

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: P197713

Luminaire Tested: **TT-C4-LED-E1-MQ-CG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
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-MQ-CG-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4962.3 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - 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

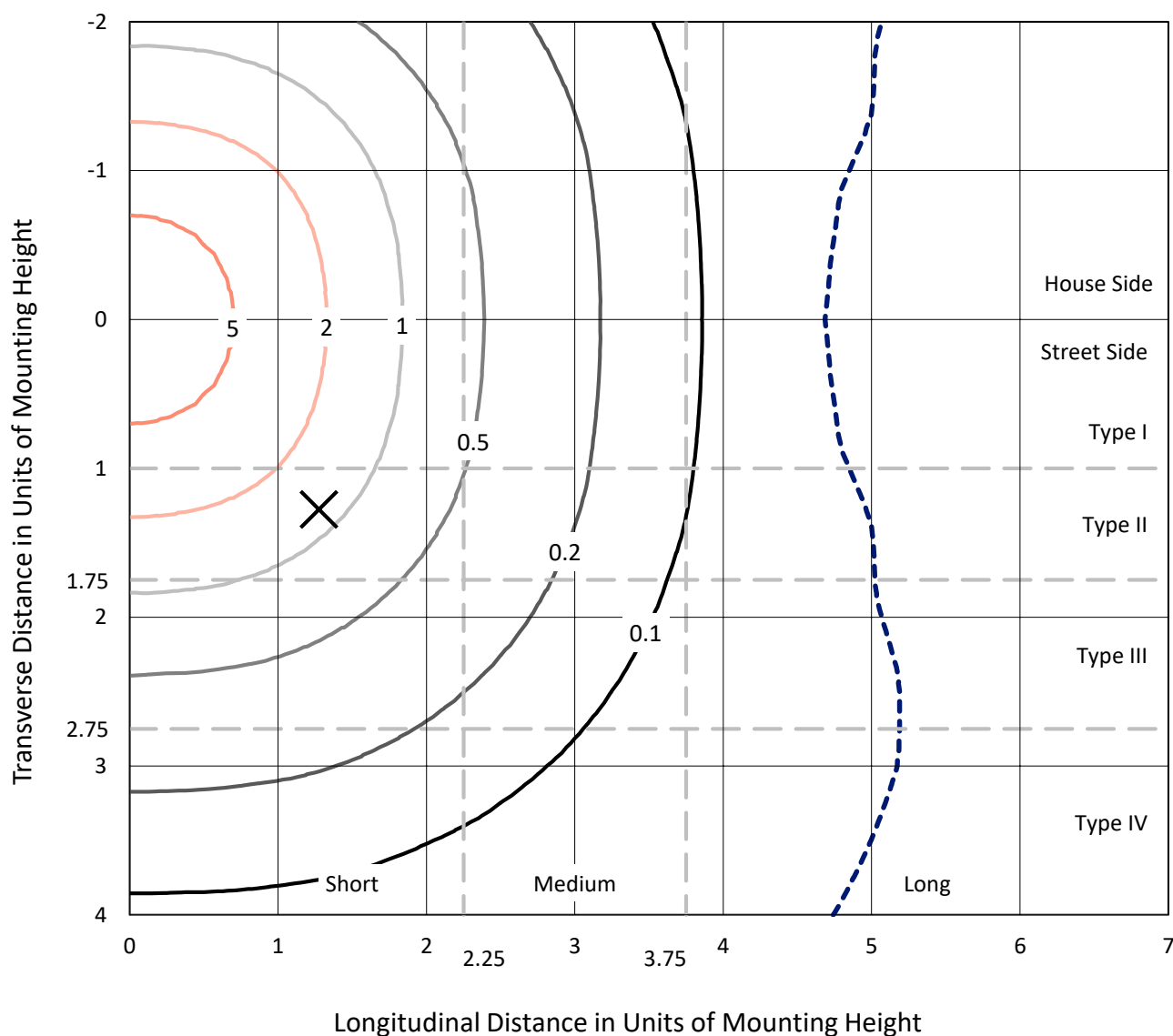


REPORT NUMBER: P197713

CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-8030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

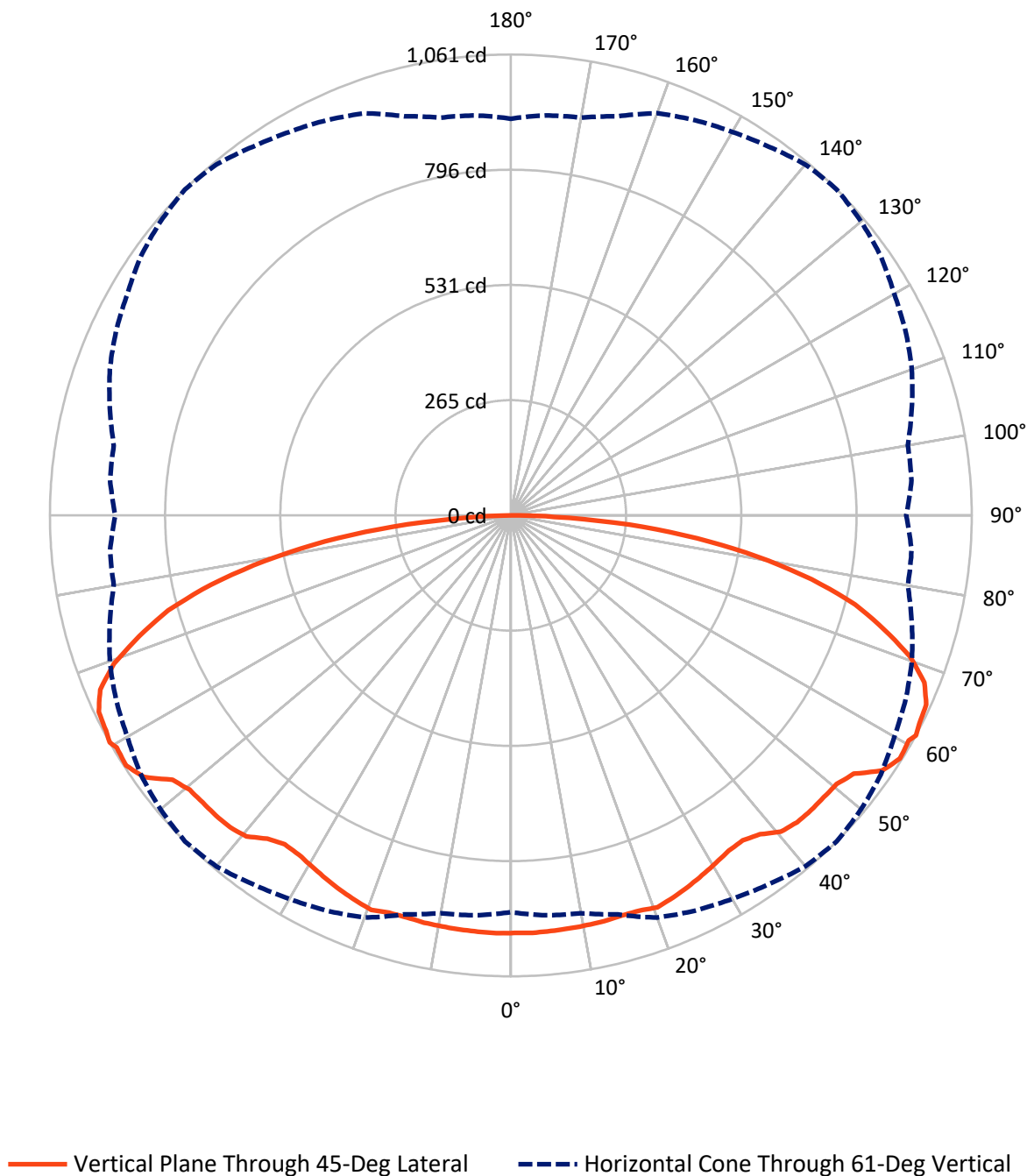


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197713

CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P197713

CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-8030

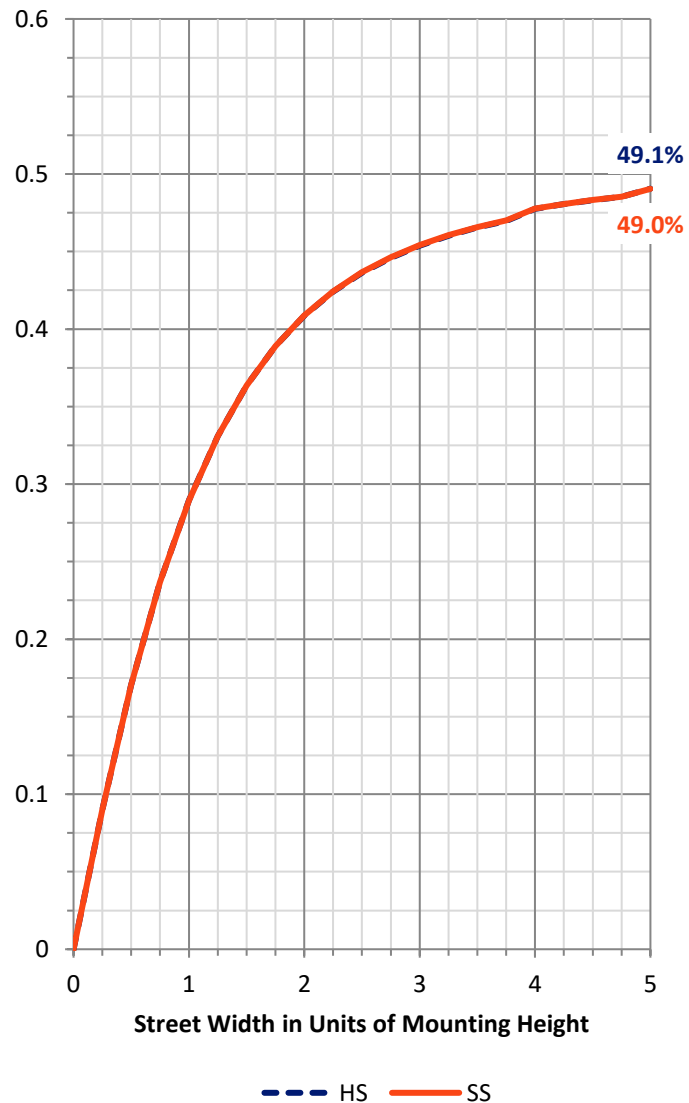
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2481.1	0.0	2481.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2481.1	0.0	2481.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4962.3	0.0	4962.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.8
10°-20°	271.2	5.5
20°-30°	436.3	8.8
30°-40°	578.0	11.6
40°-50°	729.9	14.7
50°-60°	874.6	17.6
60°-70°	956.2	19.3
70°-80°	765.5	15.4
80°-90°	259.0	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°	4962.3	100.0
0°-180°	4962.3	100.0

Coefficient of Utilization



REPORT NUMBER: P197713

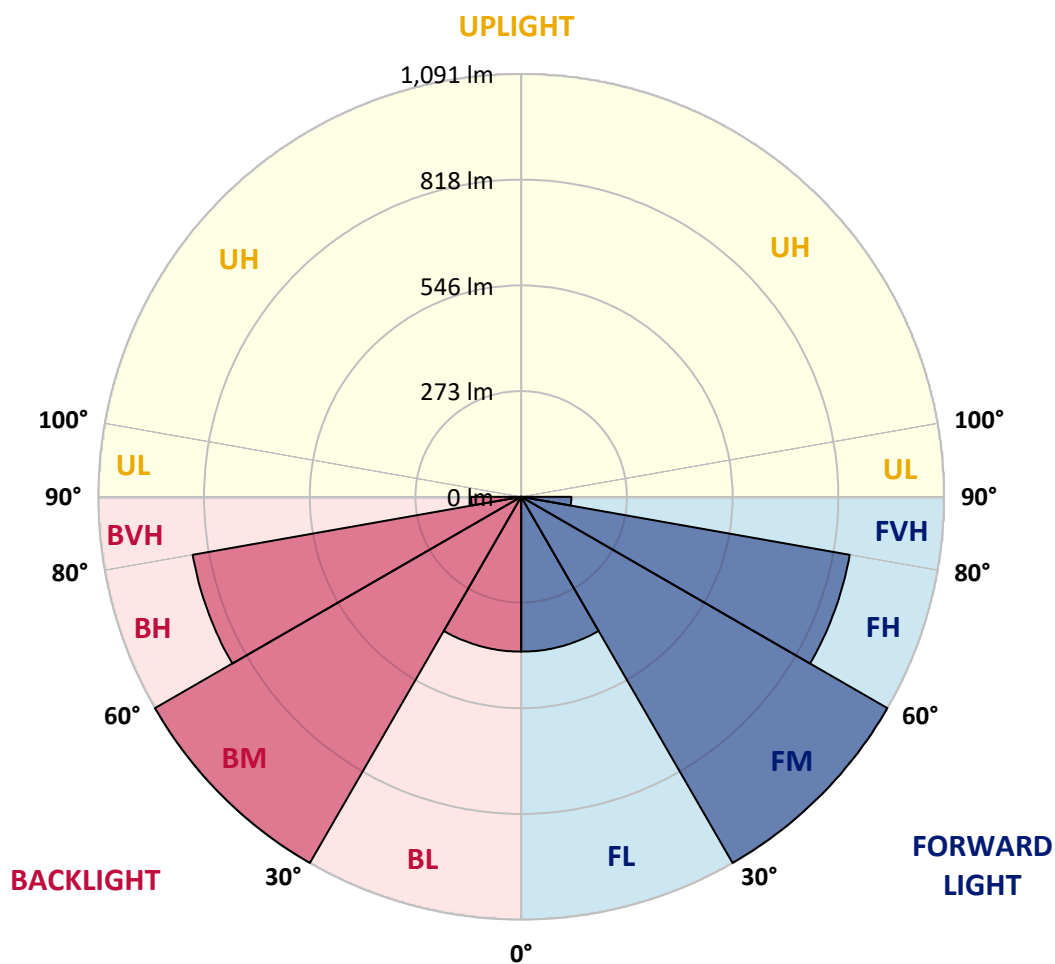
CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.6	8.1			
FM	(30°-60°)	1091.2	22.0			
FH	(60°-80°)	860.9	17.3			G1/1800
FVH	(80°-90°)	129.5	2.6			G2/225
BL	(0°-30°)	399.6	8.1	B1/500		
BM	(30°-60°)	1091.2	22.0	B2/2500		
BH	(60°-80°)	860.9	17.3	B2/1000		G1/1800
BVH	(80°-90°)	129.5	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short



REPORT NUMBER: P197713

CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4
2.5°	962.3	961.4	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3	962.3
5°	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4
7.5°	960.5	960.5	960.5	960.5	960.5	960.5	960.5	960.5	961.4	960.5	961.4
10°	958.7	958.7	958.7	958.7	959.5	959.5	959.5	959.5	959.5	959.5	959.5
12.5°	956.8	956.8	956.8	956.8	957.7	957.7	957.7	957.7	958.7	958.7	957.7
15°	954.9	954.0	954.0	954.9	954.9	955.9	955.9	955.9	956.8	955.9	955.9
17.5°	953.1	952.1	953.1	954.0	954.0	954.9	955.9	955.9	956.8	956.8	956.8
20°	955.9	954.9	955.9	956.8	957.7	959.5	960.5	961.4	962.3	963.3	963.3
22.5°	950.3	949.4	950.3	950.3	951.3	952.1	954.0	954.9	955.9	955.9	955.9
25°	942.0	942.0	943.0	943.0	943.9	944.7	945.7	946.6	946.6	947.5	946.6
27.5°	932.7	932.7	933.7	933.7	935.6	935.6	936.5	937.3	938.3	938.3	938.3
30°	921.7	921.7	922.5	923.5	925.4	926.3	927.2	928.2	929.1	929.1	929.1
32.5°	911.5	910.6	911.5	913.4	916.1	918.0	919.8	920.8	920.8	920.8	921.7
35°	903.2	904.1	906.0	907.8	911.5	913.4	915.1	918.0	918.9	918.9	918.9
37.5°	905.0	906.0	908.7	912.4	917.0	922.5	926.3	929.9	932.7	931.8	930.9
40°	917.0	918.9	923.5	929.1	936.5	943.9	949.4	954.0	956.8	957.7	956.8
42.5°	918.9	920.8	924.4	932.7	941.1	949.4	956.8	961.4	965.1	966.1	965.1
45°	918.0	918.0	923.5	932.7	941.1	949.4	958.7	965.1	968.8	968.8	968.8
47.5°	911.5	914.3	918.0	927.2	938.3	946.6	955.9	962.3	966.9	969.7	966.9
50°	911.5	911.5	918.0	924.4	934.6	949.4	962.3	968.8	973.5	972.5	973.5
52.5°	909.6	915.1	918.9	928.2	946.6	961.4	971.6	980.9	987.3	988.3	986.4
55°	926.3	927.2	935.6	953.1	970.7	987.3	1005.8	1019.6	1030.8	1037.2	1027.9
57.5°	939.2	934.6	951.3	966.1	986.4	1011.4	1039.1	1050.1	1058.5	1056.6	1059.4
60°	921.7	928.2	940.1	955.9	988.3	1013.2	1027.9	1040.0	1050.1	1052.9	1049.2
61°	913.4	924.4	929.9	951.3	985.4	1004.0	1019.6	1036.3	1054.8	1061.3	1052.9
62.5°	899.5	917.0	915.1	949.4	970.7	991.9	1021.5	1041.0	1053.9	1055.7	1053.9
65°	900.4	897.7	918.9	943.9	965.1	1003.0	1027.9	1040.0	1047.4	1051.1	1049.2
67.5°	870.8	861.6	887.4	905.0	941.1	970.7	994.7	1012.2	1023.4	1027.0	1022.4
70°	802.5	808.9	827.4	854.2	883.8	919.8	942.0	965.1	974.3	975.2	975.2
72.5°	736.7	740.5	758.9	783.9	818.1	849.5	871.7	890.3	898.6	899.5	901.3
75°	649.9	653.5	674.9	698.0	732.2	758.9	774.7	796.8	808.9	819.0	810.7
77.5°	549.1	555.6	572.2	597.2	628.6	643.4	671.1	697.1	705.4	708.1	705.4
80°	435.4	443.8	458.6	491.8	505.6	529.7	556.5	567.6	575.0	576.9	577.8
82.5°	313.4	319.8	335.6	358.7	374.4	393.8	412.3	426.2	434.5	432.6	431.7
85°	184.9	186.7	203.4	219.1	231.1	243.1	257.9	268.1	270.0	273.6	272.7
87.5°	55.5	56.3	63.7	72.1	77.7	83.2	92.5	104.5	107.3	99.9	100.8
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: P197713

CATALOG NUMBER: TT-C4-LED-E1-MQ-CG-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4
2.5°	962.3	962.3	962.3	962.3	962.3	962.3	961.4	962.3
5°	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4
7.5°	961.4	960.5	960.5	960.5	960.5	960.5	960.5	960.5
10°	959.5	959.5	959.5	959.5	958.7	958.7	958.7	958.7
12.5°	957.7	957.7	957.7	957.7	956.8	956.8	956.8	956.8
15°	955.9	955.9	955.9	955.9	954.9	954.9	954.9	954.9
17.5°	956.8	955.9	954.9	954.9	954.0	953.1	953.1	953.1
20°	962.3	961.4	959.5	957.7	956.8	955.9	955.9	955.9
22.5°	954.9	954.0	952.1	951.3	951.3	950.3	949.4	949.4
25°	946.6	944.7	944.7	943.9	943.9	942.0	942.0	941.1
27.5°	937.3	936.5	935.6	934.6	934.6	933.7	932.7	931.8
30°	929.1	927.2	925.4	924.4	923.5	922.5	922.5	922.5
32.5°	920.8	918.9	918.0	915.1	913.4	912.4	911.5	911.5
35°	918.0	915.1	913.4	910.6	907.8	906.0	905.0	903.2
37.5°	929.1	925.4	922.5	918.0	911.5	908.7	906.0	905.0
40°	953.1	949.4	943.9	936.5	929.1	923.5	918.9	917.0
42.5°	961.4	956.8	949.4	942.0	932.7	924.4	920.8	918.9
45°	964.2	959.5	949.4	940.1	931.8	924.4	918.9	917.0
47.5°	961.4	954.9	945.7	938.3	926.3	917.0	913.4	910.6
50°	967.8	962.3	950.3	933.7	923.5	918.0	911.5	910.6
52.5°	980.9	970.7	959.5	947.5	928.2	917.0	913.4	908.7
55°	1019.6	1005.8	986.4	966.9	954.9	937.3	926.3	926.3
57.5°	1049.2	1038.1	1013.2	987.3	965.1	952.1	935.6	936.5
60°	1041.0	1026.2	1014.1	988.3	956.8	939.2	932.7	920.8
61°	1040.0	1019.6	1003.0	982.6	955.9	928.2	926.3	910.6
62.5°	1041.8	1023.4	991.9	970.7	950.3	914.3	913.4	898.6
65°	1040.0	1022.4	1006.7	966.9	939.2	924.4	893.0	905.0
67.5°	1011.4	995.7	966.9	944.7	902.2	883.8	866.2	866.2
70°	966.1	943.0	915.1	887.4	858.8	827.4	811.6	802.5
72.5°	890.3	870.8	848.6	819.0	783.9	755.3	740.5	734.0
75°	795.1	773.7	754.3	732.2	695.2	671.1	655.4	650.8
77.5°	695.2	676.6	642.5	621.2	596.2	568.5	554.7	549.1
80°	567.6	557.4	533.4	499.2	487.2	452.9	443.8	435.4
82.5°	426.2	415.0	392.8	368.9	354.1	334.6	318.0	316.2
85°	268.1	260.7	246.8	229.2	210.8	199.7	184.9	188.6
87.5°	99.9	95.2	86.9	75.8	67.5	60.1	52.7	55.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)