

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: P197806

Luminaire Tested: **TT-C3-LED-E1-WQ-CG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
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-CG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5052.6 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 45
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

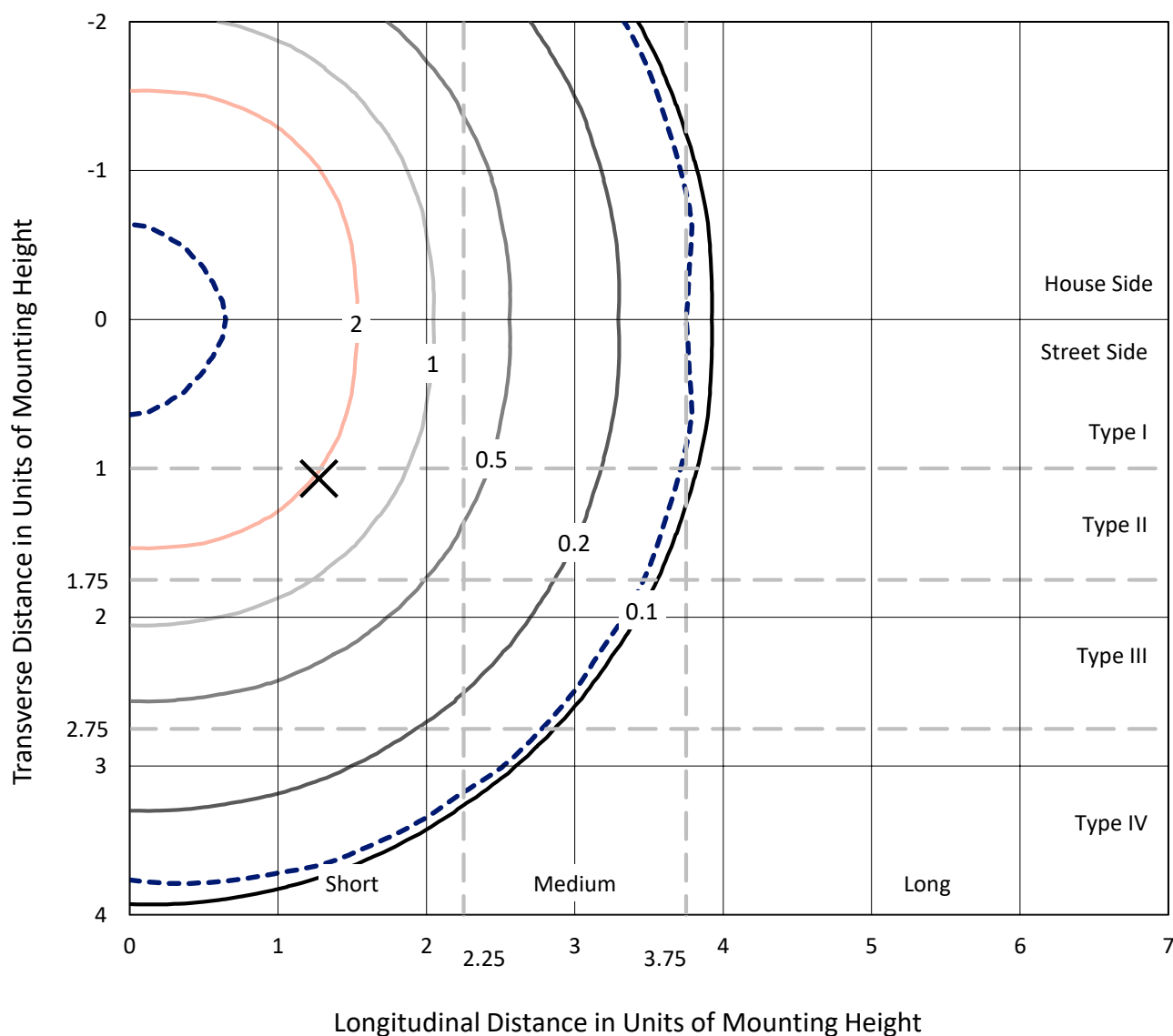


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

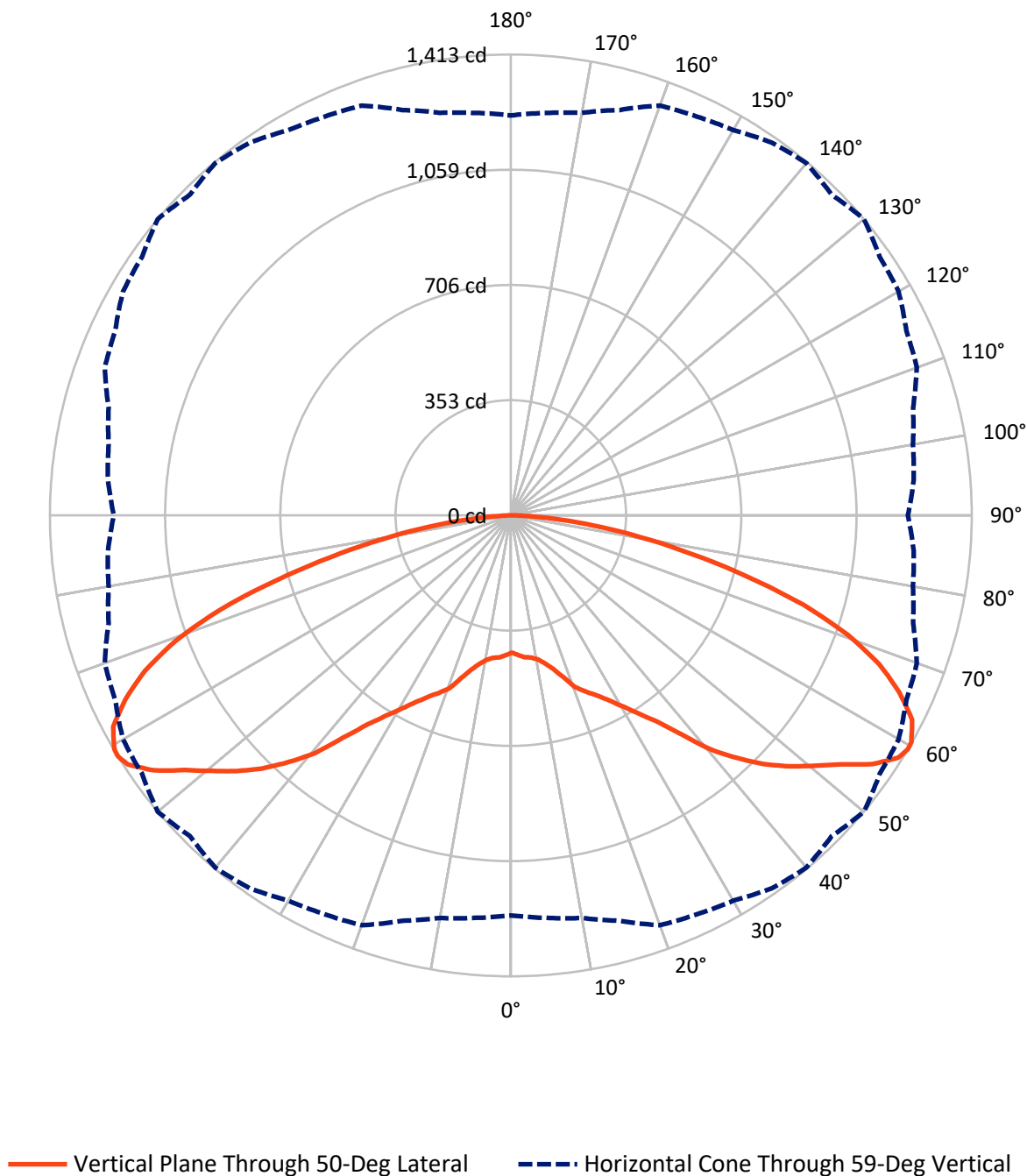


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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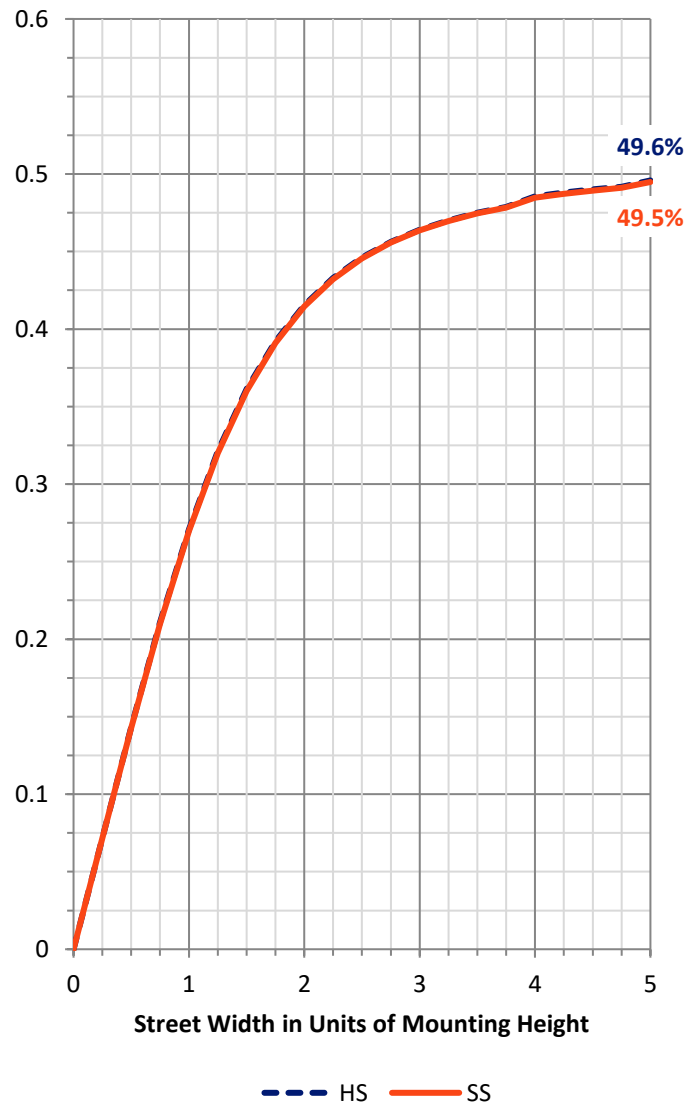
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2526.3	0.0	2526.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2526.3	0.0	2526.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	5052.6	0.0	5052.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	0.8
10°-20°	141.1	2.8
20°-30°	284.0	5.6
30°-40°	488.7	9.7
40°-50°	806.8	16.0
50°-60°	1136.1	22.5
60°-70°	1215.4	24.1
70°-80°	772.0	15.3
80°-90°	166.8	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5052.6	100.0
0°-180°	5052.6	100.0

Coefficient of Utilization



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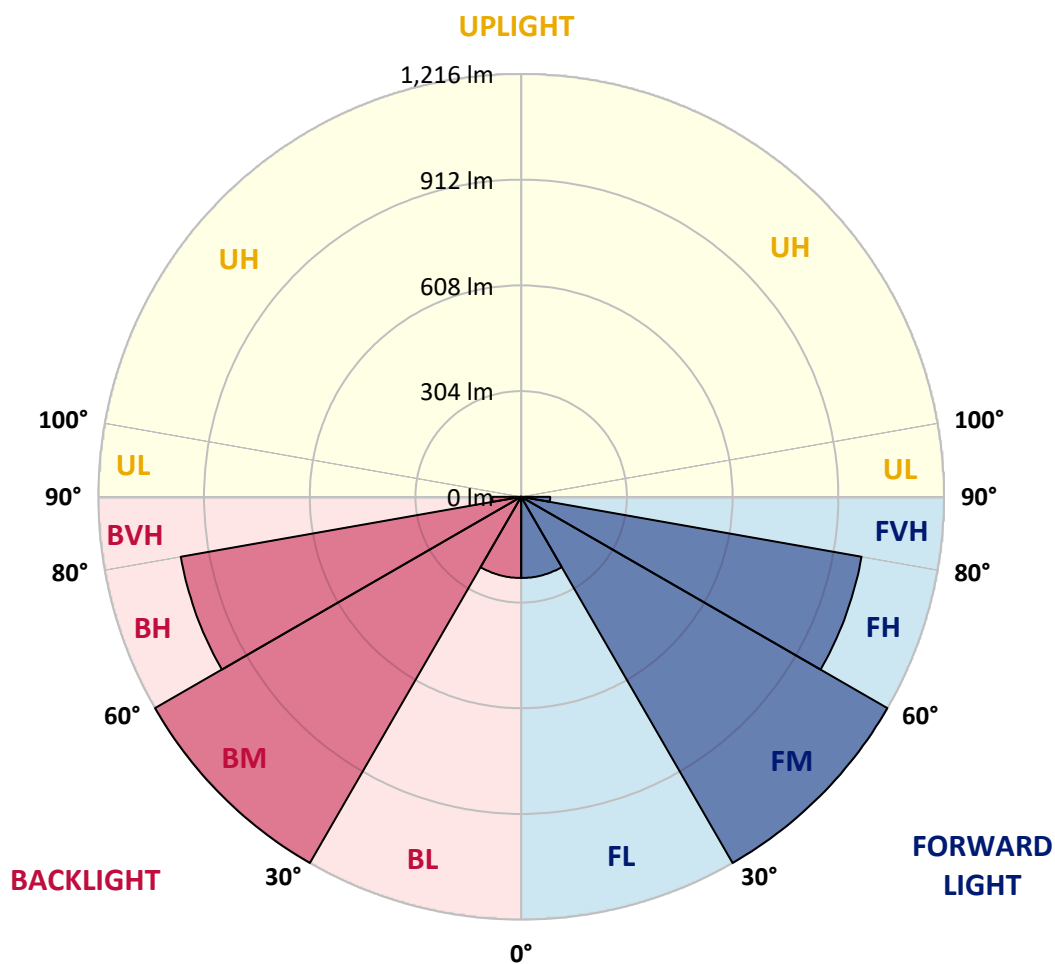
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.5	4.6			
FM	(30°-60°)	1215.8	24.1			
FH	(60°-80°)	993.7	19.7			G1/1800
FVH	(80°-90°)	83.4	1.7			G1/100
BL	(0°-30°)	233.5	4.6	B1/500		
BM	(30°-60°)	1215.8	24.1	B2/2500		
BH	(60°-80°)	993.7	19.7	B2/1000		G1/1800
BVH	(80°-90°)	83.4	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5
2.5°	429.5	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3
5°	431.7	431.7	432.8	432.8	433.9	433.9	433.9	435.0	435.0	435.0	436.2
7.5°	436.2	435.0	436.2	436.2	436.2	437.3	437.3	437.3	438.4	439.5	439.5
10°	450.7	449.6	450.7	450.7	450.7	448.5	448.5	449.6	448.5	448.5	448.5
12.5°	467.5	467.5	468.6	469.7	469.7	468.6	467.5	466.4	465.2	465.2	465.2
15°	483.1	484.3	485.4	487.6	488.7	488.7	489.8	491.0	489.8	489.8	488.7
17.5°	507.7	510.0	511.1	512.2	512.2	512.2	514.4	517.8	521.2	523.4	521.2
20°	549.1	550.2	552.5	552.5	551.4	552.5	554.7	555.8	558.1	560.3	561.4
22.5°	577.1	579.3	582.7	582.7	581.5	582.7	584.9	584.9	582.7	583.8	586.0
25°	600.6	601.7	603.9	605.0	606.2	611.7	616.2	615.1	610.6	611.7	610.6
27.5°	628.5	630.8	633.0	633.0	633.0	636.3	640.8	643.1	646.4	645.3	641.9
30°	665.4	668.8	669.9	668.8	671.0	674.4	673.3	675.5	681.1	686.7	680.0
32.5°	694.5	697.9	701.2	705.7	713.5	718.0	715.8	716.9	720.2	724.7	724.7
35°	738.1	743.7	745.9	747.1	754.9	763.8	770.6	776.1	775.0	771.7	777.3
37.5°	804.1	809.7	811.9	816.4	826.5	828.7	838.8	852.2	856.7	852.2	852.2
40°	874.6	880.2	891.3	901.4	917.1	920.4	932.7	938.3	949.5	950.6	943.9
42.5°	932.7	939.4	941.7	958.4	979.7	995.3	1008.8	1009.9	1017.7	1024.4	1016.6
45°	995.3	1000.9	1004.3	1019.9	1031.1	1050.1	1071.4	1080.3	1083.7	1082.6	1087.1
47.5°	1053.5	1061.3	1064.7	1077.0	1090.4	1106.1	1118.4	1144.1	1149.7	1138.5	1148.6
50°	1089.3	1098.2	1106.1	1132.9	1156.4	1168.7	1178.8	1200.0	1212.3	1202.2	1205.6
52.5°	1145.2	1147.4	1154.2	1165.3	1200.0	1241.4	1252.6	1259.3	1277.2	1282.8	1267.1
55°	1221.3	1229.1	1234.7	1249.2	1263.8	1292.8	1342.0	1351.0	1346.5	1373.4	1345.4
57.5°	1232.4	1247.0	1263.8	1296.2	1325.3	1334.2	1363.3	1398.0	1394.6	1398.0	1400.2
59°	1225.7	1238.0	1252.6	1286.1	1336.4	1348.7	1363.3	1394.6	1409.1	1390.1	1412.5
60°	1228.0	1236.9	1244.7	1271.6	1325.3	1353.2	1362.2	1381.2	1409.1	1383.4	1410.3
62.5°	1219.0	1230.2	1239.1	1254.8	1280.5	1319.7	1354.3	1345.4	1385.7	1365.5	1380.1
65°	1170.9	1183.2	1201.1	1223.5	1253.7	1264.9	1299.5	1318.6	1309.6	1332.0	1308.5
67.5°	1090.4	1101.6	1112.8	1139.6	1173.2	1187.7	1196.7	1231.3	1219.0	1244.7	1217.9
70°	983.0	995.3	1011.0	1025.5	1055.7	1068.0	1078.1	1093.8	1098.2	1098.2	1096.0
72.5°	854.4	864.5	874.6	889.1	907.0	918.2	922.7	926.0	943.9	937.2	938.3
75°	709.0	719.1	723.6	729.2	741.5	740.4	744.8	742.6	753.8	749.3	747.1
77.5°	554.7	558.1	570.4	570.4	567.0	572.6	567.0	563.7	561.4	563.7	563.7
80°	384.7	394.8	402.6	408.2	410.4	408.2	409.3	404.8	404.8	401.5	402.6
82.5°	237.1	247.2	250.5	256.1	257.2	257.2	257.2	253.9	255.0	251.6	253.9
85°	116.3	116.3	120.8	126.4	127.5	129.7	129.7	129.7	129.7	129.7	130.8
87.5°	29.1	29.1	31.3	34.7	34.7	35.8	36.9	38.0	38.0	39.1	39.1
90°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5
2.5°	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3
5°	436.2	435.0	435.0	433.9	433.9	432.8	432.8	432.8
7.5°	440.6	440.6	439.5	438.4	437.3	437.3	438.4	438.4
10°	449.6	451.8	452.9	452.9	451.8	451.8	450.7	450.7
12.5°	464.1	466.4	468.6	470.8	470.8	469.7	467.5	466.4
15°	486.5	486.5	487.6	488.7	488.7	486.5	482.0	482.0
17.5°	516.7	514.4	511.1	512.2	513.3	512.2	507.7	510.0
20°	558.1	553.6	551.4	549.1	553.6	553.6	546.9	546.9
22.5°	588.3	584.9	579.3	578.2	581.5	583.8	578.2	574.8
25°	614.0	615.1	608.4	605.0	606.2	607.3	599.4	600.6
27.5°	641.9	643.1	639.7	634.1	631.9	635.2	629.6	627.4
30°	675.5	674.4	676.6	669.9	664.3	667.7	667.7	662.1
32.5°	719.1	715.8	716.9	709.0	702.3	701.2	696.7	690.0
35°	778.4	769.4	762.7	758.3	745.9	743.7	743.7	735.9
37.5°	855.5	842.1	829.8	829.8	810.8	805.2	808.6	798.5
40°	941.7	937.2	918.2	914.8	894.7	881.3	881.3	869.0
42.5°	1004.3	1009.9	987.5	974.1	960.7	939.4	941.7	926.0
45°	1072.5	1069.2	1050.1	1026.7	1022.2	999.8	1002.1	986.4
47.5°	1137.4	1117.2	1108.3	1084.8	1074.7	1049.0	1056.9	1044.6
50°	1200.0	1177.6	1168.7	1140.7	1127.3	1099.4	1100.5	1078.1
52.5°	1264.9	1244.7	1231.3	1195.5	1172.0	1151.9	1147.4	1137.4
55°	1348.7	1327.5	1295.1	1261.5	1243.6	1214.5	1217.9	1202.2
57.5°	1381.2	1367.8	1333.1	1313.0	1279.4	1250.3	1243.6	1215.7
59°	1380.1	1372.2	1337.6	1324.1	1276.1	1251.5	1239.1	1216.8
60°	1372.2	1370.0	1335.3	1318.6	1268.2	1245.9	1234.7	1220.1
62.5°	1348.7	1347.6	1308.5	1288.4	1247.0	1229.1	1222.4	1203.4
65°	1314.1	1295.1	1264.9	1251.5	1209.0	1195.5	1176.5	1157.5
67.5°	1231.3	1188.8	1184.3	1167.6	1130.7	1113.9	1101.6	1083.7
70°	1094.9	1066.9	1066.9	1045.7	1019.9	1012.1	995.3	975.2
72.5°	924.9	918.2	921.5	896.9	884.6	880.2	865.6	847.7
75°	739.2	740.4	737.0	731.4	728.1	729.2	713.5	705.7
77.5°	560.3	570.4	568.1	560.3	568.1	567.0	553.6	550.2
80°	399.3	403.7	406.0	401.5	406.0	402.6	391.4	390.3
82.5°	251.6	252.8	255.0	250.5	251.6	250.5	242.7	242.7
85°	128.6	133.1	127.5	123.0	123.0	118.5	116.3	117.4
87.5°	38.0	40.3	35.8	35.8	33.6	31.3	30.2	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)