

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: P197667

Luminaire Tested: **TT-C4-LED-E1-5MQ-PM-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115378)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-5MQ-PM-CG-LWR-LW-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5820.1 lumens
Efficiency: N/A
Efficacy: 100.3 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): 58
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

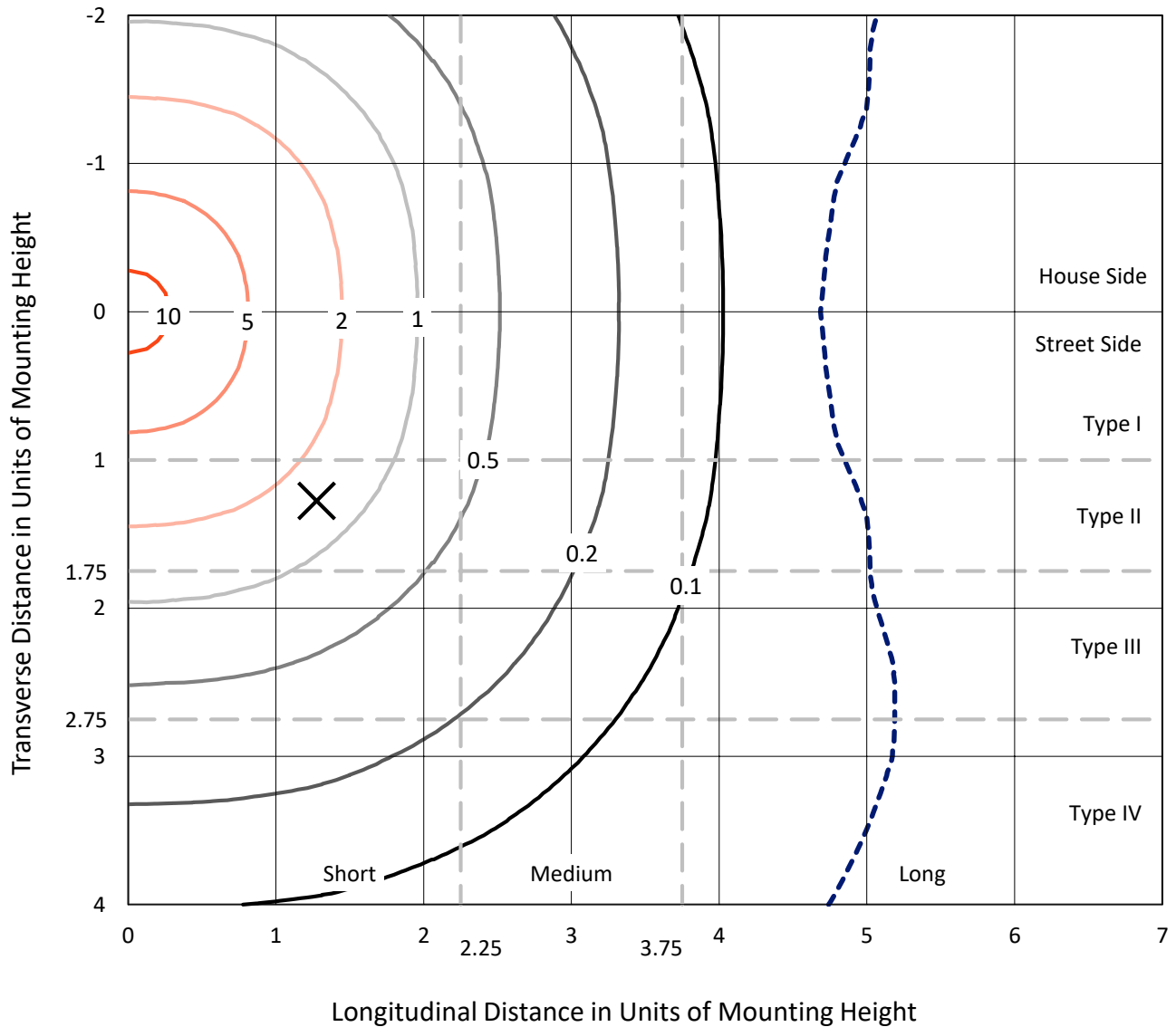


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

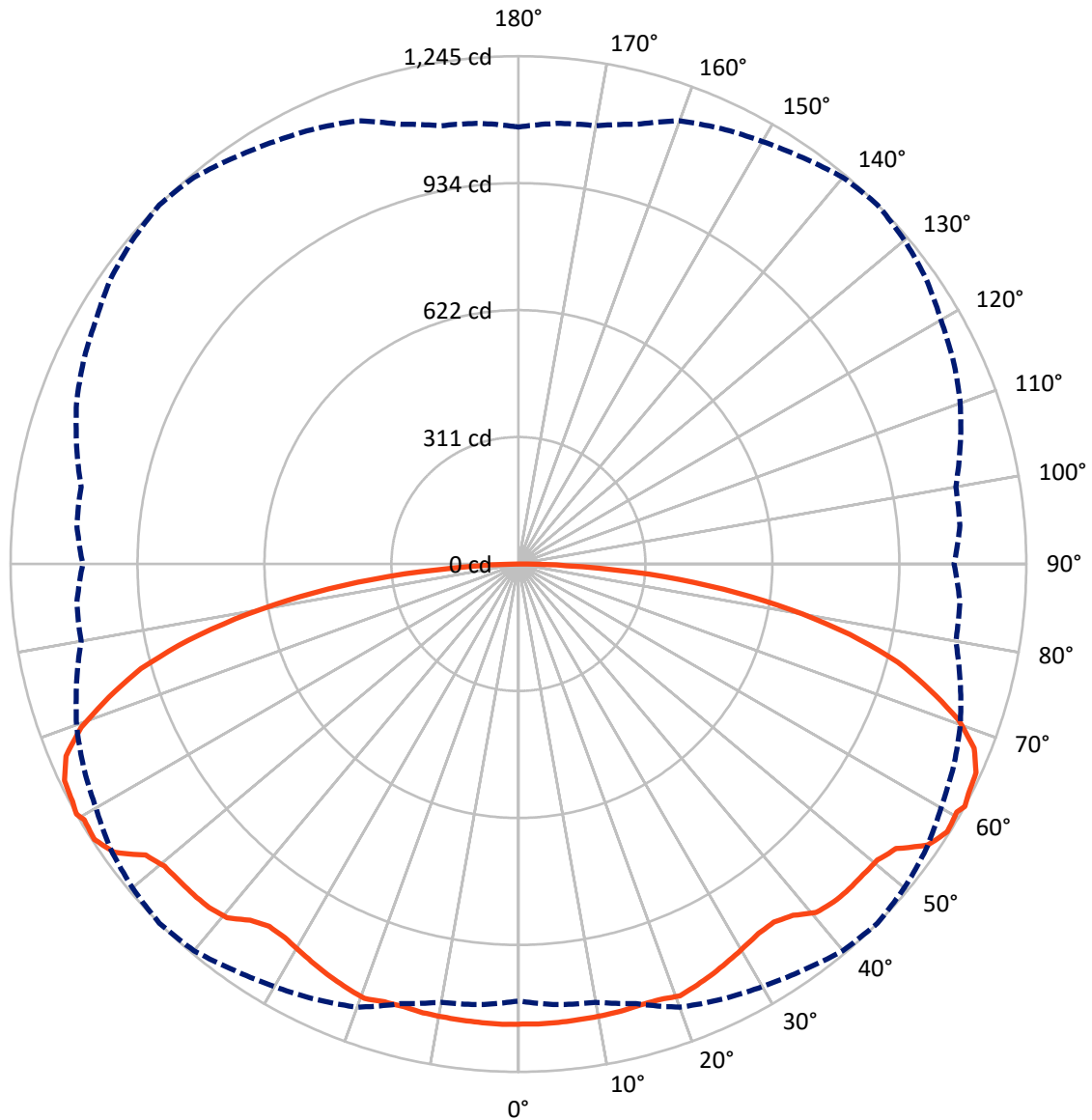


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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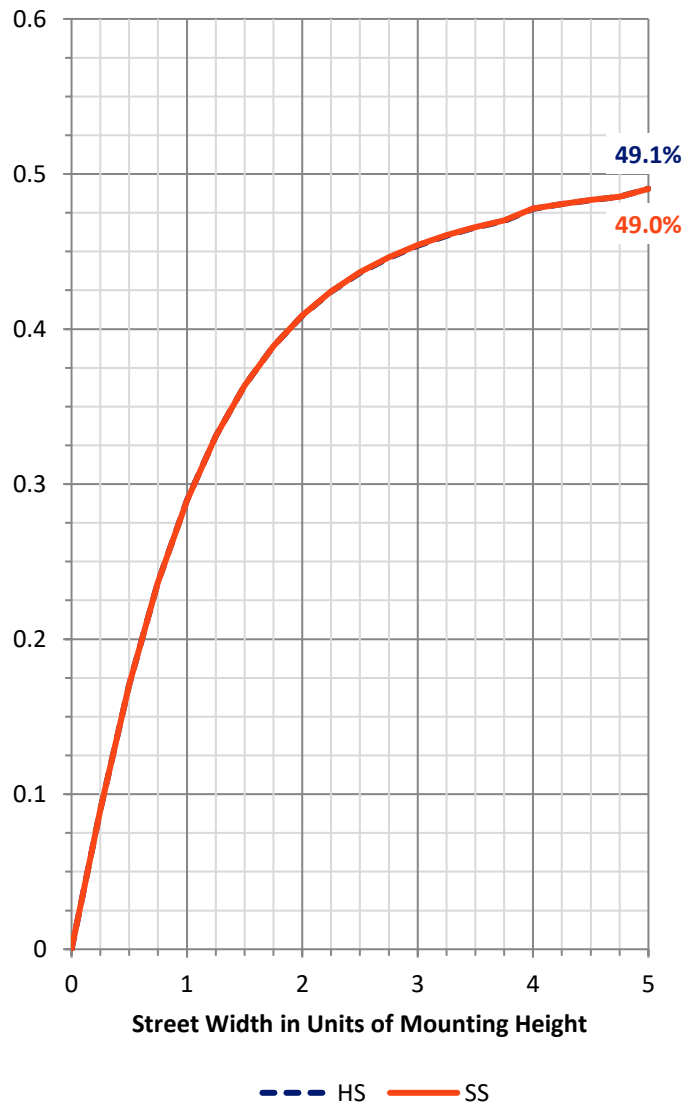
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2910.1	0.0	2910.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2910.1	0.0	2910.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5820.1	0.0	5820.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.8
10°-20°	318.0	5.5
20°-30°	511.7	8.8
30°-40°	677.9	11.6
40°-50°	856.1	14.7
50°-60°	1025.7	17.6
60°-70°	1121.6	19.3
70°-80°	897.8	15.4
80°-90°	303.8	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°	5820.1	100.0
0°-180°	5820.1	100.0



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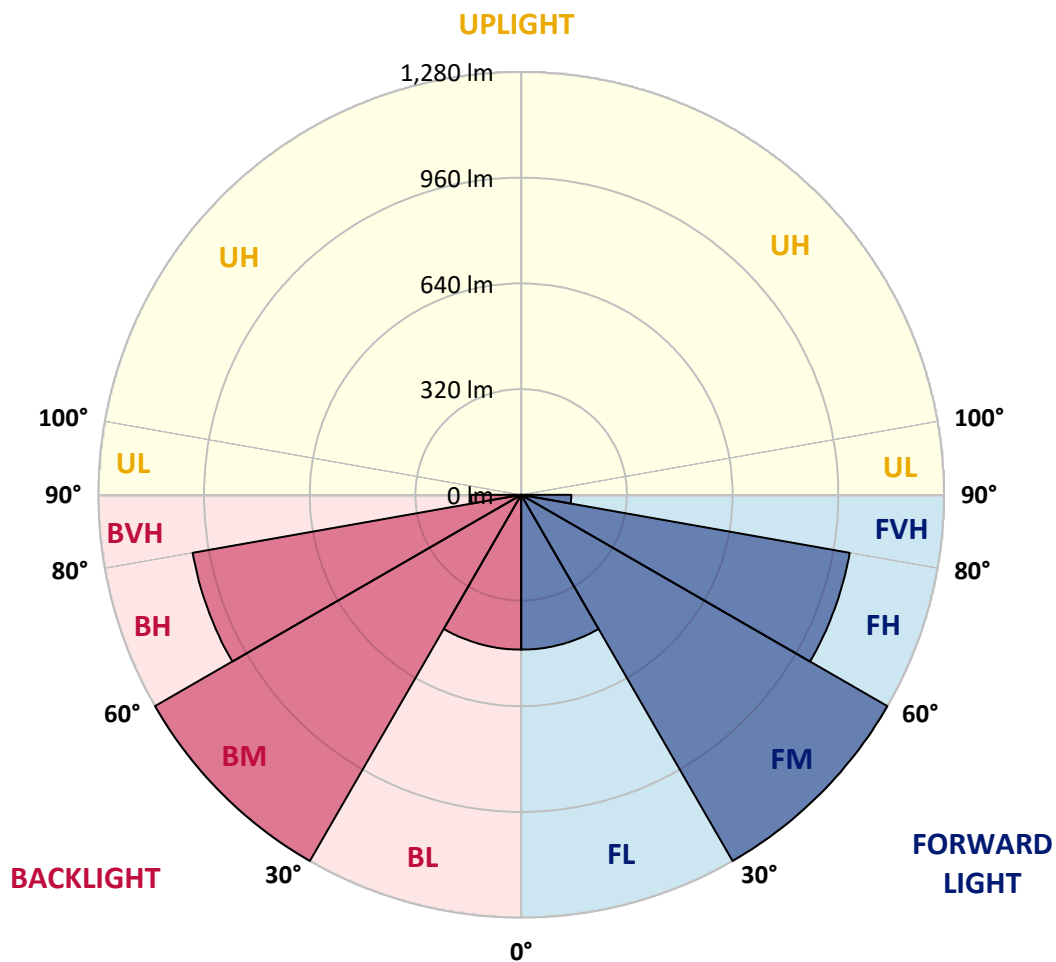
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.7	8.1			
FM (30°-60°)	1279.8	22.0			
FH (60°-80°)	1009.7	17.3			G1/1800
FVH (80°-90°)	151.9	2.6			G2/225
BL (0°-30°)	468.7	8.1	B1/500		
BM (30°-60°)	1279.8	22.0	B2/2500		
BH (60°-80°)	1009.7	17.3	B3/2500		G1/1800
BVH (80°-90°)	151.9	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°	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7
2.5°	1128.6	1127.7	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6
5°	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7
7.5°	1126.6	1126.6	1126.6	1126.6	1126.6	1126.6	1126.6	1126.6	1127.7	1126.6	1127.7
10°	1124.4	1124.4	1124.4	1124.4	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5
12.5°	1122.2	1122.2	1122.2	1122.2	1123.3	1123.3	1123.3	1123.3	1124.4	1124.4	1123.3
15°	1120.0	1118.9	1118.9	1120.0	1120.0	1121.1	1121.1	1121.1	1122.2	1121.1	1121.1
17.5°	1117.8	1116.7	1117.8	1118.9	1118.9	1120.0	1121.1	1121.1	1122.2	1122.2	1122.2
20°	1121.1	1120.0	1121.1	1122.2	1123.3	1125.5	1126.6	1127.7	1128.6	1129.7	1129.7
22.5°	1114.5	1113.5	1114.5	1114.5	1115.6	1116.7	1118.9	1120.0	1121.1	1121.1	1121.1
25°	1104.8	1104.8	1105.9	1105.9	1107.0	1108.1	1109.2	1110.3	1110.3	1111.4	1110.3
27.5°	1094.0	1094.0	1095.1	1095.1	1097.3	1097.3	1098.4	1099.4	1100.5	1100.5	1100.5
30°	1081.0	1081.0	1082.1	1083.2	1085.3	1086.4	1087.5	1088.6	1089.7	1089.7	1089.7
32.5°	1069.1	1068.0	1069.1	1071.2	1074.5	1076.7	1078.8	1079.9	1079.9	1079.9	1081.0
35°	1059.3	1060.4	1062.6	1064.8	1069.1	1071.2	1073.4	1076.7	1077.8	1077.8	1077.8
37.5°	1061.5	1062.6	1065.9	1070.1	1075.6	1082.1	1086.4	1090.7	1094.0	1092.9	1091.8
40°	1075.6	1077.8	1083.2	1089.7	1098.4	1107.0	1113.5	1118.9	1122.2	1123.3	1122.2
42.5°	1077.8	1079.9	1084.2	1094.0	1103.7	1113.5	1122.2	1127.7	1131.9	1133.0	1131.9
45°	1076.7	1076.7	1083.2	1094.0	1103.7	1113.5	1124.4	1131.9	1136.3	1136.3	1136.3
47.5°	1069.1	1072.3	1076.7	1087.5	1100.5	1110.3	1121.1	1128.6	1134.1	1137.4	1134.1
50°	1069.1	1069.1	1076.7	1084.2	1096.2	1113.5	1128.6	1136.3	1141.8	1140.7	1141.8
52.5°	1066.9	1073.4	1077.8	1088.6	1110.3	1127.7	1139.6	1150.4	1157.9	1159.0	1157.0
55°	1086.4	1087.5	1097.3	1117.8	1138.5	1157.9	1179.7	1195.9	1208.9	1216.6	1205.6
57.5°	1101.6	1096.2	1115.6	1133.0	1157.0	1186.2	1218.6	1231.6	1241.5	1239.3	1242.6
60°	1081.0	1088.6	1102.6	1121.1	1159.0	1188.3	1205.6	1219.7	1231.6	1234.9	1230.7
61°	1071.2	1084.2	1090.7	1115.6	1155.9	1177.5	1195.9	1215.5	1237.1	1244.8	1234.9
62.5°	1054.9	1075.6	1073.4	1113.5	1138.5	1163.4	1198.1	1220.8	1236.0	1238.2	1236.0
65°	1056.0	1052.9	1077.8	1107.0	1131.9	1176.4	1205.6	1219.7	1228.5	1232.7	1230.7
67.5°	1021.4	1010.5	1040.8	1061.5	1103.7	1138.5	1166.7	1187.2	1200.3	1204.6	1199.2
70°	941.1	948.8	970.4	1001.8	1036.6	1078.8	1104.8	1131.9	1142.9	1143.8	1143.8
72.5°	864.1	868.5	890.2	919.5	959.6	996.4	1022.5	1044.1	1054.0	1054.9	1057.1
75°	762.2	766.6	791.5	818.5	858.8	890.2	908.5	934.7	948.8	960.7	950.9
77.5°	644.0	651.7	671.1	700.5	737.3	754.7	787.2	817.6	827.3	830.6	827.3
80°	510.6	520.5	537.9	576.8	593.1	621.3	652.8	665.7	674.4	676.6	677.6
82.5°	367.5	375.2	393.5	420.6	439.1	461.9	483.5	499.8	509.5	507.5	506.4
85°	216.8	219.0	238.6	257.0	271.1	285.2	302.4	314.5	316.7	320.9	319.8
87.5°	65.1	66.2	74.8	84.5	91.1	97.5	108.5	122.6	125.7	117.1	118.2
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°	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7
2.5°	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1127.7	1128.6
5°	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7	1127.7
7.5°	1127.7	1126.6	1126.6	1126.6	1126.6	1126.6	1126.6	1126.6
10°	1125.5	1125.5	1125.5	1125.5	1124.4	1124.4	1124.4	1124.4
12.5°	1123.3	1123.3	1123.3	1123.3	1122.2	1122.2	1122.2	1122.2
15°	1121.1	1121.1	1121.1	1121.1	1120.0	1120.0	1120.0	1120.0
17.5°	1122.2	1121.1	1120.0	1120.0	1118.9	1117.8	1117.8	1117.8
20°	1128.6	1127.7	1125.5	1123.3	1122.2	1121.1	1121.1	1121.1
22.5°	1120.0	1118.9	1116.7	1115.6	1115.6	1114.5	1113.5	1113.5
25°	1110.3	1108.1	1108.1	1107.0	1107.0	1104.8	1104.8	1103.7
27.5°	1099.4	1098.4	1097.3	1096.2	1096.2	1095.1	1094.0	1092.9
30°	1089.7	1087.5	1085.3	1084.2	1083.2	1082.1	1082.1	1082.1
32.5°	1079.9	1077.8	1076.7	1073.4	1071.2	1070.1	1069.1	1069.1
35°	1076.7	1073.4	1071.2	1068.0	1064.8	1062.6	1061.5	1059.3
37.5°	1089.7	1085.3	1082.1	1076.7	1069.1	1065.9	1062.6	1061.5
40°	1117.8	1113.5	1107.0	1098.4	1089.7	1083.2	1077.8	1075.6
42.5°	1127.7	1122.2	1113.5	1104.8	1094.0	1084.2	1079.9	1077.8
45°	1130.8	1125.5	1113.5	1102.6	1092.9	1084.2	1077.8	1075.6
47.5°	1127.7	1120.0	1109.2	1100.5	1086.4	1075.6	1071.2	1068.0
50°	1135.2	1128.6	1114.5	1095.1	1083.2	1076.7	1069.1	1068.0
52.5°	1150.4	1138.5	1125.5	1111.4	1088.6	1075.6	1071.2	1065.9
55°	1195.9	1179.7	1157.0	1134.1	1120.0	1099.4	1086.4	1086.4
57.5°	1230.7	1217.5	1188.3	1157.9	1131.9	1116.7	1097.3	1098.4
60°	1220.8	1203.5	1189.4	1159.0	1122.2	1101.6	1094.0	1079.9
61°	1219.7	1195.9	1176.4	1152.6	1121.1	1088.6	1086.4	1068.0
62.5°	1221.9	1200.3	1163.4	1138.5	1114.5	1072.3	1071.2	1054.0
65°	1219.7	1199.2	1180.8	1134.1	1101.6	1084.2	1047.4	1061.5
67.5°	1186.2	1167.8	1134.1	1108.1	1058.2	1036.6	1015.9	1015.9
70°	1133.0	1105.9	1073.4	1040.8	1007.3	970.4	951.9	941.1
72.5°	1044.1	1021.4	995.4	960.7	919.5	885.8	868.5	860.9
75°	932.5	907.5	884.7	858.8	815.4	787.2	768.7	763.3
77.5°	815.4	793.6	753.6	728.7	699.4	666.8	650.6	644.0
80°	665.7	653.8	625.7	585.5	571.4	531.3	520.5	510.6
82.5°	499.8	486.8	460.8	432.7	415.3	392.4	373.0	370.8
85°	314.5	305.7	289.4	268.9	247.2	234.2	216.8	221.2
87.5°	117.1	111.6	101.9	88.9	79.2	70.4	61.8	65.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)