

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: P198001

Luminaire Tested: **TT-C4-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34691)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-RW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4539.7 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 58
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



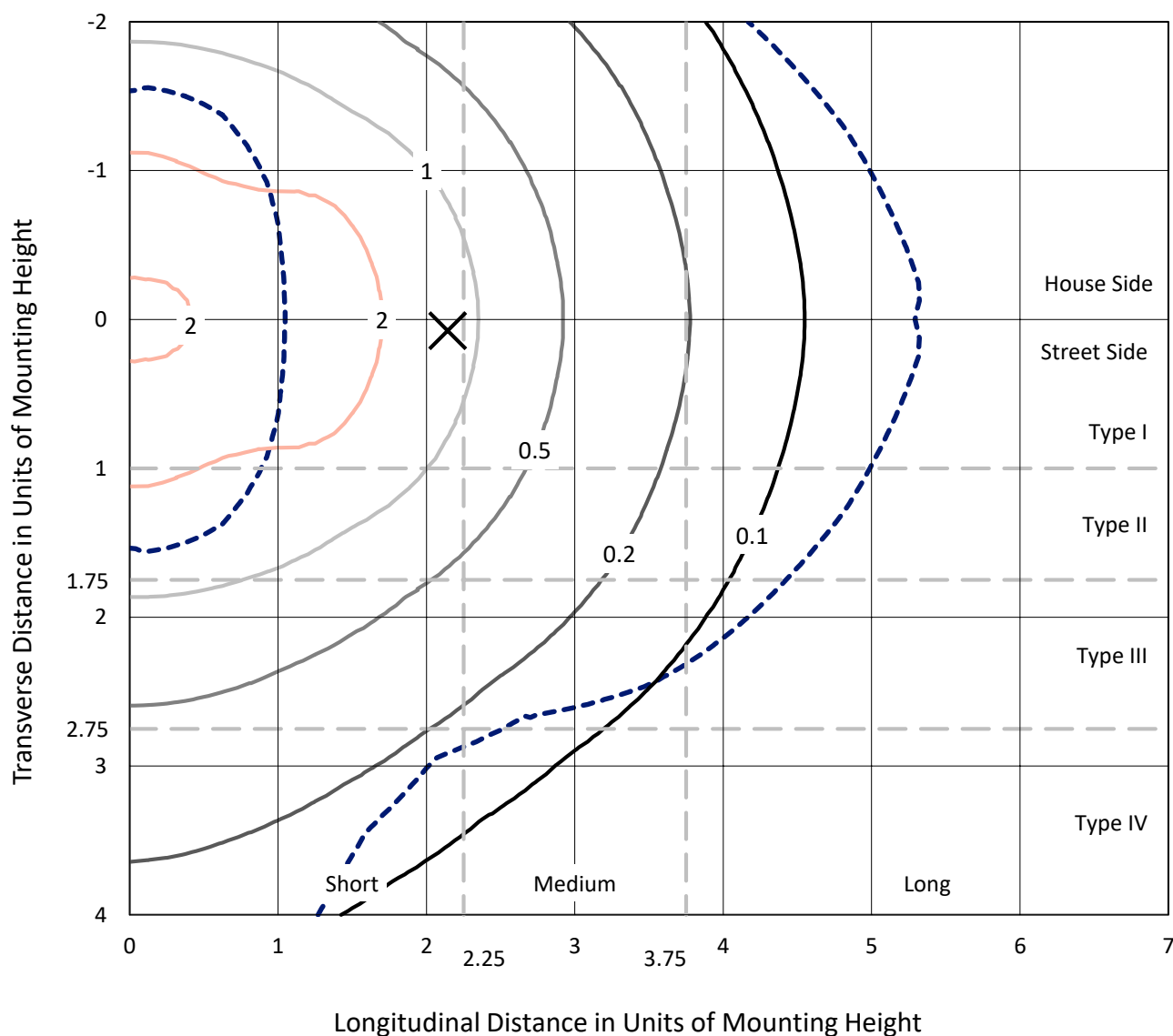
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

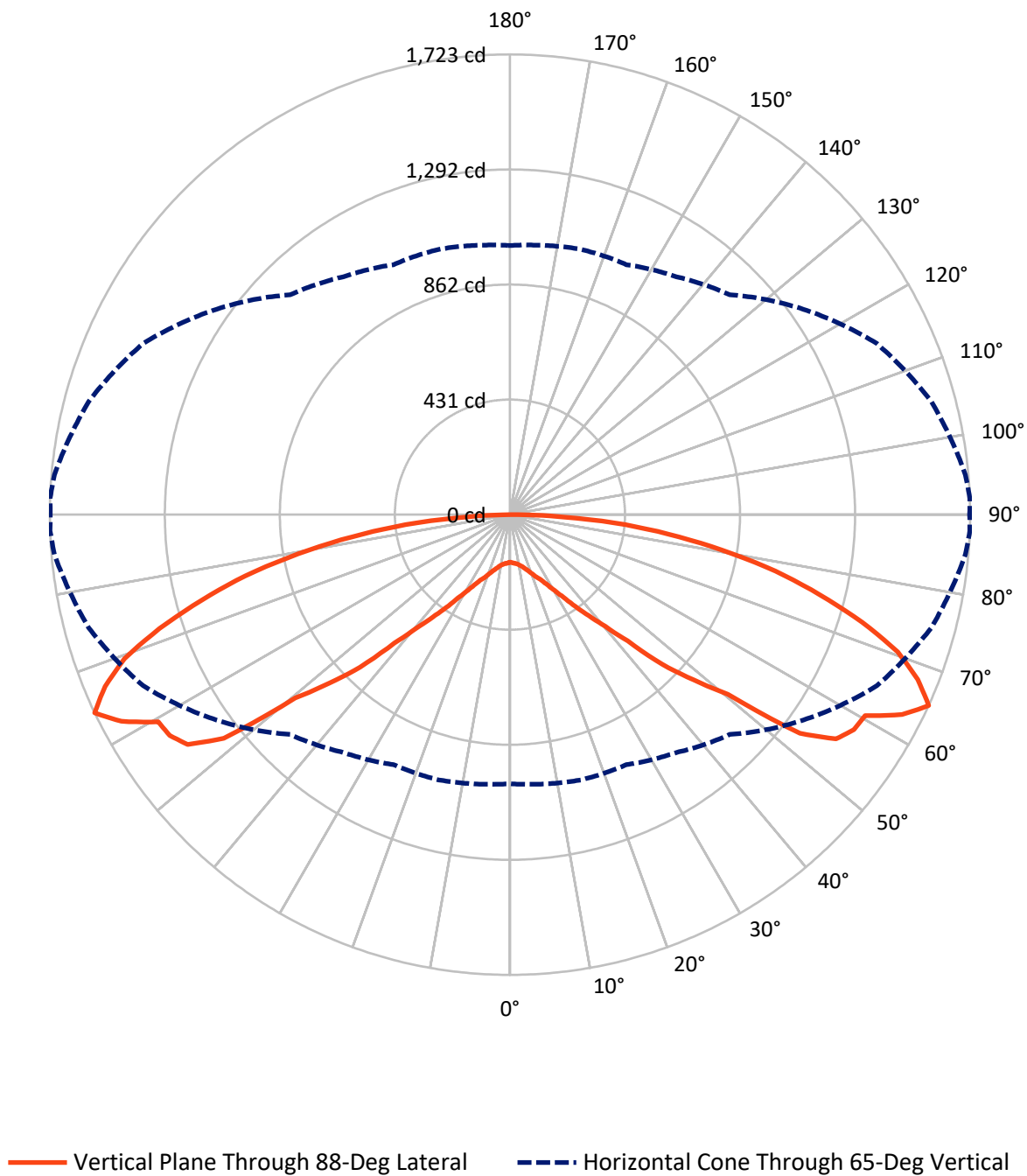


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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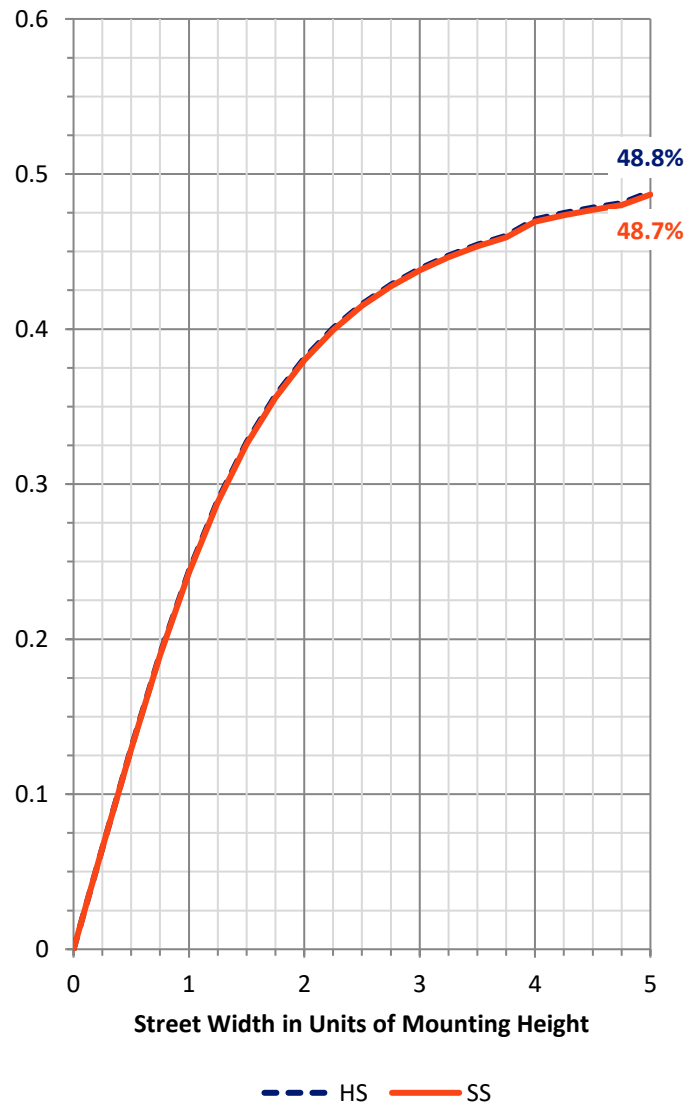
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2269.8	0.0	2269.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2269.8	0.0	2269.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	4539.7	0.0	4539.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	0.4
10°-20°	61.8	1.4
20°-30°	136.5	3.0
30°-40°	272.1	6.0
40°-50°	520.8	11.5
50°-60°	932.1	20.5
60°-70°	1235.2	27.2
70°-80°	1030.8	22.7
80°-90°	332.6	7.3
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°	4539.7	100.0
0°-180°	4539.7	100.0

Coefficient of Utilization



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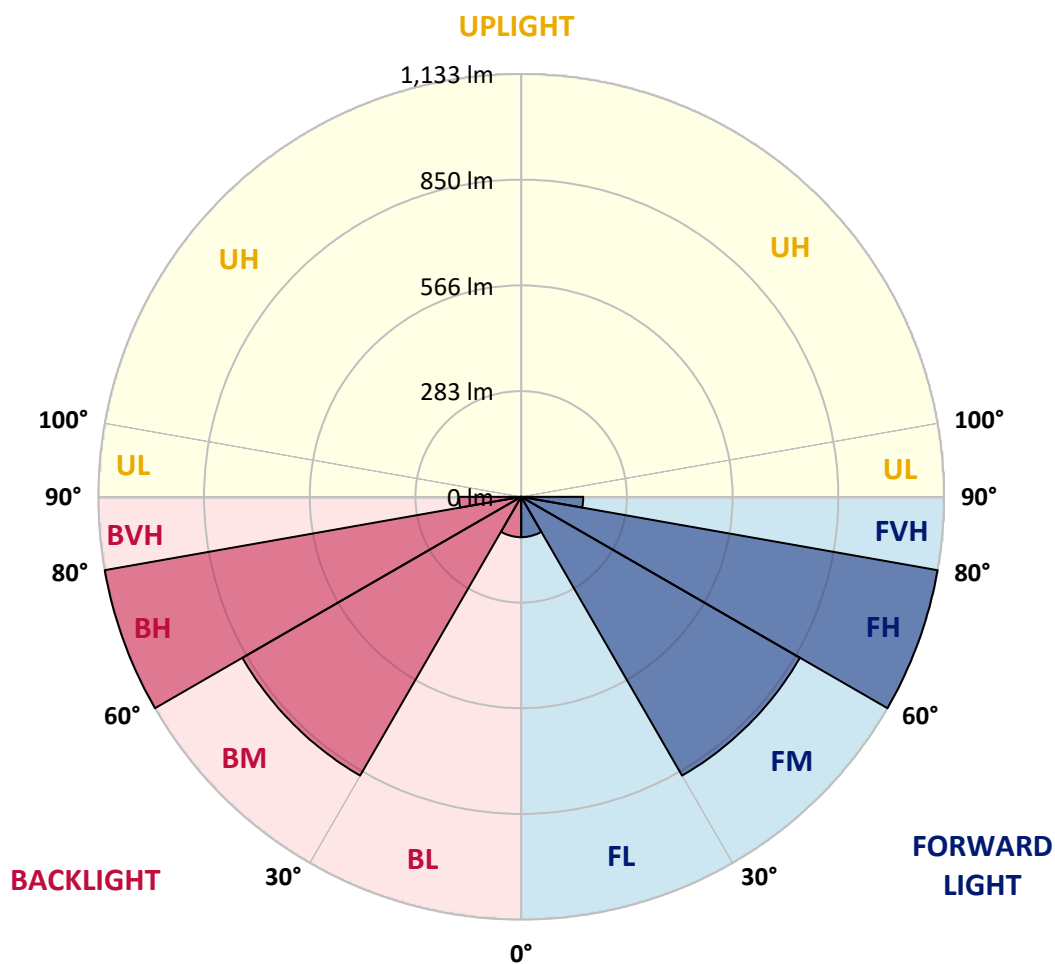
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	108.1	2.4			
FM	(30°-60°)	862.5	19.0			
FH	(60°-80°)	1133.0	25.0			G1/1800
FVH	(80°-90°)	166.3	3.7			G2/225
BL	(0°-30°)	108.1	2.4	B0/110		
BM	(30°-60°)	862.5	19.0	B1/1000		
BH	(60°-80°)	1133.0	25.0	B3/2500		G3/2500
BVH	(80°-90°)	166.3	3.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8
2.5°	179.5	179.5	179.5	179.5	180.4	180.4	180.4	180.4	180.4	180.4	180.4
5°	182.2	182.2	183.1	183.1	184.0	184.0	184.0	184.0	183.1	183.1	183.1
7.5°	186.7	187.6	188.5	188.5	188.5	187.6	186.7	186.7	185.8	185.8	185.8
10°	194.7	194.7	195.6	195.6	194.7	193.8	192.9	192.1	192.1	192.1	191.2
12.5°	204.6	204.6	205.4	204.6	202.8	201.9	200.1	199.2	199.2	198.3	198.3
15°	218.0	219.7	219.7	217.1	214.4	211.7	210.8	209.0	209.0	209.0	209.0
17.5°	238.5	237.6	234.0	231.4	229.6	225.1	223.3	222.4	220.6	220.6	220.6
20°	261.7	259.9	255.5	251.9	248.3	243.0	239.4	237.6	236.7	235.8	235.8
22.5°	287.6	284.9	278.7	276.0	268.9	263.5	259.0	255.5	252.8	251.9	253.7
25°	314.4	314.4	309.1	301.9	294.8	286.7	280.5	276.0	272.4	271.6	270.7
27.5°	343.0	344.8	337.7	330.5	322.5	311.7	305.5	299.2	298.3	297.5	296.6
30°	373.4	377.0	369.8	362.7	351.9	341.2	333.2	330.5	327.8	329.6	329.6
32.5°	410.9	412.7	404.6	399.3	385.0	374.3	367.1	365.3	366.2	365.3	368.0
35°	454.7	452.0	445.7	435.0	422.5	412.7	407.3	410.9	420.7	424.3	422.5
37.5°	502.9	493.1	489.5	476.1	464.5	456.5	458.2	467.2	475.2	481.5	479.7
40°	538.6	540.4	530.6	518.1	507.4	505.6	515.4	527.0	542.2	547.6	549.4
42.5°	575.3	586.0	574.4	561.9	556.5	560.1	574.4	597.6	631.5	649.4	646.7
45°	617.2	628.9	616.3	606.5	605.6	619.0	650.3	711.0	761.1	796.8	800.4
47.5°	661.0	669.9	658.3	652.1	661.0	686.9	740.5	821.8	875.4	917.4	924.5
50°	716.4	712.8	703.9	703.0	722.6	770.0	842.3	924.5	1021.0	1048.7	1057.6
52.5°	770.9	757.5	755.7	760.2	795.0	848.6	945.1	1106.7	1248.8	1348.8	1359.5
55°	821.8	806.6	810.2	821.8	870.9	952.2	1086.2	1283.6	1407.8	1478.3	1481.9
57.5°	868.2	859.3	867.4	883.4	956.7	1061.2	1203.2	1365.8	1459.6	1509.6	1518.5
60°	915.6	913.8	923.6	953.1	1031.7	1124.6	1243.4	1387.2	1481.0	1519.4	1528.4
62.5°	960.3	966.5	979.0	1007.6	1068.3	1140.7	1255.9	1431.9	1572.1	1632.9	1648.1
65°	1007.6	1013.0	1028.1	1032.6	1087.1	1163.9	1340.8	1515.9	1633.8	1712.4	1723.1
67.5°	1050.5	1057.6	1052.3	1048.7	1096.0	1163.9	1323.8	1477.4	1575.7	1635.6	1647.2
70°	1091.6	1083.5	1062.1	1034.4	1047.8	1094.2	1240.7	1373.8	1473.0	1529.3	1540.9
72.5°	1102.3	1091.6	1034.4	971.0	951.3	986.2	1121.0	1238.9	1320.2	1372.9	1380.1
75°	1074.6	1052.3	955.8	868.2	830.7	865.6	978.1	1079.1	1136.2	1193.4	1197.9
77.5°	963.8	949.5	842.3	736.0	694.1	720.0	813.8	885.2	951.3	1006.7	1017.4
80°	791.4	778.9	684.2	597.6	541.3	559.2	628.0	685.1	748.5	792.3	805.7
82.5°	582.4	580.6	512.7	431.4	392.1	390.4	442.2	498.4	546.7	588.7	597.6
85°	366.2	366.2	319.8	270.7	229.6	230.5	261.7	302.8	363.6	390.4	393.0
87.5°	124.2	117.9	109.9	89.3	71.5	64.3	68.8	78.6	119.7	148.3	153.6
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°	177.8
2.5°	180.4
5°	183.1
7.5°	185.8
10°	191.2
12.5°	199.2
15°	208.1
17.5°	220.6
20°	235.8
22.5°	252.8
25°	270.7
27.5°	297.5
30°	328.7
32.5°	367.1
35°	423.4
37.5°	481.5
40°	553.8
42.5°	653.9
45°	791.4
47.5°	924.5
50°	1047.8
52.5°	1337.2
55°	1485.5
57.5°	1517.6
60°	1525.7
62.5°	1640.0
65°	1721.3
67.5°	1646.3
70°	1538.2
72.5°	1374.7
75°	1205.0
77.5°	1017.4
80°	795.0
82.5°	597.6
85°	386.8
87.5°	149.2
90°	0.0

(END OF REPORT)