

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: P197712

Luminaire Tested: **TT-C3-LED-E1-MQ-CG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197712
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-C3-LED-E1-MQ-CG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5143.5 lumens
Efficiency: N/A
Efficacy: 114.3 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): 45
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

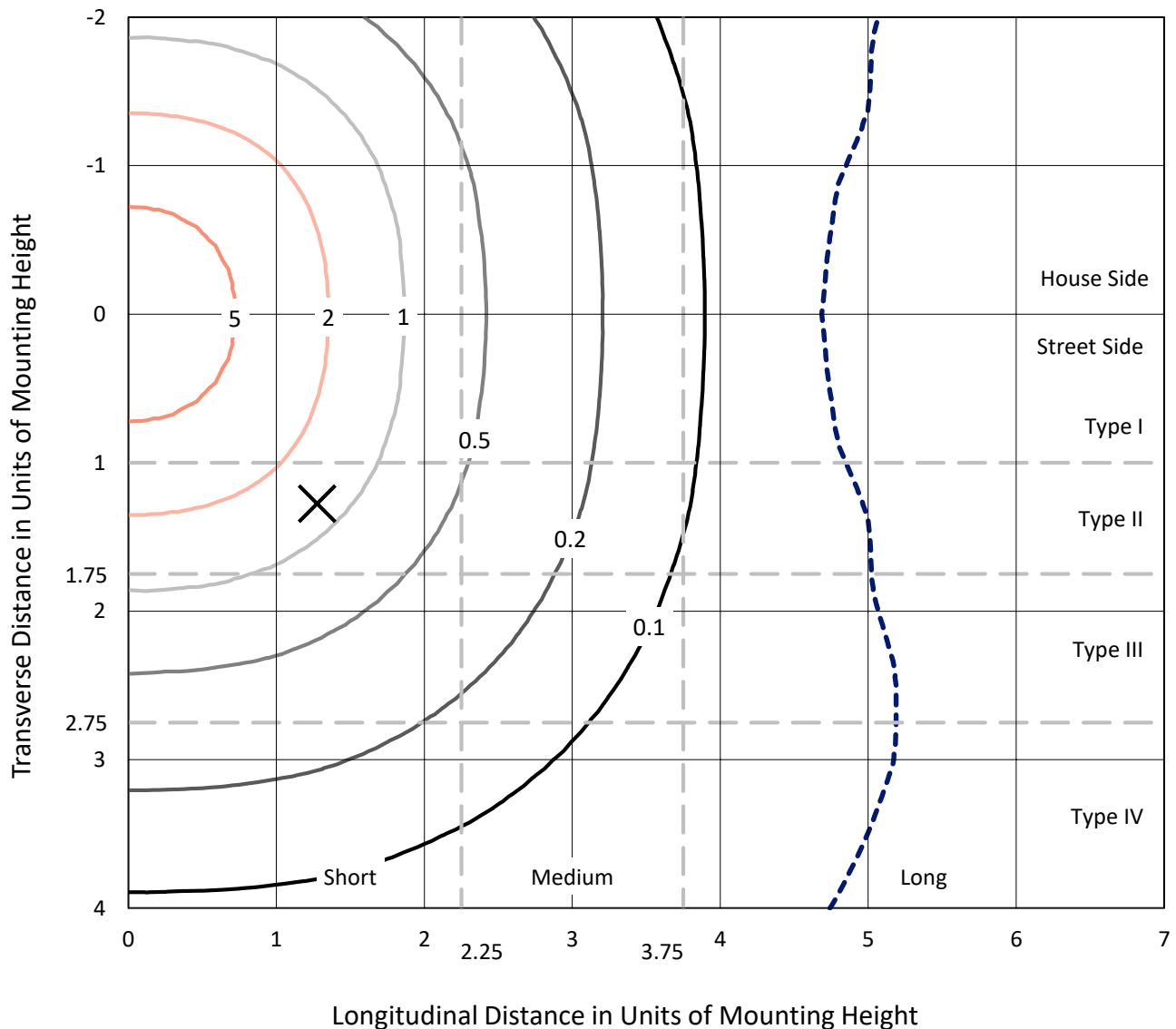


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

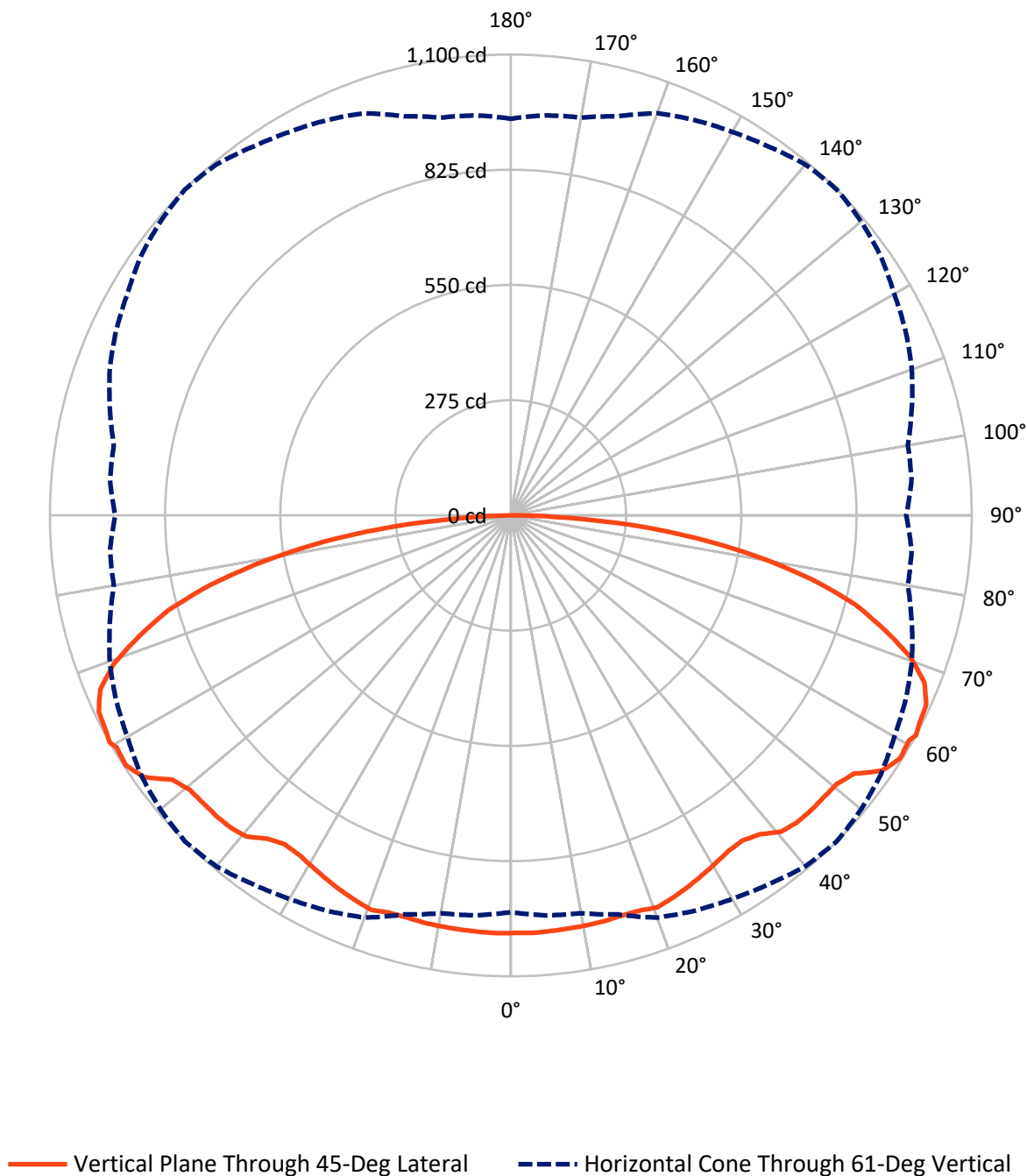


Based on 10 foot mounting height. Maximum calculated value = 10 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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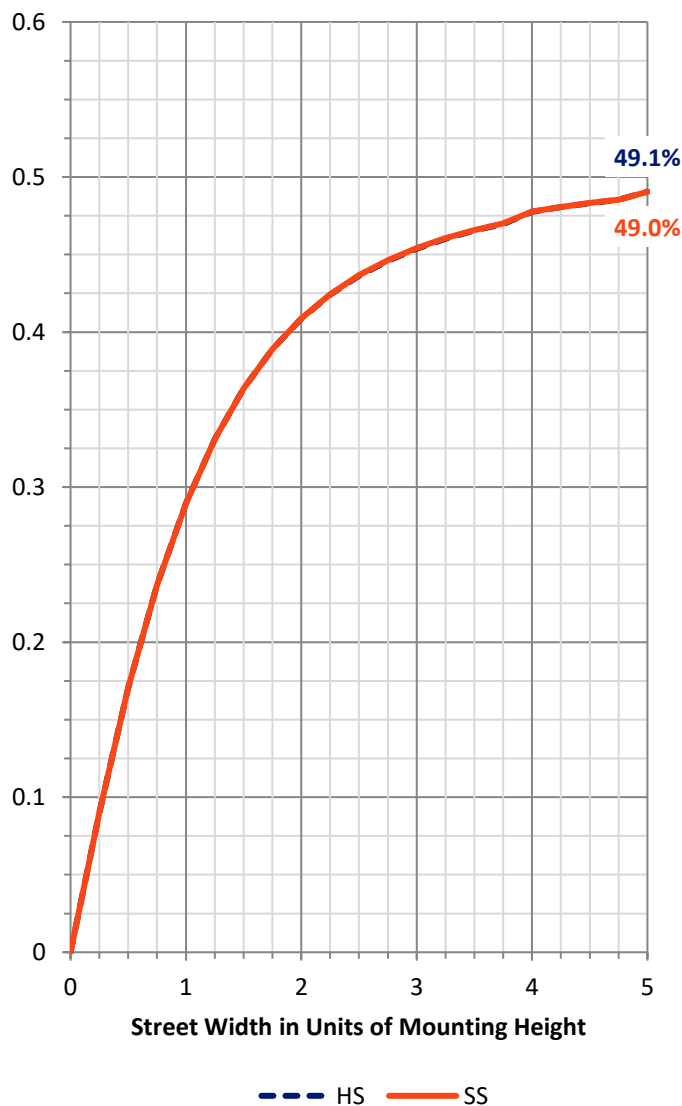
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2571.8	0.0	2571.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2571.8	0.0	2571.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5143.5	0.0	5143.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.8
10°-20°	281.1	5.5
20°-30°	452.2	8.8
30°-40°	599.1	11.6
40°-50°	756.5	14.7
50°-60°	906.5	17.6
60°-70°	991.2	19.3
70°-80°	793.4	15.4
80°-90°	268.4	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°	5143.5	100.0
0°-180°	5143.5	100.0

Coefficient of Utilization



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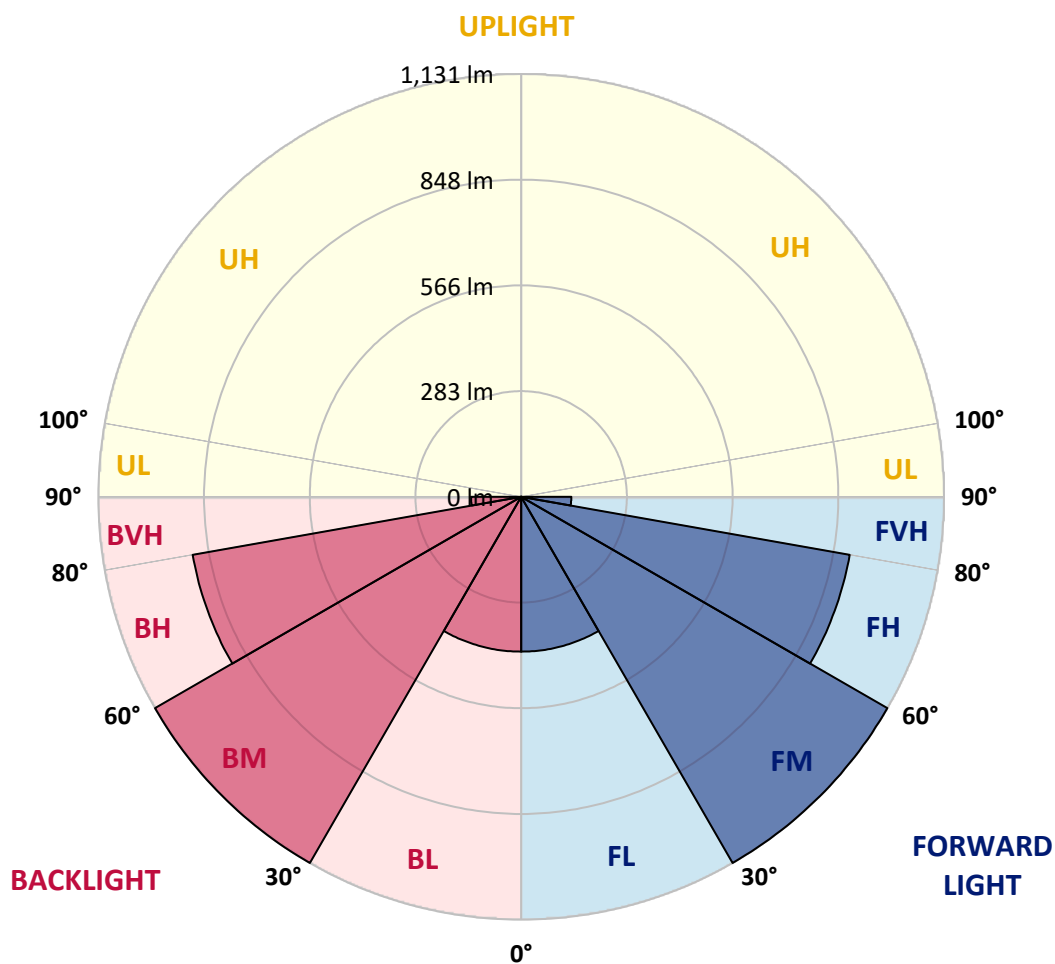
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.2	8.1			
FM	(30°-60°)	1131.1	22.0			
FH	(60°-80°)	892.3	17.3			G1/1800
FVH	(80°-90°)	134.2	2.6			G2/225
BL	(0°-30°)	414.2	8.1	B1/500		
BM	(30°-60°)	1131.1	22.0	B2/2500		
BH	(60°-80°)	892.3	17.3	B2/1000		G1/1800
BVH	(80°-90°)	134.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5
2.5°	997.5	996.5	997.5	997.5	997.5	997.5	997.5	997.5	997.5	997.5	997.5
5°	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5
7.5°	995.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5	996.5	995.5	996.5
10°	993.7	993.7	993.7	993.7	994.6	994.6	994.6	994.6	994.6	994.6	994.6
12.5°	991.7	991.7	991.7	991.7	992.7	992.7	992.7	992.7	993.7	993.7	992.7
15°	989.8	988.8	988.8	989.8	989.8	990.8	990.8	990.8	991.7	990.8	990.8
17.5°	987.9	986.9	987.9	988.8	988.8	989.8	990.8	990.8	991.7	991.7	991.7
20°	990.8	989.8	990.8	991.7	992.7	994.6	995.5	996.5	997.5	998.4	998.4
22.5°	985.1	984.1	985.1	985.1	986.0	986.9	988.8	989.8	990.8	990.8	990.8
25°	976.4	976.4	977.4	977.4	978.4	979.2	980.2	981.2	981.2	982.1	981.2
27.5°	966.8	966.8	967.8	967.8	969.7	969.7	970.7	971.6	972.5	972.5	972.5
30°	955.4	955.4	956.2	957.2	959.1	960.1	961.1	962.1	963.0	963.0	963.0
32.5°	944.8	943.8	944.8	946.7	949.5	951.5	953.4	954.4	954.4	954.4	955.4
35°	936.2	937.1	939.1	940.9	944.8	946.7	948.6	951.5	952.5	952.5	952.5
37.5°	938.1	939.1	941.9	945.8	950.5	956.2	960.1	963.9	966.8	965.8	964.9
40°	950.5	952.5	957.2	963.0	970.7	978.4	984.1	988.8	991.7	992.7	991.7
42.5°	952.5	954.4	958.2	966.8	975.4	984.1	991.7	996.5	1000.4	1001.4	1000.4
45°	951.5	951.5	957.2	966.8	975.4	984.1	993.7	1000.4	1004.2	1004.2	1004.2
47.5°	944.8	947.7	951.5	961.1	972.5	981.2	990.8	997.5	1002.2	1005.1	1002.2
50°	944.8	944.8	951.5	958.2	968.8	984.1	997.5	1004.2	1009.0	1008.0	1009.0
52.5°	942.8	948.6	952.5	962.1	981.2	996.5	1007.1	1016.7	1023.4	1024.3	1022.4
55°	960.1	961.1	969.7	987.9	1006.1	1023.4	1042.5	1056.8	1068.4	1075.1	1065.5
57.5°	973.5	968.8	986.0	1001.4	1022.4	1048.3	1077.0	1088.5	1097.1	1095.2	1098.1
60°	955.4	962.1	974.5	990.8	1024.3	1050.1	1065.5	1078.0	1088.5	1091.4	1087.5
61°	946.7	958.2	963.9	986.0	1021.4	1040.6	1056.8	1074.1	1093.3	1100.0	1091.4
62.5°	932.4	950.5	948.6	984.1	1006.1	1028.1	1058.8	1079.0	1092.4	1094.3	1092.4
65°	933.2	930.4	952.5	978.4	1000.4	1039.7	1065.5	1078.0	1085.7	1089.4	1087.5
67.5°	902.6	893.1	919.8	938.1	975.4	1006.1	1031.0	1049.2	1060.7	1064.5	1059.8
70°	831.8	838.5	857.6	885.4	916.1	953.4	976.4	1000.4	1009.9	1010.9	1010.9
72.5°	763.6	767.5	786.6	812.5	848.0	880.6	903.5	922.8	931.4	932.4	934.2
75°	673.6	677.4	699.5	723.5	758.9	786.6	802.9	825.9	838.5	848.9	840.3
77.5°	569.1	575.9	593.1	619.0	651.6	666.9	695.6	722.5	731.2	734.0	731.2
80°	451.3	460.0	475.3	509.7	524.1	549.0	576.8	588.3	596.0	597.9	598.9
82.5°	324.8	331.5	347.8	371.8	388.1	408.2	427.4	441.7	450.4	448.4	447.5
85°	191.6	193.6	210.8	227.1	239.5	252.0	267.3	277.9	279.8	283.6	282.6
87.5°	57.5	58.4	66.1	74.7	80.5	86.3	95.9	108.3	111.2	103.5	104.5
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°	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5
2.5°	997.5	997.5	997.5	997.5	997.5	997.5	996.5	997.5
5°	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5
7.5°	996.5	995.5	995.5	995.5	995.5	995.5	995.5	995.5
10°	994.6	994.6	994.6	994.6	993.7	993.7	993.7	993.7
12.5°	992.7	992.7	992.7	992.7	991.7	991.7	991.7	991.7
15°	990.8	990.8	990.8	990.8	989.8	989.8	989.8	989.8
17.5°	991.7	990.8	989.8	989.8	988.8	987.9	987.9	987.9
20°	997.5	996.5	994.6	992.7	991.7	990.8	990.8	990.8
22.5°	989.8	988.8	986.9	986.0	986.0	985.1	984.1	984.1
25°	981.2	979.2	979.2	978.4	978.4	976.4	976.4	975.4
27.5°	971.6	970.7	969.7	968.8	968.8	967.8	966.8	965.8
30°	963.0	961.1	959.1	958.2	957.2	956.2	956.2	956.2
32.5°	954.4	952.5	951.5	948.6	946.7	945.8	944.8	944.8
35°	951.5	948.6	946.7	943.8	940.9	939.1	938.1	936.2
37.5°	963.0	959.1	956.2	951.5	944.8	941.9	939.1	938.1
40°	987.9	984.1	978.4	970.7	963.0	957.2	952.5	950.5
42.5°	996.5	991.7	984.1	976.4	966.8	958.2	954.4	952.5
45°	999.4	994.6	984.1	974.5	965.8	958.2	952.5	950.5
47.5°	996.5	989.8	980.2	972.5	960.1	950.5	946.7	943.8
50°	1003.2	997.5	985.1	967.8	957.2	951.5	944.8	943.8
52.5°	1016.7	1006.1	994.6	982.1	962.1	950.5	946.7	941.9
55°	1056.8	1042.5	1022.4	1002.2	989.8	971.6	960.1	960.1
57.5°	1087.5	1076.1	1050.1	1023.4	1000.4	986.9	969.7	970.7
60°	1079.0	1063.6	1051.1	1024.3	991.7	973.5	966.8	954.4
61°	1078.0	1056.8	1039.7	1018.5	990.8	962.1	960.1	943.8
62.5°	1079.8	1060.7	1028.1	1006.1	985.1	947.7	946.7	931.4
65°	1078.0	1059.8	1043.5	1002.2	973.5	958.2	925.6	938.1
67.5°	1048.3	1032.0	1002.2	979.2	935.2	916.1	897.8	897.8
70°	1001.4	977.4	948.6	919.8	890.2	857.6	841.3	831.8
72.5°	922.8	902.6	879.6	848.9	812.5	782.9	767.5	760.8
75°	824.1	802.0	781.9	758.9	720.6	695.6	679.3	674.6
77.5°	720.6	701.4	665.9	643.9	618.0	589.3	574.9	569.1
80°	588.3	577.8	552.9	517.4	505.0	469.5	460.0	451.3
82.5°	441.7	430.2	407.2	382.4	367.0	346.8	329.6	327.7
85°	277.9	270.2	255.8	237.6	218.5	206.9	191.6	195.5
87.5°	103.5	98.7	90.0	78.6	70.0	62.3	54.6	57.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)