

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: P197992

Luminaire Tested: **TT-C1-LED-E1-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197992
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-C1-LED-E1-RW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2948.8 lumens
Efficiency: N/A
Efficacy: 105.3 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

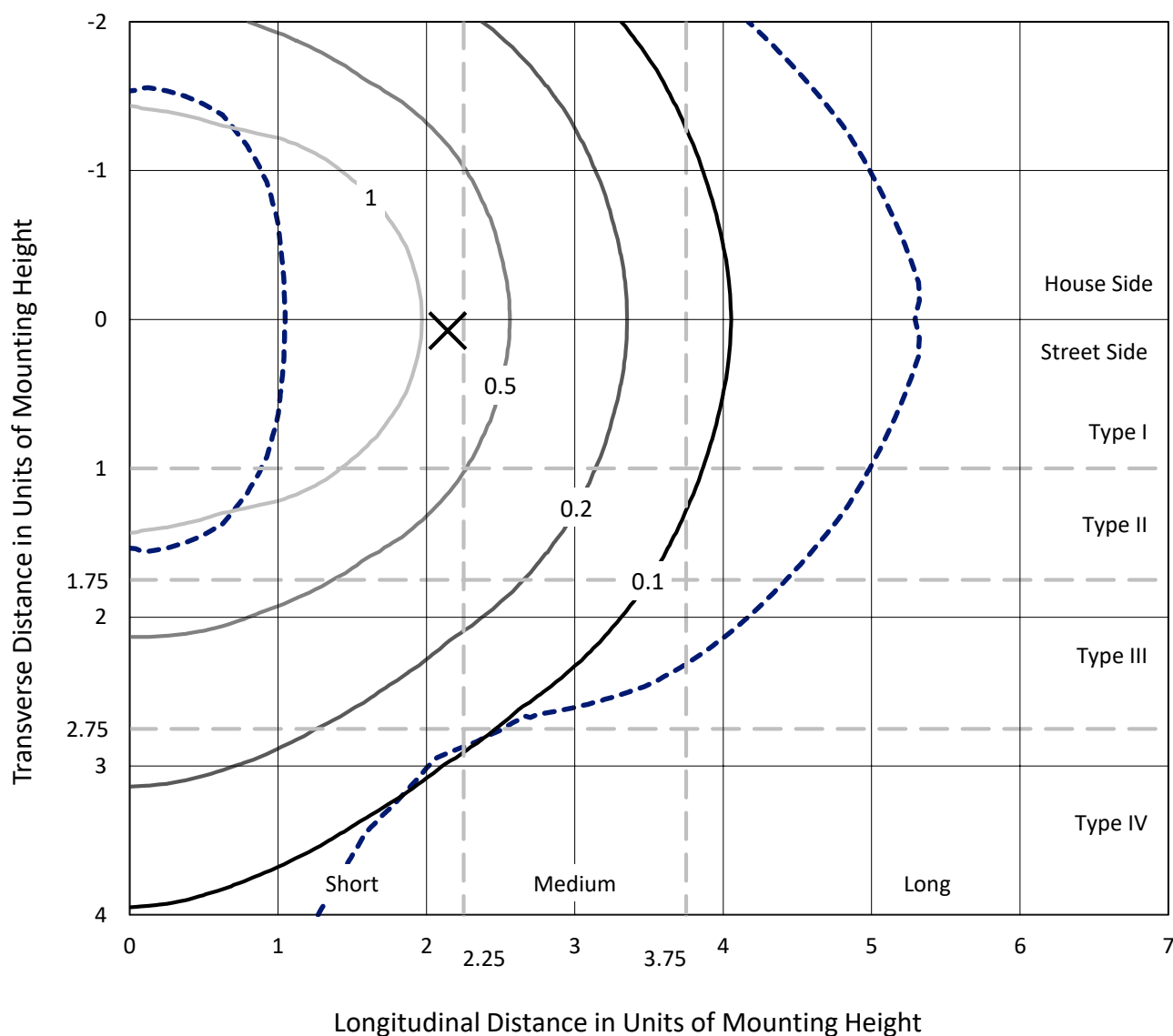


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

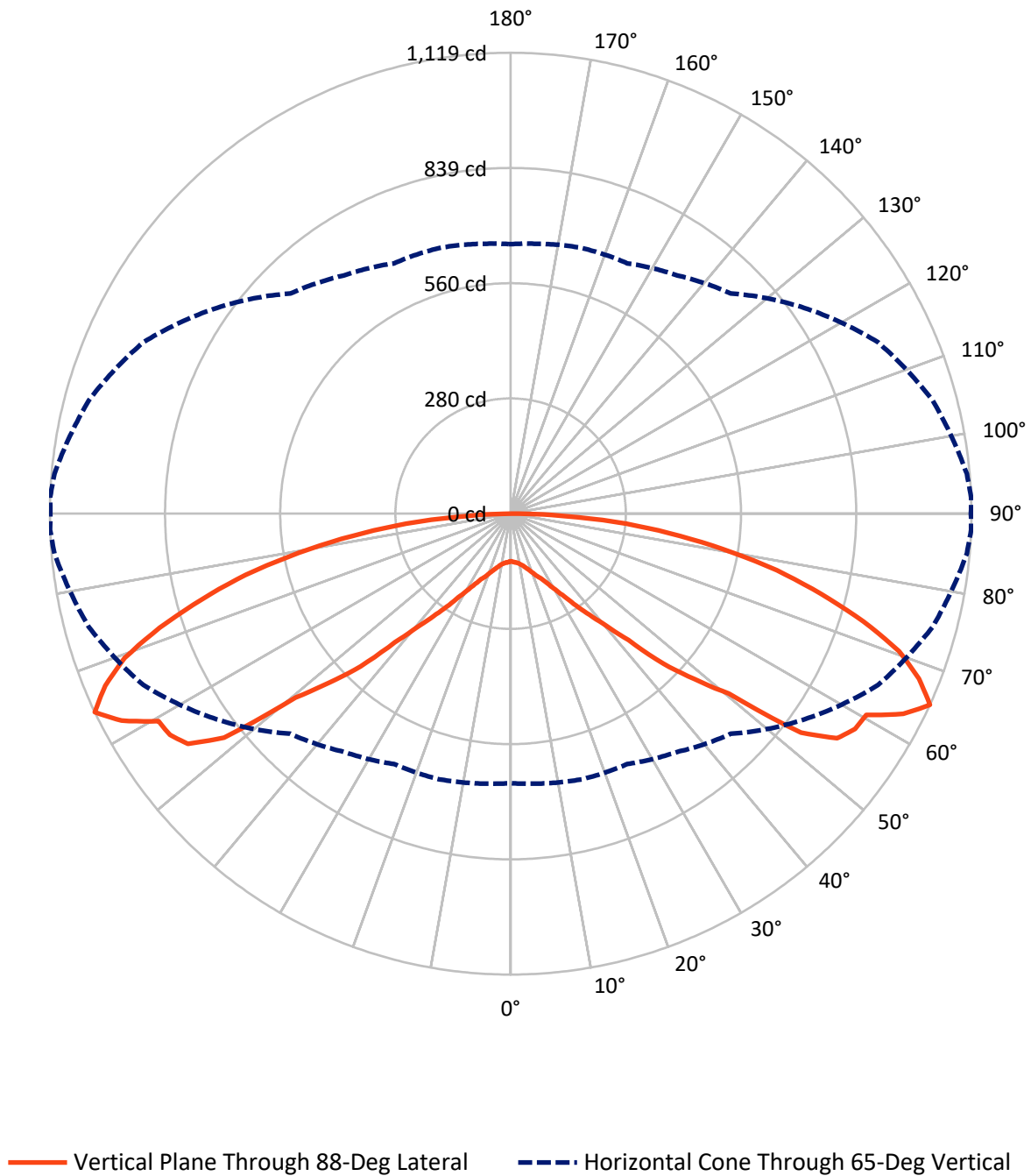


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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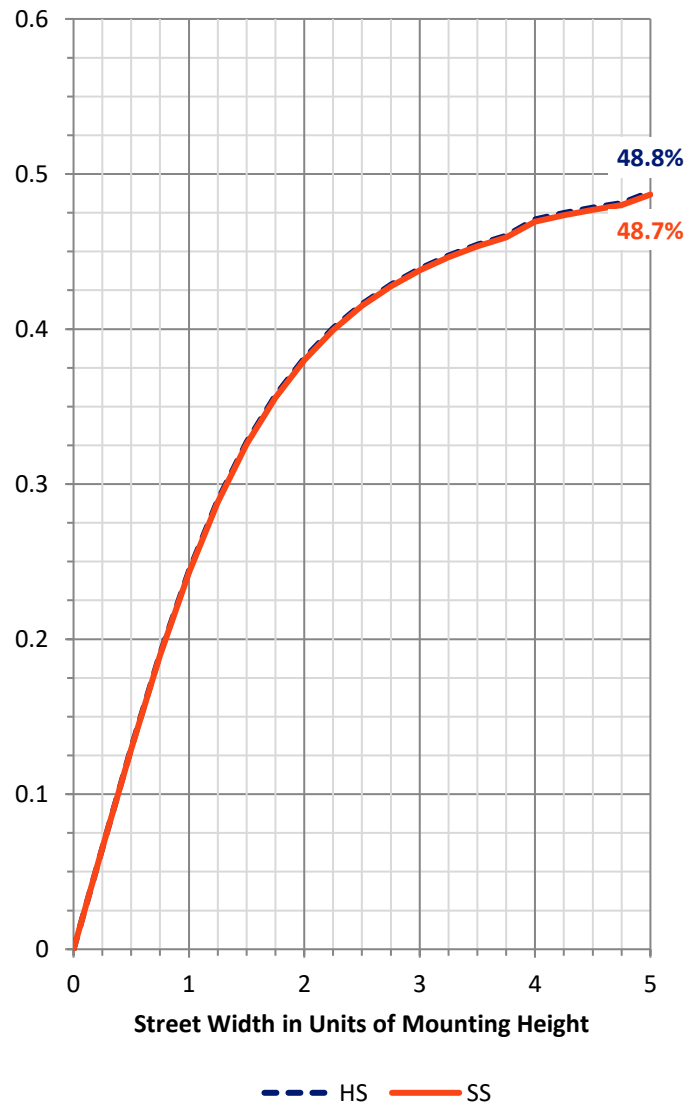
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1474.4	0.0	1474.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1474.4	0.0	1474.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	2948.8	0.0	2948.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.4
10°-20°	40.2	1.4
20°-30°	88.7	3.0
30°-40°	176.7	6.0
40°-50°	338.3	11.5
50°-60°	605.5	20.5
60°-70°	802.3	27.2
70°-80°	669.6	22.7
80°-90°	216.0	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°	2948.8	100.0
0°-180°	2948.8	100.0

Coefficient of Utilization



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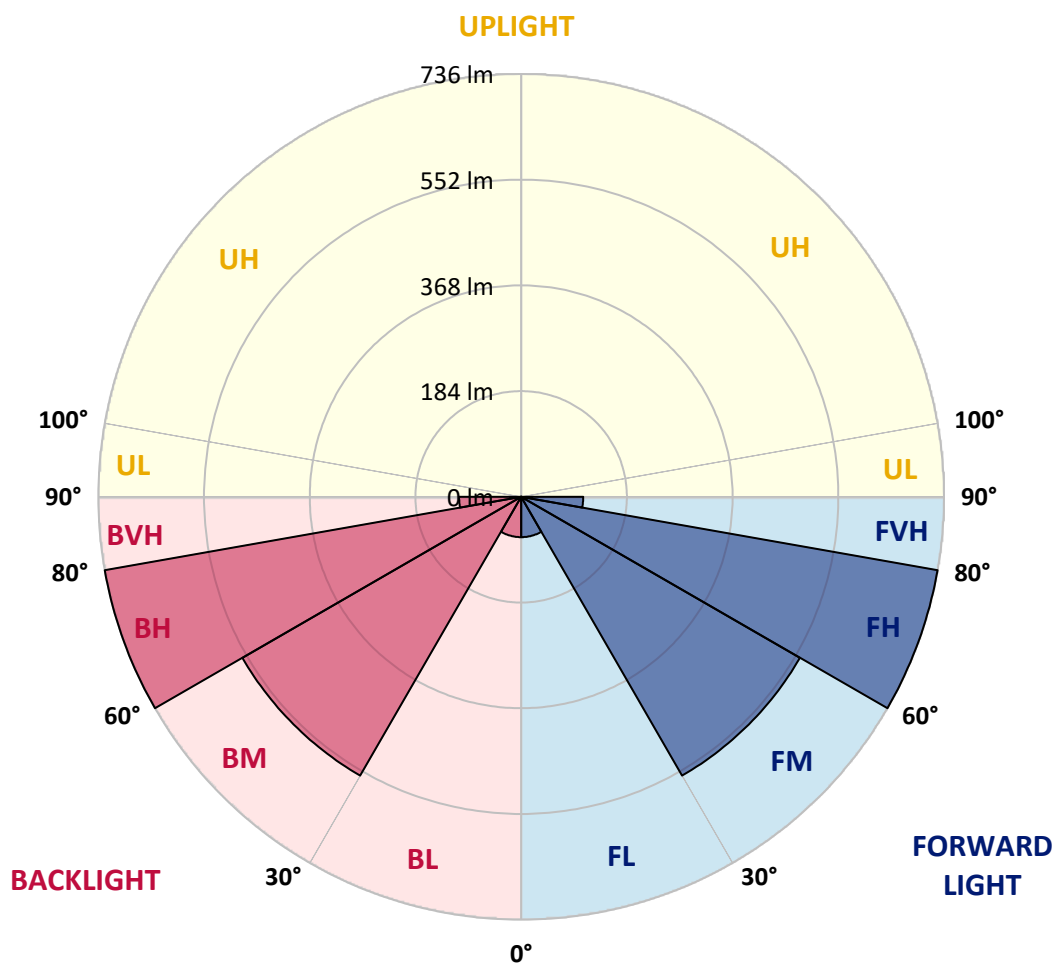
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	70.2	2.4			
FM	(30°-60°)	560.2	19.0			
FH	(60°-80°)	735.9	25.0			G1/1800
FVH	(80°-90°)	108.0	3.7			G2/225
BL	(0°-30°)	70.2	2.4	B0/110		
BM	(30°-60°)	560.2	19.0	B1/1000		
BH	(60°-80°)	735.9	25.0	B2/1000		G2/1000
BVH	(80°-90°)	108.0	3.7			G2/225
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°	88°
0°	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5
2.5°	116.6	116.6	116.6	116.6	117.2	117.2	117.2	117.2	117.2	117.2	117.2
5°	118.4	118.4	118.9	118.9	119.5	119.5	119.5	119.5	118.9	118.9	118.9
7.5°	121.3	121.8	122.4	122.4	122.4	121.8	121.3	121.3	120.7	120.7	120.7
10°	126.5	126.5	127.1	127.1	126.5	125.9	125.3	124.7	124.7	124.7	124.2
12.5°	132.9	132.9	133.4	132.9	131.7	131.1	130.0	129.4	129.4	128.8	128.8
15°	141.6	142.7	142.7	141.0	139.3	137.5	136.9	135.8	135.8	135.8	135.8
17.5°	154.9	154.3	152.0	150.3	149.1	146.2	145.1	144.5	143.3	143.3	143.3
20°	170.0	168.8	165.9	163.6	161.3	157.8	155.5	154.3	153.8	153.2	153.2
22.5°	186.8	185.1	181.0	179.3	174.6	171.2	168.3	165.9	164.2	163.6	164.8
25°	204.2	204.2	200.8	196.1	191.5	186.2	182.2	179.3	177.0	176.4	175.8
27.5°	222.8	224.0	219.3	214.7	209.5	202.5	198.4	194.4	193.8	193.2	192.6
30°	242.5	244.8	240.2	235.6	228.6	221.6	216.4	214.7	212.9	214.1	214.1
32.5°	266.9	268.1	262.8	259.4	250.1	243.1	238.5	237.3	237.9	237.3	239.0
35°	295.3	293.6	289.5	282.6	274.4	268.1	264.6	266.9	273.3	275.6	274.4
37.5°	326.7	320.3	318.0	309.3	301.7	296.5	297.6	303.5	308.7	312.7	311.6
40°	349.9	351.0	344.6	336.5	329.6	328.4	334.8	342.3	352.2	355.7	356.8
42.5°	373.7	380.6	373.1	365.0	361.5	363.8	373.1	388.2	410.2	421.8	420.1
45°	400.9	408.5	400.3	394.0	393.4	402.1	422.4	461.8	494.3	517.5	519.9
47.5°	429.4	435.2	427.6	423.6	429.4	446.2	481.0	533.8	568.6	595.9	600.5
50°	465.3	463.0	457.2	456.6	469.4	500.1	547.1	600.5	663.2	681.2	687.0
52.5°	500.7	492.0	490.9	493.8	516.4	551.2	613.9	718.9	811.1	876.1	883.1
55°	533.8	523.9	526.3	533.8	565.7	618.5	705.5	833.8	914.4	960.3	962.6
57.5°	564.0	558.2	563.4	573.8	621.4	689.3	781.5	887.1	948.1	980.6	986.4
60°	594.7	593.6	599.9	619.1	670.1	730.5	807.7	901.1	962.0	986.9	992.7
62.5°	623.7	627.8	635.9	654.5	693.9	740.9	815.8	930.1	1021.2	1060.6	1070.5
65°	654.5	658.0	667.8	670.7	706.1	756.0	870.9	984.6	1061.2	1112.3	1119.2
67.5°	682.3	687.0	683.5	681.2	711.9	756.0	859.9	959.7	1023.5	1062.4	1069.9
70°	709.0	703.8	689.9	671.9	680.6	710.8	805.9	892.4	956.8	993.3	1000.9
72.5°	716.0	709.0	671.9	630.7	617.9	640.6	728.2	804.8	857.6	891.8	896.4
75°	698.0	683.5	620.8	564.0	539.6	562.2	635.3	700.9	738.0	775.2	778.1
77.5°	626.0	616.8	547.1	478.1	450.8	467.7	528.6	575.0	617.9	653.9	660.9
80°	514.1	505.9	444.4	388.2	351.6	363.2	407.9	445.0	486.2	514.6	523.4
82.5°	378.3	377.1	333.0	280.2	254.7	253.6	287.2	323.8	355.1	382.4	388.2
85°	237.9	237.9	207.7	175.8	149.1	149.7	170.0	196.7	236.1	253.6	255.3
87.5°	80.6	76.6	71.4	58.0	46.4	41.8	44.7	51.1	77.7	96.3	99.8
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):

	90°
0°	115.5
2.5°	117.2
5°	118.9
7.5°	120.7
10°	124.2
12.5°	129.4
15°	135.2
17.5°	143.3
20°	153.2
22.5°	164.2
25°	175.8
27.5°	193.2
30°	213.5
32.5°	238.5
35°	275.0
37.5°	312.7
40°	359.7
42.5°	424.7
45°	514.1
47.5°	600.5
50°	680.6
52.5°	868.6
55°	964.9
57.5°	985.8
60°	991.0
62.5°	1065.3
65°	1118.1
67.5°	1069.3
70°	999.1
72.5°	892.9
75°	782.7
77.5°	660.9
80°	516.4
82.5°	388.2
85°	251.2
87.5°	96.9
90°	0.0

(END OF REPORT)