

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: P197539

Luminaire Tested: **TT-C2-LED-E1-5CQ-PM-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
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-MS/DIM-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED 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: 4324.9 lumens
Efficiency: N/A
Efficacy: 127.2 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 (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

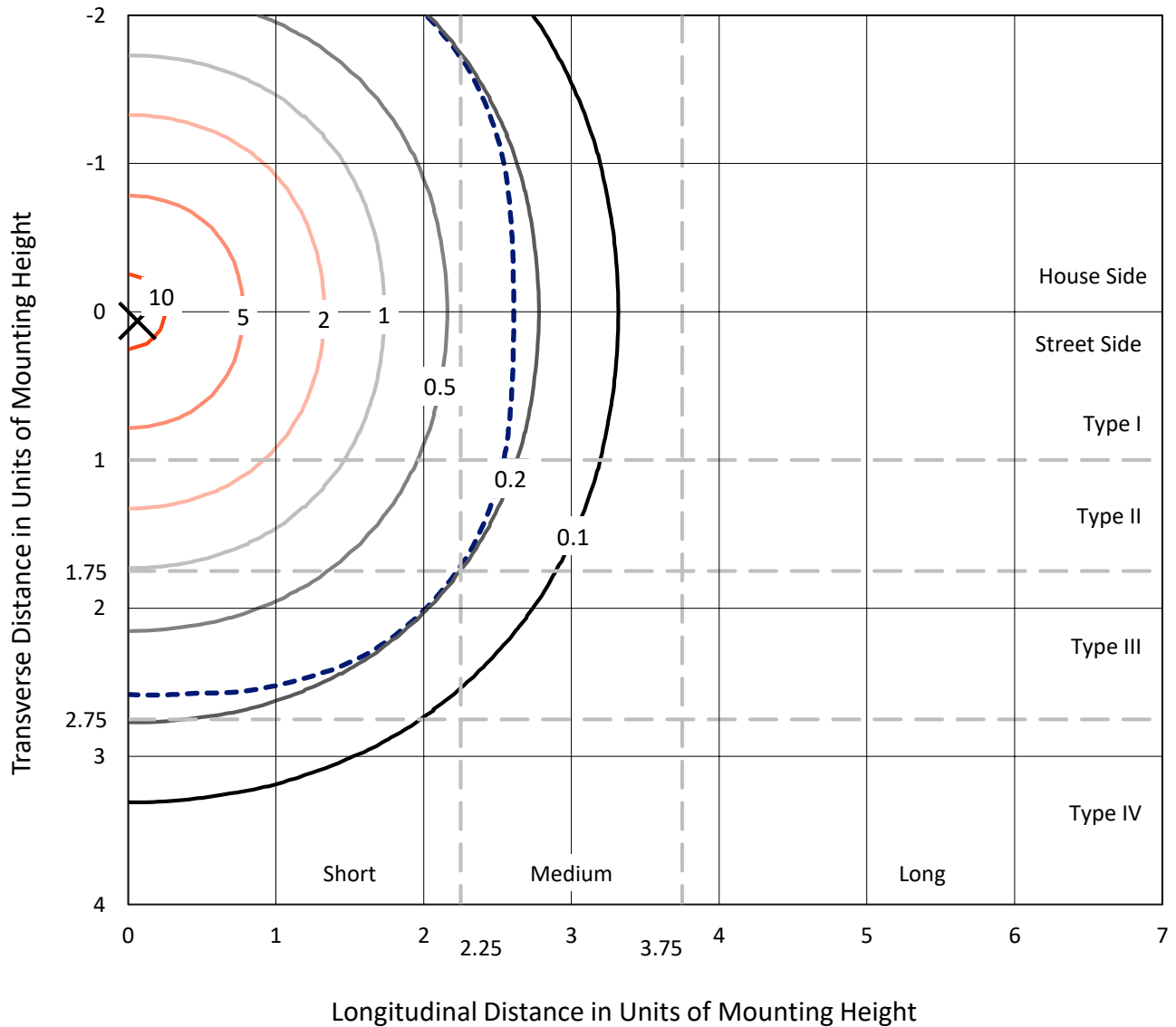


REPORT NUMBER: P197539

CATALOG NUMBER: TT-C2-LED-E1-5CQ-PM-MS/DIM-7050

Iso-Footcandle Lines of Horizontal Illumination

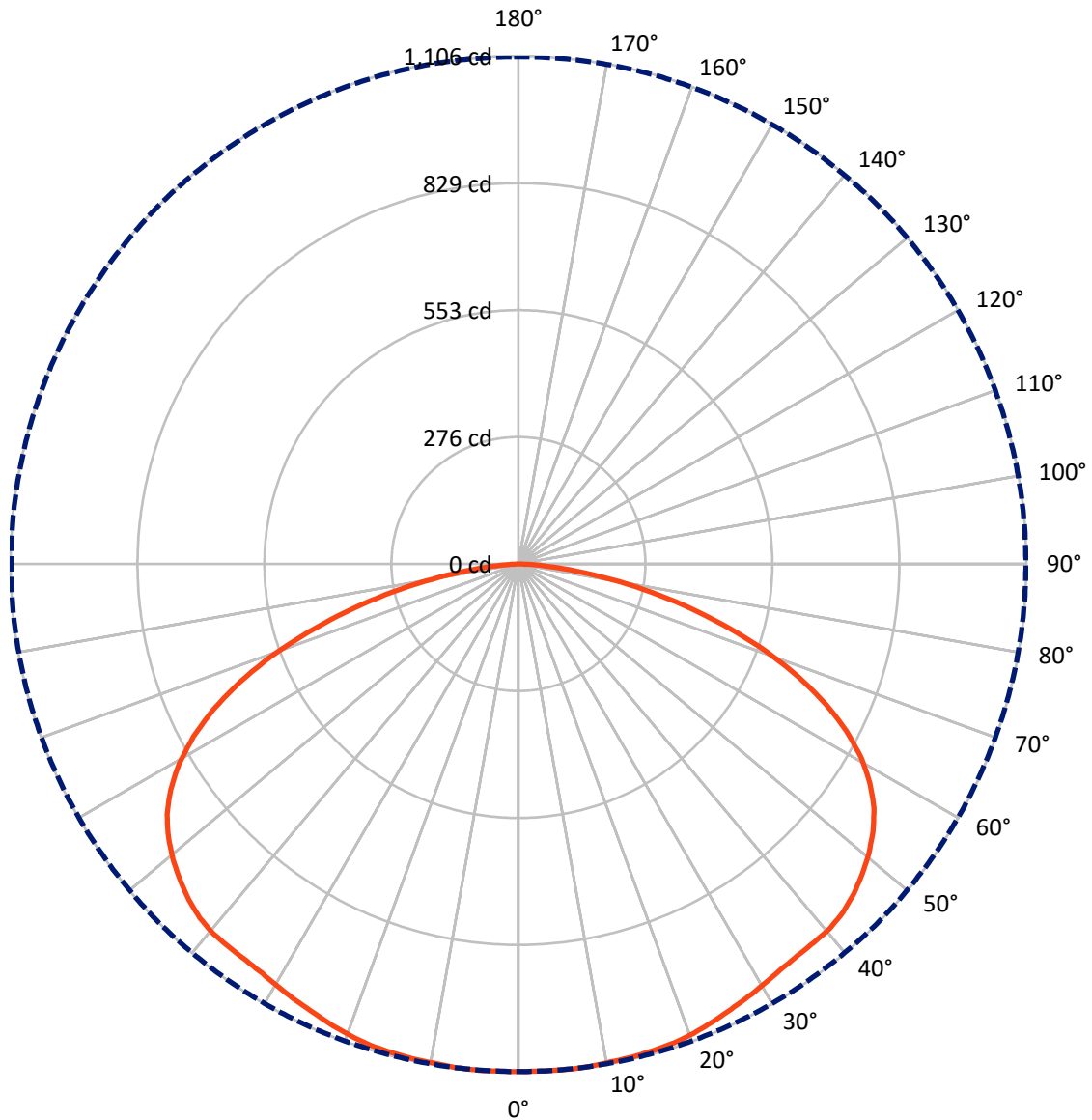
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197539
CATALOG NUMBER: TT-C2-LED-E1-5CQ-PM-MS/DIM-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

REPORT NUMBER: P197539

CATALOG NUMBER: TT-C2-LED-E1-5CQ-PM-MS/DIM-7050

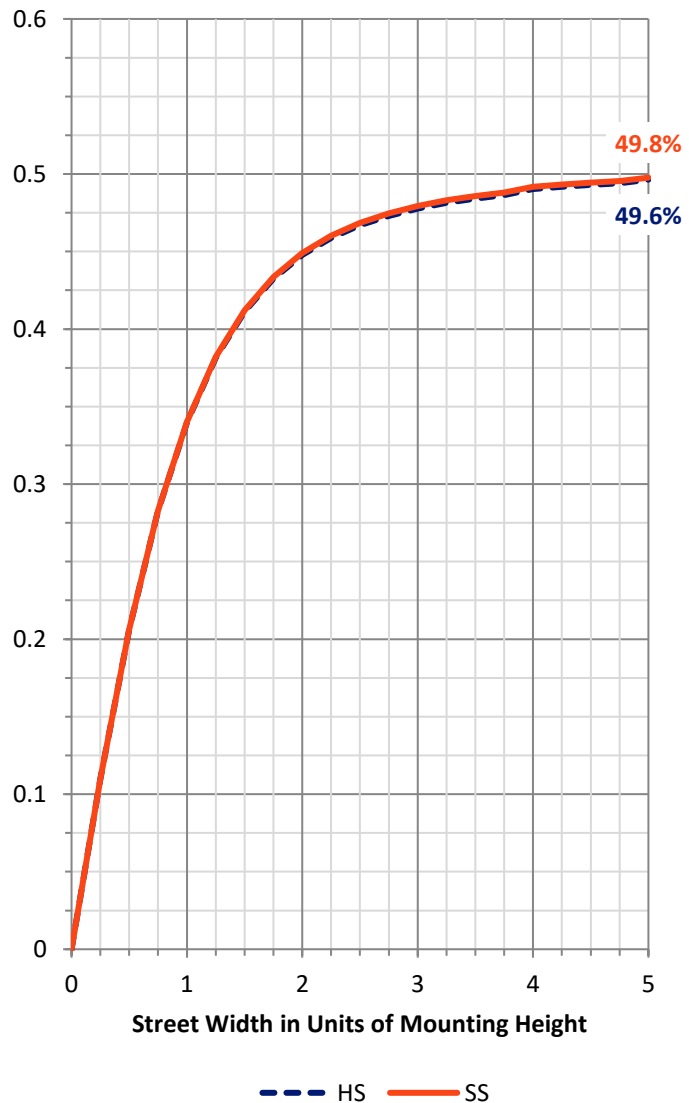
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2162.5	0.0	2162.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2162.5	0.0	2162.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4324.9	0.0	4324.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	2.4
10°-20°	310.9	7.2
20°-30°	496.1	11.5
30°-40°	653.4	15.1
40°-50°	777.3	18.0
50°-60°	813.5	18.8
60°-70°	691.8	16.0
70°-80°	393.1	9.1
80°-90°	83.6	1.9
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°	4324.9	100.0
0°-180°	4324.9	100.0



REPORT NUMBER: P197539

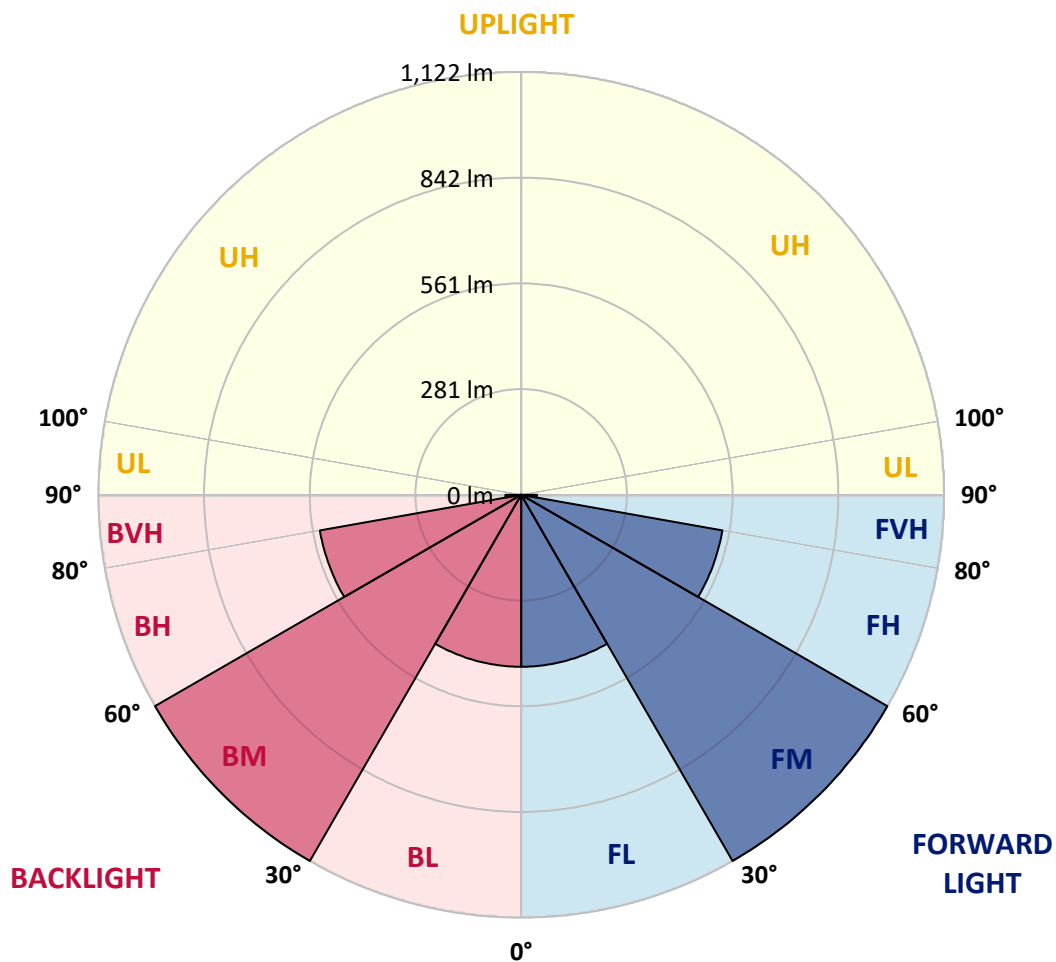
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.2	10.5			
FM (30°-60°)	1122.1	25.9			
FH (60°-80°)	542.4	12.5			G0/660
FVH (80°-90°)	41.8	1.0			G1/100
BL (0°-30°)	456.2	10.5	B1/500		
BM (30°-60°)	1122.1	25.9	B2/2500		
BH (60°-80°)	542.4	12.5	B2/1000		G0/660
BVH (80°-90°)	41.8	1.0			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: P197539

CATALOG NUMBER: TT-C2-LED-E1-5CQ-PM-MS/DIM-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0
5°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.8	1105.0
7.5°	1104.1	1104.1	1104.1	1104.1	1105.0	1104.1	1104.1	1105.0	1105.0	1105.0	1105.0
10°	1102.4	1101.6	1101.6	1102.4	1102.4	1102.4	1102.4	1102.4	1103.3	1102.4	1102.4
12.5°	1099.8	1099.1	1099.8	1099.8	1099.8	1100.7	1100.7	1100.7	1101.6	1101.6	1100.7
15°	1097.3	1097.3	1097.3	1097.3	1097.3	1098.2	1098.2	1099.1	1099.1	1099.1	1099.1
17.5°	1093.9	1093.9	1093.9	1094.7	1094.7	1095.6	1095.6	1095.6	1096.4	1096.4	1096.4
20°	1087.9	1087.1	1087.9	1087.9	1088.8	1089.7	1089.7	1090.5	1090.5	1090.5	1090.5
22.5°	1079.4	1079.4	1080.3	1080.3	1081.1	1081.9	1081.9	1082.8	1082.8	1082.8	1082.8
25°	1070.8	1071.7	1071.7	1072.6	1072.6	1073.4	1074.3	1074.3	1074.3	1074.3	1074.3
27.5°	1062.3	1063.2	1063.2	1063.2	1064.1	1064.9	1065.8	1066.6	1067.4	1066.6	1066.6
30°	1052.9	1052.9	1053.8	1054.7	1055.6	1056.4	1058.1	1058.9	1059.8	1058.9	1058.9
32.5°	1042.7	1043.6	1044.4	1045.3	1047.1	1048.7	1050.4	1051.3	1052.1	1051.3	1051.3
35°	1035.1	1035.1	1036.8	1038.5	1040.2	1042.7	1044.4	1046.2	1047.8	1047.1	1046.2
37.5°	1027.4	1027.4	1029.1	1031.7	1035.1	1038.5	1041.9	1044.4	1045.3	1045.3	1044.4
40°	1018.1	1018.8	1020.6	1024.8	1029.9	1034.2	1038.5	1041.9	1043.6	1043.6	1041.9
42.5°	1007.8	1008.7	1011.2	1015.4	1021.4	1026.6	1031.7	1034.2	1036.8	1036.8	1035.1
45°	993.3	994.2	997.6	1001.8	1007.8	1012.9	1018.8	1021.4	1024.8	1024.0	1023.2
47.5°	974.6	975.4	978.8	983.1	989.1	995.0	1000.9	1005.2	1007.8	1007.8	1006.9
50°	951.6	952.3	955.8	960.1	967.7	974.6	980.5	984.8	989.1	989.1	988.2
52.5°	922.6	924.2	926.8	932.8	941.3	948.9	956.7	963.4	966.0	966.8	966.0
55°	886.7	888.4	891.8	898.7	908.1	917.4	925.9	933.6	937.1	939.6	937.9
57.5°	844.9	846.7	850.9	858.6	868.8	878.2	889.3	897.8	900.3	902.9	902.1
60°	795.4	798.0	802.3	810.8	821.1	831.3	841.5	851.8	854.3	857.7	856.0
62.5°	737.5	740.1	744.3	753.7	764.8	774.2	786.1	795.4	798.0	801.4	800.6
65°	671.0	673.5	677.8	688.0	698.3	708.5	719.6	729.8	732.4	735.8	734.9
67.5°	595.2	597.7	601.9	613.9	624.2	634.3	643.7	653.9	655.7	659.0	658.2
70°	515.0	518.4	521.8	532.9	542.3	550.8	561.0	569.5	572.9	574.7	572.9
72.5°	434.8	437.4	440.8	448.5	455.3	463.0	473.2	479.2	481.8	482.5	482.5
75°	352.1	354.7	354.7	363.3	368.3	372.6	381.1	385.4	387.0	388.8	388.8
77.5°	273.7	272.0	273.7	277.1	280.5	283.9	289.0	291.6	293.3	296.8	295.0
80°	191.9	192.6	193.5	196.1	197.8	198.6	202.0	202.9	203.8	207.1	205.5
82.5°	123.6	121.9	123.6	122.8	124.5	121.9	123.6	126.1	124.5	126.1	127.0
85°	64.8	62.3	62.3	63.1	64.0	62.3	63.1	62.3	62.3	64.0	63.1
87.5°	20.5	19.6	20.5	19.6	20.5	19.6	20.5	21.4	20.5	20.5	21.4
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: P197539

CATALOG NUMBER: TT-C2-LED-E1-5CQ-PM-MS/DIM-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0
5°	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0	1105.0
7.5°	1104.1	1104.1	1104.1	1104.1	1104.1	1104.1	1103.3	1104.1
10°	1102.4	1102.4	1102.4	1102.4	1101.6	1101.6	1101.6	1101.6
12.5°	1100.7	1100.7	1099.8	1099.8	1099.8	1099.8	1099.1	1099.1
15°	1099.1	1098.2	1098.2	1097.3	1097.3	1097.3	1096.4	1097.3
17.5°	1096.4	1095.6	1095.6	1094.7	1094.7	1093.9	1093.9	1093.9
20°	1090.5	1089.7	1089.7	1088.8	1088.8	1087.9	1087.1	1087.1
22.5°	1081.9	1081.9	1081.9	1081.1	1080.3	1080.3	1079.4	1079.4
25°	1074.3	1073.4	1073.4	1072.6	1071.7	1071.7	1070.8	1070.8
27.5°	1066.6	1065.8	1064.9	1063.2	1063.2	1062.3	1061.5	1060.7
30°	1058.1	1056.4	1054.7	1053.8	1052.9	1051.3	1050.4	1049.6
32.5°	1049.6	1047.8	1046.2	1044.4	1041.9	1041.1	1039.3	1039.3
35°	1044.4	1041.9	1039.3	1035.9	1033.3	1030.8	1029.1	1028.2
37.5°	1041.9	1038.5	1034.2	1029.9	1025.7	1022.3	1019.7	1019.7
40°	1038.5	1034.2	1029.1	1023.2	1018.1	1013.8	1011.2	1010.3
42.5°	1031.7	1027.4	1020.6	1015.4	1008.7	1004.3	1000.9	1000.1
45°	1019.7	1015.4	1009.5	1002.7	995.8	990.7	987.3	986.4
47.5°	1004.3	999.3	992.4	985.6	978.8	972.8	969.4	968.6
50°	984.8	979.7	972.8	966.0	958.3	952.3	948.1	948.1
52.5°	962.6	956.7	948.9	941.3	932.8	926.8	922.6	921.7
55°	933.6	926.8	919.1	910.6	901.2	894.4	889.3	888.4
57.5°	897.8	890.2	881.6	872.2	862.8	855.2	849.2	848.3
60°	852.6	844.1	835.6	826.2	815.9	807.4	801.4	799.8
62.5°	797.2	787.8	778.4	769.9	758.8	750.3	744.3	742.7
65°	731.5	723.9	714.5	704.3	692.3	683.8	677.8	676.9
67.5°	654.8	647.2	637.8	628.4	616.4	608.8	602.8	601.1
70°	570.4	563.5	555.9	546.5	536.3	528.6	522.7	521.8
72.5°	480.9	474.9	468.0	461.3	451.0	445.0	439.9	439.1
75°	388.8	382.8	377.7	372.6	364.9	360.6	355.5	355.5
77.5°	295.0	293.3	289.9	283.9	279.6	276.3	273.7	272.0
80°	206.4	204.6	202.9	199.5	197.0	196.1	194.4	192.6
82.5°	126.1	125.4	126.1	124.5	123.6	123.6	122.8	121.1
85°	64.0	64.8	64.0	63.1	63.1	63.1	63.1	62.3
87.5°	20.5	21.4	20.5	19.6	19.6	19.6	19.6	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)