

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: P198062

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198062
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3064.2 lumens
Efficiency: N/A
Efficacy: 109.4 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



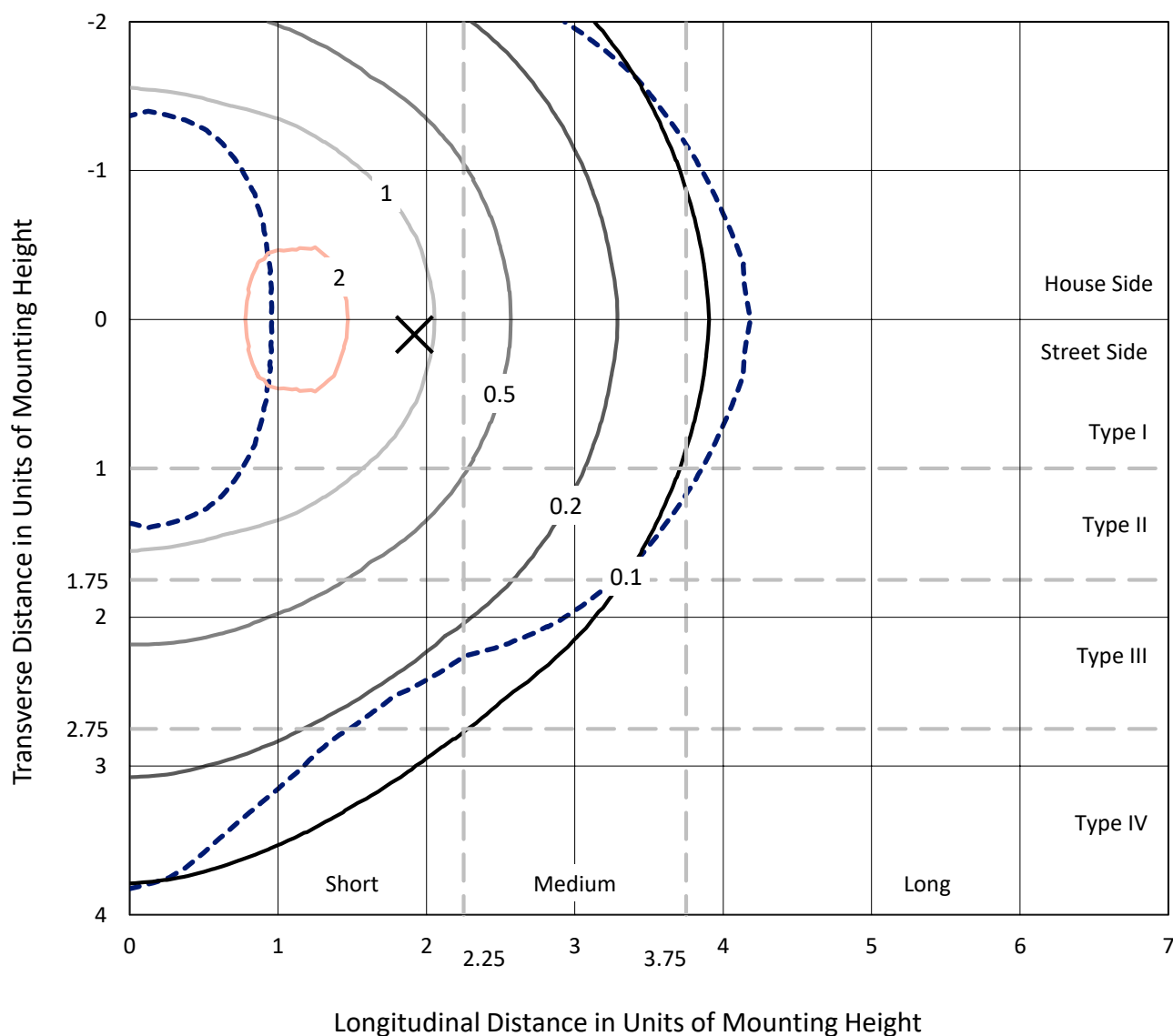
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

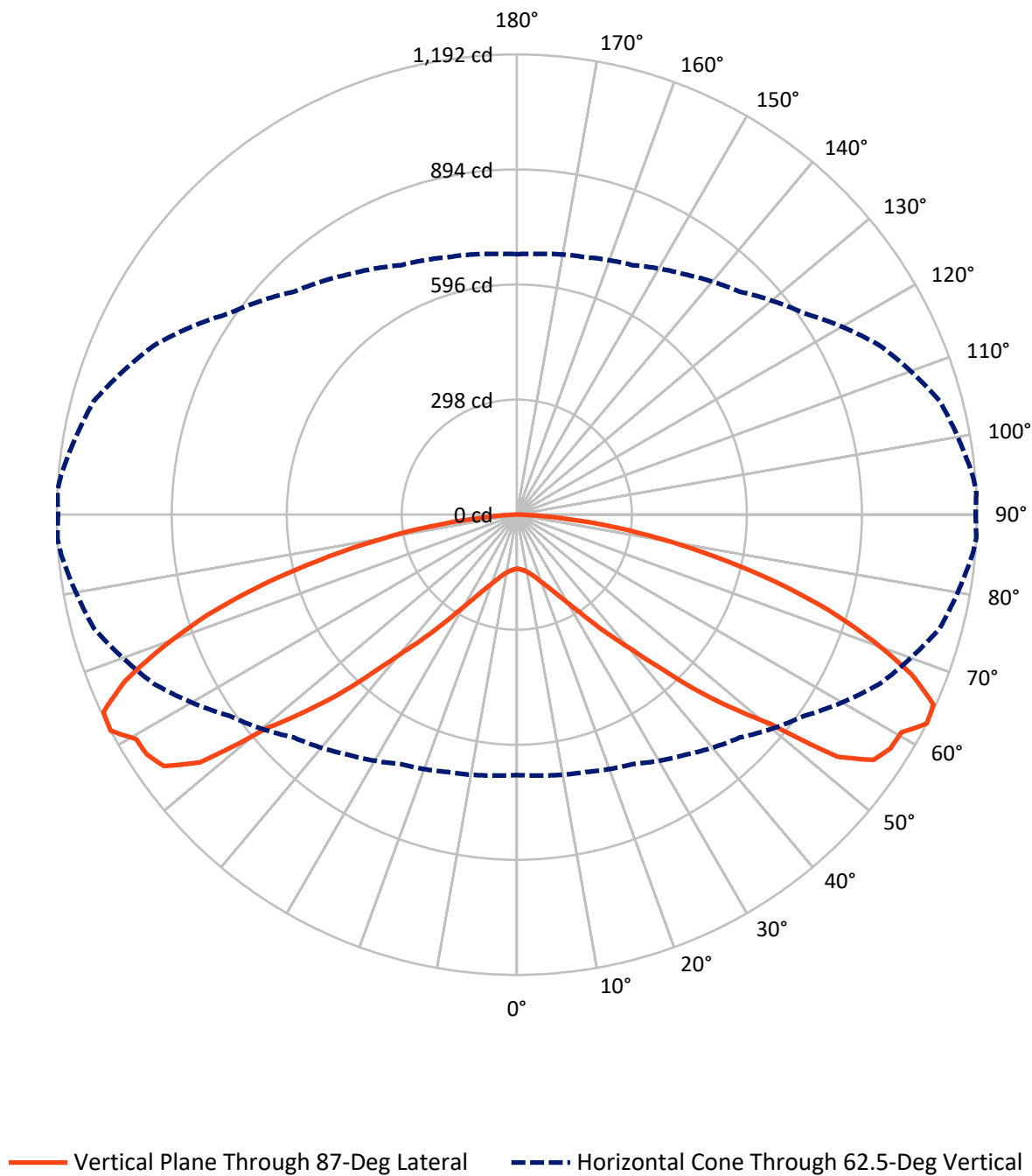


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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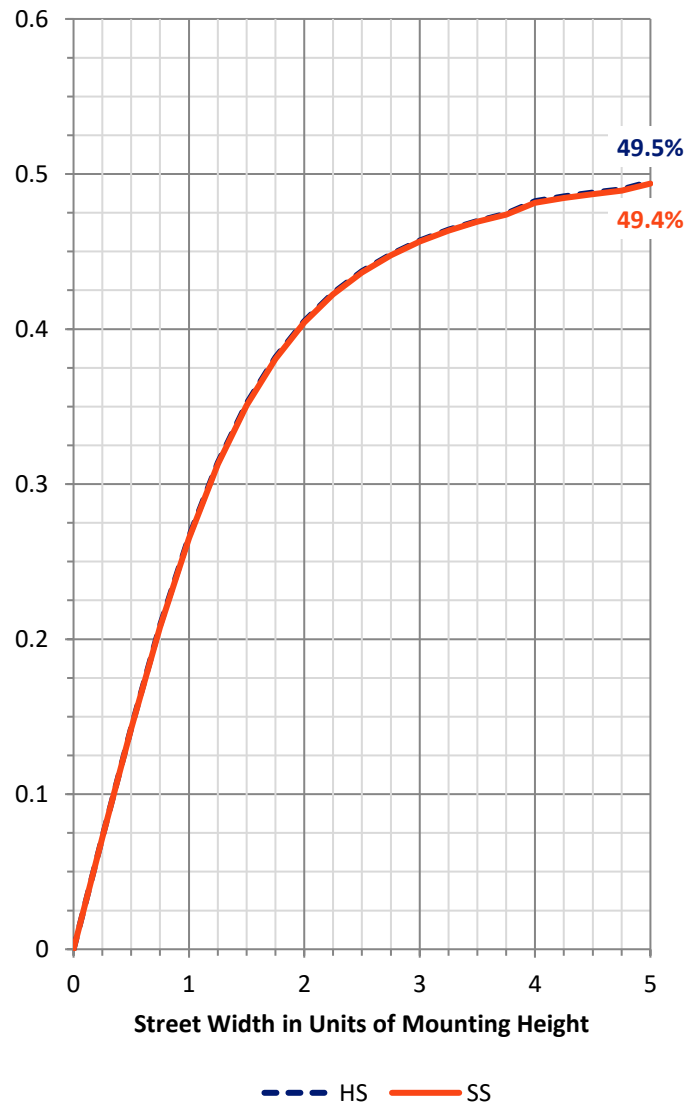
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1532.1	0.0	1532.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1532.1	0.0	1532.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	3064.2	0.0	3064.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.5
10°-20°	48.4	1.6
20°-30°	106.8	3.5
30°-40°	215.1	7.0
40°-50°	410.2	13.4
50°-60°	702.4	22.9
60°-70°	851.0	27.8
70°-80°	589.6	19.2
80°-90°	126.7	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°	3064.2	100.0
0°-180°	3064.2	100.0

Coefficient of Utilization



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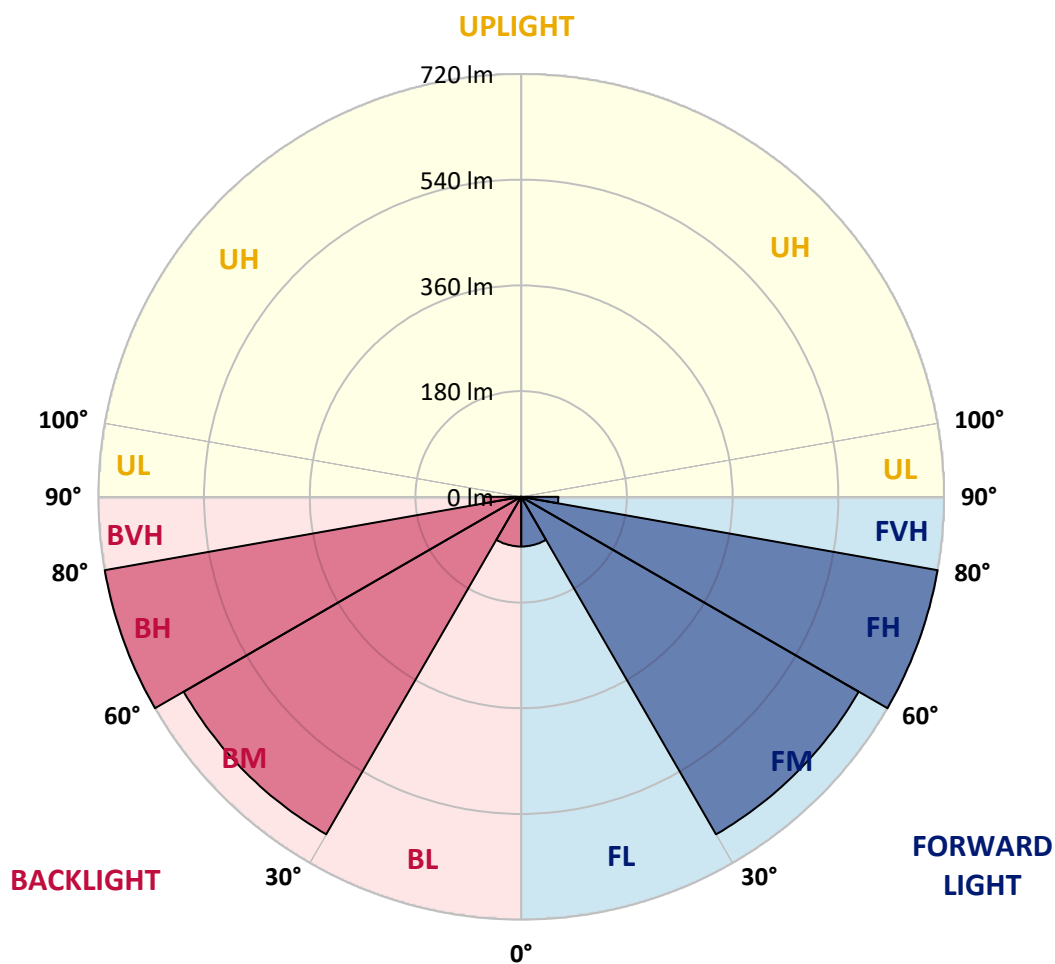
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.6	2.8			
FM	(30°-60°)	663.9	21.7			
FH	(60°-80°)	720.3	23.5			G1/1800
FVH	(80°-90°)	63.4	2.1			G1/100
BL	(0°-30°)	84.6	2.8	B0/110		
BM	(30°-60°)	663.9	21.7	B1/1000		
BH	(60°-80°)	720.3	23.5	B2/1000		G2/1000
BVH	(80°-90°)	63.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7
2.5°	141.0	141.0	141.6	141.6	141.6	141.6	141.6	141.6	141.6	141.6	141.6
5°	143.5	143.5	143.5	144.1	144.1	144.1	144.1	144.1	143.5	143.5	143.5
7.5°	147.3	147.3	147.3	147.9	147.9	147.9	147.3	147.3	146.6	146.6	146.6
10°	152.3	152.3	152.9	152.9	152.3	152.3	151.7	151.0	151.7	151.0	151.0
12.5°	159.2	160.4	159.8	159.8	158.5	158.5	157.9	157.9	157.9	157.3	157.3
15°	169.2	169.2	169.8	168.6	168.6	166.7	166.1	165.4	166.1	166.1	165.4
17.5°	181.1	181.1	181.1	179.2	178.0	176.7	176.1	175.5	174.8	175.5	175.5
20°	199.3	198.0	195.5	194.3	191.1	189.9	188.6	188.0	187.4	187.4	187.4
22.5°	218.1	216.8	213.7	211.2	208.7	205.5	204.3	201.8	201.2	202.4	201.8
25°	236.3	238.1	234.4	231.2	229.4	224.3	221.2	220.6	219.3	218.7	219.3
27.5°	258.8	260.1	256.9	252.5	248.8	245.0	241.9	240.6	241.3	241.3	241.9
30°	283.9	286.4	281.4	278.9	273.2	268.2	265.7	267.0	268.2	270.1	269.5
32.5°	312.7	312.7	310.2	305.8	299.5	295.2	293.9	295.8	301.4	303.9	303.3
35°	346.5	344.0	341.5	335.9	327.7	325.2	327.7	334.0	342.2	346.5	349.1
37.5°	381.6	376.6	372.9	366.6	362.8	361.6	367.2	379.1	387.9	396.1	399.8
40°	411.7	411.7	406.7	399.8	396.1	401.7	410.5	427.4	444.3	453.1	459.3
42.5°	441.8	445.6	439.9	434.3	434.3	441.8	458.7	485.0	517.0	535.8	538.9
45°	473.1	480.0	472.5	468.7	472.5	487.5	519.5	570.3	617.9	648.6	643.6
47.5°	505.7	512.0	505.1	503.2	512.0	538.9	587.8	653.0	700.6	732.6	745.1
50°	545.8	541.4	538.9	538.3	556.5	596.6	659.9	730.1	806.5	835.3	851.0
52.5°	579.7	572.1	570.9	575.3	605.4	653.6	732.6	861.7	967.6	1039.0	1041.5
55°	609.1	601.0	605.4	616.0	656.7	723.8	823.4	974.5	1064.1	1117.3	1121.7
57.5°	634.2	629.8	637.3	651.7	704.4	784.6	896.1	1020.8	1094.8	1137.4	1141.8
60°	656.7	656.1	664.3	688.7	747.6	820.3	912.4	1024.0	1101.0	1139.3	1144.9
62.5°	674.3	678.0	690.0	712.5	759.5	816.5	908.7	1037.1	1134.9	1185.0	1191.9
65°	689.3	693.1	705.0	712.5	754.5	809.0	929.3	1045.9	1129.9	1181.9	1186.3
67.5°	697.5	701.9	700.0	701.2	733.8	776.4	880.5	980.7	1049.7	1097.3	1102.9
70°	696.2	692.5	677.4	661.8	668.6	698.7	792.7	876.7	939.4	977.0	978.8
72.5°	669.9	663.6	627.9	591.6	580.9	601.0	683.1	746.4	799.6	834.1	844.7
75°	610.4	597.8	545.8	498.8	475.0	490.1	553.3	608.5	648.0	681.8	688.7
77.5°	502.0	494.4	442.4	391.0	364.7	374.7	424.9	457.5	500.1	535.2	526.4
80°	365.3	364.1	322.1	276.4	257.6	261.9	288.9	320.9	347.8	374.1	375.4
82.5°	238.8	235.0	206.8	173.6	154.2	156.7	173.6	190.5	216.2	233.1	238.1
85°	118.4	116.6	104.0	83.3	72.7	72.7	80.8	90.9	103.4	110.9	110.3
87.5°	32.6	29.5	28.8	21.3	17.5	18.8	18.8	20.7	26.3	28.2	30.1
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):

	90°
0°	139.7
2.5°	141.6
5°	143.5
7.5°	146.6
10°	151.7
12.5°	157.3
15°	165.4
17.5°	174.8
20°	187.4
22.5°	203.0
25°	219.3
27.5°	241.3
30°	270.1
32.5°	303.9
35°	347.8
37.5°	396.7
40°	456.8
42.5°	535.8
45°	649.2
47.5°	738.8
50°	842.9
52.5°	1045.3
55°	1123.0
57.5°	1143.0
60°	1145.5
62.5°	1188.8
65°	1191.3
67.5°	1098.5
70°	982.0
72.5°	843.5
75°	693.7
77.5°	535.8
80°	374.7
82.5°	234.4
85°	109.7
87.5°	27.6
90°	0.0

(END OF REPORT)