

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: P198063

Luminaire Tested: **TT-C1-LED-E1-RW-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34695)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-RW-CG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2902.9 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 28
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



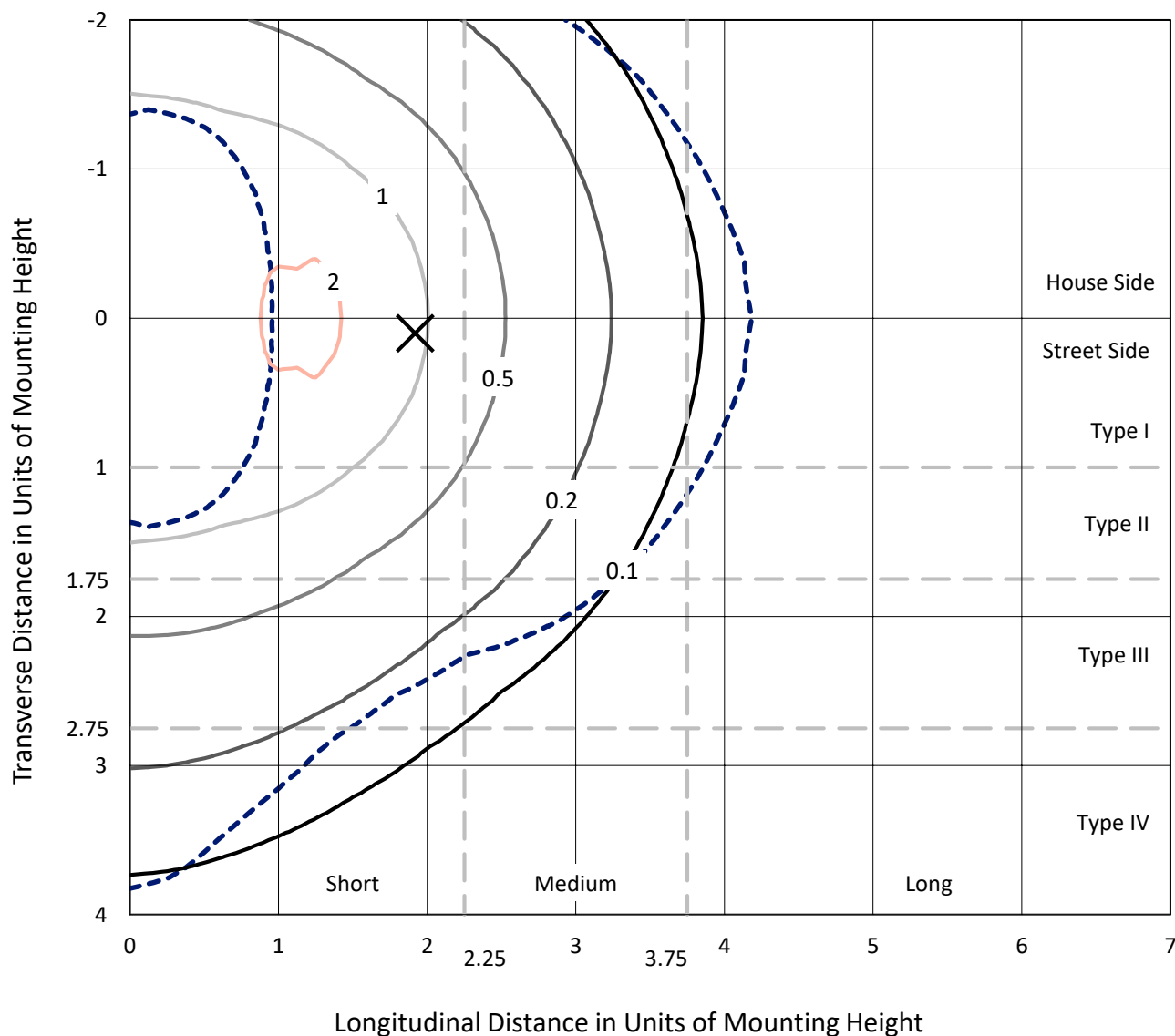
REPORT NUMBER: P198063

CATALOG NUMBER: TT-C1-LED-E1-RW-CG-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

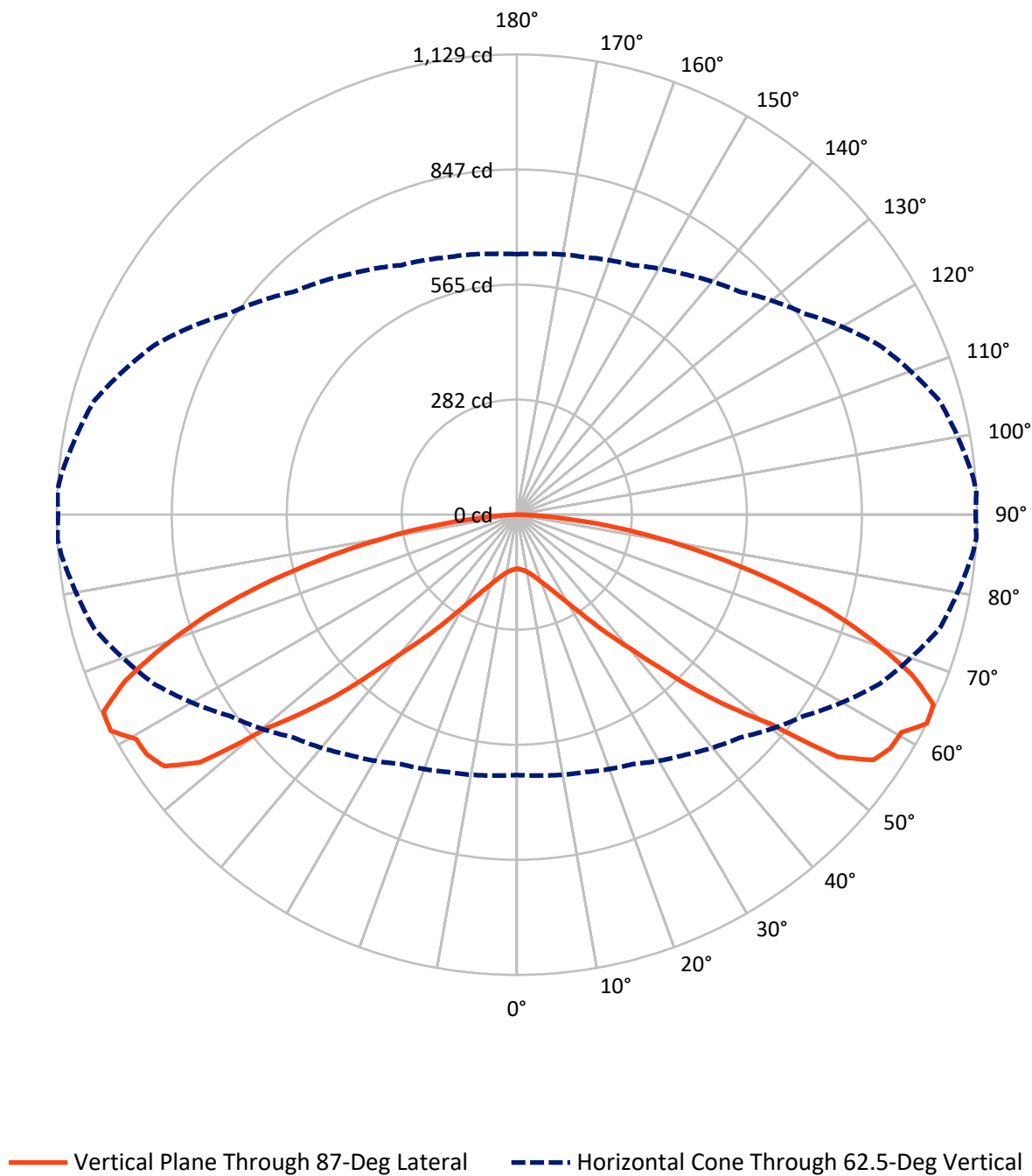


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198063

CATALOG NUMBER: TT-C1-LED-E1-RW-CG-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P198063

CATALOG NUMBER: TT-C1-LED-E1-RW-CG-7050

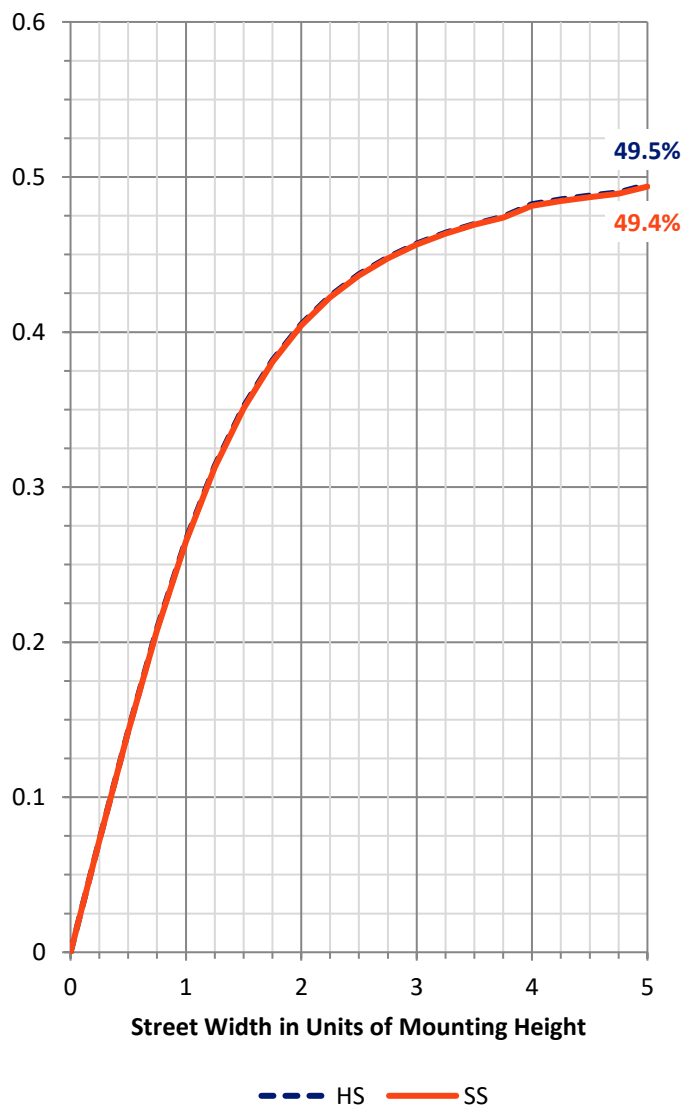
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1451.4	0.0	1451.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1451.4	0.0	1451.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	2902.9	0.0	2902.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.5
10°-20°	45.9	1.6
20°-30°	101.2	3.5
30°-40°	203.7	7.0
40°-50°	388.6	13.4
50°-60°	665.4	22.9
60°-70°	806.2	27.8
70°-80°	558.6	19.2
80°-90°	120.1	4.1
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°	2902.9	100.0
0°-180°	2902.9	100.0

Coefficient of Utilization



REPORT NUMBER: P198063

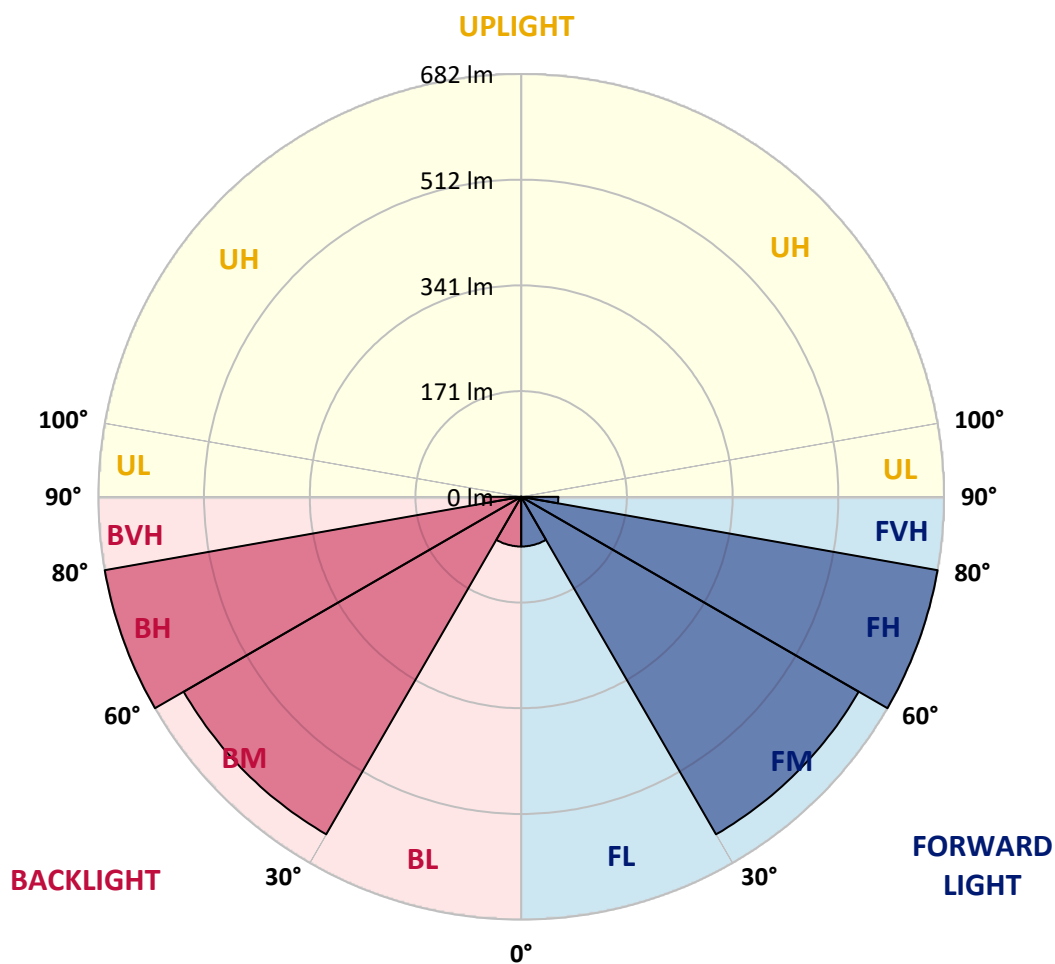
CATALOG NUMBER: TT-C1-LED-E1-RW-CG-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.1	2.8			
FM	(30°-60°)	628.9	21.7			
FH	(60°-80°)	682.4	23.5			G1/1800
FVH	(80°-90°)	60.0	2.1			G1/100
BL	(0°-30°)	80.1	2.8	B0/110		
BM	(30°-60°)	628.9	21.7	B1/1000		
BH	(60°-80°)	682.4	23.5	B2/1000		G2/1000
BVH	(80°-90°)	60.0	2.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



REPORT NUMBER: P198063

CATALOG NUMBER: TT-C1-LED-E1-RW-CG-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4
2.5°	133.6	133.6	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2
5°	136.0	136.0	136.0	136.5	136.5	136.5	136.5	136.5	136.0	136.0	136.0
7.5°	139.5	139.5	139.5	140.1	140.1	140.1	139.5	139.5	138.9	138.9	138.9
10°	144.3	144.3	144.9	144.9	144.3	144.3	143.7	143.1	143.7	143.1	143.1
12.5°	150.8	152.0	151.4	151.4	150.2	150.2	149.6	149.6	149.6	149.0	149.0
15°	160.3	160.3	160.9	159.7	159.7	157.9	157.3	156.7	157.3	157.3	156.7
17.5°	171.6	171.6	171.6	169.8	168.6	167.4	166.8	166.2	165.6	166.2	166.2
20°	188.8	187.6	185.2	184.0	181.1	179.9	178.7	178.1	177.5	177.5	177.5
22.5°	206.6	205.4	202.4	200.1	197.7	194.7	193.5	191.2	190.6	191.8	191.2
25°	223.8	225.6	222.0	219.1	217.3	212.5	209.6	209.0	207.8	207.2	207.8
27.5°	245.2	246.4	243.4	239.3	235.7	232.1	229.2	228.0	228.6	228.6	229.2
30°	268.9	271.3	266.6	264.2	258.8	254.1	251.7	252.9	254.1	255.9	255.3
32.5°	296.2	296.2	293.9	289.7	283.8	279.6	278.4	280.2	285.6	287.9	287.3
35°	328.3	325.9	323.6	318.2	310.5	308.1	310.5	316.4	324.1	328.3	330.7
37.5°	361.5	356.8	353.2	347.3	343.7	342.6	347.9	359.2	367.5	375.2	378.8
40°	390.0	390.0	385.3	378.8	375.2	380.5	388.9	404.9	420.9	429.2	435.2
42.5°	418.5	422.1	416.8	411.4	411.4	418.5	434.6	459.5	489.8	507.6	510.6
45°	448.2	454.8	447.6	444.1	447.6	461.9	492.2	540.2	585.4	614.5	609.7
47.5°	479.1	485.0	478.5	476.7	485.0	510.6	556.9	618.6	663.7	694.0	705.9
50°	517.1	512.9	510.6	510.0	527.2	565.2	625.1	691.6	764.1	791.4	806.2
52.5°	549.2	542.0	540.8	545.0	573.5	619.2	694.0	816.3	916.6	984.3	986.7
55°	577.1	569.3	573.5	583.6	622.2	685.7	780.1	923.2	1008.1	1058.5	1062.7
57.5°	600.8	596.6	603.8	617.4	667.3	743.3	849.0	967.1	1037.2	1077.5	1081.7
60°	622.2	621.6	629.3	652.5	708.3	777.1	864.4	970.1	1043.1	1079.3	1084.6
62.5°	638.8	642.4	653.6	675.0	719.5	773.6	860.8	982.5	1075.1	1122.6	1129.2
65°	653.0	656.6	667.9	675.0	714.8	766.4	880.4	990.8	1070.4	1119.7	1123.8
67.5°	660.8	664.9	663.1	664.3	695.2	735.6	834.1	929.1	994.4	1039.5	1044.9
70°	659.6	656.0	641.8	626.9	633.5	661.9	751.0	830.6	889.9	925.5	927.3
72.5°	634.6	628.7	594.9	560.4	550.3	569.3	647.1	707.1	757.5	790.2	800.3
75°	578.2	566.4	517.1	472.6	450.0	464.3	524.2	576.5	613.9	645.9	652.5
77.5°	475.5	468.4	419.1	370.5	345.5	355.0	402.5	433.4	473.8	507.0	498.7
80°	346.1	344.9	305.1	261.8	244.0	248.2	273.7	304.0	329.5	354.4	355.6
82.5°	226.2	222.6	195.9	164.4	146.0	148.4	164.4	180.5	204.8	220.8	225.6
85°	112.2	110.4	98.6	79.0	68.9	68.9	76.6	86.1	98.0	105.1	104.5
87.5°	30.9	27.9	27.3	20.2	16.6	17.8	17.8	19.6	24.9	26.7	28.5
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: P198063

CATALOG NUMBER: TT-C1-LED-E1-RW-CG-7050

CANDELA DISTRIBUTION (continued):

	90°
0°	132.4
2.5°	134.2
5°	136.0
7.5°	138.9
10°	143.7
12.5°	149.0
15°	156.7
17.5°	165.6
20°	177.5
22.5°	192.4
25°	207.8
27.5°	228.6
30°	255.9
32.5°	287.9
35°	329.5
37.5°	375.8
40°	432.8
42.5°	507.6
45°	615.0
47.5°	699.9
50°	798.5
52.5°	990.3
55°	1063.9
57.5°	1082.9
60°	1085.2
62.5°	1126.2
65°	1128.6
67.5°	1040.7
70°	930.3
72.5°	799.1
75°	657.2
77.5°	507.6
80°	355.0
82.5°	222.0
85°	103.9
87.5°	26.1
90°	0.0

(END OF REPORT)