

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: P197514

Luminaire Tested: **TT-C2-LED-E1-5CQ-PM-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-5CQ-PM-LWR-LW
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4277.3 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

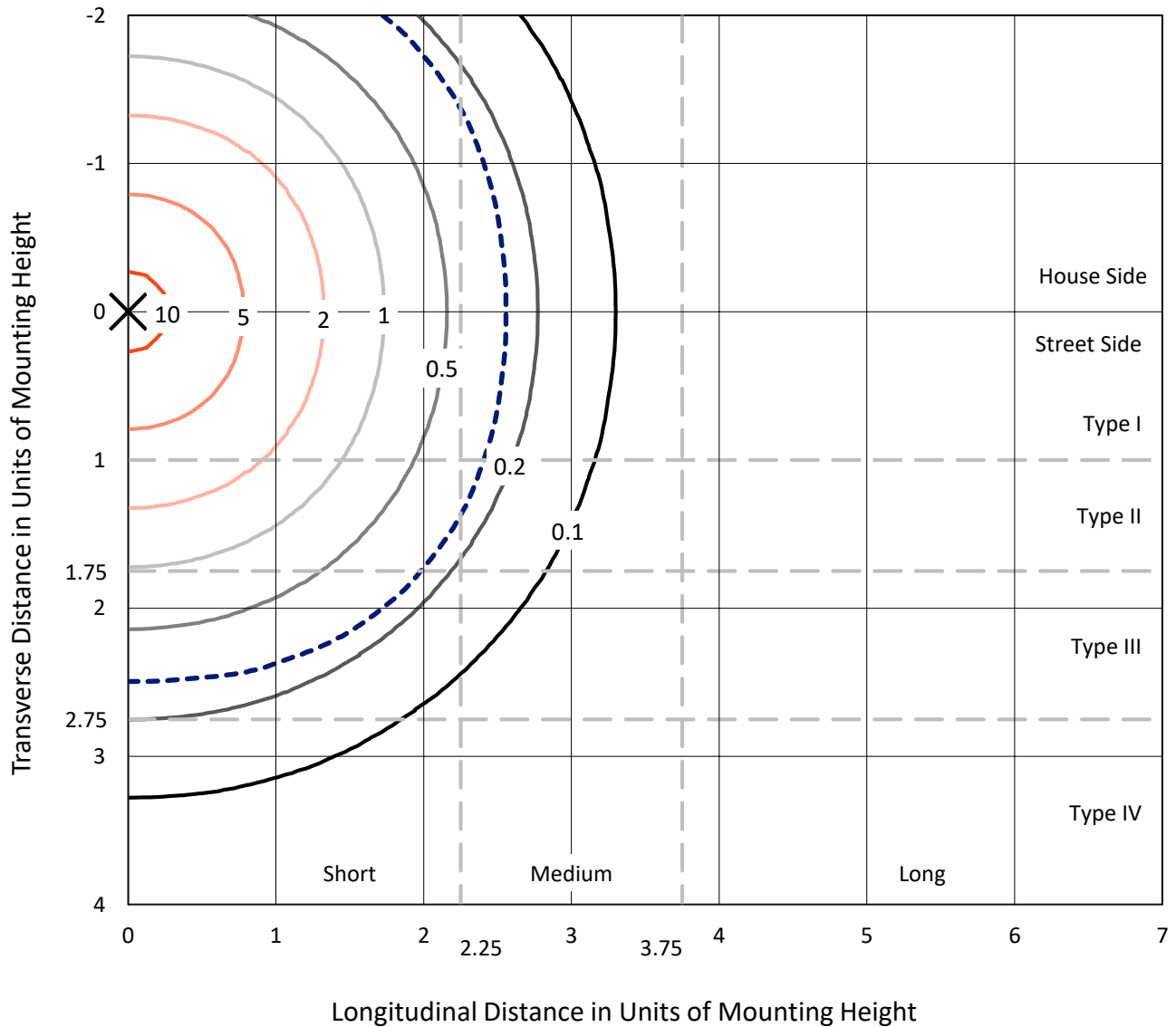
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P197514
 CATALOG NUMBER: TT-C2-LED-E1-5CQ-PM-LWR-LW

Iso-Footcandle Lines of Horizontal Illumination

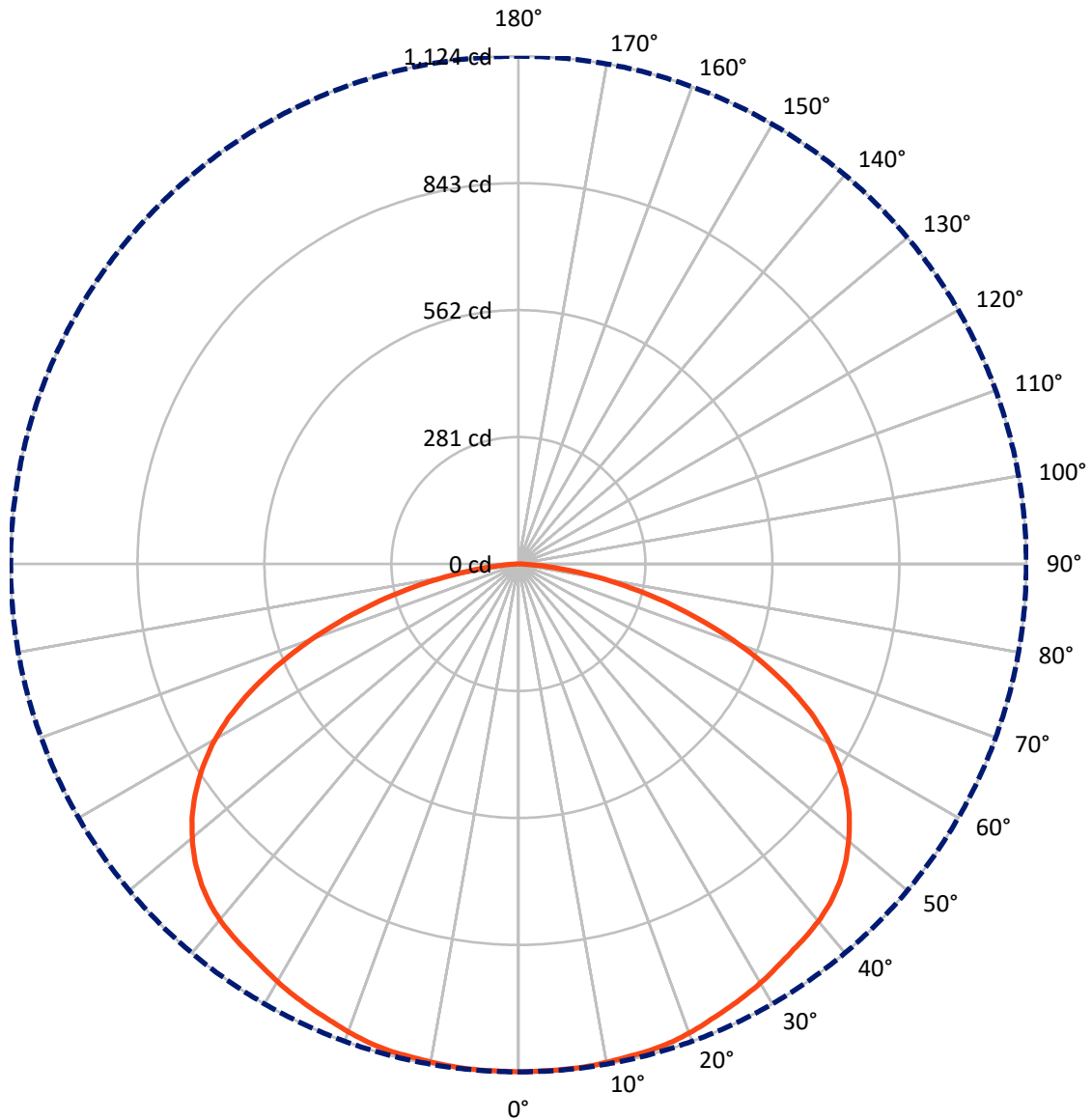
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P197514
CATALOG NUMBER: TT-C2-LED-E1-5CQ-PM-LWR-LW

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P197514

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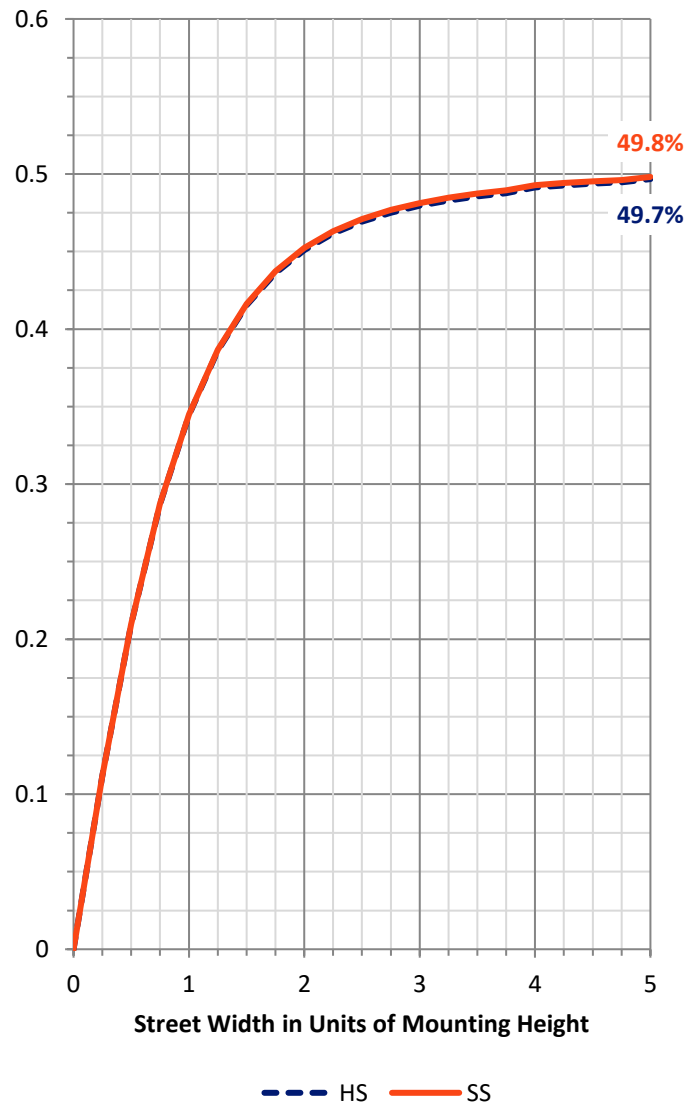
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2138.6	0.0	2138.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2138.6	0.0	2138.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4277.3	0.0	4277.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	2.5
10°-20°	315.4	7.4
20°-30°	502.4	11.7
30°-40°	658.6	15.4
40°-50°	776.8	18.2
50°-60°	804.5	18.8
60°-70°	672.8	15.7
70°-80°	366.7	8.6
80°-90°	72.8	1.7
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°	4277.3	100.0
0°-180°	4277.3	100.0



REPORT NUMBER: P197514

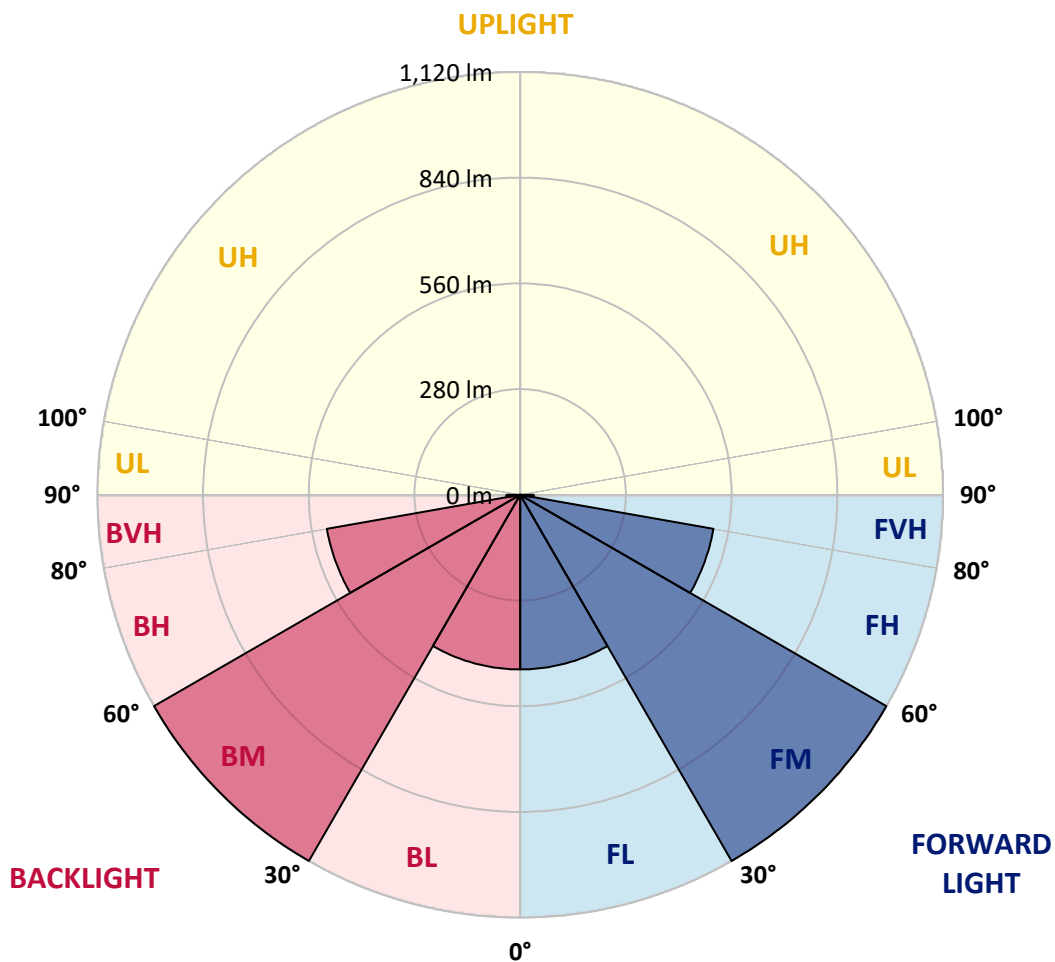
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.5	10.8			
FM (30°-60°)	1120.0	26.2			
FH (60°-80°)	519.8	12.2			G0/660
FVH (80°-90°)	36.4	0.9			G1/100
BL (0°-30°)	462.5	10.8	B1/500		
BM (30°-60°)	1120.0	26.2	B2/2500		
BH (60°-80°)	519.8	12.2	B2/1000		G0/660
BVH (80°-90°)	36.4	0.9			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





REPORT NUMBER: P197514

CATALOG NUMBER: TT-C2-LED-E1-5CQ-PM-LWR-LW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1
2.5°	1123.2	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1123.2	1124.1	1124.1
5°	1123.2	1123.2	1123.2	1123.2	1124.1	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2
7.5°	1122.3	1121.4	1121.4	1121.4	1121.4	1121.4	1122.3	1122.3	1122.3	1122.3	1122.3
10°	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6
12.5°	1116.8	1116.8	1116.8	1116.8	1117.8	1117.8	1117.8	1117.8	1117.8	1117.8	1116.8
15°	1115.1	1115.1	1115.1	1115.1	1115.1	1115.1	1115.1	1115.1	1115.1	1115.1	1115.1
17.5°	1110.6	1110.6	1110.6	1110.6	1111.5	1111.5	1111.5	1111.5	1111.5	1111.5	1111.5
20°	1103.4	1103.4	1103.4	1103.4	1103.4	1104.3	1105.1	1105.1	1105.1	1105.1	1105.1
22.5°	1094.4	1094.4	1095.3	1095.3	1096.2	1096.2	1097.1	1097.1	1097.1	1097.1	1097.1
25°	1086.3	1086.3	1086.3	1087.2	1087.2	1087.2	1088.0	1089.0	1089.0	1089.0	1088.0
27.5°	1078.2	1078.2	1078.2	1079.0	1079.0	1079.0	1080.0	1080.0	1080.9	1080.0	1080.0
30°	1069.2	1068.3	1068.3	1069.2	1070.1	1070.1	1071.0	1071.0	1071.0	1071.0	1070.1
32.5°	1058.4	1058.4	1059.3	1060.2	1060.2	1061.1	1061.9	1061.9	1061.9	1062.9	1061.1
35°	1048.5	1049.4	1049.4	1050.2	1052.1	1052.9	1053.9	1054.8	1054.8	1054.8	1052.9
37.5°	1040.4	1041.3	1042.2	1044.0	1045.8	1047.5	1049.4	1051.2	1050.2	1050.2	1047.5
40°	1030.5	1031.4	1033.2	1035.0	1038.5	1040.4	1043.1	1044.9	1045.8	1044.9	1042.2
42.5°	1017.0	1017.9	1019.7	1022.4	1026.9	1030.5	1033.2	1035.8	1036.8	1035.8	1033.2
45°	999.0	999.9	1001.7	1005.3	1010.7	1014.3	1018.8	1021.4	1023.3	1023.3	1020.6
47.5°	976.5	977.4	980.1	983.6	989.1	993.6	999.0	1002.6	1004.4	1006.2	1003.5
50°	948.6	949.5	953.1	957.5	962.1	968.4	974.7	980.1	982.8	983.6	982.8
52.5°	917.0	918.0	921.6	926.1	932.4	939.6	946.8	953.1	956.7	958.5	956.7
55°	879.2	881.1	883.8	890.1	897.3	903.6	912.6	919.7	924.3	925.2	924.3
57.5°	835.2	837.9	840.6	847.8	855.0	864.0	871.2	878.4	883.8	884.7	884.7
60°	785.7	787.5	790.2	797.4	805.5	811.8	821.7	828.9	833.4	833.4	834.3
62.5°	727.2	729.0	733.5	738.9	747.9	754.2	762.3	769.5	774.0	775.8	774.9
65°	658.8	660.6	663.3	670.5	677.7	684.9	693.0	699.3	703.8	704.7	703.8
67.5°	583.2	585.0	586.7	595.8	603.0	605.7	615.5	621.0	623.7	624.6	624.6
70°	503.1	504.0	506.7	511.2	519.3	522.0	528.3	532.8	534.5	538.2	535.5
72.5°	419.4	421.2	427.5	428.4	434.7	438.3	440.1	440.1	444.6	444.6	445.5
75°	336.6	337.5	340.2	341.1	345.6	345.6	344.7	346.5	350.1	350.1	351.0
77.5°	254.7	254.7	259.2	255.6	257.4	253.8	255.6	253.8	256.5	255.6	256.5
80°	178.1	178.1	180.9	177.3	178.1	174.6	175.5	174.6	174.6	175.5	175.5
82.5°	109.8	110.7	112.5	109.8	109.8	107.1	108.0	108.9	108.9	108.0	107.1
85°	54.0	54.0	55.8	54.9	54.0	52.2	53.1	54.0	54.0	53.1	53.1
87.5°	14.4	14.4	15.3	15.3	14.4	13.5	14.4	15.3	15.3	15.3	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P197514

CATALOG NUMBER: TT-C2-LED-E1-5CQ-PM-LWR-LW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1
2.5°	1123.2	1123.2	1124.1	1123.2	1124.1	1123.2	1124.1	1124.1
5°	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2	1123.2
7.5°	1121.4	1122.3	1121.4	1121.4	1121.4	1122.3	1121.4	1122.3
10°	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6
12.5°	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.0
15°	1115.1	1114.1	1114.1	1114.1	1113.3	1113.3	1113.3	1113.3
17.5°	1111.5	1110.6	1109.7	1109.7	1109.7	1109.7	1108.8	1108.8
20°	1105.1	1104.3	1103.4	1103.4	1102.4	1102.4	1101.6	1101.6
22.5°	1096.2	1096.2	1095.3	1094.4	1094.4	1093.5	1093.5	1092.6
25°	1088.0	1087.2	1086.3	1085.4	1084.5	1084.5	1083.6	1082.7
27.5°	1079.0	1077.3	1076.3	1075.5	1074.6	1073.6	1072.8	1071.9
30°	1069.2	1067.4	1065.6	1064.6	1062.9	1061.1	1060.2	1059.3
32.5°	1059.3	1057.5	1054.8	1052.1	1050.2	1048.5	1046.7	1045.8
35°	1051.2	1047.5	1044.9	1041.3	1038.5	1035.8	1035.0	1034.1
37.5°	1044.9	1041.3	1036.8	1033.2	1030.5	1026.9	1025.1	1023.3
40°	1038.5	1034.1	1028.7	1024.1	1020.6	1016.1	1014.3	1012.4
42.5°	1029.6	1024.1	1018.8	1013.4	1008.0	1003.5	1000.8	999.0
45°	1017.0	1011.6	1005.3	998.0	992.7	987.3	984.6	982.8
47.5°	999.9	994.5	987.3	981.0	974.7	969.2	965.7	963.9
50°	979.2	973.8	966.6	959.4	953.1	946.8	944.1	941.4
52.5°	953.1	948.6	940.5	935.1	927.9	921.6	918.9	917.0
55°	920.7	916.2	908.1	902.6	895.5	890.1	886.5	883.8
57.5°	881.1	877.5	868.5	863.1	855.9	850.4	847.8	846.0
60°	832.5	828.9	819.9	814.5	808.2	801.9	800.1	798.2
62.5°	772.1	770.4	763.2	756.9	750.6	744.3	742.5	741.6
65°	702.0	700.2	693.8	688.5	683.1	677.7	675.9	674.1
67.5°	621.9	621.0	615.5	611.1	607.5	602.1	601.1	599.4
70°	536.4	534.5	530.1	526.5	523.8	519.3	518.4	516.6
72.5°	447.3	446.4	443.7	439.2	439.2	432.9	432.0	431.1
75°	349.1	353.7	350.1	348.3	348.3	344.7	344.7	343.8
77.5°	255.6	260.1	262.8	259.2	262.8	259.2	259.2	258.3
80°	174.6	178.1	180.9	178.1	182.7	180.0	180.0	183.6
82.5°	106.2	109.8	111.6	110.7	113.4	112.5	111.6	114.3
85°	52.2	54.0	54.9	54.9	55.8	54.0	55.8	56.7
87.5°	13.5	14.4	15.3	14.4	15.3	15.3	15.3	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)