

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: P198133

Luminaire Tested: **TT-C1-LED-E1-RW-SG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34699)
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-SG-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578.3 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type III - Short - Full 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

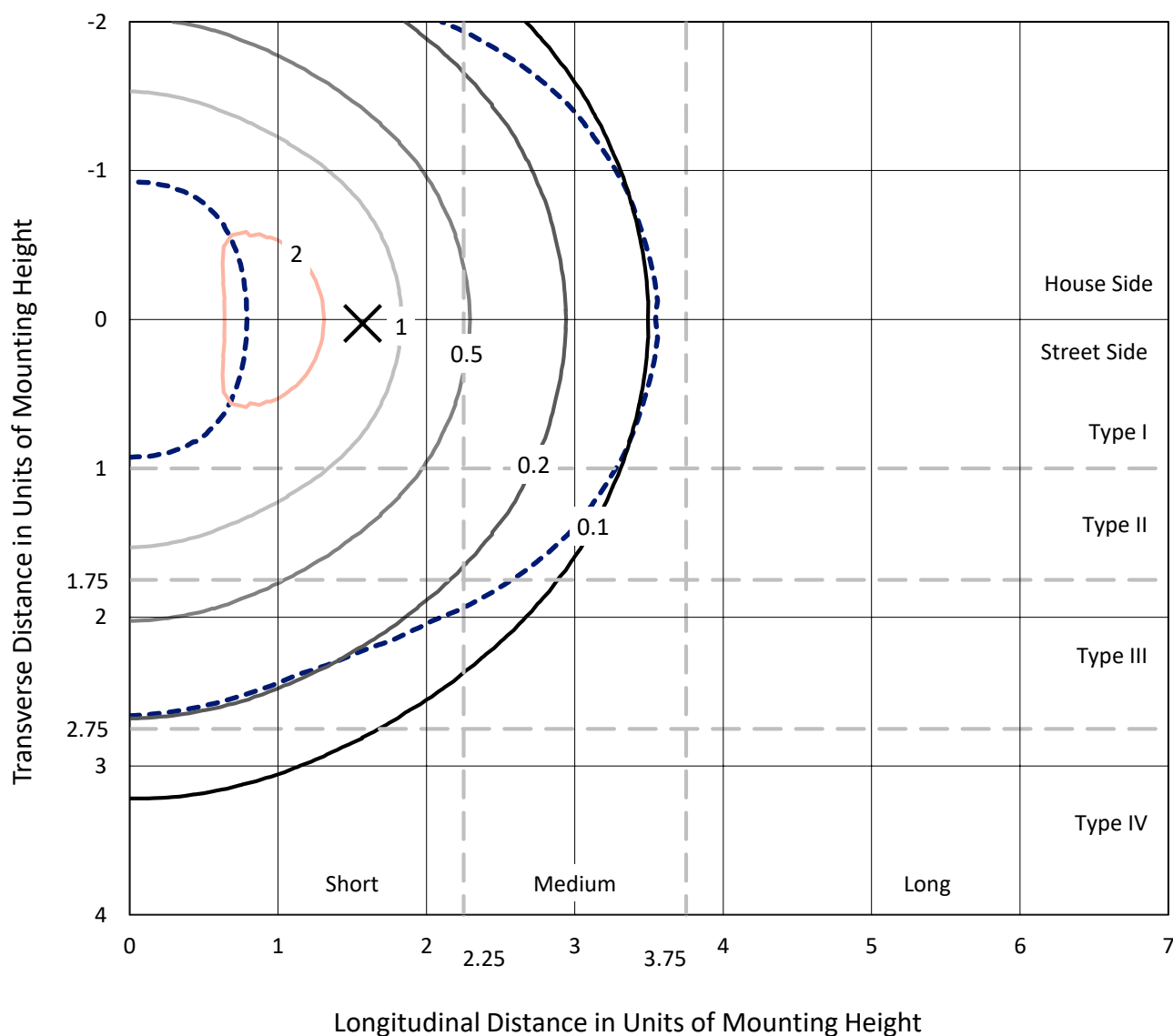


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

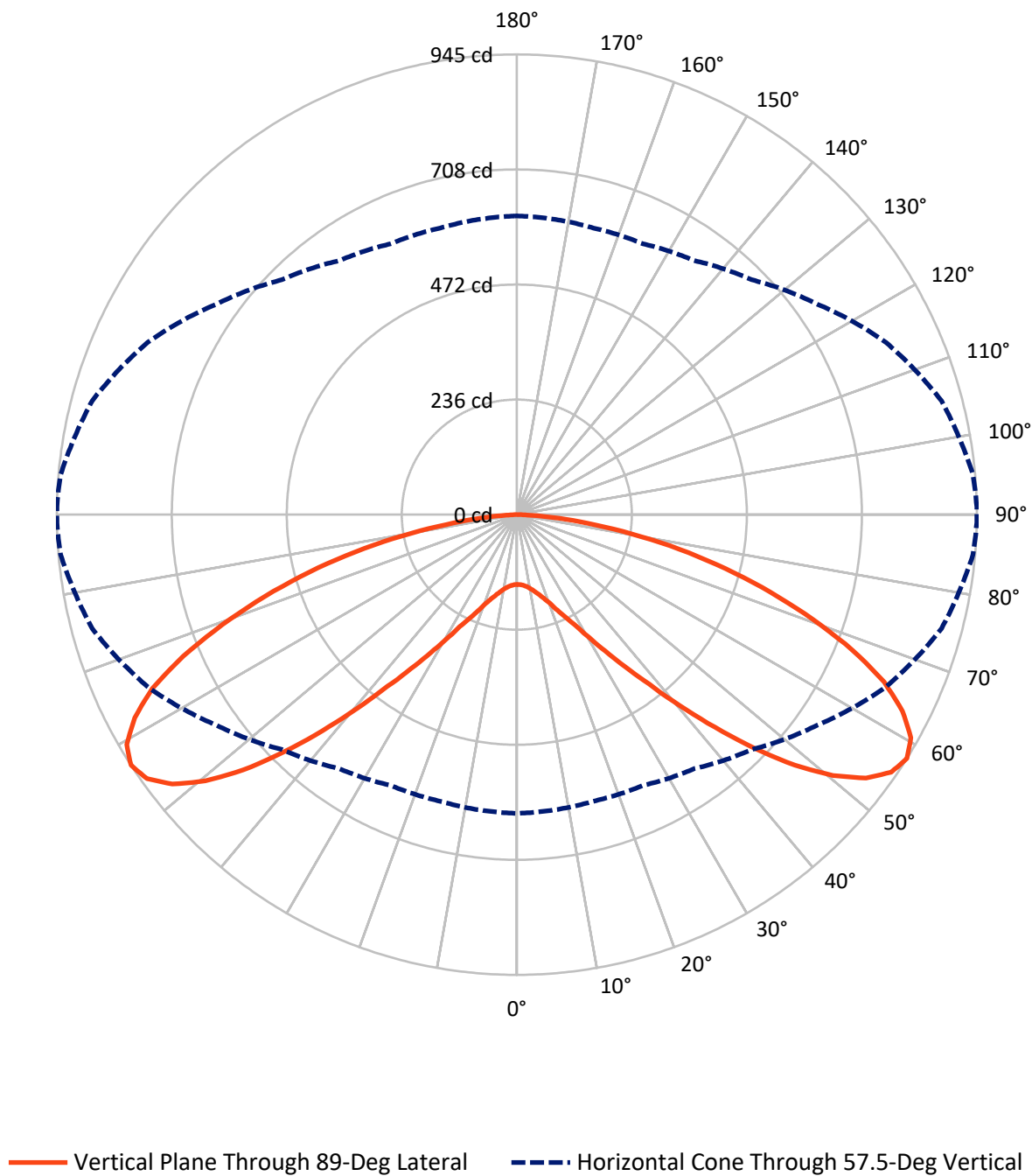


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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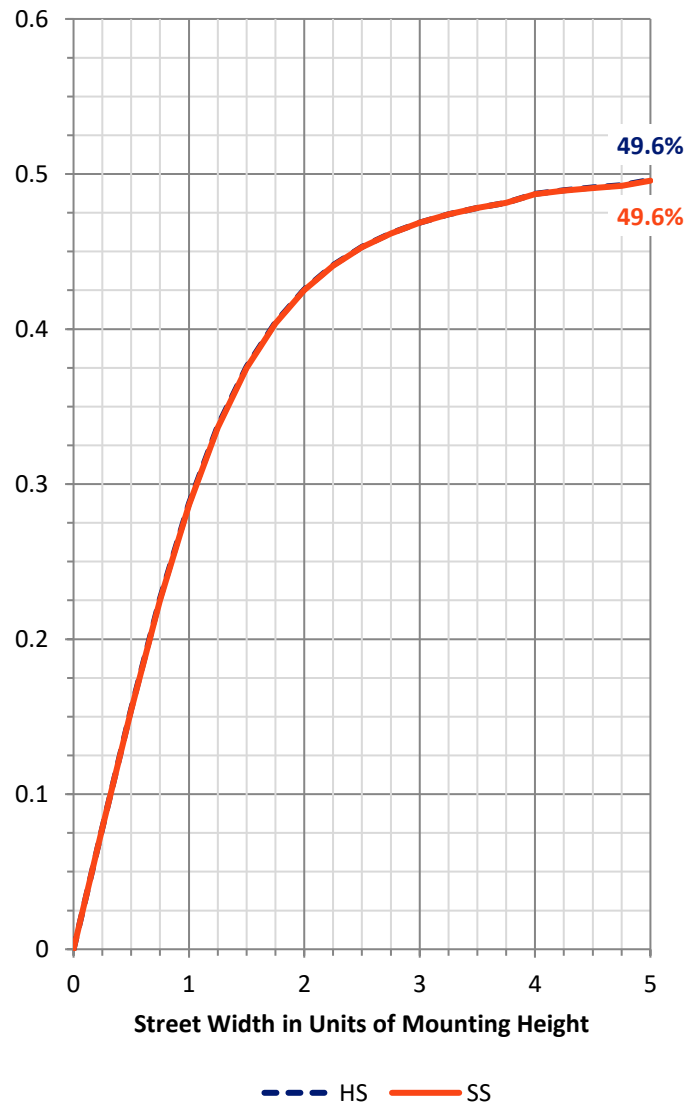
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1289.1	0.0	1289.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1289.1	0.0	1289.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	2578.3	0.0	2578.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	0.6
10°-20°	49.6	1.9
20°-30°	111.2	4.3
30°-40°	230.1	8.9
40°-50°	436.9	16.9
50°-60°	639.3	24.8
60°-70°	637.3	24.7
70°-80°	379.3	14.7
80°-90°	80.2	3.1
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°	2578.3	100.0
0°-180°	2578.3	100.0

Coefficient of Utilization



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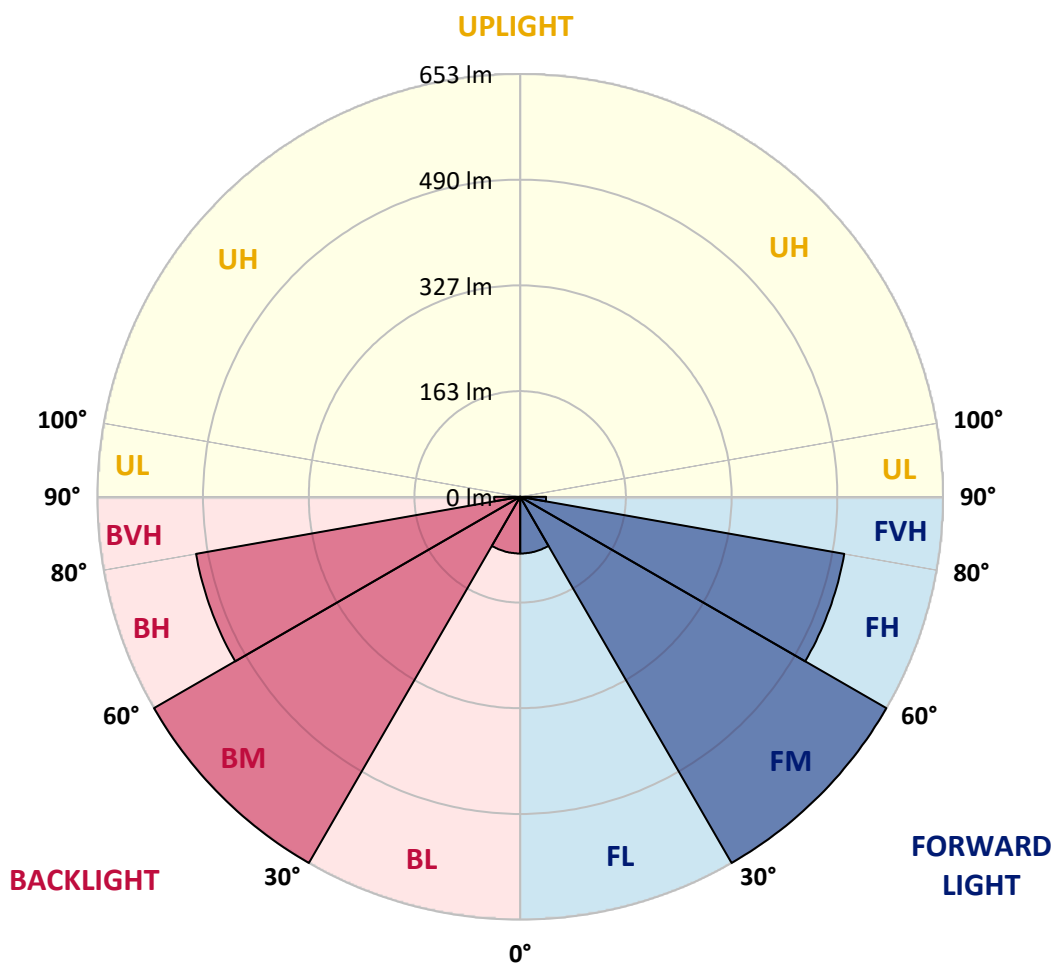
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.5	3.4			
FM	(30°-60°)	653.1	25.3			
FH	(60°-80°)	508.3	19.7			G0/660
FVH	(80°-90°)	40.1	1.6			G1/100
BL	(0°-30°)	87.5	3.4	B0/110		
BM	(30°-60°)	653.1	25.3	B1/1000		
BH	(60°-80°)	508.3	19.7	B2/1000		G2/1000
BVH	(80°-90°)	40.1	1.6			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2
2.5°	144.3	144.3	144.3	144.3	143.7	143.7	143.7	143.7	143.7	143.7	143.7
5°	146.4	146.4	145.9	146.4	145.9	145.9	145.9	145.9	145.9	145.9	145.9
7.5°	149.6	149.6	149.6	149.6	149.6	149.6	149.1	149.6	149.1	149.1	149.1
10°	155.5	155.0	155.5	155.0	155.0	154.5	154.5	154.5	154.5	154.5	154.5
12.5°	163.1	163.1	163.1	162.5	162.0	162.0	161.4	161.4	161.4	160.9	161.4
15°	173.2	173.8	172.2	171.6	171.6	170.6	170.0	170.6	170.0	169.5	170.0
17.5°	185.6	186.1	185.0	184.0	182.9	182.4	181.8	181.3	181.3	181.3	180.8
20°	201.7	201.7	200.6	198.5	196.8	195.8	195.8	195.2	195.2	195.8	194.2
22.5°	219.9	219.4	218.3	217.2	215.1	212.9	211.9	211.3	211.3	212.4	212.9
25°	242.4	243.0	239.7	237.6	235.5	231.7	231.2	231.7	232.2	232.2	233.3
27.5°	265.5	266.6	263.9	260.7	257.4	255.8	254.8	255.8	256.9	258.5	258.0
30°	292.8	292.3	291.8	286.9	283.2	281.6	282.7	285.9	288.6	292.3	292.8
32.5°	322.3	323.4	319.7	315.9	314.3	312.7	314.3	321.3	328.8	330.9	333.6
35°	357.2	355.1	352.9	350.2	347.6	347.6	355.6	363.6	375.4	383.5	383.5
37.5°	392.6	391.0	387.2	383.5	383.5	388.9	396.9	416.7	433.9	445.7	440.9
40°	429.1	426.9	425.9	421.6	422.1	435.0	452.1	476.8	501.5	518.1	514.9
42.5°	466.1	466.6	462.9	461.3	466.1	480.6	510.6	543.9	575.0	595.9	596.4
45°	504.2	504.2	501.5	500.4	509.5	531.5	569.1	614.7	656.5	680.6	683.3
47.5°	539.0	538.5	536.4	535.8	551.4	577.7	624.8	683.3	734.8	761.6	768.6
50°	569.1	569.6	566.4	569.1	583.0	617.9	674.7	745.5	804.5	838.3	841.5
52.5°	592.7	593.2	589.5	591.6	610.4	650.6	713.9	793.3	857.6	893.6	897.9
55°	608.8	606.6	603.9	607.2	628.6	673.1	742.3	824.9	892.0	929.5	932.7
57.5°	613.1	611.4	608.8	613.1	636.1	681.7	753.0	836.2	902.7	940.2	944.5
60°	606.6	606.6	603.4	608.2	631.3	675.8	745.5	826.0	889.3	923.6	929.5
62.5°	590.0	590.0	586.2	590.0	612.0	653.3	719.8	794.3	851.7	881.8	888.7
65°	558.9	558.3	556.2	557.3	575.5	614.7	675.3	742.8	792.7	819.5	828.7
67.5°	513.8	512.2	510.1	512.2	525.6	560.5	616.3	675.3	716.6	742.3	744.5
70°	456.4	454.8	452.1	451.1	465.0	492.9	538.0	590.0	624.3	643.1	645.2
72.5°	388.3	390.5	388.3	385.1	394.2	418.9	456.4	496.1	524.6	541.7	544.4
75°	321.3	321.8	316.4	315.4	322.3	337.9	368.5	399.0	423.7	438.2	442.5
77.5°	248.9	248.9	244.0	241.4	245.1	258.5	279.4	304.1	324.5	333.6	341.1
80°	179.1	179.1	174.9	168.4	172.2	179.1	197.9	211.3	227.4	237.6	238.7
82.5°	112.1	110.5	111.6	106.7	107.8	110.0	121.8	130.9	140.5	145.9	146.4
85°	58.5	56.3	55.2	52.6	51.0	54.7	60.1	66.5	68.7	73.5	71.9
87.5°	18.2	17.2	16.6	16.6	15.0	16.1	16.6	17.7	20.4	20.4	21.5
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°	143.2
2.5°	143.7
5°	145.9
7.5°	149.1
10°	154.5
12.5°	160.9
15°	170.0
17.5°	181.3
20°	194.2
22.5°	211.3
25°	232.2
27.5°	256.9
30°	292.3
32.5°	332.0
35°	380.3
37.5°	446.2
40°	514.4
42.5°	600.2
45°	683.3
47.5°	768.6
50°	839.9
52.5°	896.2
55°	934.3
57.5°	944.5
60°	927.9
62.5°	887.1
65°	827.6
67.5°	744.5
70°	648.4
72.5°	542.8
75°	437.7
77.5°	339.0
80°	238.7
82.5°	150.7
85°	71.9
87.5°	23.1
90°	0.0

(END OF REPORT)