

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: P197991

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197991
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3017.2 lumens
Efficiency: N/A
Efficacy: 107.8 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



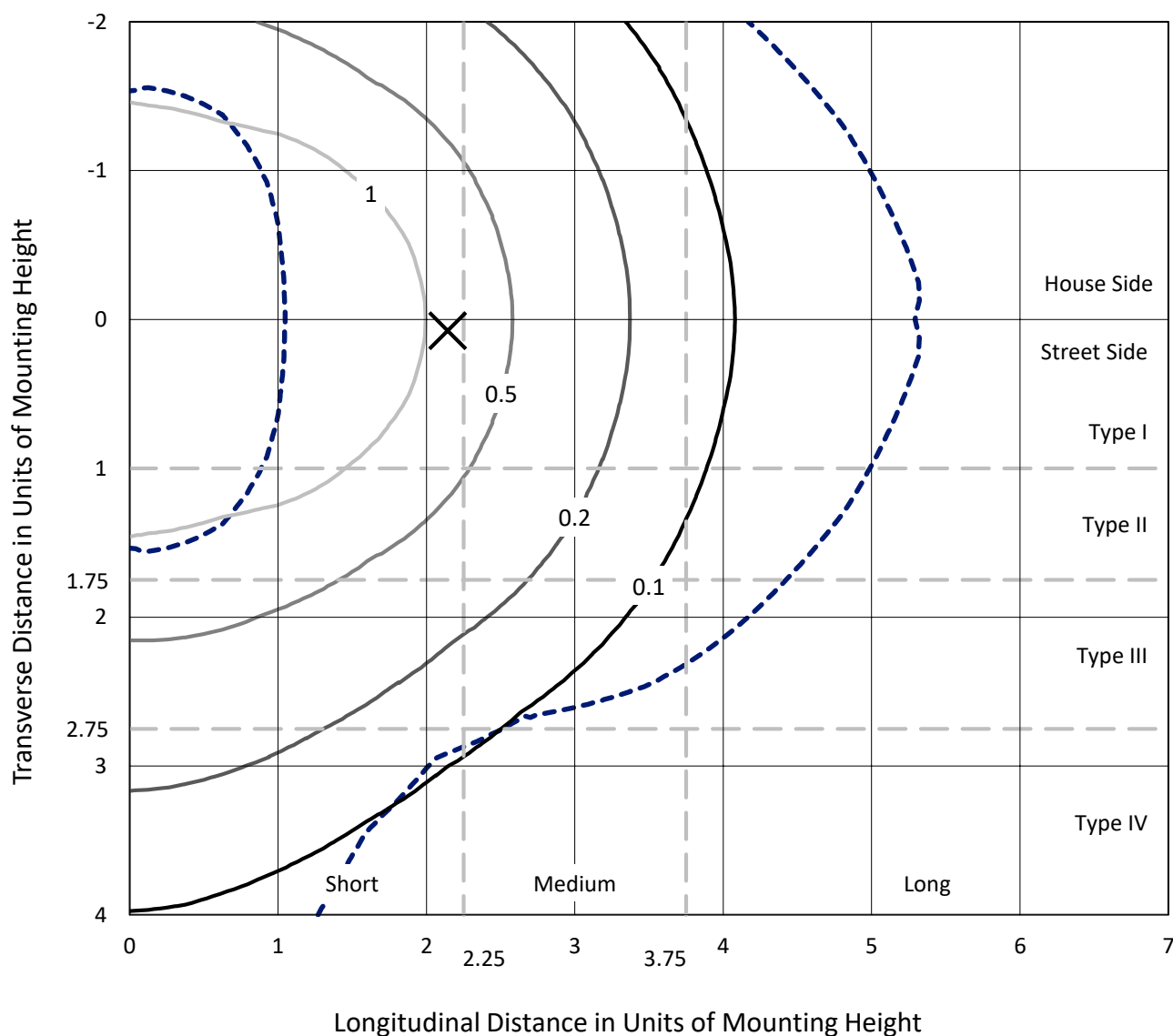
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

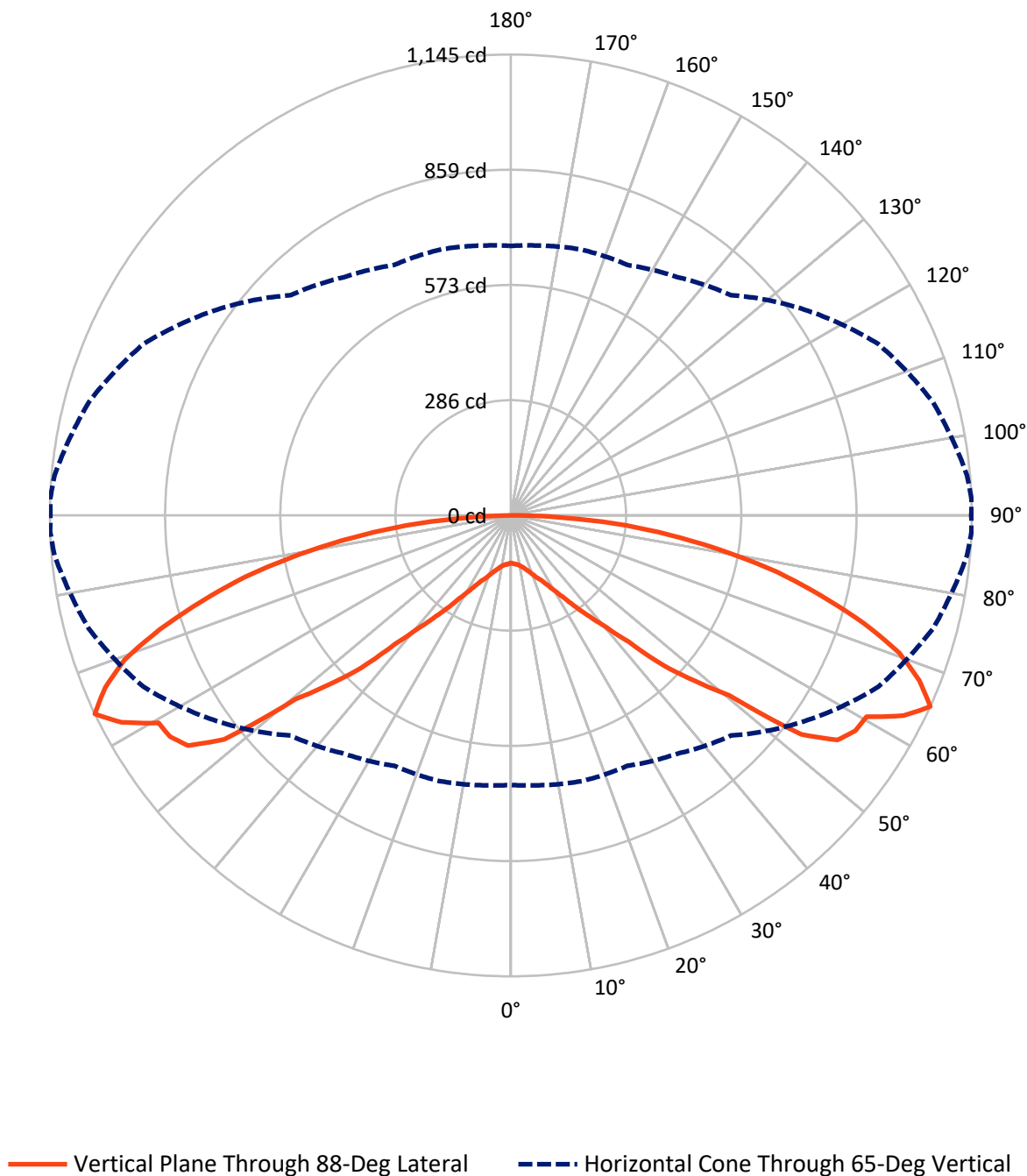


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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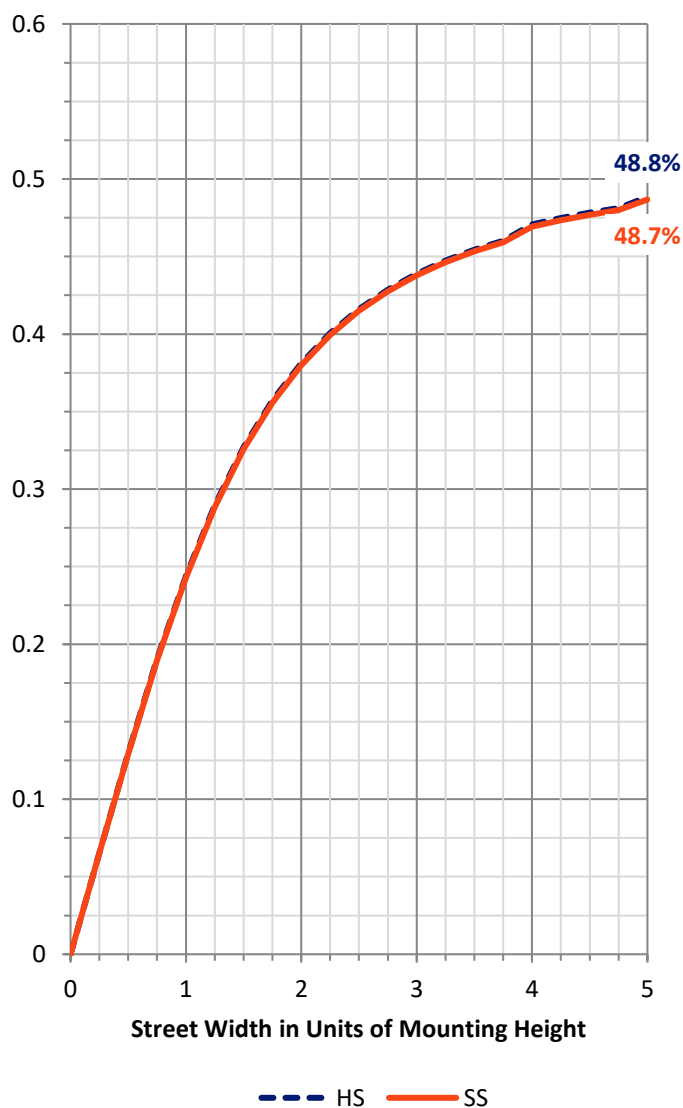
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1508.6	0.0	1508.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1508.6	0.0	1508.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	3017.2	0.0	3017.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	0.4
10°-20°	41.1	1.4
20°-30°	90.7	3.0
30°-40°	180.8	6.0
40°-50°	346.1	11.5
50°-60°	619.5	20.5
60°-70°	820.9	27.2
70°-80°	685.1	22.7
80°-90°	221.0	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°	3017.2	100.0
0°-180°	3017.2	100.0

Coefficient of Utilization



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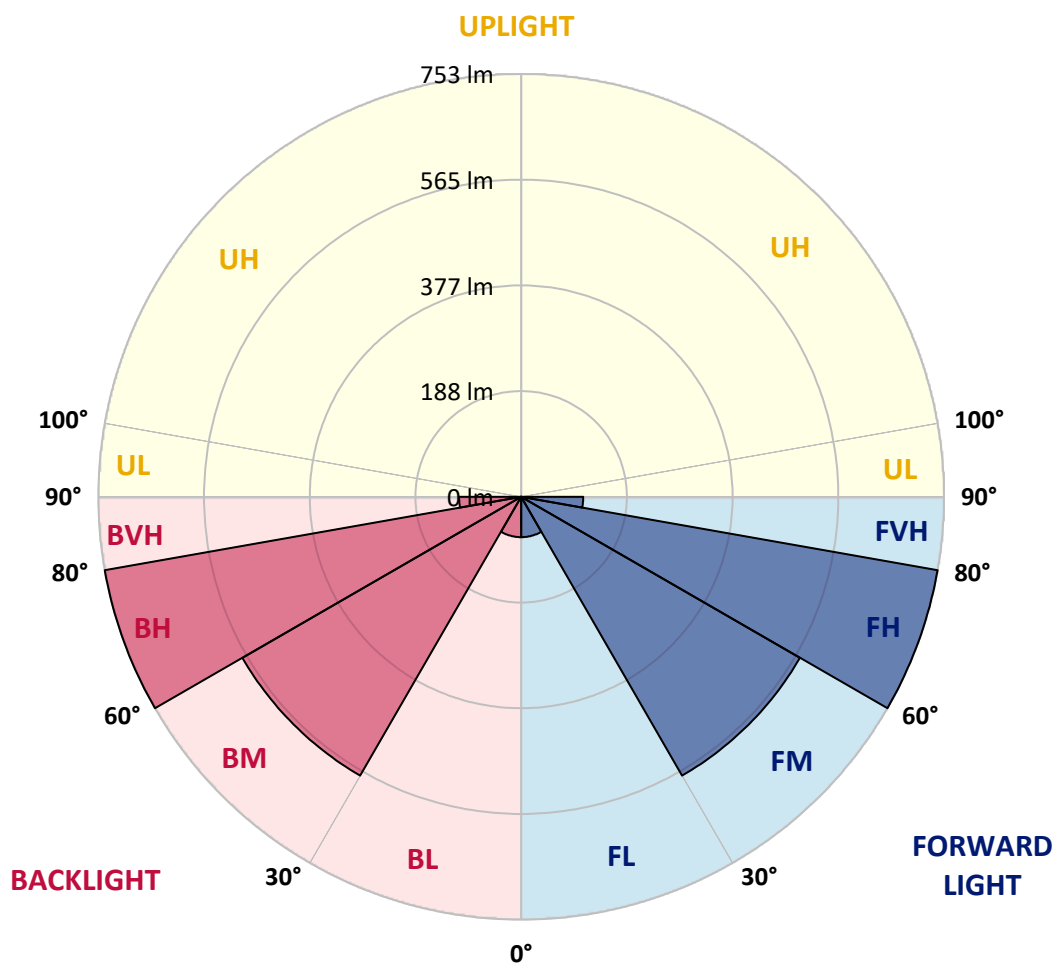
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	71.8	2.4			
FM	(30°-60°)	573.2	19.0			
FH	(60°-80°)	753.0	25.0			G1/1800
FVH	(80°-90°)	110.5	3.7			G2/225
BL	(0°-30°)	71.8	2.4	B0/110		
BM	(30°-60°)	573.2	19.0	B1/1000		
BH	(60°-80°)	753.0	25.0	B2/1000		G2/1000
BVH	(80°-90°)	110.5	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°	118.1	118.1	118.1	118.1	118.1	118.1	118.1	118.1	118.1	118.1	118.1
2.5°	119.3	119.3	119.3	119.3	119.9	119.9	119.9	119.9	119.9	119.9	119.9
5°	121.1	121.1	121.7	121.7	122.3	122.3	122.3	122.3	121.7	121.7	121.7
7.5°	124.1	124.7	125.3	125.3	125.3	124.7	124.1	124.1	123.5	123.5	123.5
10°	129.4	129.4	130.0	130.0	129.4	128.8	128.2	127.6	127.6	127.6	127.0
12.5°	136.0	136.0	136.5	136.0	134.8	134.2	133.0	132.4	132.4	131.8	131.8
15°	144.9	146.0	146.0	144.3	142.5	140.7	140.1	138.9	138.9	138.9	138.9
17.5°	158.5	157.9	155.5	153.8	152.6	149.6	148.4	147.8	146.6	146.6	146.6
20°	173.9	172.8	169.8	167.4	165.0	161.5	159.1	157.9	157.3	156.7	156.7
22.5°	191.2	189.4	185.2	183.4	178.7	175.1	172.2	169.8	168.0	167.4	168.6
25°	209.0	209.0	205.4	200.7	195.9	190.6	186.4	183.4	181.1	180.5	179.9
27.5°	228.0	229.2	224.4	219.7	214.3	207.2	203.0	198.9	198.3	197.7	197.1
30°	248.2	250.5	245.8	241.0	233.9	226.8	221.4	219.7	217.9	219.1	219.1
32.5°	273.1	274.3	268.9	265.4	255.9	248.8	244.0	242.8	243.4	242.8	244.6
35°	302.2	300.4	296.2	289.1	280.8	274.3	270.7	273.1	279.6	282.0	280.8
37.5°	334.2	327.7	325.3	316.4	308.7	303.4	304.6	310.5	315.8	320.0	318.8
40°	358.0	359.2	352.6	344.3	337.2	336.0	342.6	350.3	360.4	363.9	365.1
42.5°	382.3	389.5	381.7	373.4	369.9	372.2	381.7	397.2	419.7	431.6	429.8
45°	410.2	417.9	409.6	403.1	402.5	411.4	432.2	472.6	505.8	529.6	531.9
47.5°	439.3	445.3	437.5	433.4	439.3	456.5	492.2	546.2	581.8	609.7	614.5
50°	476.1	473.8	467.8	467.2	480.3	511.7	559.8	614.5	678.6	697.0	702.9
52.5°	512.3	503.4	502.3	505.2	528.4	564.0	628.1	735.6	830.0	896.5	903.6
55°	546.2	536.1	538.5	546.2	578.8	632.9	721.9	853.1	935.6	982.5	984.9
57.5°	577.1	571.1	576.5	587.1	635.8	705.3	799.7	907.7	970.1	1003.3	1009.3
60°	608.5	607.3	613.9	633.5	685.7	747.4	826.4	922.0	984.3	1009.8	1015.8
62.5°	638.2	642.4	650.7	669.7	710.0	758.1	834.7	951.7	1044.9	1085.2	1095.3
65°	669.7	673.2	683.3	686.3	722.5	773.6	891.1	1007.5	1085.8	1138.1	1145.2
67.5°	698.2	702.9	699.4	697.0	728.4	773.6	879.8	981.9	1047.2	1087.0	1094.7
70°	725.5	720.1	705.9	687.5	696.4	727.3	824.6	913.1	979.0	1016.4	1024.1
72.5°	732.6	725.5	687.5	645.3	632.3	655.4	745.1	823.4	877.5	912.5	917.2
75°	714.2	699.4	635.2	577.1	552.1	575.3	650.1	717.2	755.2	793.2	796.1
77.5°	640.6	631.1	559.8	489.2	461.3	478.5	540.8	588.3	632.3	669.1	676.2
80°	526.0	517.7	454.8	397.2	359.8	371.6	417.4	455.4	497.5	526.6	535.5
82.5°	387.1	385.9	340.8	286.7	260.6	259.4	293.9	331.3	363.3	391.2	397.2
85°	243.4	243.4	212.5	179.9	152.6	153.2	173.9	201.3	241.6	259.4	261.2
87.5°	82.5	78.4	73.0	59.4	47.5	42.7	45.7	52.2	79.6	98.6	102.1
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°	118.1
2.5°	119.9
5°	121.7
7.5°	123.5
10°	127.0
12.5°	132.4
15°	138.3
17.5°	146.6
20°	156.7
22.5°	168.0
25°	179.9
27.5°	197.7
30°	218.5
32.5°	244.0
35°	281.4
37.5°	320.0
40°	368.1
42.5°	434.6
45°	526.0
47.5°	614.5
50°	696.4
52.5°	888.7
55°	987.3
57.5°	1008.7
60°	1014.0
62.5°	1090.0
65°	1144.0
67.5°	1094.1
70°	1022.3
72.5°	913.7
75°	800.9
77.5°	676.2
80°	528.4
82.5°	397.2
85°	257.1
87.5°	99.1
90°	0.0

(END OF REPORT)