

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: P197615

Luminaire Tested: **TT-C3-LED-E1-MQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115333)
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-MQ-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5796.8 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

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

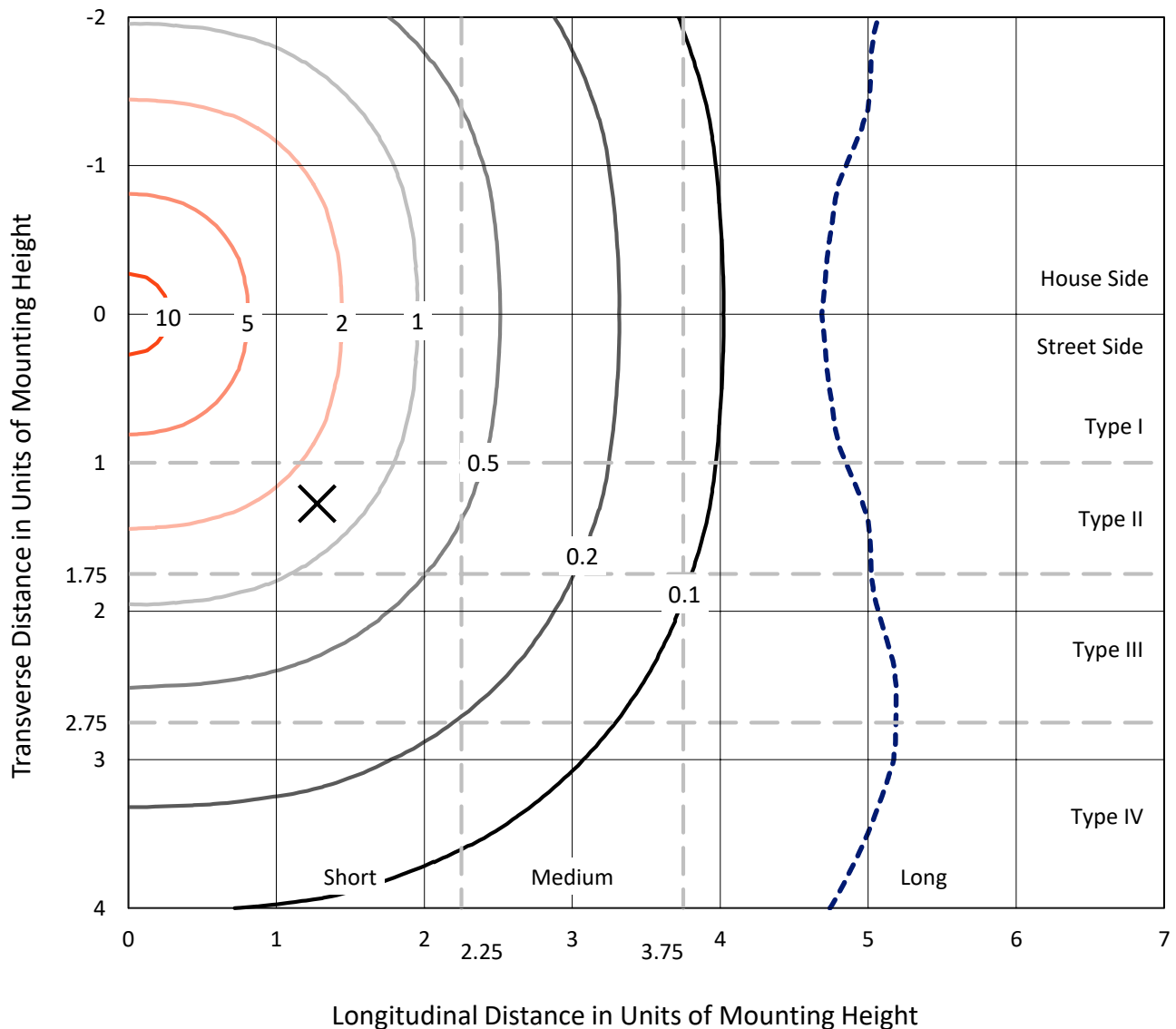


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

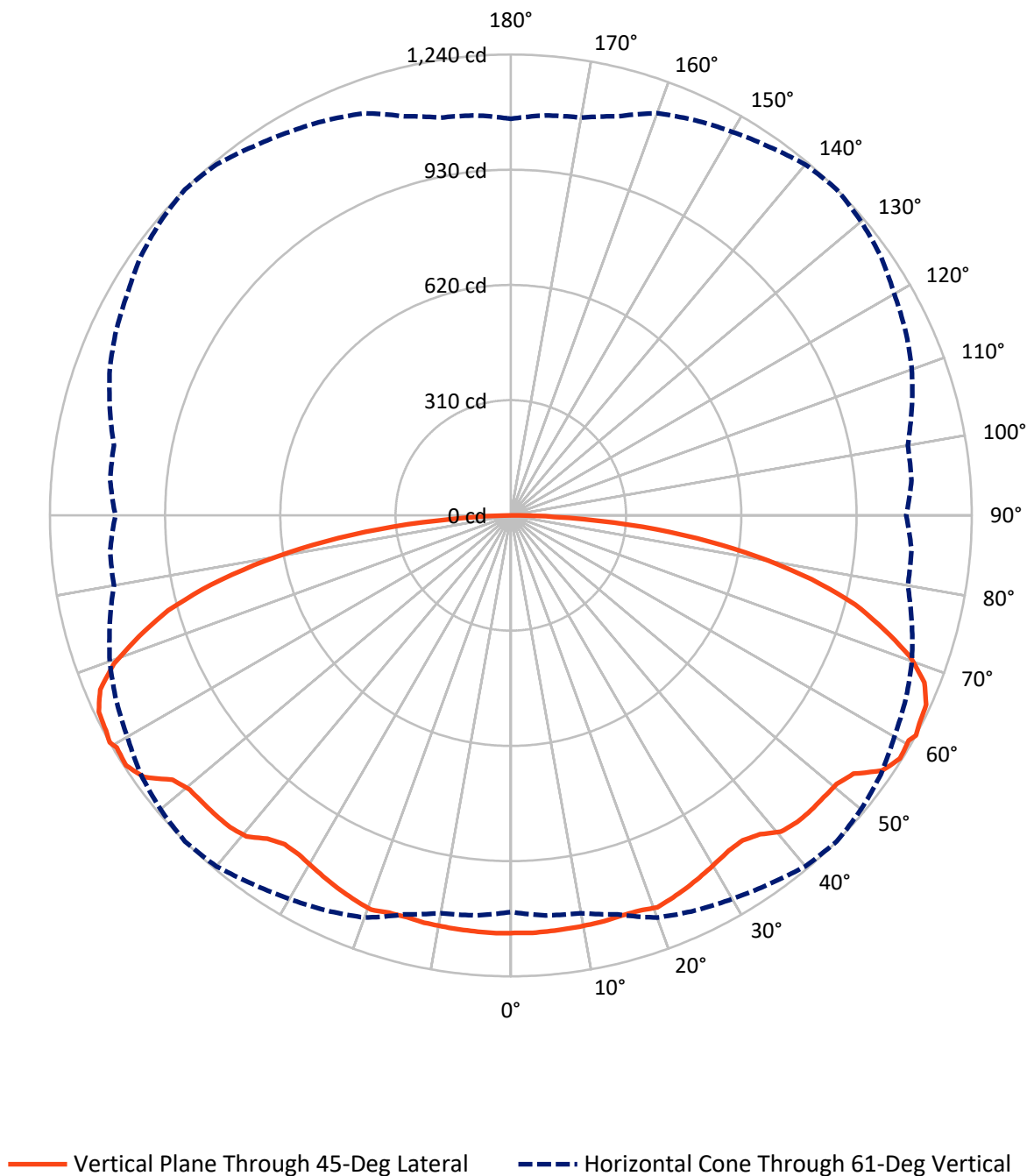


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2898.4	0.0	2898.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2898.4	0.0	2898.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5796.8	0.0	5796.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	1.8
10°-20°	316.8	5.5
20°-30°	509.7	8.8
30°-40°	675.2	11.6
40°-50°	852.6	14.7
50°-60°	1021.6	17.6
60°-70°	1117.1	19.3
70°-80°	894.2	15.4
80°-90°	302.5	5.2
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°	5796.8	100.0
0°-180°	5796.8	100.0

Coefficient of Utilization



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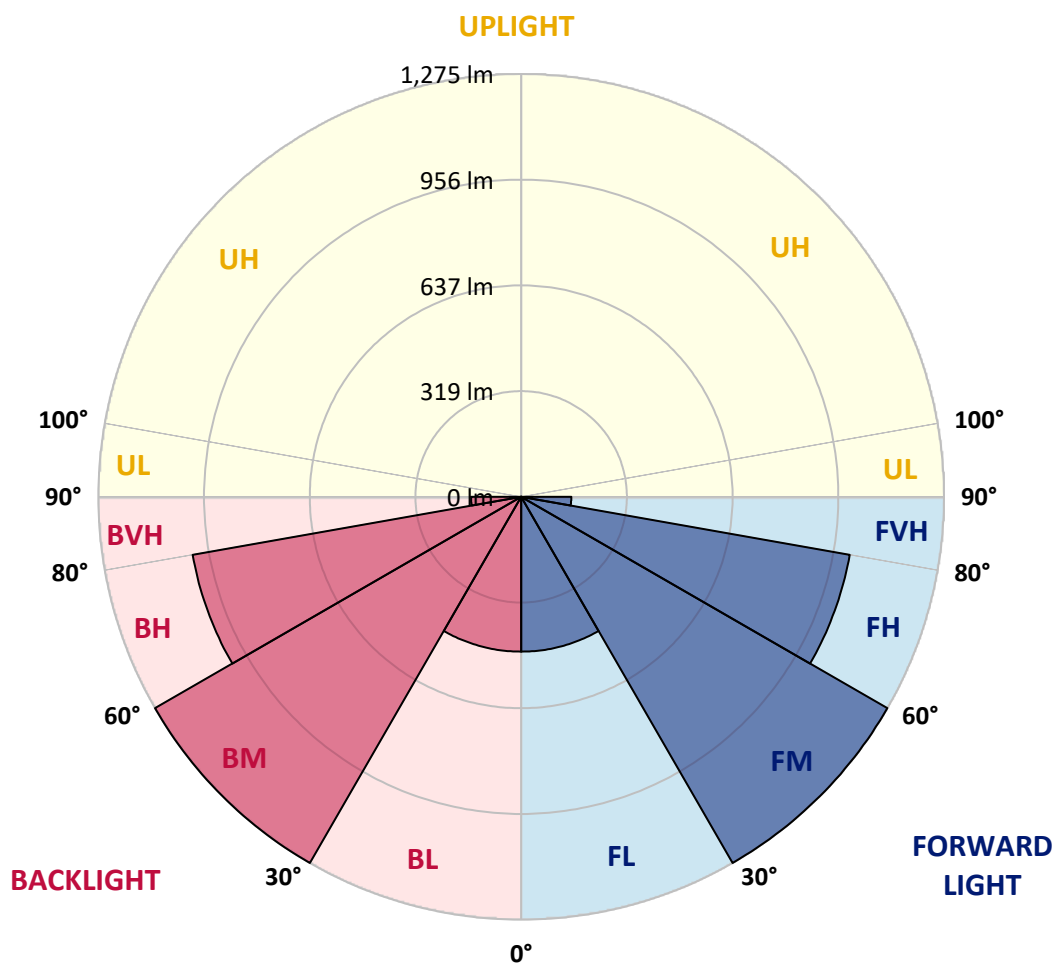
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.8	8.1			
FM	(30°-60°)	1274.7	22.0			
FH	(60°-80°)	1005.6	17.3			G1/1800
FVH	(80°-90°)	151.3	2.6			G2/225
BL	(0°-30°)	466.8	8.1	B1/500		
BM	(30°-60°)	1274.7	22.0	B2/2500		
BH	(60°-80°)	1005.6	17.3	B3/2500		G1/1800
BVH	(80°-90°)	151.3	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1124.2	1123.1	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2
5°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
7.5°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1123.1	1122.0	1123.1
10°	1119.9	1119.9	1119.9	1119.9	1120.9	1120.9	1120.9	1120.9	1120.9	1120.9	1120.9
12.5°	1117.7	1117.7	1117.7	1117.7	1118.8	1118.8	1118.8	1118.8	1119.9	1119.9	1118.8
15°	1115.5	1114.5	1114.5	1115.5	1115.5	1116.6	1116.6	1116.6	1117.7	1116.6	1116.6
17.5°	1113.4	1112.3	1113.4	1114.5	1114.5	1115.5	1116.6	1116.6	1117.7	1117.7	1117.7
20°	1116.6	1115.5	1116.6	1117.7	1118.8	1120.9	1122.0	1123.1	1124.2	1125.2	1125.2
22.5°	1110.2	1109.1	1110.2	1110.2	1111.2	1112.3	1114.5	1115.5	1116.6	1116.6	1116.6
25°	1100.5	1100.5	1101.5	1101.5	1102.6	1103.7	1104.8	1105.8	1105.8	1106.9	1105.8
27.5°	1089.6	1089.6	1090.8	1090.8	1092.9	1092.9	1094.0	1095.1	1096.1	1096.1	1096.1
30°	1076.6	1076.6	1077.7	1078.8	1081.0	1082.0	1083.1	1084.2	1085.3	1085.3	1085.3
32.5°	1064.8	1063.7	1064.8	1066.9	1070.2	1072.3	1074.5	1075.6	1075.6	1075.6	1076.6
35°	1055.1	1056.2	1058.3	1060.5	1064.8	1066.9	1069.1	1072.3	1073.4	1073.4	1073.4
37.5°	1057.2	1058.3	1061.6	1065.9	1071.3	1077.7	1082.0	1086.3	1089.6	1088.5	1087.4
40°	1071.3	1073.4	1078.8	1085.3	1094.0	1102.6	1109.1	1114.5	1117.7	1118.8	1117.7
42.5°	1073.4	1075.6	1079.9	1089.6	1099.4	1109.1	1117.7	1123.1	1127.4	1128.5	1127.4
45°	1072.3	1072.3	1078.8	1089.6	1099.4	1109.1	1119.9	1127.4	1131.7	1131.7	1131.7
47.5°	1064.8	1068.0	1072.3	1083.1	1096.1	1105.8	1116.6	1124.2	1129.5	1132.8	1129.5
50°	1064.8	1064.8	1072.3	1079.9	1091.7	1109.1	1124.2	1131.7	1137.1	1136.0	1137.1
52.5°	1062.6	1069.1	1073.4	1084.2	1105.8	1123.1	1134.9	1145.8	1153.4	1154.4	1152.3
55°	1082.0	1083.1	1092.9	1113.4	1133.9	1153.4	1174.9	1191.2	1204.1	1211.7	1200.9
57.5°	1097.2	1091.7	1111.2	1128.5	1152.3	1181.4	1213.8	1226.7	1236.4	1234.3	1237.5
60°	1076.6	1084.2	1098.3	1116.6	1154.4	1183.5	1200.9	1214.9	1226.7	1230.0	1225.7
61°	1066.9	1079.9	1086.3	1111.2	1151.2	1172.8	1191.2	1210.6	1232.1	1239.8	1230.0
62.5°	1050.8	1071.3	1069.1	1109.1	1133.9	1158.7	1193.3	1216.0	1231.1	1233.2	1231.1
65°	1051.9	1048.6	1073.4	1102.6	1127.4	1171.7	1200.9	1214.9	1223.5	1227.8	1225.7
67.5°	1017.3	1006.5	1036.7	1057.2	1099.4	1133.9	1162.0	1182.5	1195.5	1199.8	1194.4
70°	937.3	944.9	966.5	997.9	1032.4	1074.5	1100.5	1127.4	1138.2	1139.2	1139.2
72.5°	860.7	865.0	886.6	915.8	955.7	992.4	1018.3	1039.9	1049.7	1050.8	1052.9
75°	759.2	763.5	788.3	815.3	855.3	886.6	905.0	930.9	944.9	956.8	947.0
77.5°	641.4	649.0	668.5	697.6	734.3	751.7	784.0	814.3	824.0	827.2	824.0
80°	508.6	518.4	535.6	574.5	590.7	618.8	650.1	663.1	671.7	673.9	674.9
82.5°	366.1	373.7	392.0	419.0	437.4	460.0	481.6	497.8	507.5	505.4	504.3
85°	215.9	218.2	237.6	255.9	270.0	284.0	301.3	313.1	315.4	319.7	318.6
87.5°	64.8	65.8	74.6	84.3	90.7	97.2	108.0	122.1	125.3	116.6	117.7
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°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1123.1	1124.2
5°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
7.5°	1123.1	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
10°	1120.9	1120.9	1120.9	1120.9	1119.9	1119.9	1119.9	1119.9
12.5°	1118.8	1118.8	1118.8	1118.8	1117.7	1117.7	1117.7	1117.7
15°	1116.6	1116.6	1116.6	1116.6	1115.5	1115.5	1115.5	1115.5
17.5°	1117.7	1116.6	1115.5	1115.5	1114.5	1113.4	1113.4	1113.4
20°	1124.2	1123.1	1120.9	1118.8	1117.7	1116.6	1116.6	1116.6
22.5°	1115.5	1114.5	1112.3	1111.2	1111.2	1110.2	1109.1	1109.1
25°	1105.8	1103.7	1103.7	1102.6	1102.6	1100.5	1100.5	1099.4
27.5°	1095.1	1094.0	1092.9	1091.7	1091.7	1090.8	1089.6	1088.5
30°	1085.3	1083.1	1081.0	1079.9	1078.8	1077.7	1077.7	1077.7
32.5°	1075.6	1073.4	1072.3	1069.1	1066.9	1065.9	1064.8	1064.8
35°	1072.3	1069.1	1066.9	1063.7	1060.5	1058.3	1057.2	1055.1
37.5°	1085.3	1081.0	1077.7	1072.3	1064.8	1061.6	1058.3	1057.2
40°	1113.4	1109.1	1102.6	1094.0	1085.3	1078.8	1073.4	1071.3
42.5°	1123.1	1117.7	1109.1	1100.5	1089.6	1079.9	1075.6	1073.4
45°	1126.3	1120.9	1109.1	1098.3	1088.5	1079.9	1073.4	1071.3
47.5°	1123.1	1115.5	1104.8	1096.1	1082.0	1071.3	1066.9	1063.7
50°	1130.6	1124.2	1110.2	1090.8	1078.8	1072.3	1064.8	1063.7
52.5°	1145.8	1133.9	1120.9	1106.9	1084.2	1071.3	1066.9	1061.6
55°	1191.2	1174.9	1152.3	1129.5	1115.5	1095.1	1082.0	1082.0
57.5°	1225.7	1212.7	1183.5	1153.4	1127.4	1112.3	1092.9	1094.0
60°	1216.0	1198.7	1184.6	1154.4	1117.7	1097.2	1089.6	1075.6
61°	1214.9	1191.2	1171.7	1148.0	1116.6	1084.2	1082.0	1063.7
62.5°	1217.0	1195.5	1158.7	1133.9	1110.2	1068.0	1066.9	1049.7
65°	1214.9	1194.4	1176.0	1129.5	1097.2	1079.9	1043.1	1057.2
67.5°	1181.4	1163.1	1129.5	1103.7	1054.0	1032.4	1011.9	1011.9
70°	1128.5	1101.5	1069.1	1036.7	1003.3	966.5	948.2	937.3
72.5°	1039.9	1017.3	991.3	956.8	915.8	882.3	865.0	857.5
75°	928.7	903.9	881.2	855.3	812.1	784.0	765.7	760.3
77.5°	812.1	790.5	750.5	725.7	696.5	664.2	647.9	641.4
80°	663.1	651.1	623.1	583.1	569.1	529.2	518.4	508.6
82.5°	497.8	484.9	458.9	430.9	413.7	390.9	371.5	369.4
85°	313.1	304.5	288.3	267.9	246.2	233.3	215.9	220.2
87.5°	116.6	111.2	101.5	88.6	78.9	70.1	61.5	64.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)