

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: P197516

Luminaire Tested: **TT-C2-LED-E1-CQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197516
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-CQ-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4096.9 lumens
Efficiency: N/A
Efficacy: 120.5 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

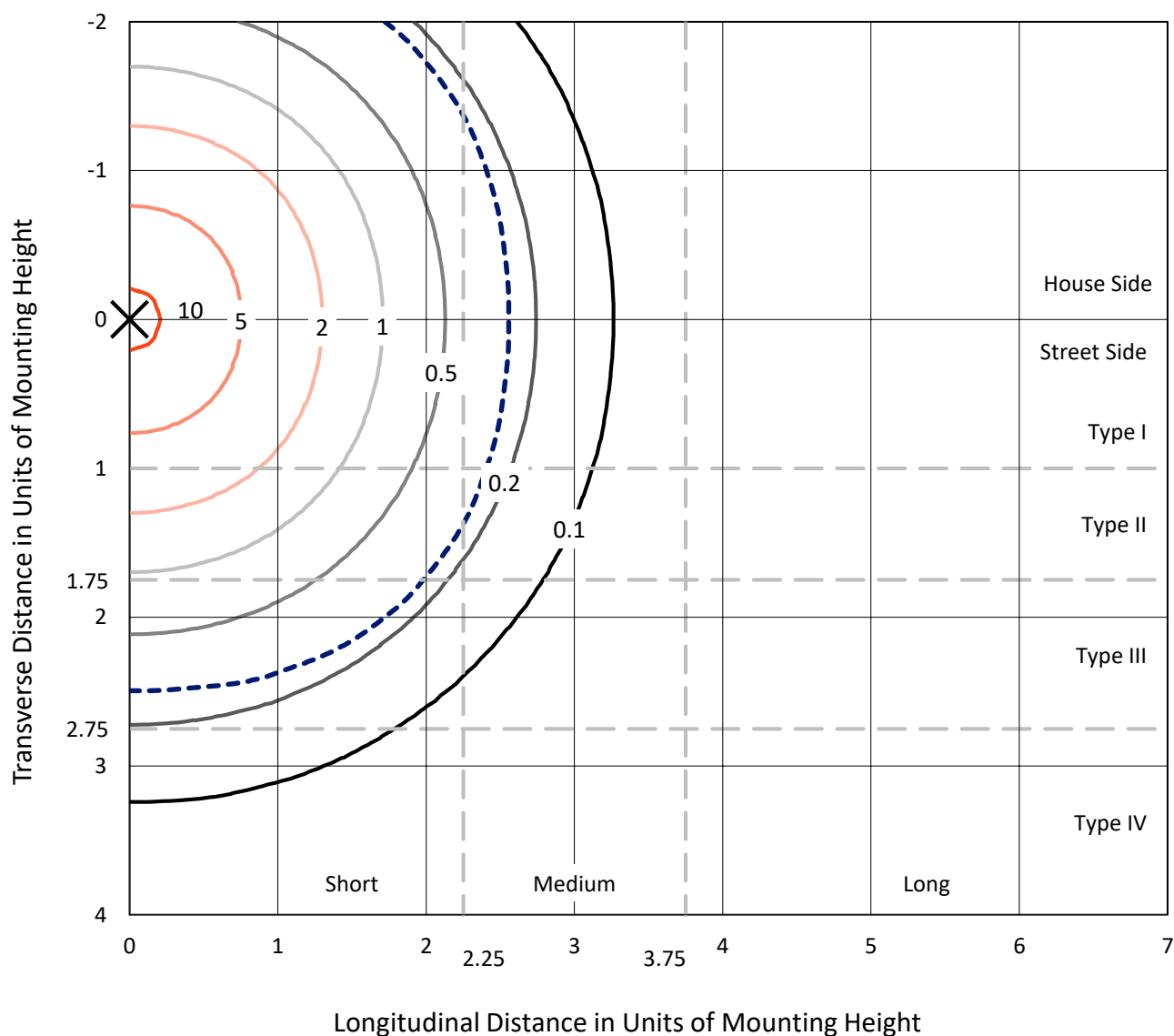


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

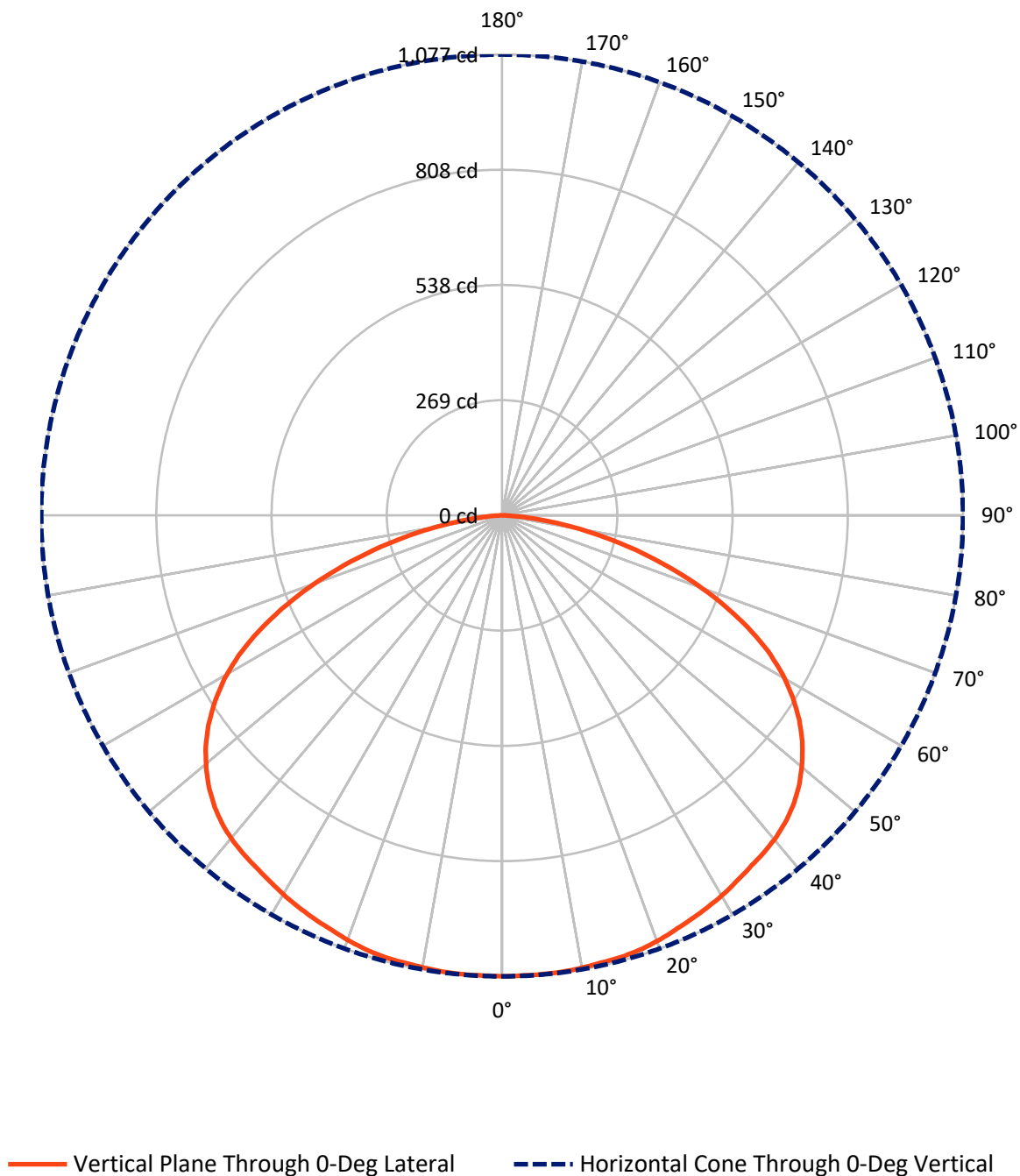


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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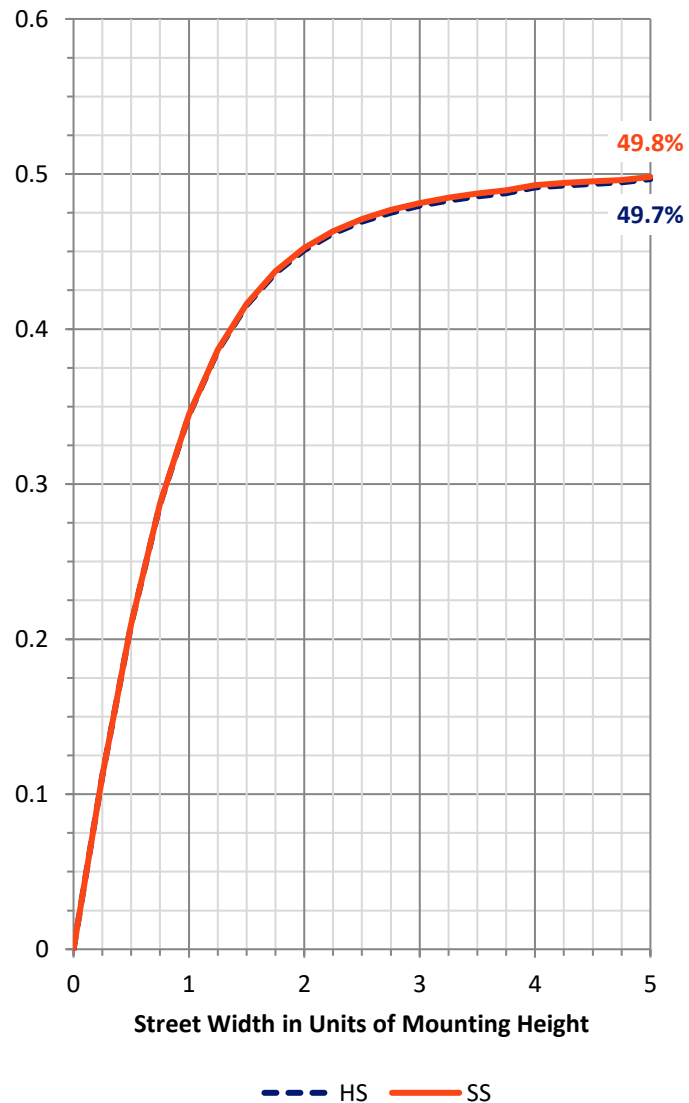
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2048.5	0.0	2048.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2048.5	0.0	2048.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4096.9	0.0	4096.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	2.5
10°-20°	302.1	7.4
20°-30°	481.2	11.7
30°-40°	630.9	15.4
40°-50°	744.1	18.2
50°-60°	770.6	18.8
60°-70°	644.5	15.7
70°-80°	351.3	8.6
80°-90°	69.7	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°	4096.9	100.0
0°-180°	4096.9	100.0

Coefficient of Utilization



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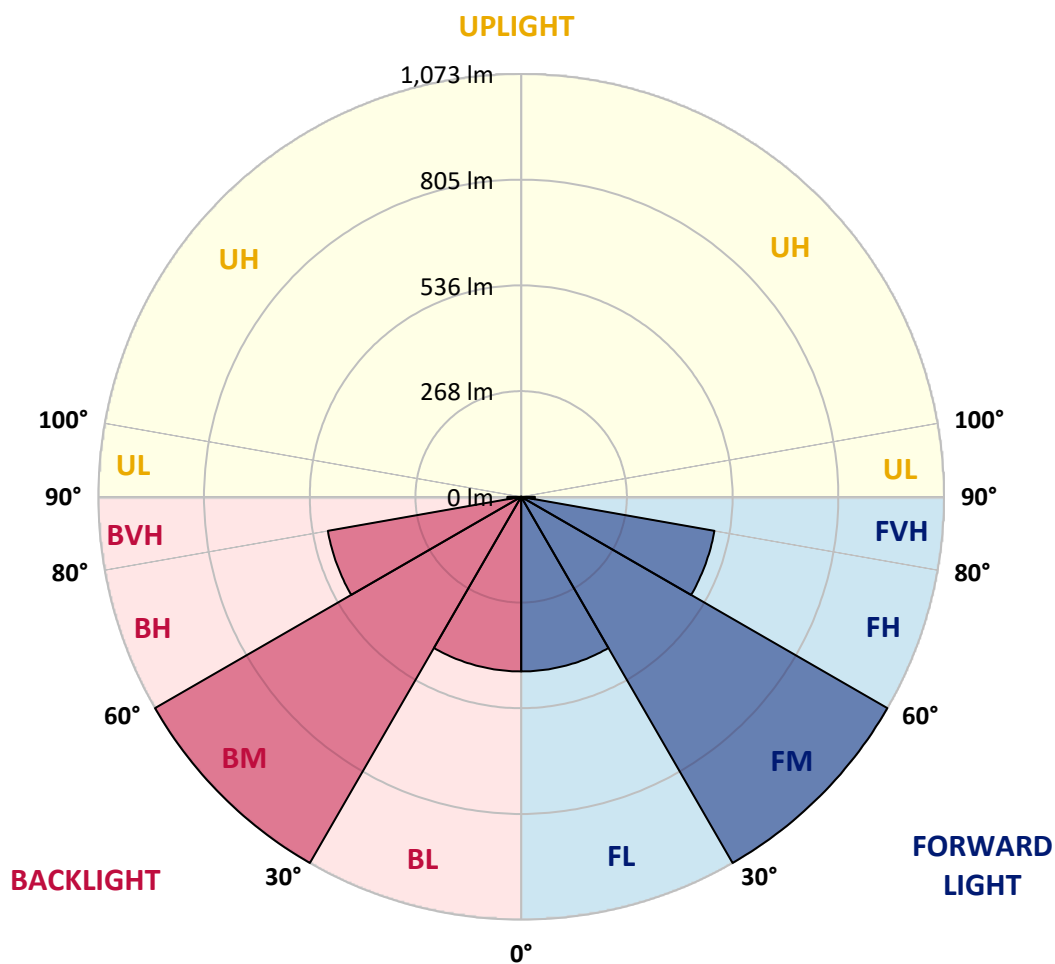
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.0	10.8			
FM	(30°-60°)	1072.8	26.2			
FH	(60°-80°)	497.9	12.2			G0/660
FVH	(80°-90°)	34.9	0.9			G1/100
BL	(0°-30°)	443.0	10.8	B1/500		
BM	(30°-60°)	1072.8	26.2	B2/2500		
BH	(60°-80°)	497.9	12.2	B1/500		G0/660
BVH	(80°-90°)	34.9	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°	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7
2.5°	1075.8	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7	1075.8	1076.7	1076.7
5°	1075.8	1075.8	1075.8	1075.8	1076.7	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
7.5°	1075.0	1074.1	1074.1	1074.1	1074.1	1074.1	1075.0	1075.0	1075.0	1075.0	1075.0
10°	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4
12.5°	1069.8	1069.8	1069.8	1069.8	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1069.8
15°	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1
17.5°	1063.8	1063.8	1063.8	1063.8	1064.6	1064.6	1064.6	1064.6	1064.6	1064.6	1064.6
20°	1056.9	1056.9	1056.9	1056.9	1056.9	1057.7	1058.6	1058.6	1058.6	1058.6	1058.6
22.5°	1048.2	1048.2	1049.1	1049.1	1050.0	1050.0	1050.8	1050.8	1050.8	1050.8	1050.8
25°	1040.5	1040.5	1040.5	1041.3	1041.3	1041.3	1042.2	1043.1	1043.1	1043.1	1042.2
27.5°	1032.7	1032.7	1032.7	1033.6	1033.6	1033.6	1034.4	1034.4	1035.3	1034.4	1034.4
30°	1024.1	1023.2	1023.2	1024.1	1025.0	1025.0	1025.8	1025.8	1025.8	1025.8	1025.0
32.5°	1013.8	1013.8	1014.6	1015.5	1015.5	1016.3	1017.2	1017.2	1017.2	1018.1	1016.3
35°	1004.3	1005.1	1005.1	1006.0	1007.7	1008.6	1009.4	1010.3	1010.3	1010.3	1008.6
37.5°	996.5	997.4	998.2	1000.0	1001.7	1003.4	1005.1	1006.9	1006.0	1006.0	1003.4
40°	987.0	987.9	989.6	991.3	994.8	996.5	999.1	1000.8	1001.7	1000.8	998.2
42.5°	974.1	975.0	976.7	979.3	983.6	987.0	989.6	992.2	993.1	992.2	989.6
45°	956.9	957.7	959.5	962.9	968.1	971.5	975.8	978.4	980.1	980.1	977.6
47.5°	935.3	936.2	938.8	942.2	947.4	951.7	956.9	960.3	962.0	963.8	961.2
50°	908.6	909.5	912.9	917.2	921.5	927.6	933.6	938.8	941.3	942.2	941.3
52.5°	878.4	879.3	882.7	887.0	893.1	900.0	906.9	912.9	916.3	918.1	916.3
55°	842.2	843.9	846.5	852.6	859.5	865.5	874.1	881.0	885.3	886.2	885.3
57.5°	800.0	802.6	805.1	812.0	818.9	827.6	834.5	841.4	846.5	847.4	847.4
60°	752.6	754.3	756.9	763.8	771.5	777.6	787.0	793.9	798.2	798.2	799.1
62.5°	696.5	698.3	702.6	707.7	716.4	722.4	730.1	737.0	741.4	743.1	742.2
65°	631.0	632.7	635.3	642.2	649.1	656.0	663.8	669.8	674.1	675.0	674.1
67.5°	558.6	560.3	562.1	570.7	577.6	580.2	589.6	594.8	597.4	598.3	598.3
70°	481.9	482.7	485.3	489.6	497.4	500.0	506.0	510.3	512.1	515.5	512.9
72.5°	401.7	403.4	409.5	410.3	416.4	419.8	421.5	421.5	425.8	425.8	426.7
75°	322.4	323.3	325.9	326.7	331.0	331.0	330.2	331.9	335.3	335.3	336.2
77.5°	244.0	244.0	248.3	244.8	246.5	243.1	244.8	243.1	245.7	244.8	245.7
80°	170.7	170.7	173.3	169.8	170.7	167.2	168.1	167.2	167.2	168.1	168.1
82.5°	105.2	106.0	107.8	105.2	105.2	102.6	103.4	104.3	104.3	103.4	102.6
85°	51.7	51.7	53.4	52.6	51.7	50.0	50.9	51.7	51.7	50.9	50.9
87.5°	13.8	13.8	14.7	14.7	13.8	12.9	13.8	14.7	14.7	14.7	13.8
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°	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7	1076.7
2.5°	1075.8	1075.8	1076.7	1075.8	1076.7	1075.8	1076.7	1076.7
5°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
7.5°	1074.1	1075.0	1074.1	1074.1	1074.1	1075.0	1074.1	1075.0
10°	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4	1072.4
12.5°	1069.8	1069.8	1069.8	1069.8	1069.8	1069.8	1069.8	1068.9
15°	1068.1	1067.2	1067.2	1067.2	1066.3	1066.3	1066.3	1066.3
17.5°	1064.6	1063.8	1062.9	1062.9	1062.9	1062.9	1062.0	1062.0
20°	1058.6	1057.7	1056.9	1056.9	1056.0	1056.0	1055.1	1055.1
22.5°	1050.0	1050.0	1049.1	1048.2	1048.2	1047.4	1047.4	1046.5
25°	1042.2	1041.3	1040.5	1039.6	1038.8	1038.8	1037.9	1037.0
27.5°	1033.6	1031.9	1031.0	1030.1	1029.3	1028.4	1027.6	1026.7
30°	1024.1	1022.4	1020.7	1019.8	1018.1	1016.3	1015.5	1014.6
32.5°	1014.6	1012.9	1010.3	1007.7	1006.0	1004.3	1002.6	1001.7
35°	1006.9	1003.4	1000.8	997.4	994.8	992.2	991.3	990.5
37.5°	1000.8	997.4	993.1	989.6	987.0	983.6	981.9	980.1
40°	994.8	990.5	985.3	981.0	977.6	973.2	971.5	969.8
42.5°	986.2	981.0	975.8	970.7	965.5	961.2	958.6	956.9
45°	974.1	968.9	962.9	956.0	950.8	945.7	943.1	941.3
47.5°	957.7	952.6	945.7	939.6	933.6	928.4	925.0	923.2
50°	937.9	932.7	925.8	918.9	912.9	906.9	904.3	901.7
52.5°	912.9	908.6	900.8	895.7	888.8	882.7	880.1	878.4
55°	881.9	877.6	869.8	864.6	857.7	852.6	849.1	846.5
57.5°	843.9	840.5	831.9	826.7	819.8	814.6	812.0	810.3
60°	797.4	793.9	785.3	780.1	774.1	768.1	766.4	764.6
62.5°	739.6	737.9	731.0	725.0	718.9	712.9	711.2	710.3
65°	672.4	670.7	664.6	659.5	654.3	649.1	647.4	645.7
67.5°	595.7	594.8	589.6	585.3	581.9	576.7	575.8	574.1
70°	513.8	512.1	507.7	504.3	501.7	497.4	496.5	494.8
72.5°	428.4	427.6	425.0	420.7	420.7	414.6	413.8	412.9
75°	334.5	338.8	335.3	333.6	333.6	330.2	330.2	329.3
77.5°	244.8	249.1	251.7	248.3	251.7	248.3	248.3	247.4
80°	167.2	170.7	173.3	170.7	175.0	172.4	172.4	175.9
82.5°	101.7	105.2	106.9	106.0	108.6	107.8	106.9	109.5
85°	50.0	51.7	52.6	52.6	53.4	51.7	53.4	54.3
87.5°	12.9	13.8	14.7	13.8	14.7	14.7	14.7	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)