	391.3	389.5	389.5	387.8	383.4	379.9	379.5	380.3	383.8	389.1
15°	379.5	379.5	378.6	376.0	373.3	370.3	367.2	364.6	363.3	366.8	371.6
17.5°	374.2	374.2	373.3	371.2	368.1	365.5	362.8	361.5	358.9	360.2	363.3
20°	369.4	369.4	368.5	366.8	366.3	365.0	363.3	362.4	359.3	361.1	363.3
22.5°	370.3	370.3	369.8	368.5	367.6	366.8	365.5	365.9	365.9	368.1	370.3
25°	373.8	374.2	374.2	373.8	373.8	373.8	373.3	375.1	375.5	380.3	381.2
27.5°	379.0	379.0	381.7	379.9	379.9	380.8	381.7	384.7	387.3	395.2	395.7
30°	397.0	396.5	400.0	396.1	396.1	396.1	397.4	400.5	402.7	410.5	411.4
32.5°	428.5	427.2	429.4	425.0	423.2	423.2	424.5	427.2	428.5	436.8	437.2
35°	481.4	475.8	472.7	470.9	464.4	464.8	464.8	465.3	467.9	472.3	473.6
37.5°	544.0	542.3	545.3	543.2	540.5	534.8	533.5	533.5	525.7	527.0	529.6
40°	466.6	470.9	480.6	484.1	506.4	510.3	540.5	561.5	576.9	598.3	610.1
42.5°	301.6	311.2	319.9	334.4	358.5	353.6	396.5	428.5	462.6	517.8	557.2
45°	249.9	248.6	251.7	249.5	263.0	253.4	280.1	295.9	305.9	377.7	458.7
47.5°	381.7	376.4	367.2	374.7	370.3	342.3	331.3	306.4	268.3	337.0	492.8
50°	547.1	543.2	548.4	545.8	549.7	516.9	499.8	461.3	409.7	516.5	828.5
52.5°	676.6	674.9	679.7	677.5	688.9	652.1	634.2	600.5	569.0	717.4	1201.0
55°	806.6	803.6	804.5	807.5	808.8	769.0	755.0	729.6	725.2	893.3	1435.6
57.5°	921.3	917.4	927.4	918.7	919.1	882.8	875.4	865.7	863.1	1055.2	1542.8
60°	1020.2	1016.7	1025.9	1012.3	1017.2	992.2	980.8	984.8	983.0	1196.2	1664.0
62.5°	1104.3	1102.1	1103.4	1094.6	1104.7	1095.9	1065.7	1078.9	1084.1	1299.5	1774.8
65°	1185.2	1174.7	1170.3	1185.7	1184.8	1187.4	1141.0	1164.2	1168.2	1383.9	1886.4
67.5°	1280.6	1262.7	1255.3	1277.1	1268.0	1273.2	1213.2	1238.2	1239.9	1454.0	2004.6
70°	1262.7	1247.8	1245.6	1265.3	1255.7	1260.5	1199.2	1212.8	1222.9	1395.8	1934.1
72.5°	1160.7	1152.4	1155.5	1159.8	1154.2	1166.8	1112.1	1109.9	1129.2	1255.3	1750.3
75°	1029.9	1011.9	1012.8	1007.5	996.6	1015.4	965.5	960.3	987.8	1075.8	1488.5
77.5°	835.5	813.6	823.3	808.4	801.8	814.1	774.7	755.9	787.4	850.8	1146.7
80°	550.2	525.7	541.0	534.0	518.2	530.5	503.8	500.7	514.7	541.8	672.3
82.5°	236.8	228.5	232.0	229.8	216.7	235.9	232.4	238.5	249.9	261.3	292.4
85°	132.2	128.7	132.6	131.7	129.1	133.9	137.9	143.6	144.4	151.4	158.0
87.5°	116.9	116.4	117.3	116.4	114.2	115.5	118.6	123.0	119.9	122.1	126.1
90°	109.0	108.5	108.1	105.9	104.2	105.0	107.7	109.4	105.9	105.5	111.6
92.5°	102.4	101.5	100.2	98.5	96.7	96.7	97.6	97.6	93.7	95.4	103.3
95°	86.2	86.7	85.8	84.5	83.2	82.3	83.2	82.7	80.5	83.2	91.0
97.5°	68.7	68.7	67.8	67.4	66.1	65.7	66.1	65.7	63.9	66.1	72.2
100°	54.7	54.3	53.4	53.0	53.0	53.0	53.4	52.1	49.5	49.5	53.4
102.5°	42.0	41.6	41.1	41.1	41.1	40.3	41.1	39.8	36.8	36.3	36.3
105°	28.4	28.4	28.0	28.0	28.0	26.7	26.7	25.8	23.2	22.8	21.9
107.5°	16.6	16.6	16.6	17.1	17.1	16.6	17.1	16.6	15.3	14.9	15.3
110°	11.8	11.8	12.3	12.7	12.7	12.3	12.7	12.7	11.8	11.8	11.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	9.2	9.6	9.6	10.1	10.1	10.1	10.5	10.1	9.6	9.6	9.2
115°	7.4	7.4	7.9	7.9	8.3	7.9	8.3	7.9	7.4	7.4	7.4
117.5°	5.7	5.7	5.7	6.1	6.1	6.1	6.6	5.7	5.7	5.3	5.7
120°	3.9	3.9	3.9	4.4	4.4	4.4	4.4	4.4	4.4	3.9	3.9
122.5°	3.1	3.1	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
125°	2.6	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
127.5°	2.6	2.6	2.6	3.1	3.1	2.6	2.6	2.6	2.6	2.6	2.6
130°	2.2	2.2	2.6	2.6	3.1	2.6	2.6	2.6	2.6	2.2	2.6
132.5°	2.2	2.2	2.2	2.6	3.1	2.6	2.6	2.6	2.6	2.2	2.2
135°	2.2	2.2	2.2	2.6	2.6	2.6	2.2	2.2	2.2	2.2	2.2
137.5°	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2	2.2	1.8	1.8
140°	1.3	1.3	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.3	1.3
142.5°	0.9	1.3	1.3	1.3	1.8	1.3	1.3	1.3	1.3	1.3	0.9
145°	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.9
147.5°	0.9	0.9	0.9	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.9
150°	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4
152.5°	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4
155°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
157.5°	0.0	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	94°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5
2.5°	426.7	426.7	427.6	429.8	432.9	435.1	436.4	436.8	437.2	436.8	437.2
5°	417.1	417.1	418.0	418.9	421.9	424.5	426.7	429.4	430.7	430.2	430.2
7.5°	404.9	404.4	404.4	404.9	406.2	408.8	411.4	414.9	417.1	419.3	419.7
10°	392.2	392.2	395.7	393.9	392.2	392.2	395.2	398.3	400.9	401.8	402.7
12.5°	391.7	392.2	398.3	393.9	389.5	387.8	389.1	391.7	395.2	396.5	397.8
15°	376.0	376.4	383.0	380.8	376.8	375.5	379.0	383.0	385.6	386.5	387.3
17.5°	365.9	366.3	371.6	371.6	370.3	370.7	372.5	374.7	376.8	378.6	379.9
20°	364.6	365.0	368.1	369.0	371.2	373.3	375.1	377.3	378.6	379.9	381.7
22.5°	371.2	371.6	372.0	371.2	374.7	379.0	382.1	384.3	386.5	388.2	389.5
25°	381.7	382.1	382.1	379.9	383.4	388.7	393.5	397.4	399.2	401.4	403.5
27.5°	396.5	396.5	397.8	395.7	397.0	401.4	407.0	410.5	413.6	416.2	418.4
30°	411.9	411.4	414.0	412.3	412.7	415.8	421.5	424.5	426.7	429.4	431.1
32.5°	437.7	437.2	438.6	435.9	435.1	435.9	439.0	442.5	444.7	446.9	447.7
35°	478.4	476.6	473.6	471.4	469.6	467.9	469.2	470.1	470.5	473.6	476.2
37.5°	537.5	534.4	521.7	521.7	519.1	517.8	517.3	517.3	516.0	524.3	531.3
40°	607.1	605.7	601.8	607.1	608.4	605.7	606.6	606.2	606.6	623.3	628.9
42.5°	556.3	559.4	584.7	608.8	629.8	632.4	659.1	671.0	676.6	688.0	688.5
45°	452.1	458.2	442.1	455.6	486.7	490.2	530.0	552.8	562.0	567.7	562.4
47.5°	539.7	542.3	345.8	305.5	344.5	355.0	386.9	413.6	419.7	411.9	405.7
50°	1024.2	1029.9	462.2	347.1	371.6	383.0	387.3	395.2	390.8	394.8	397.8
52.5°	1569.9	1541.1	657.0	548.0	558.9	583.9	600.5	611.0	591.7	604.4	613.2
55°	1886.4	1847.4	829.8	721.7	716.5	750.2	797.9	830.7	829.0	832.9	839.9
57.5°	1963.0	1922.3	982.1	878.4	870.1	901.2	942.8	981.7	994.4	1006.7	995.7
60°	2015.5	1970.9	1108.2	1013.2	1011.5	1043.4	1083.7	1118.7	1139.7	1170.3	1178.7
62.5°	2094.7	2048.8	1208.4	1120.5	1125.3	1167.3	1205.8	1233.8	1253.5	1298.6	1299.0
65°	2187.1	2142.9	1296.0	1205.8	1217.6	1266.6	1317.8	1334.0	1352.9	1397.1	1398.4
67.5°	2295.2	2251.8	1369.1	1266.6	1286.8	1327.5	1393.1	1405.4	1408.4	1441.7	1450.5
70°	2209.8	2176.6	1330.1	1236.0	1255.7	1289.0	1348.5	1359.0	1360.7	1378.7	1389.6
72.5°	2023.4	1979.2	1213.2	1139.7	1152.0	1182.2	1233.8	1234.7	1248.3	1268.0	1279.8
75°	1767.8	1723.6	1046.9	996.2	1000.5	1044.7	1081.1	1083.7	1106.4	1137.5	1146.7
77.5°	1431.6	1388.3	827.2	791.3	797.9	835.1	860.5	857.4	877.1	901.6	914.7
80°	875.8	842.5	527.0	521.3	522.6	547.1	561.1	560.2	576.9	607.1	610.6
82.5°	346.6	336.6	263.0	267.4	266.5	279.2	276.6	277.5	291.5	311.6	315.1
85°	171.1	172.4	151.9	154.1	157.1	164.6	164.1	162.8	174.2	184.3	185.1
87.5°	136.1	135.2	119.9	119.9	124.7	128.7	129.1	130.9	135.7	141.4	140.1
90°	119.5	119.0	105.0	104.2	108.5	110.3	109.4	110.3	112.0	113.4	113.8
92.5°	110.7	109.0	91.9	91.9	93.7	93.2	91.5	90.6	87.5	83.6	80.1
95°	96.3	93.7	77.0	77.0	77.5	76.2	72.2	67.4	57.3	48.1	49.0
97.5°	75.3	73.1	60.4	60.4	59.5	56.5	51.2	43.8	35.9	31.1	33.7
100°	54.3	53.4	45.1	45.1	44.2	41.1	36.3	30.2	24.9	18.8	21.9
102.5°	36.8	35.9	32.4	32.0	31.1	28.0	24.9	20.6	17.1	12.3	14.4
105°	21.9	21.4	20.1	19.7	18.8	17.1	15.8	12.7	9.6	7.4	8.8
107.5°	14.9	14.9	14.0	14.0	13.6	12.7	11.4	9.2	7.0	4.8	5.7
110°	11.4	11.4	10.9	10.9	10.5	9.6	8.8	7.0	5.3	3.1	3.9



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CANDELA DISTRIBUTION (continued):

	94°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	9.2	9.2	8.8	8.8	8.3	7.9	6.6	5.7	3.9	2.2	3.1
115°	7.4	7.4	7.0	7.0	6.6	6.1	5.3	4.4	3.1	1.8	2.2
117.5°	5.7	5.7	5.3	5.3	5.3	4.8	4.4	3.5	2.2	0.9	1.3
120°	4.4	4.4	3.9	3.9	3.9	3.9	3.5	2.6	1.8	0.9	0.9
122.5°	3.5	3.5	3.1	3.1	3.1	3.1	3.1	2.2	1.3	0.4	0.4
125°	3.1	3.1	2.6	2.6	2.6	3.1	2.6	2.2	0.9	0.4	0.4
127.5°	2.6	2.6	2.6	2.6	3.1	3.1	2.6	2.2	0.9	0.0	0.0
130°	2.6	2.6	2.6	2.6	3.1	3.1	2.6	1.8	0.9	0.0	0.0
132.5°	2.2	2.2	2.2	2.6	2.6	3.1	2.6	1.8	0.4	0.0	0.0
135°	2.2	2.2	2.2	2.2	2.6	2.6	2.2	1.3	0.4	0.0	0.0
137.5°	1.8	1.8	1.8	2.2	2.2	2.2	1.8	0.9	0.4	0.0	0.0
140°	1.3	1.3	1.3	1.8	1.8	1.8	1.3	0.9	0.0	0.0	0.0
142.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.4	0.0	0.0	0.0
145°	0.9	0.9	0.9	1.3	1.3	1.3	0.9	0.4	0.0	0.0	0.0
147.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.0	0.0	0.0
150°	0.4	0.4	0.4	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0
152.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)