

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: P197666

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197666
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
Description: TOPTIER LED AREA/SITE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5875.7 lumens
Efficiency: N/A
Efficacy: 101.3 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

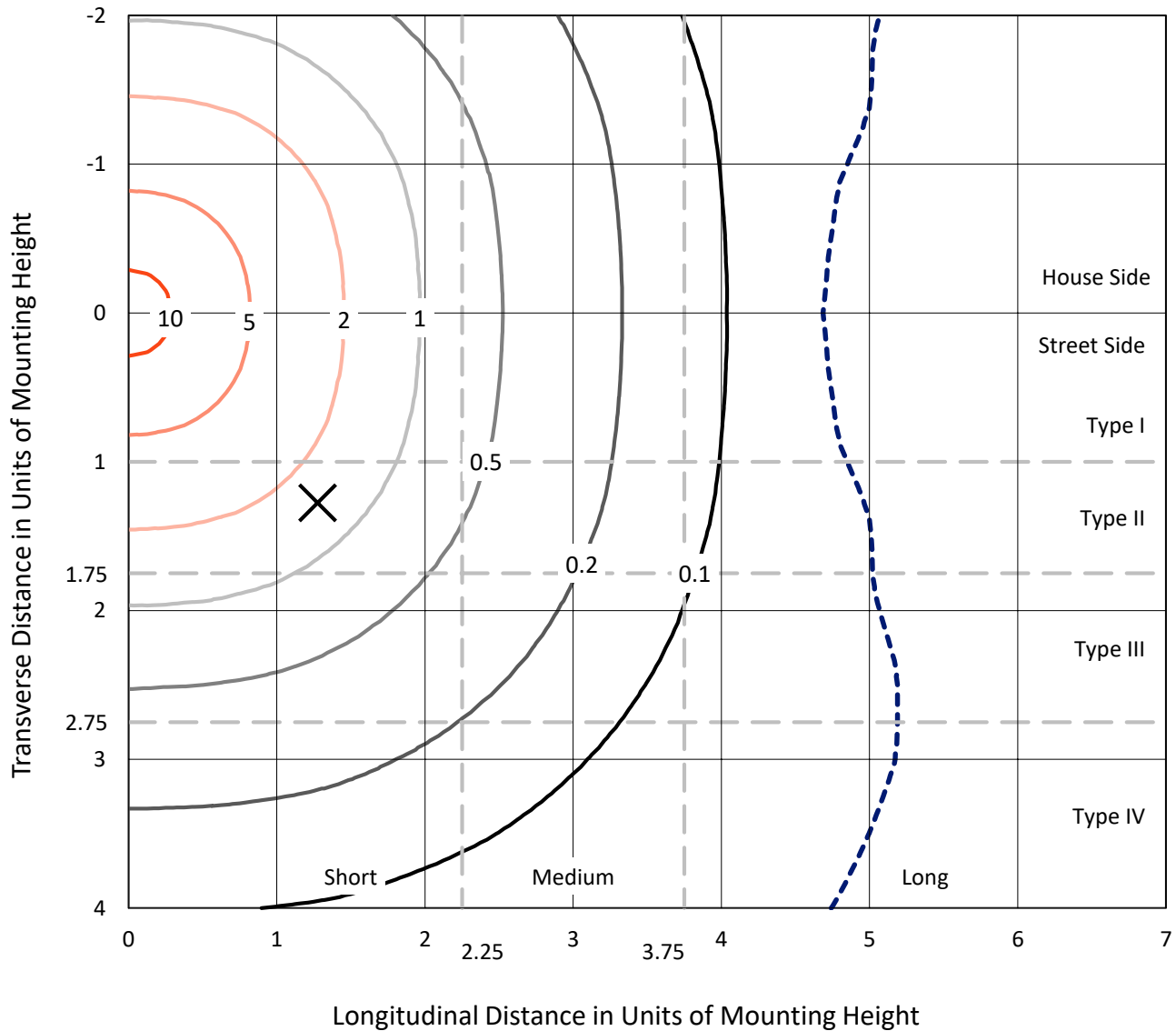


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

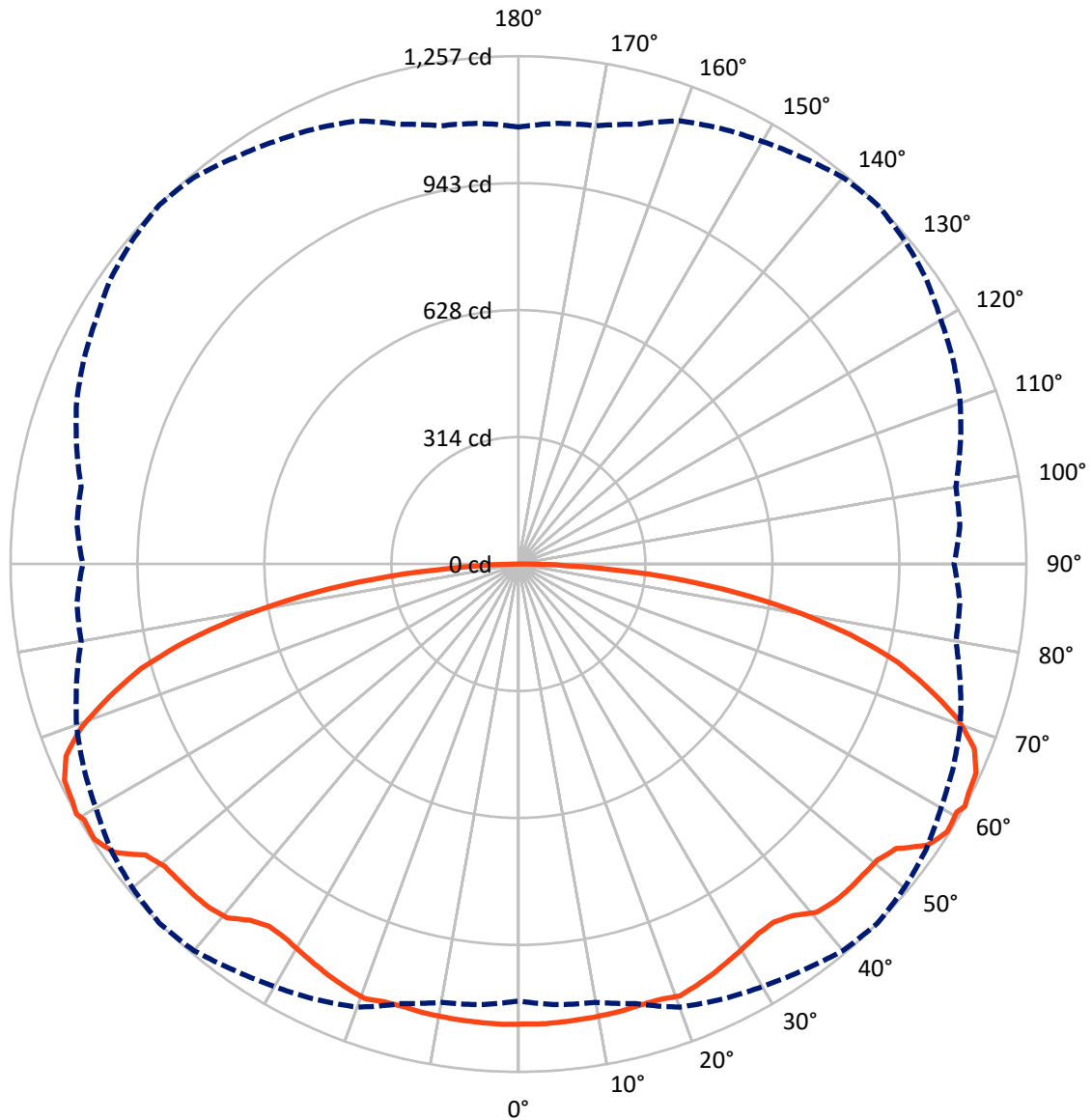


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type V - Short - Semi-Cutoff

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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	2937.9	0.0	2937.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2937.9	0.0	2937.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5875.7	0.0	5875.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	1.8
10°-20°	321.1	5.5
20°-30°	516.6	8.8
30°-40°	684.4	11.6
40°-50°	864.2	14.7
50°-60°	1035.5	17.6
60°-70°	1132.3	19.3
70°-80°	906.4	15.4
80°-90°	306.7	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°	5875.7	100.0
0°-180°	5875.7	100.0



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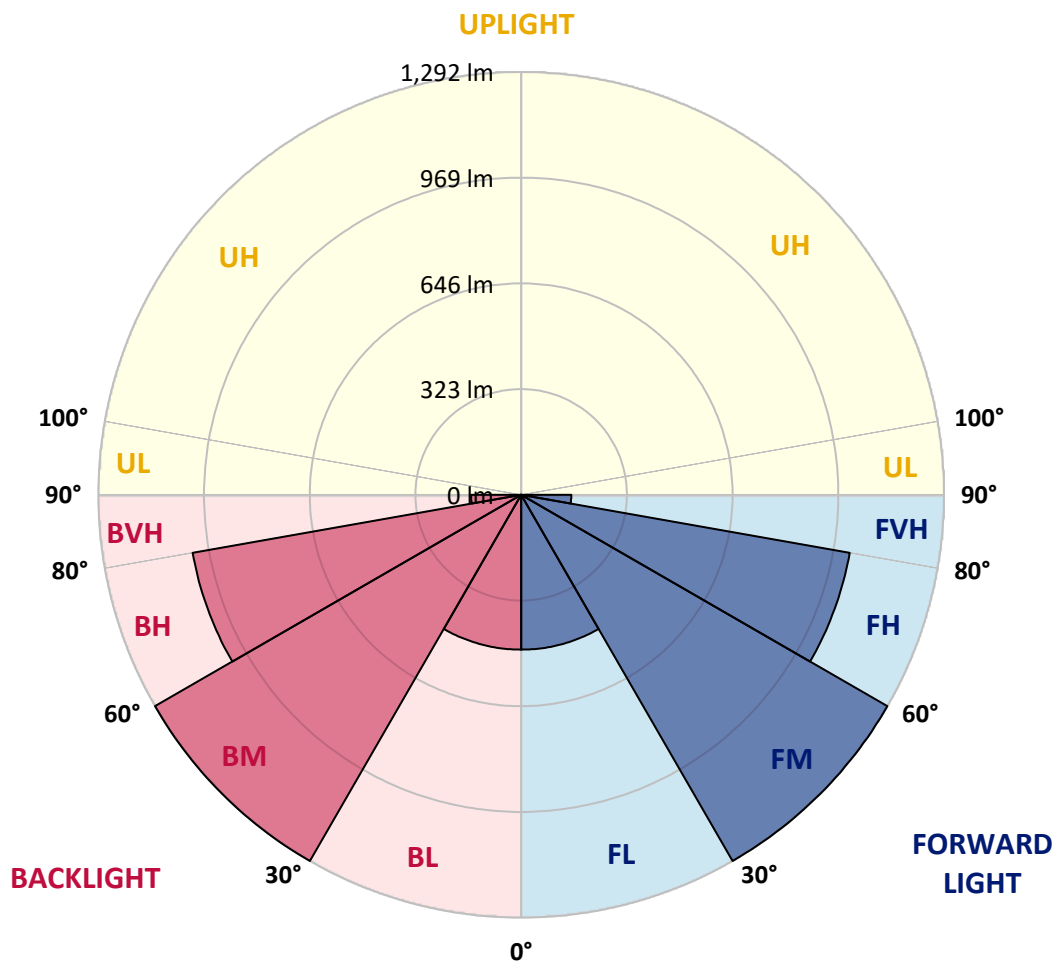
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.1	8.1			
FM (30°-60°)	1292.1	22.0			
FH (60°-80°)	1019.3	17.3			G1/1800
FVH (80°-90°)	153.3	2.6			G2/225
BL (0°-30°)	473.1	8.1	B1/500		
BM (30°-60°)	1292.1	22.0	B2/2500		
BH (60°-80°)	1019.3	17.3	B3/2500		G1/1800
BVH (80°-90°)	153.3	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°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1139.4	1138.5	1139.4	1139.4	1139.4	1139.4	1139.4	1139.4	1139.4	1139.4	1139.4
5°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
7.5°	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1138.5	1137.3	1138.5
10°	1135.1	1135.1	1135.1	1135.1	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2	1136.2
12.5°	1132.9	1132.9	1132.9	1132.9	1134.0	1134.0	1134.0	1134.0	1135.1	1135.1	1134.0
15°	1130.7	1129.6	1129.6	1130.7	1130.7	1131.8	1131.8	1131.8	1132.9	1131.8	1131.8
17.5°	1128.5	1127.4	1128.5	1129.6	1129.6	1130.7	1131.8	1131.8	1132.9	1132.9	1132.9
20°	1131.8	1130.7	1131.8	1132.9	1134.0	1136.2	1137.3	1138.5	1139.4	1140.5	1140.5
22.5°	1125.2	1124.1	1125.2	1125.2	1126.3	1127.4	1129.6	1130.7	1131.8	1131.8	1131.8
25°	1115.4	1115.4	1116.5	1116.5	1117.6	1118.7	1119.8	1120.9	1120.9	1122.0	1120.9
27.5°	1104.5	1104.5	1105.6	1105.6	1107.8	1107.8	1108.9	1109.9	1111.0	1111.0	1111.0
30°	1091.4	1091.4	1092.5	1093.6	1095.6	1096.7	1097.9	1099.0	1100.1	1100.1	1100.1
32.5°	1079.3	1078.2	1079.3	1081.4	1084.7	1086.9	1089.2	1090.3	1090.3	1090.3	1091.4
35°	1069.4	1070.5	1072.7	1074.9	1079.3	1081.4	1083.6	1086.9	1088.0	1088.0	1088.0
37.5°	1071.6	1072.7	1076.0	1080.3	1085.8	1092.5	1096.7	1101.2	1104.5	1103.4	1102.3
40°	1085.8	1088.0	1093.6	1100.1	1108.9	1117.6	1124.1	1129.6	1132.9	1134.0	1132.9
42.5°	1088.0	1090.3	1094.5	1104.5	1114.3	1124.1	1132.9	1138.5	1142.7	1143.8	1142.7
45°	1086.9	1086.9	1093.6	1104.5	1114.3	1124.1	1135.1	1142.7	1147.2	1147.2	1147.2
47.5°	1079.3	1082.5	1086.9	1097.9	1111.0	1120.9	1131.8	1139.4	1144.9	1148.3	1144.9
50°	1079.3	1079.3	1086.9	1094.5	1106.7	1124.1	1139.4	1147.2	1152.7	1151.6	1152.7
52.5°	1077.1	1083.6	1088.0	1099.0	1120.9	1138.5	1150.5	1161.4	1169.0	1170.1	1168.0
55°	1096.7	1097.9	1107.8	1128.5	1149.4	1169.0	1190.9	1207.4	1220.5	1228.2	1217.2
57.5°	1112.1	1106.7	1126.3	1143.8	1168.0	1197.6	1230.3	1243.4	1253.3	1251.1	1254.5
60°	1091.4	1099.0	1113.2	1131.8	1170.1	1199.6	1217.2	1231.4	1243.4	1246.7	1242.4
61°	1081.4	1094.5	1101.2	1126.3	1166.9	1188.7	1207.4	1227.1	1248.9	1256.7	1246.7
62.5°	1065.0	1085.8	1083.6	1124.1	1149.4	1174.5	1209.6	1232.5	1247.8	1250.0	1247.8
65°	1066.1	1062.9	1088.0	1117.6	1142.7	1187.6	1217.2	1231.4	1240.2	1244.5	1242.4
67.5°	1031.2	1020.1	1050.8	1071.6	1114.3	1149.4	1177.8	1198.5	1211.8	1216.1	1210.7
70°	950.1	957.8	979.6	1011.4	1046.5	1089.2	1115.4	1142.7	1153.8	1154.7	1154.7
72.5°	872.3	876.8	898.7	928.3	968.7	1005.9	1032.3	1054.1	1064.0	1065.0	1067.2
75°	769.5	773.9	799.0	826.4	867.0	898.7	917.2	943.6	957.8	969.8	960.0
77.5°	650.1	657.9	677.5	707.2	744.3	761.9	794.7	825.4	835.2	838.5	835.2
80°	515.5	525.4	543.0	582.3	598.8	627.2	659.0	672.1	680.8	683.0	684.1
82.5°	371.1	378.8	397.3	424.6	443.3	466.3	488.2	504.6	514.4	512.3	511.2
85°	218.9	221.1	240.8	259.5	273.7	287.9	305.3	317.5	319.7	324.0	322.9
87.5°	65.7	66.8	75.5	85.3	92.0	98.5	109.5	123.7	126.9	118.2	119.3
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°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1139.4	1139.4	1139.4	1139.4	1139.4	1139.4	1138.5	1139.4
5°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
7.5°	1138.5	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3
10°	1136.2	1136.2	1136.2	1136.2	1135.1	1135.1	1135.1	1135.1
12.5°	1134.0	1134.0	1134.0	1134.0	1132.9	1132.9	1132.9	1132.9
15°	1131.8	1131.8	1131.8	1131.8	1130.7	1130.7	1130.7	1130.7
17.5°	1132.9	1131.8	1130.7	1130.7	1129.6	1128.5	1128.5	1128.5
20°	1139.4	1138.5	1136.2	1134.0	1132.9	1131.8	1131.8	1131.8
22.5°	1130.7	1129.6	1127.4	1126.3	1126.3	1125.2	1124.1	1124.1
25°	1120.9	1118.7	1118.7	1117.6	1117.6	1115.4	1115.4	1114.3
27.5°	1109.9	1108.9	1107.8	1106.7	1106.7	1105.6	1104.5	1103.4
30°	1100.1	1097.9	1095.6	1094.5	1093.6	1092.5	1092.5	1092.5
32.5°	1090.3	1088.0	1086.9	1083.6	1081.4	1080.3	1079.3	1079.3
35°	1086.9	1083.6	1081.4	1078.2	1074.9	1072.7	1071.6	1069.4
37.5°	1100.1	1095.6	1092.5	1086.9	1079.3	1076.0	1072.7	1071.6
40°	1128.5	1124.1	1117.6	1108.9	1100.1	1093.6	1088.0	1085.8
42.5°	1138.5	1132.9	1124.1	1115.4	1104.5	1094.5	1090.3	1088.0
45°	1141.6	1136.2	1124.1	1113.2	1103.4	1094.5	1088.0	1085.8
47.5°	1138.5	1130.7	1119.8	1111.0	1096.7	1085.8	1081.4	1078.2
50°	1146.0	1139.4	1125.2	1105.6	1093.6	1086.9	1079.3	1078.2
52.5°	1161.4	1149.4	1136.2	1122.0	1099.0	1085.8	1081.4	1076.0
55°	1207.4	1190.9	1168.0	1144.9	1130.7	1109.9	1096.7	1096.7
57.5°	1242.4	1229.2	1199.6	1169.0	1142.7	1127.4	1107.8	1108.9
60°	1232.5	1215.0	1200.7	1170.1	1132.9	1112.1	1104.5	1090.3
61°	1231.4	1207.4	1187.6	1163.6	1131.8	1099.0	1096.7	1078.2
62.5°	1233.6	1211.8	1174.5	1149.4	1125.2	1082.5	1081.4	1064.0
65°	1231.4	1210.7	1192.0	1144.9	1112.1	1094.5	1057.4	1071.6
67.5°	1197.6	1178.9	1144.9	1118.7	1068.3	1046.5	1025.6	1025.6
70°	1143.8	1116.5	1083.6	1050.8	1016.9	979.6	961.0	950.1
72.5°	1054.1	1031.2	1004.9	969.8	928.3	894.3	876.8	869.2
75°	941.4	916.1	893.2	867.0	823.2	794.7	776.1	770.6
77.5°	823.2	801.2	760.8	735.6	706.1	673.2	656.8	650.1
80°	672.1	660.1	631.6	591.0	576.8	536.4	525.4	515.5
82.5°	504.6	491.5	465.2	436.8	419.3	396.2	376.6	374.4
85°	317.5	308.6	292.2	271.5	249.5	236.4	218.9	223.3
87.5°	118.2	112.7	102.9	89.8	80.0	71.1	62.4	65.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)