

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: P197515

Luminaire Tested: **TT-C2-LED-E1-5CQ-PM-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197515
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-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4052.1 lumens
Efficiency: N/A
Efficacy: 119.2 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 (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

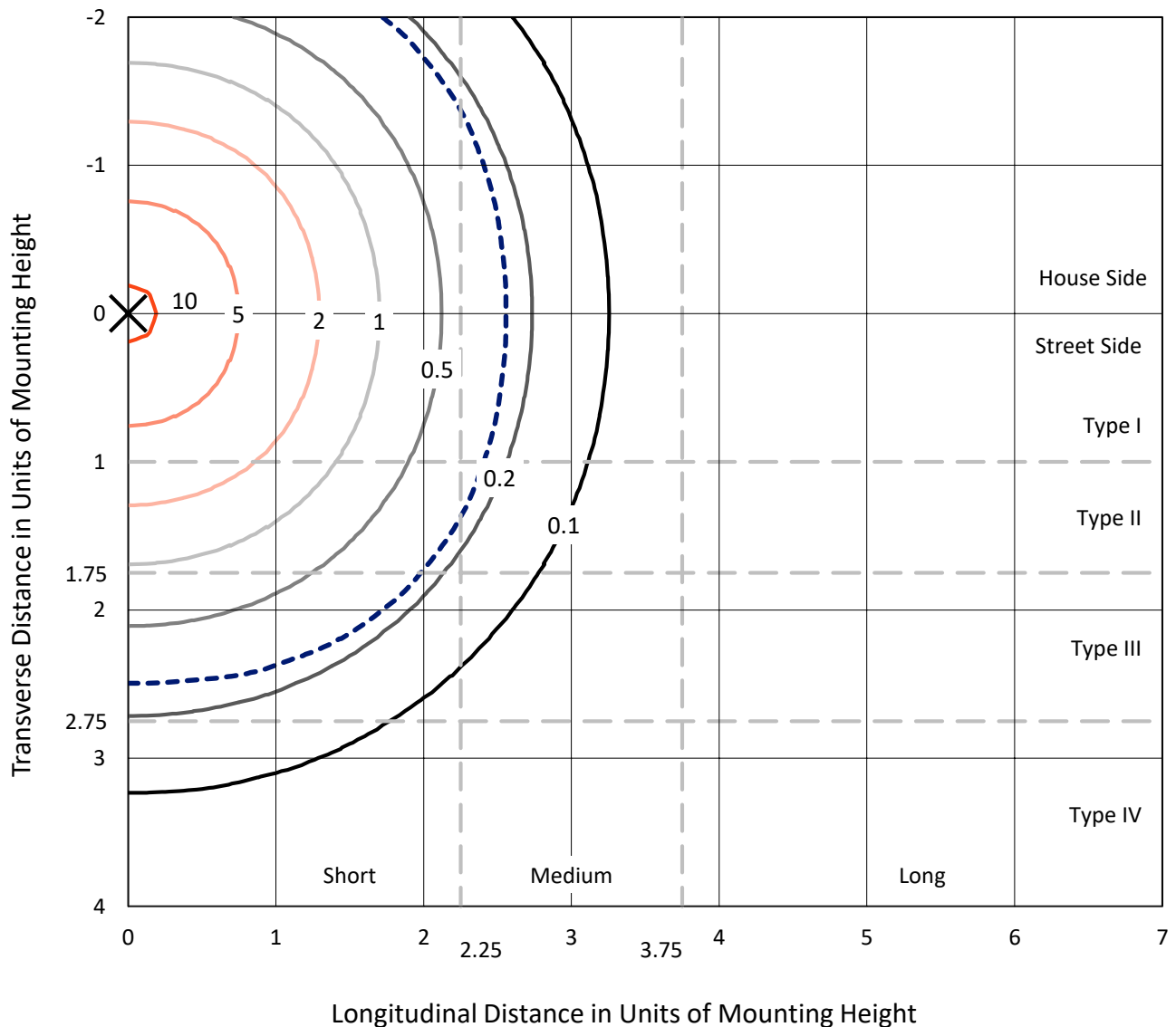


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Iso-Footcandle Lines of Horizontal Illumination

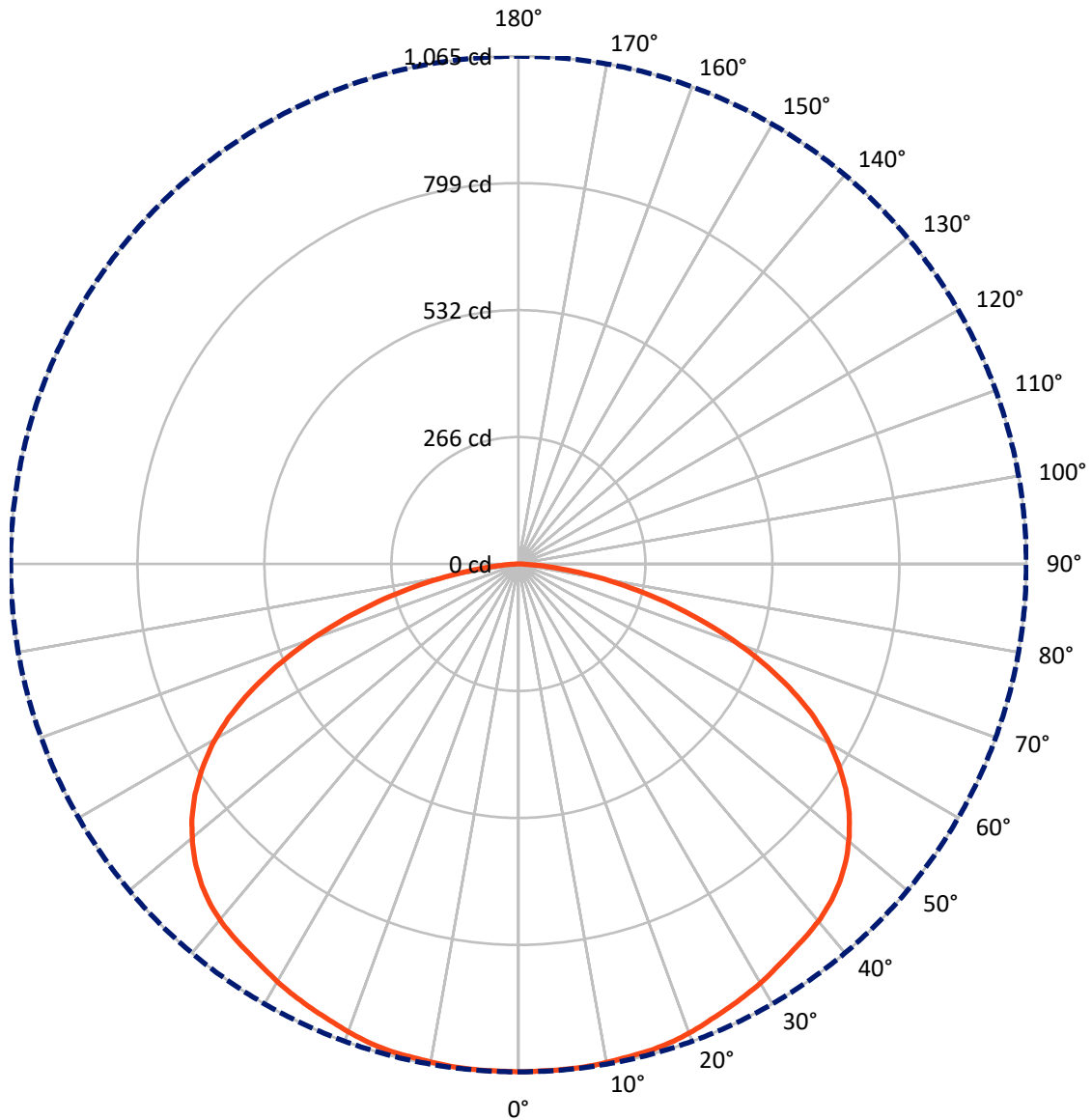
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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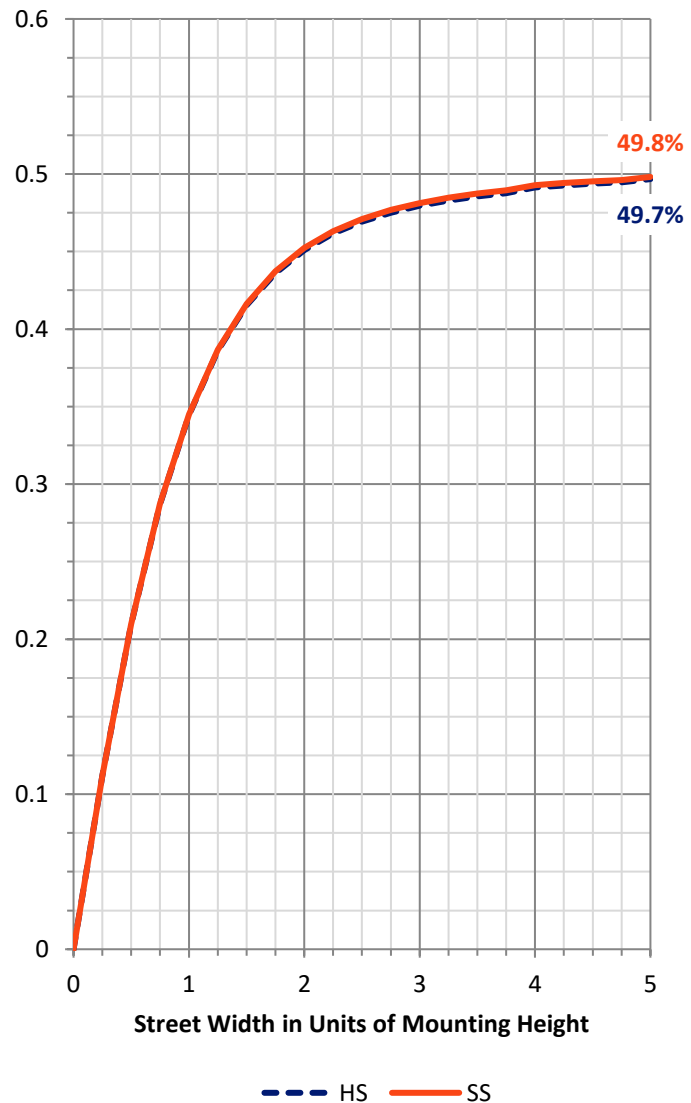
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2026.1	0.0	2026.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2026.1	0.0	2026.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4052.1	0.0	4052.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	2.5
10°-20°	298.8	7.4
20°-30°	475.9	11.7
30°-40°	624.0	15.4
40°-50°	735.9	18.2
50°-60°	762.2	18.8
60°-70°	637.4	15.7
70°-80°	347.4	8.6
80°-90°	69.0	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°	4052.1	100.0
0°-180°	4052.1	100.0



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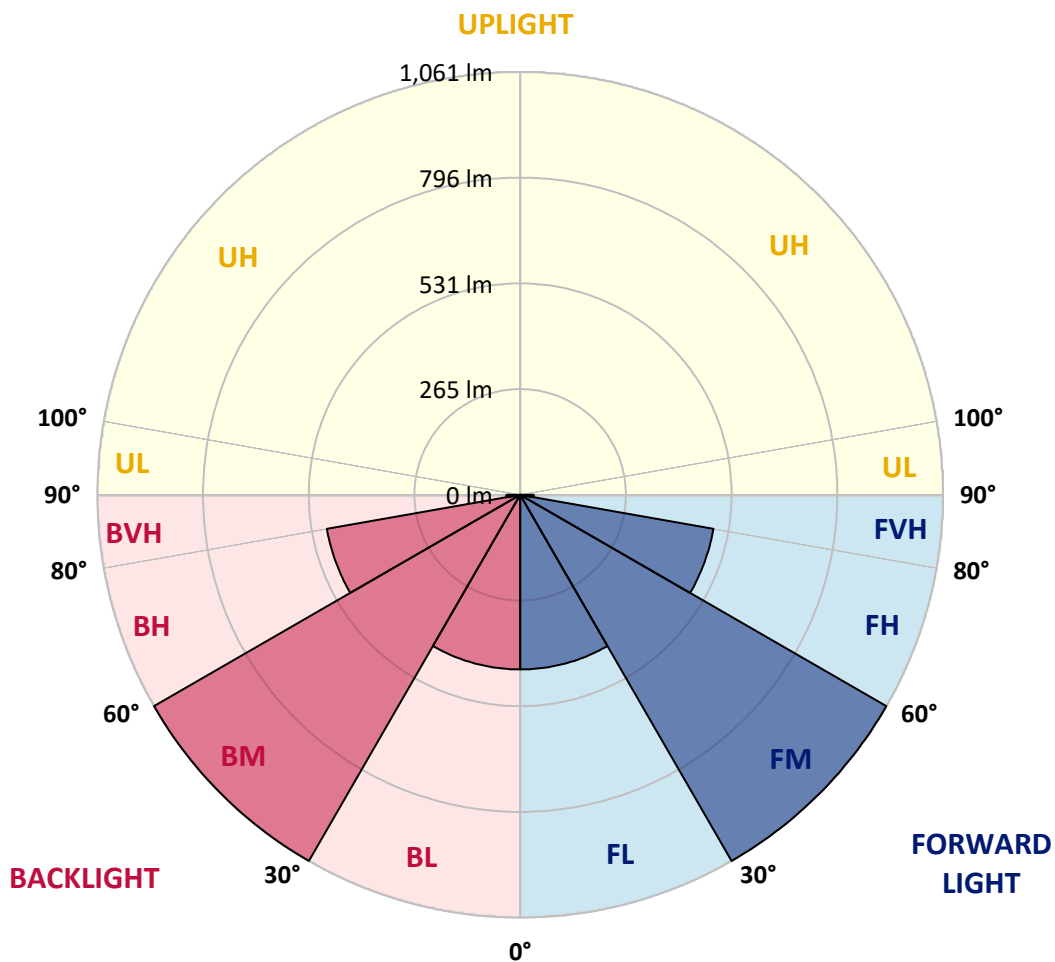
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.1	10.8			
FM	(30°-60°)	1061.0	26.2			
FH	(60°-80°)	492.4	12.2			G0/660
FVH	(80°-90°)	34.5	0.9			G1/100
BL	(0°-30°)	438.1	10.8	B1/500		
BM	(30°-60°)	1061.0	26.2	B2/2500		
BH	(60°-80°)	492.4	12.2	B1/500		G0/660
BVH	(80°-90°)	34.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1064.1	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.1	1064.9	1064.9
5°	1064.1	1064.1	1064.1	1064.1	1064.9	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1
7.5°	1063.2	1062.3	1062.3	1062.3	1062.3	1062.3	1063.2	1063.2	1063.2	1063.2	1063.2
10°	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7
12.5°	1058.1	1058.1	1058.1	1058.1	1058.9	1058.9	1058.9	1058.9	1058.9	1058.9	1058.1
15°	1056.4	1056.4	1056.4	1056.4	1056.4	1056.4	1056.4	1056.4	1056.4	1056.4	1056.4
17.5°	1052.1	1052.1	1052.1	1052.1	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9
20°	1045.3	1045.3	1045.3	1045.3	1045.3	1046.2	1047.1	1047.1	1047.1	1047.1	1047.1
22.5°	1036.8	1036.8	1037.6	1037.6	1038.5	1038.5	1039.3	1039.3	1039.3	1039.3	1039.3
25°	1029.1	1029.1	1029.1	1029.9	1029.9	1029.9	1030.8	1031.7	1031.7	1031.7	1030.8
27.5°	1021.4	1021.4	1021.4	1022.3	1022.3	1022.3	1023.2	1023.2	1024.0	1023.2	1023.2
30°	1012.9	1012.1	1012.1	1012.9	1013.8	1013.8	1014.6	1014.6	1014.6	1014.6	1013.8
32.5°	1002.7	1002.7	1003.6	1004.3	1004.3	1005.2	1006.1	1006.1	1006.1	1006.9	1005.2
35°	993.3	994.2	994.2	995.0	996.7	997.6	998.4	999.3	999.3	999.3	997.6
37.5°	985.6	986.4	987.3	989.1	990.7	992.4	994.2	995.8	995.0	995.0	992.4
40°	976.2	977.1	978.8	980.5	983.9	985.6	988.2	989.9	990.7	989.9	987.3
42.5°	963.4	964.3	966.0	968.6	972.8	976.2	978.8	981.3	982.2	981.3	978.8
45°	946.4	947.3	948.9	952.3	957.4	960.9	965.2	967.7	969.4	969.4	966.8
47.5°	925.1	925.9	928.4	931.9	937.1	941.3	946.4	949.8	951.6	953.2	950.7
50°	898.7	899.5	902.9	907.2	911.4	917.4	923.4	928.4	931.1	931.9	931.1
52.5°	868.8	869.7	873.1	877.3	883.3	890.2	896.9	902.9	906.3	908.1	906.3
55°	833.0	834.7	837.3	843.2	850.1	856.0	864.6	871.4	875.7	876.4	875.7
57.5°	791.2	793.8	796.3	803.2	809.9	818.5	825.3	832.2	837.3	838.2	838.2
60°	744.3	746.0	748.6	755.4	763.1	769.1	778.4	785.3	789.5	789.5	790.4
62.5°	688.9	690.7	694.9	700.0	708.5	714.5	722.2	728.9	733.3	734.9	734.1
65°	624.2	625.8	628.4	635.2	642.0	648.8	656.5	662.4	666.8	667.6	666.8
67.5°	552.5	554.2	555.9	564.4	571.3	573.8	583.2	588.3	590.9	591.7	591.7
70°	476.6	477.4	480.0	484.3	491.9	494.5	500.5	504.8	506.4	509.9	507.3
72.5°	397.3	399.0	405.0	405.9	411.8	415.3	416.9	416.9	421.2	421.2	422.0
75°	318.9	319.8	322.3	323.1	327.4	327.4	326.5	328.3	331.7	331.7	332.5
77.5°	241.3	241.3	245.5	242.1	243.9	240.4	242.1	240.4	243.0	242.1	243.0
80°	168.8	168.8	171.4	168.0	168.8	165.4	166.3	165.4	165.4	166.3	166.3
82.5°	104.0	104.9	106.6	104.0	104.0	101.5	102.3	103.1	103.1	102.3	101.5
85°	51.1	51.1	52.9	52.0	51.1	49.5	50.3	51.1	51.1	50.3	50.3
87.5°	13.6	13.6	14.5	14.5	13.6	12.8	13.6	14.5	14.5	14.5	13.6
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°	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1064.1	1064.1	1064.9	1064.1	1064.9	1064.1	1064.9	1064.9
5°	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1
7.5°	1062.3	1063.2	1062.3	1062.3	1062.3	1063.2	1062.3	1063.2
10°	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7
12.5°	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1057.2
15°	1056.4	1055.6	1055.6	1055.6	1054.7	1054.7	1054.7	1054.7
17.5°	1052.9	1052.1	1051.3	1051.3	1051.3	1051.3	1050.4	1050.4
20°	1047.1	1046.2	1045.3	1045.3	1044.4	1044.4	1043.6	1043.6
22.5°	1038.5	1038.5	1037.6	1036.8	1036.8	1035.9	1035.9	1035.1
25°	1030.8	1029.9	1029.1	1028.2	1027.4	1027.4	1026.6	1025.7
27.5°	1022.3	1020.6	1019.7	1018.8	1018.1	1017.2	1016.3	1015.4
30°	1012.9	1011.2	1009.5	1008.7	1006.9	1005.2	1004.3	1003.6
32.5°	1003.6	1001.8	999.3	996.7	995.0	993.3	991.6	990.7
35°	995.8	992.4	989.9	986.4	983.9	981.3	980.5	979.7
37.5°	989.9	986.4	982.2	978.8	976.2	972.8	971.2	969.4
40°	983.9	979.7	974.6	970.3	966.8	962.6	960.9	959.2
42.5°	975.4	970.3	965.2	960.1	954.9	950.7	948.1	946.4
45°	963.4	958.3	952.3	945.6	940.4	935.3	932.8	931.1
47.5°	947.3	942.2	935.3	929.3	923.4	918.3	914.8	913.2
50°	927.7	922.6	915.7	908.9	902.9	896.9	894.4	891.8
52.5°	902.9	898.7	890.9	885.8	879.1	873.1	870.5	868.8
55°	872.2	867.9	860.3	855.2	848.3	843.2	839.8	837.3
57.5°	834.7	831.3	822.8	817.7	810.8	805.7	803.2	801.4
60°	788.7	785.3	776.7	771.7	765.7	759.7	757.9	756.3
62.5°	731.5	729.8	723.0	717.0	711.1	705.2	703.4	702.5
65°	665.0	663.3	657.4	652.3	647.2	642.0	640.3	638.7
67.5°	589.2	588.3	583.2	578.9	575.5	570.4	569.5	567.8
70°	508.2	506.4	502.2	498.8	496.3	491.9	491.1	489.4
72.5°	423.8	422.9	420.3	416.0	416.0	410.1	409.3	408.4
75°	330.8	335.0	331.7	330.0	330.0	326.5	326.5	325.7
77.5°	242.1	246.4	249.0	245.5	249.0	245.5	245.5	244.7
80°	165.4	168.8	171.4	168.8	173.1	170.5	170.5	173.9
82.5°	100.6	104.0	105.7	104.9	107.4	106.6	105.7	108.3
85°	49.5	51.1	52.0	52.0	52.9	51.1	52.9	53.7
87.5°	12.8	13.6	14.5	13.6	14.5	14.5	14.5	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)