

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: P198066

Luminaire Tested: **TT-C2-LED-E1-RW-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198066
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-C2-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: 3718.8 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): 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



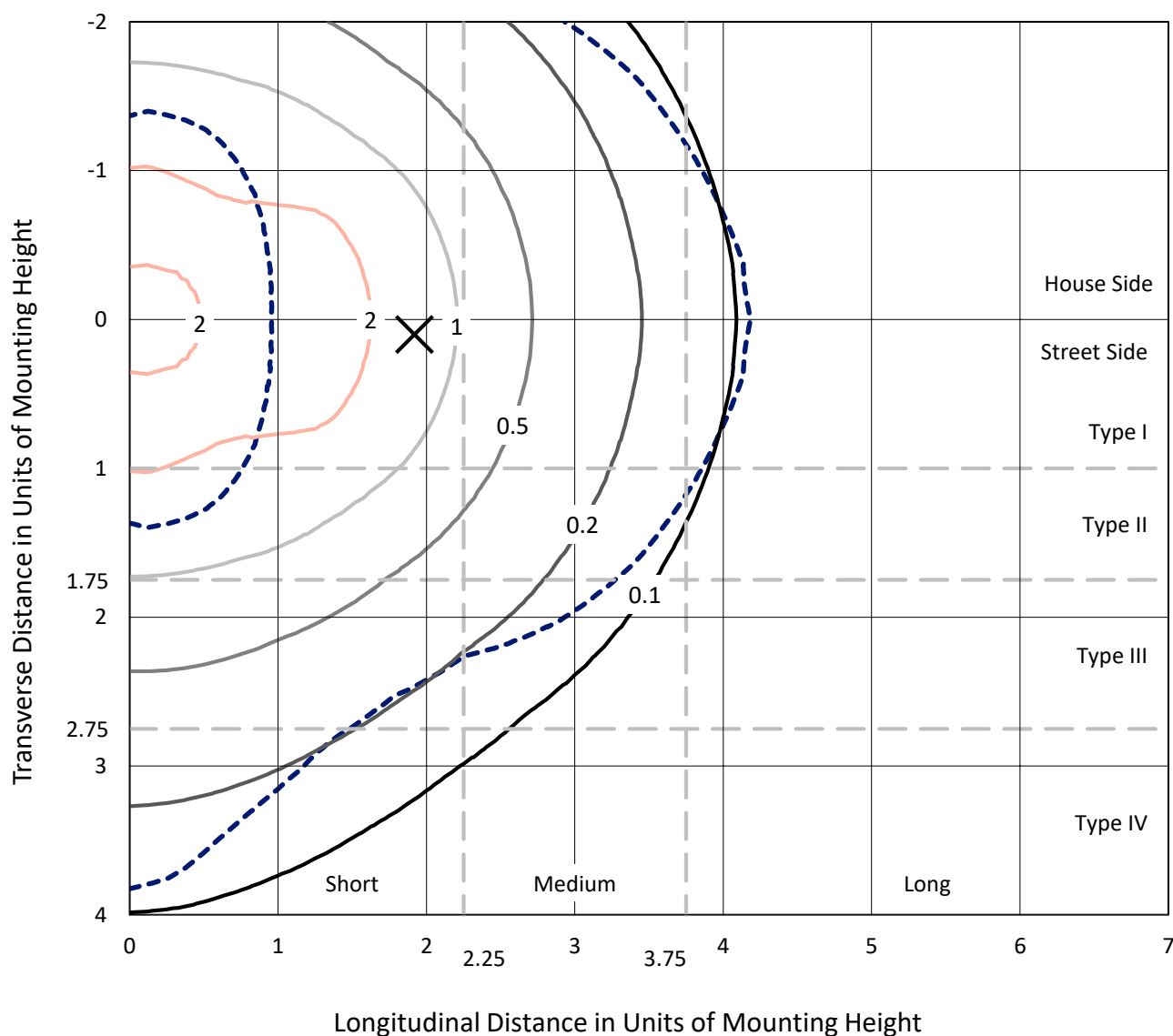
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

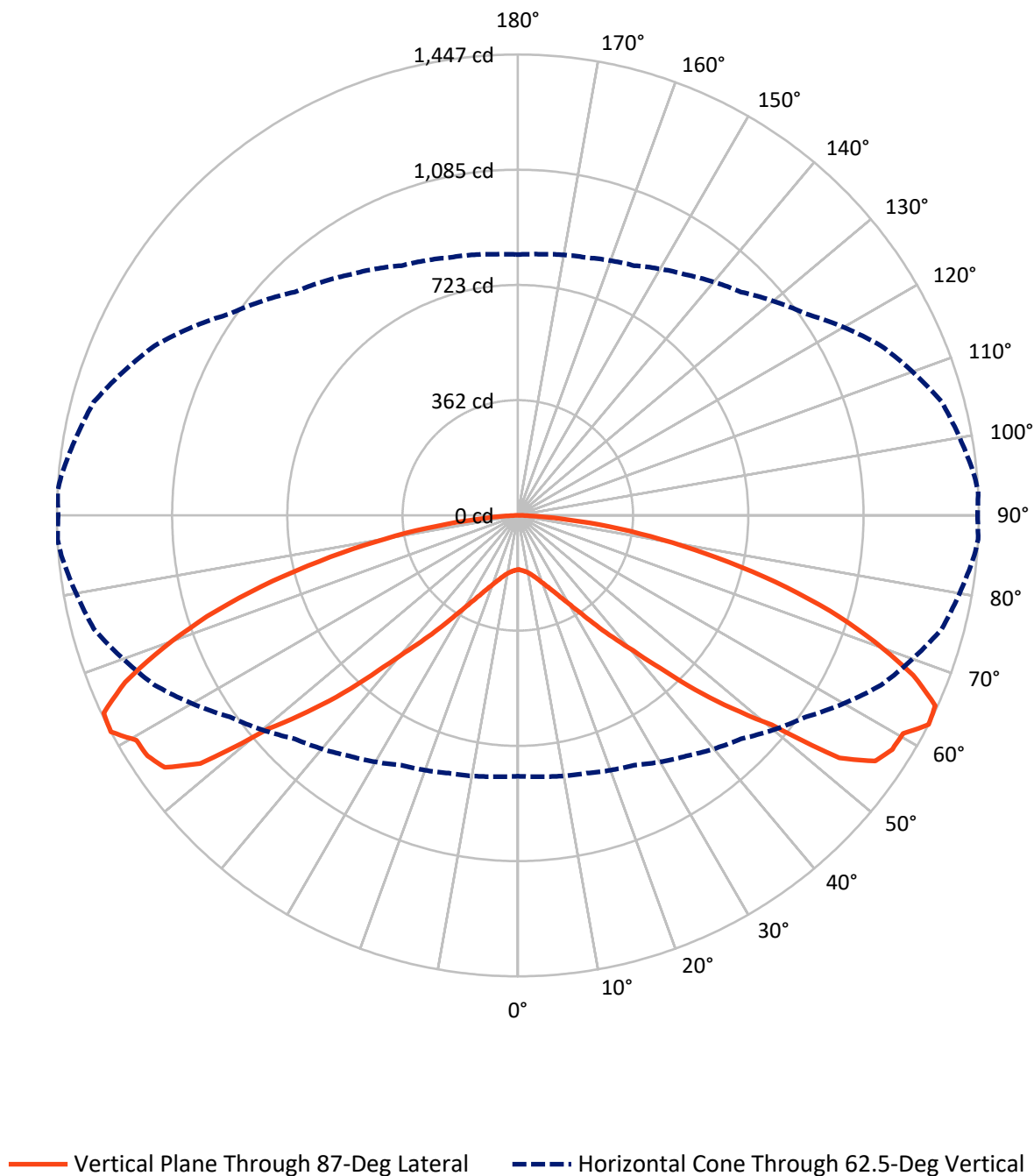


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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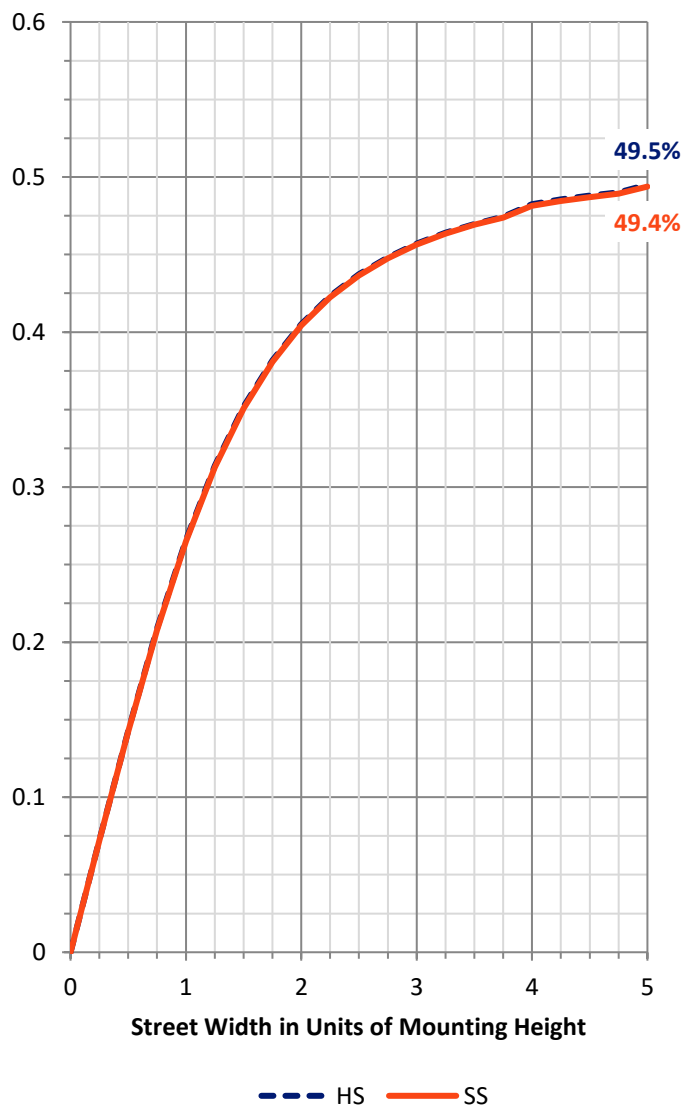
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1859.4	0.0	1859.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1859.4	0.0	1859.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3718.8	0.0	3718.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	0.5
10°-20°	58.7	1.6
20°-30°	129.6	3.5
30°-40°	261.0	7.0
40°-50°	497.9	13.4
50°-60°	852.5	22.9
60°-70°	1032.8	27.8
70°-80°	715.5	19.2
80°-90°	153.8	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°	3718.8	100.0
0°-180°	3718.8	100.0

Coefficient of Utilization



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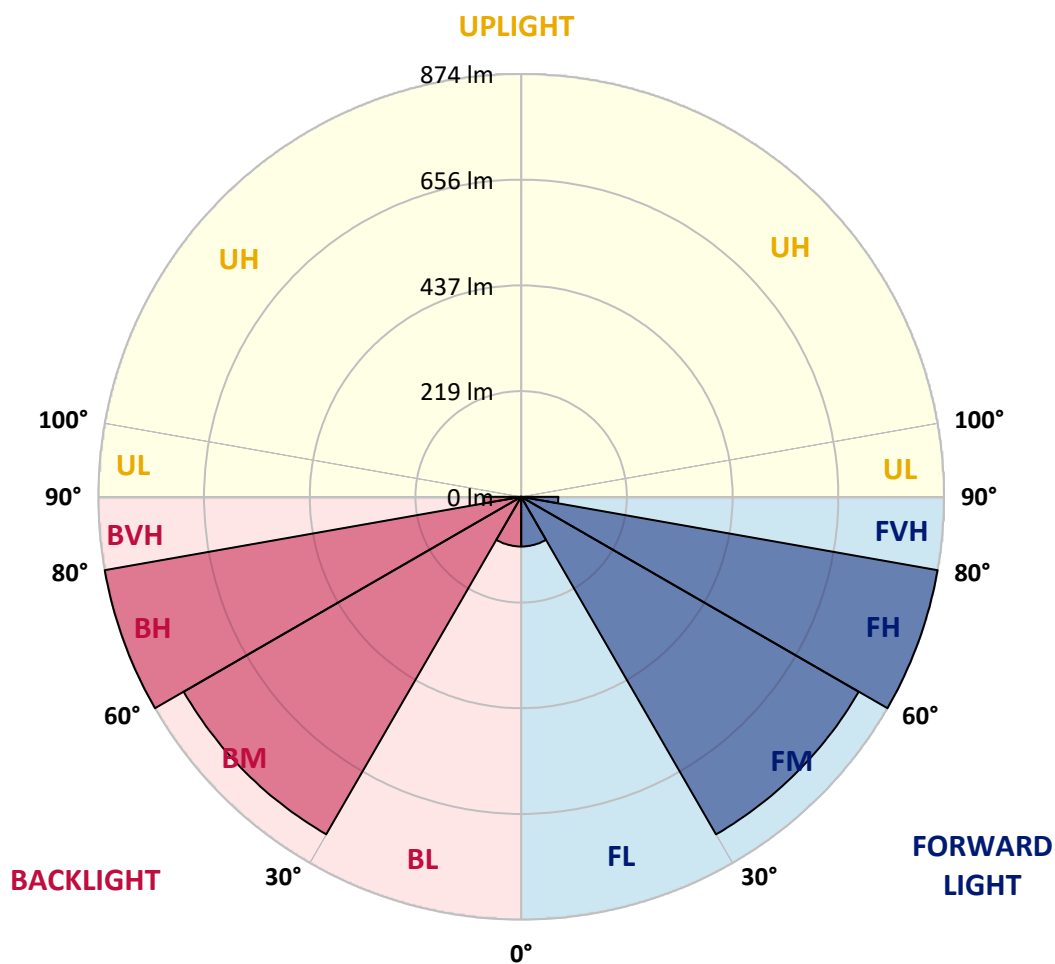
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	102.7	2.8			
FM	(30°-60°)	805.7	21.7			
FH	(60°-80°)	874.1	23.5			G1/1800
FVH	(80°-90°)	76.9	2.1			G1/100
BL	(0°-30°)	102.7	2.8	B0/110		
BM	(30°-60°)	805.7	21.7	B1/1000		
BH	(60°-80°)	874.1	23.5	B2/1000		G2/1000
BVH	(80°-90°)	76.9	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°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6
2.5°	171.1	171.1	171.9	171.9	171.9	171.9	171.9	171.9	171.9	171.9	171.9
5°	174.2	174.2	174.2	174.9	174.9	174.9	174.9	174.9	174.2	174.2	174.2
7.5°	178.7	178.7	178.7	179.5	179.5	179.5	178.7	178.7	178.0	178.0	178.0
10°	184.8	184.8	185.6	185.6	184.8	184.8	184.0	183.3	184.0	183.3	183.3
12.5°	193.2	194.7	193.9	193.9	192.4	192.4	191.7	191.7	191.7	190.9	190.9
15°	205.3	205.3	206.1	204.6	204.6	202.3	201.5	200.8	201.5	201.5	200.8
17.5°	219.8	219.8	219.8	217.5	216.0	214.5	213.7	212.9	212.2	212.9	212.9
20°	241.9	240.3	237.3	235.8	232.0	230.4	228.9	228.2	227.4	227.4	227.4
22.5°	264.7	263.1	259.3	256.3	253.3	249.5	247.9	244.9	244.1	245.7	244.9
25°	286.7	289.0	284.4	280.6	278.4	272.3	268.5	267.7	266.2	265.4	266.2
27.5°	314.1	315.6	311.8	306.5	301.9	297.4	293.6	292.0	292.8	292.8	293.6
30°	344.5	347.6	341.5	338.4	331.6	325.5	322.5	324.0	325.5	327.8	327.0
32.5°	379.5	379.5	376.5	371.1	363.5	358.2	356.7	359.0	365.8	368.9	368.1
35°	420.6	417.5	414.5	407.6	397.8	394.7	397.8	405.4	415.3	420.6	423.6
37.5°	463.2	457.1	452.5	444.9	440.4	438.8	445.7	460.1	470.8	480.7	485.2
40°	499.7	499.7	493.6	485.2	480.7	487.5	498.2	518.7	539.2	549.9	557.5
42.5°	536.2	540.7	533.9	527.1	527.1	536.2	556.7	588.7	627.4	650.3	654.1
45°	574.2	582.6	573.4	568.9	573.4	591.7	630.5	692.1	749.9	787.2	781.1
47.5°	613.8	621.4	613.0	610.7	621.4	654.1	713.4	792.5	850.3	889.1	904.3
50°	662.4	657.1	654.1	653.3	675.4	724.0	800.8	886.0	978.8	1013.8	1032.8
52.5°	703.5	694.4	692.8	698.2	734.7	793.2	889.1	1045.7	1174.3	1261.0	1264.0
55°	739.2	729.4	734.7	747.6	797.0	878.4	999.3	1182.6	1291.4	1356.0	1361.4
57.5°	769.7	764.3	773.5	791.0	854.8	952.2	1087.6	1238.9	1328.7	1380.4	1385.7
60°	797.0	796.3	806.2	835.8	907.3	995.5	1107.3	1242.7	1336.3	1382.7	1389.5
62.5°	818.3	822.9	837.3	864.7	921.8	991.0	1102.8	1258.7	1377.3	1438.2	1446.5
65°	836.6	841.2	855.6	864.7	915.7	981.9	1127.9	1269.3	1371.2	1434.4	1439.7
67.5°	846.5	851.8	849.5	851.0	890.6	942.3	1068.6	1190.2	1273.9	1331.7	1338.5
70°	845.0	840.4	822.1	803.1	811.5	848.0	962.1	1064.0	1140.0	1185.7	1188.0
72.5°	813.0	805.4	762.1	717.9	705.0	729.4	829.0	905.8	970.4	1012.3	1025.2
75°	740.8	725.6	662.4	605.4	576.5	594.7	671.6	738.5	786.4	827.5	835.8
77.5°	609.2	600.1	536.9	474.6	442.6	454.8	515.6	555.2	606.9	649.5	638.8
80°	443.4	441.9	390.9	335.4	312.6	317.9	350.6	389.4	422.1	454.0	455.6
82.5°	289.8	285.2	251.0	210.7	187.1	190.1	210.7	231.2	262.4	282.9	289.0
85°	143.7	141.5	126.2	101.2	88.2	88.2	98.1	110.3	125.5	134.6	133.9
87.5°	39.5	35.7	35.0	25.9	21.3	22.8	22.8	25.1	31.9	34.2	36.5
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):

	90°
0°	169.6
2.5°	171.9
5°	174.2
7.5°	178.0
10°	184.0
12.5°	190.9
15°	200.8
17.5°	212.2
20°	227.4
22.5°	246.4
25°	266.2
27.5°	292.8
30°	327.8
32.5°	368.9
35°	422.1
37.5°	481.4
40°	554.4
42.5°	650.3
45°	787.9
47.5°	896.7
50°	1022.9
52.5°	1268.6
55°	1362.9
57.5°	1387.2
60°	1390.3
62.5°	1442.7
65°	1445.8
67.5°	1333.2
70°	1191.8
72.5°	1023.7
75°	841.9
77.5°	650.3
80°	454.8
82.5°	284.4
85°	133.1
87.5°	33.5
90°	0.0

(END OF REPORT)