

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: P821378

Luminaire Tested: **TT-D2-740-12VDC-5CQ-PM-HSS**

Issue Date: 12/2/2020



Test Information

Test Method: LM-79-08
Report Number: P821378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-3)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D2-740-12VDC-5CQ-PM-HSS
Description: TOPTIER LED SITE LUMINAIRE
4000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

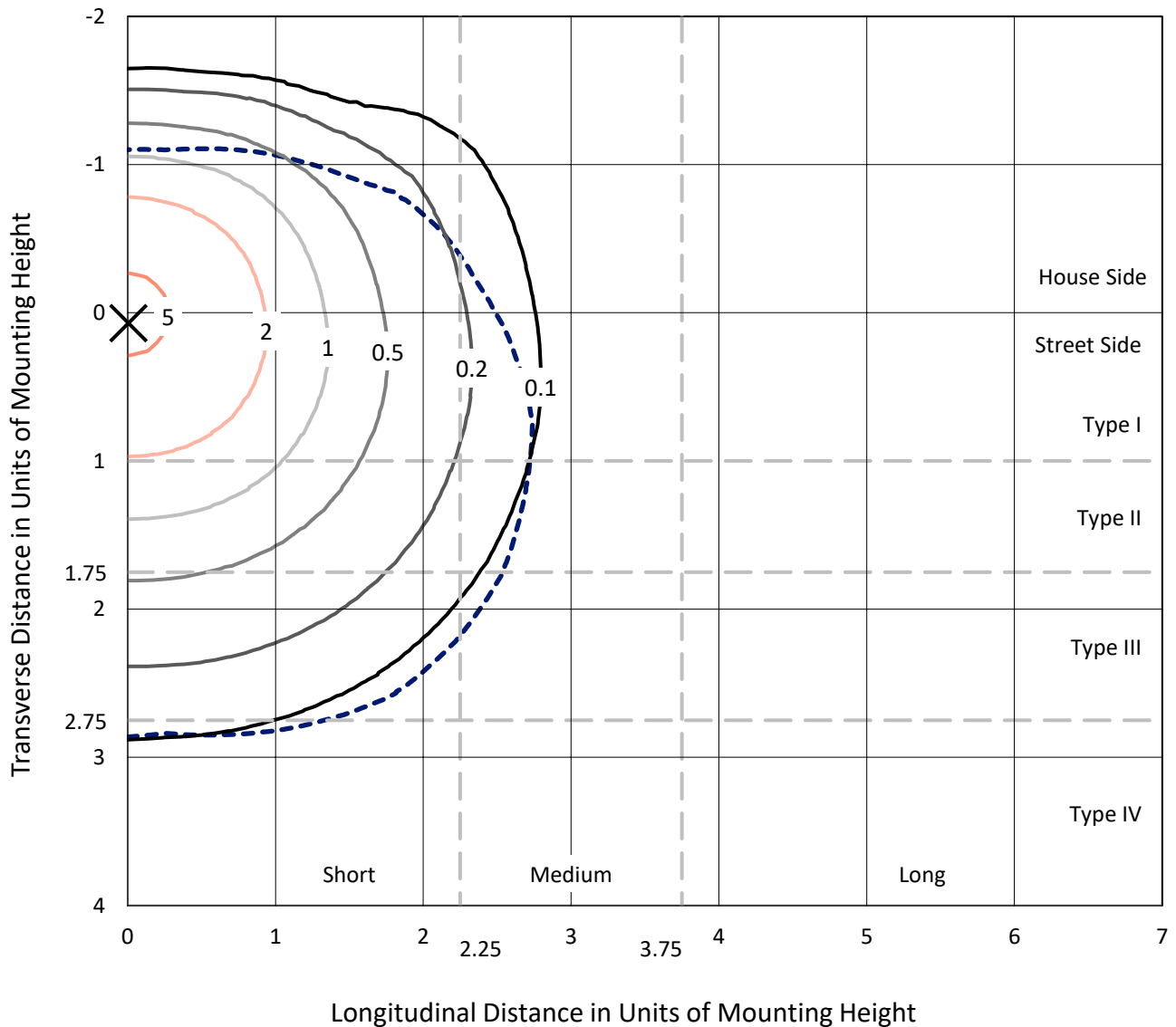
Lumens per Lamp: N/A
Luminaire Lumens: 4409.9 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U1 - G1

Input Watts (W): 38
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

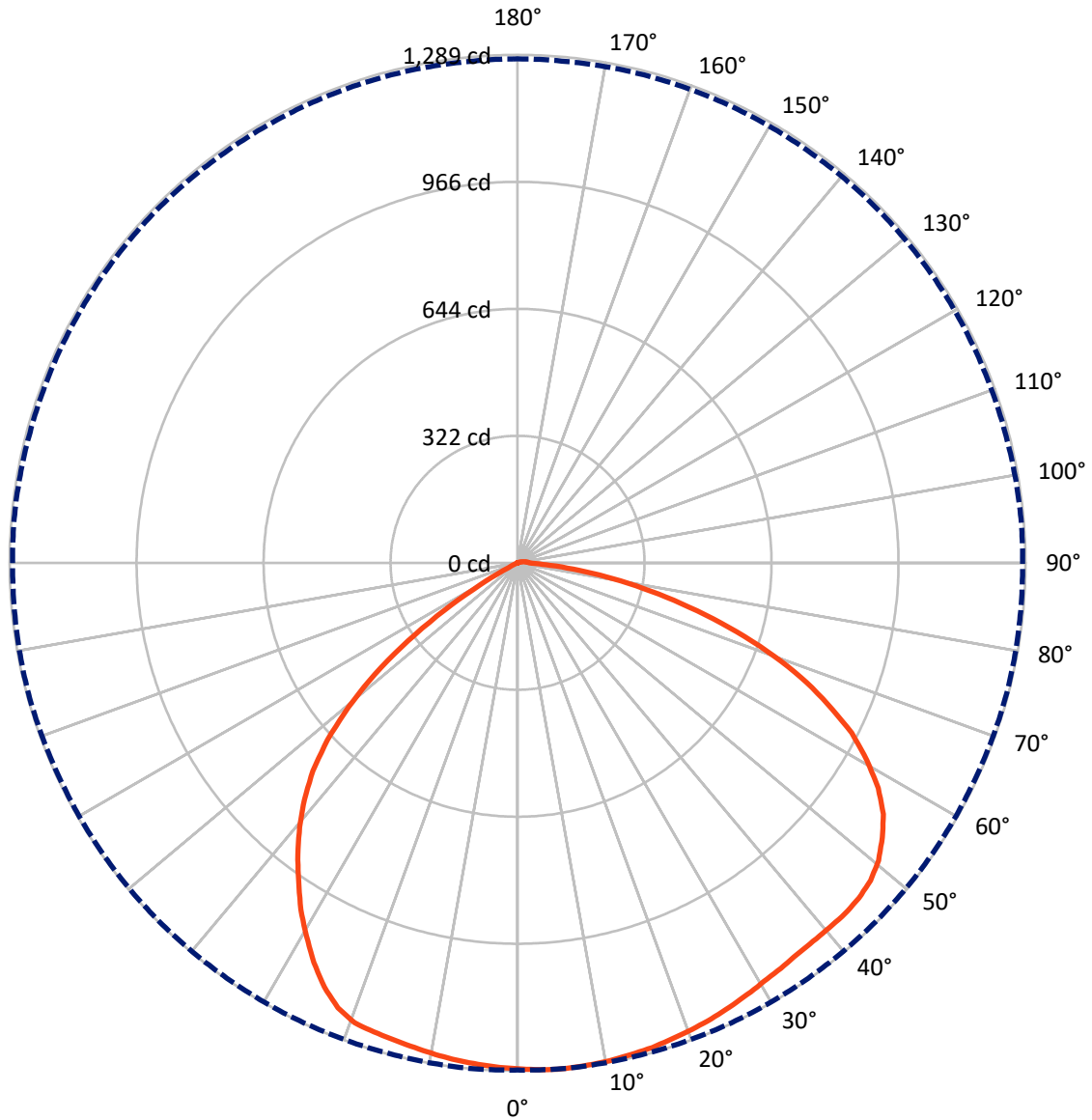
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 4-Deg Vertical

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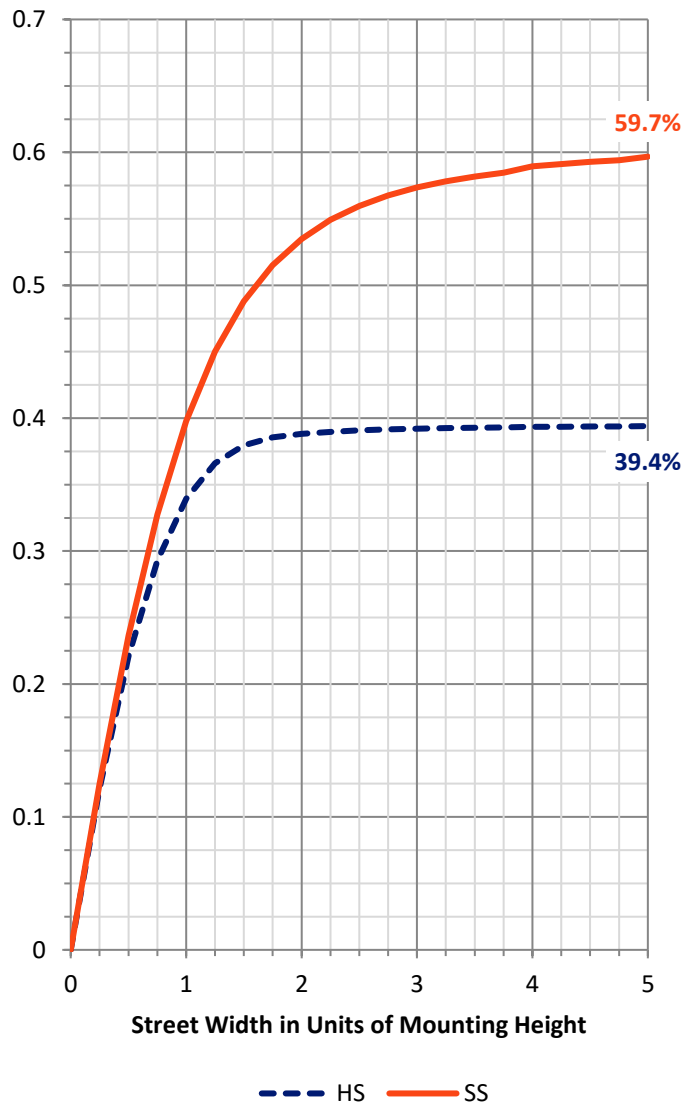
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1747.6	2.2	1749.8
	% Fixture	39.6	0.0	39.7
Street Side	Lumens	2647.8	12.3	2660.1
	% Fixture	60.0	0.3	60.3
Total	Lumens	4395.4	14.4	4409.9
	% Fixture	99.7	0.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	2.8
10°-20°	357.5	8.1
20°-30°	563.3	12.8
30°-40°	716.9	16.3
40°-50°	828.0	18.8
50°-60°	810.7	18.4
60°-70°	603.8	13.7
70°-80°	327.0	7.4
80°-90°	66.3	1.5
90°-100°	8.4	0.2
100°-110°	3.3	0.1
110°-120°	0.9	0.0
120°-130°	0.6	0.0
130°-140°	0.5	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4395.4	99.7
0°-180°	4409.9	100.0

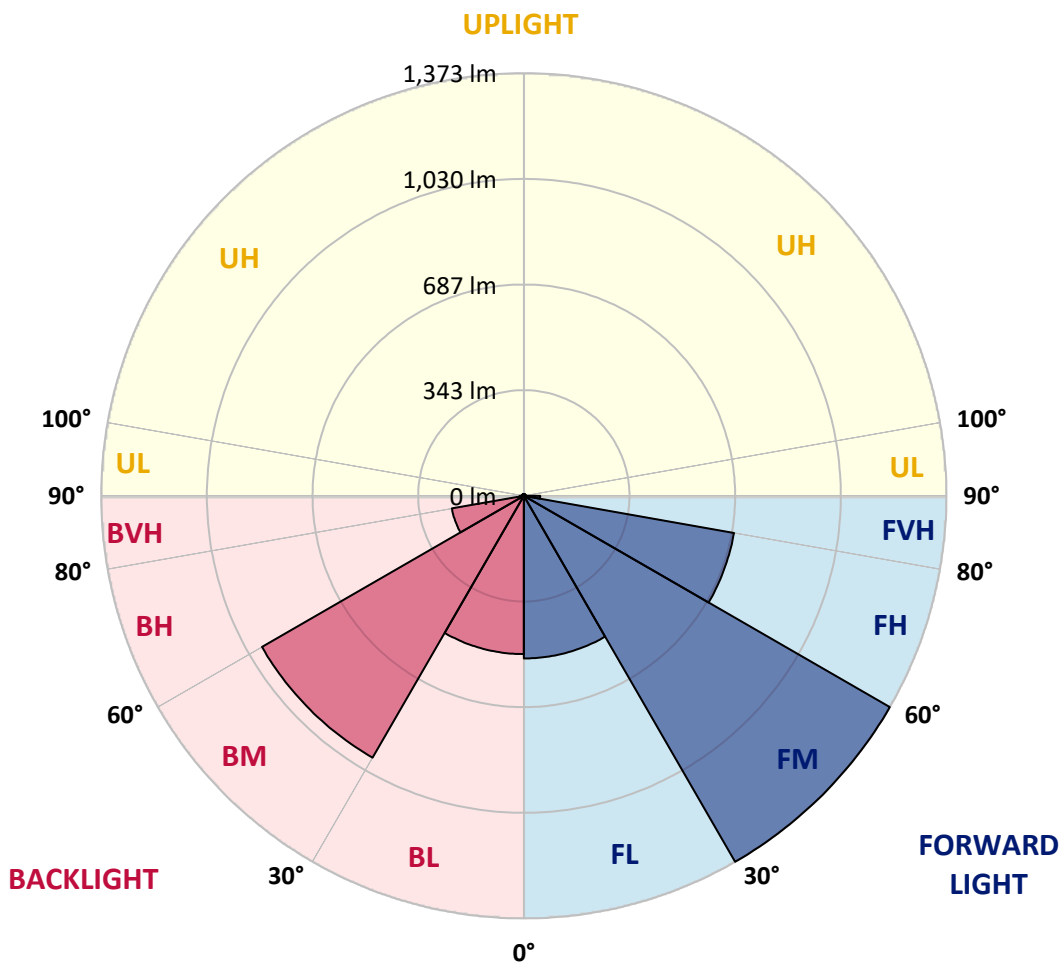


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.4	12.0			
FM (30°-60°)	1373.1	31.1			
FH (60°-80°)	693.4	15.7			G1/1800
FVH (80°-90°)	52.9	1.2			G1/100
BL (0°-30°)	514.4	11.7	B2/1000		
BM (30°-60°)	982.4	22.3	B1/1000		
BH (60°-80°)	237.5	5.4	B1/500		G1/500
BVH (80°-90°)	13.4	0.3			G1/100
UL (90°-100°)	8.4	0.2		U1/10	
UH (100°-180°)	6.0	0.1		U1/10	

BUG Rating: B2-U1-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4
2.5°	1286.1	1287.8	1286.9	1286.9	1285.3	1286.1	1285.3	1285.3	1284.4	1283.6	1283.6
4°	1286.9	1288.6	1286.9	1286.9	1286.1	1286.1	1285.3	1283.6	1284.4	1282.0	1281.1
5°	1287.8	1288.6	1287.8	1287.8	1286.1	1285.3	1283.6	1283.6	1282.8	1281.1	1281.1
7.5°	1286.1	1286.9	1286.9	1286.1	1284.4	1282.8	1282.0	1281.1	1280.3	1277.8	1277.8
10°	1282.8	1284.4	1282.8	1282.8	1282.0	1280.3	1277.8	1277.0	1274.5	1272.8	1272.0
12.5°	1279.5	1280.3	1279.5	1279.5	1277.8	1275.3	1274.5	1272.8	1269.5	1267.0	1267.0
15°	1274.5	1276.2	1275.3	1274.5	1273.7	1271.2	1268.7	1266.2	1263.7	1261.2	1261.2
17.5°	1268.7	1269.5	1270.3	1269.5	1267.9	1266.2	1263.7	1260.4	1257.9	1255.4	1254.6
20°	1262.1	1263.7	1263.7	1263.7	1262.1	1260.4	1257.1	1253.8	1252.1	1248.8	1248.0
22.5°	1255.4	1257.1	1256.3	1257.1	1256.3	1253.8	1250.4	1247.1	1243.8	1241.3	1239.7
25°	1248.8	1248.8	1248.8	1248.8	1248.8	1245.5	1242.2	1238.0	1234.7	1230.5	1230.5
27.5°	1240.5	1240.5	1241.3	1241.3	1240.5	1238.0	1233.9	1228.9	1223.9	1219.8	1218.1
30°	1233.0	1232.2	1233.9	1235.5	1234.7	1232.2	1227.2	1221.4	1214.0	1208.2	1203.2
32.5°	1223.9	1226.4	1228.1	1231.4	1232.2	1228.9	1223.1	1215.6	1208.2	1197.4	1188.3
35°	1220.6	1220.6	1224.7	1229.7	1231.4	1229.7	1221.4	1213.1	1202.4	1186.6	1175.8
37.5°	1217.3	1218.1	1224.7	1232.2	1234.7	1234.7	1225.6	1214.8	1199.9	1177.5	1164.2
40°	1215.6	1217.3	1225.6	1236.3	1243.0	1242.2	1231.4	1218.1	1199.9	1170.8	1154.3
42.5°	1214.0	1217.3	1226.4	1241.3	1251.3	1250.4	1238.8	1221.4	1198.2	1162.6	1143.5
45°	1211.5	1214.0	1226.4	1245.5	1258.7	1261.2	1248.0	1225.6	1198.2	1155.1	1130.2
47.5°	1204.0	1204.8	1221.4	1243.8	1263.7	1267.0	1253.8	1227.2	1194.9	1142.6	1113.6
50°	1184.1	1186.6	1205.7	1235.5	1258.7	1263.7	1252.1	1223.1	1186.6	1121.9	1087.1
52.5°	1158.4	1158.4	1181.6	1214.8	1243.0	1251.3	1240.5	1208.2	1165.9	1091.2	1051.4
55°	1120.3	1126.1	1150.1	1184.9	1215.6	1227.2	1212.3	1180.8	1131.9	1052.3	1008.3
57.5°	1077.1	1078.8	1103.7	1145.1	1176.6	1184.1	1171.7	1134.4	1087.1	1005.8	953.6
60°	1015.0	1018.3	1049.8	1086.3	1120.3	1130.2	1114.5	1077.1	1027.4	946.1	893.1
62.5°	946.1	951.1	979.3	1016.6	1048.9	1064.7	1045.6	1006.7	957.7	874.8	828.4
65°	863.2	864.9	895.5	937.8	970.2	976.0	959.4	921.3	872.3	792.7	751.3
67.5°	767.8	776.1	806.0	837.5	865.7	872.3	860.7	816.8	777.8	707.3	666.7
70°	675.8	671.7	696.5	728.0	753.8	759.6	746.3	705.7	669.2	602.8	571.3
72.5°	564.7	561.4	587.9	612.0	636.8	633.5	620.2	587.9	556.4	500.0	471.0
75°	452.7	449.4	470.2	490.9	503.3	505.0	495.9	471.8	437.8	393.9	371.5
77.5°	343.3	346.6	355.7	373.1	384.8	389.7	374.0	349.9	328.4	294.4	277.8
80°	244.6	245.4	248.8	261.2	269.5	269.5	262.0	243.0	218.9	194.9	186.6
82.5°	154.2	157.5	157.5	170.0	170.0	163.4	160.0	147.6	135.2	116.1	104.5
85°	84.6	82.9	87.9	88.7	87.9	82.9	77.9	70.5	62.2	48.9	43.9
87.5°	37.3	36.5	36.5	36.5	35.7	32.3	27.4	21.6	14.9	9.1	6.6
90°	29.0	29.0	28.2	26.5	24.0	21.6	17.4	13.3	8.3	3.3	1.7
92.5°	26.5	26.5	25.7	24.9	22.4	19.9	15.8	11.6	7.5	3.3	1.7
95°	23.2	22.4	22.4	20.7	19.1	16.6	14.1	10.0	6.6	2.5	1.7
97.5°	19.1	18.2	18.2	17.4	15.8	13.3	11.6	8.3	5.8	2.5	1.7
100°	14.1	14.9	14.1	13.3	12.4	10.8	9.1	6.6	4.1	1.7	1.7
102.5°	10.8	10.8	10.0	10.0	9.1	8.3	6.6	5.0	3.3	1.7	0.8
105°	7.5	7.5	7.5	6.6	6.6	5.8	5.0	3.3	2.5	1.7	0.8
107.5°	4.1	4.1	4.1	4.1	4.1	4.1	3.3	2.5	1.7	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	0.8
112.5°	0.8	0.8	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
117.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
120°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
122.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
125°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
127.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
130°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
132.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
135°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
137.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
140°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
170°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4	1284.4
2.5°	1282.8	1280.3	1282.0	1281.1	1282.0	1280.3	1280.3	1280.3	1281.1	1279.5
4°	1282.0	1280.3	1280.3	1280.3	1280.3	1278.6	1278.6	1278.6	1277.8	1278.6
5°	1280.3	1279.5	1278.6	1277.8	1278.6	1277.0	1276.2	1276.2	1276.2	1277.0
7.5°	1277.0	1274.5	1274.5	1272.0	1272.8	1272.0	1271.2	1272.0	1271.2	1271.2
10°	1271.2	1269.5	1268.7	1267.0	1267.0	1265.4	1264.5	1264.5	1264.5	1263.7
12.5°	1265.4	1263.7	1262.9	1261.2	1260.4	1258.7	1257.9	1258.7	1257.1	1257.1
15°	1258.7	1257.1	1256.3	1256.3	1254.6	1252.9	1252.1	1250.4	1250.4	1250.4
17.5°	1252.9	1251.3	1252.1	1250.4	1249.6	1248.0	1248.0	1244.6	1244.6	1243.8
20°	1247.1	1245.5	1245.5	1244.6	1244.6	1243.0	1240.5	1238.8	1238.0	1238.0
22.5°	1239.7	1237.2	1233.0	1227.2	1223.9	1221.4	1220.6	1218.1	1217.3	1215.6
25°	1228.1	1221.4	1212.3	1202.4	1192.4	1187.4	1185.8	1182.5	1182.5	1182.5
27.5°	1214.0	1201.5	1189.1	1174.2	1159.2	1149.3	1142.6	1139.3	1137.7	1137.7
30°	1195.7	1180.0	1162.6	1143.5	1126.9	1108.7	1097.0	1090.4	1087.1	1087.9
32.5°	1179.1	1159.2	1139.3	1115.3	1092.9	1071.3	1051.4	1041.5	1037.3	1035.7
35°	1162.6	1140.2	1116.1	1090.4	1061.4	1029.9	1003.3	988.4	980.1	981.0
37.5°	1150.1	1123.6	1097.0	1065.5	1032.4	994.2	960.2	936.2	926.2	927.9
40°	1136.8	1107.0	1078.0	1041.5	1002.5	956.9	913.0	880.6	869.0	866.5
42.5°	1124.4	1089.6	1056.4	1017.4	968.5	917.1	863.2	825.1	807.6	805.2
45°	1108.7	1069.7	1034.0	989.2	935.3	871.5	808.5	758.7	740.5	733.0
47.5°	1087.9	1044.8	1005.0	953.6	894.7	822.6	743.8	682.4	659.2	653.4
50°	1057.2	1007.5	966.9	908.8	837.5	757.9	670.0	594.5	563.9	559.7
52.5°	1016.6	966.0	920.4	854.1	767.0	673.3	573.8	495.9	460.2	457.7
55°	967.7	913.0	863.2	788.6	686.6	578.0	474.3	375.6	340.8	336.7
57.5°	910.5	854.1	800.2	708.1	590.4	469.3	349.1	254.6	221.4	213.1
60°	847.5	789.4	728.9	616.9	461.0	332.5	211.4	135.2	110.3	102.0
62.5°	786.1	723.1	659.2	508.3	315.9	189.9	96.2	39.0	24.9	24.0
65°	713.9	654.2	588.7	409.6	199.8	85.4	28.2	0.8	0.0	0.0
67.5°	630.2	579.6	521.6	366.5	176.6	74.6	24.0	0.8	0.0	0.0
70°	540.6	500.8	449.4	315.1	151.7	63.0	20.7	0.0	0.0	0.0
72.5°	446.1	412.1	374.0	262.0	126.0	52.2	16.6	0.0	0.0	0.0
75°	349.9	328.4	294.4	207.3	97.8	39.8	12.4	0.0	0.0	0.0
77.5°	259.5	242.1	217.3	152.6	73.8	29.0	9.1	0.0	0.0	0.0
80°	175.0	161.7	147.6	103.7	49.8	19.1	5.8	0.0	0.0	0.0
82.5°	102.0	92.0	82.9	58.9	27.4	10.8	2.5	0.0	0.0	0.0
85°	41.5	38.1	36.5	24.9	10.8	3.3	0.8	0.0	0.0	0.0
87.5°	5.0	4.1	4.1	2.5	0.8	0.0	0.0	0.0	0.0	0.0
90°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
95°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
97.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
100°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
102.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
105°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
107.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
117.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
120°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
122.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
125°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
127.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
130°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
132.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
135°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
137.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
140°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
142.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
145°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
147.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8
150°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
165°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
167.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
170°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
172.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
175°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)