

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: P198042

Luminaire Tested: **TT-C2-LED-E1-RW-CG-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34696)
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-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477.4 lumens
Efficiency: N/A
Efficacy: 102.3 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): 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

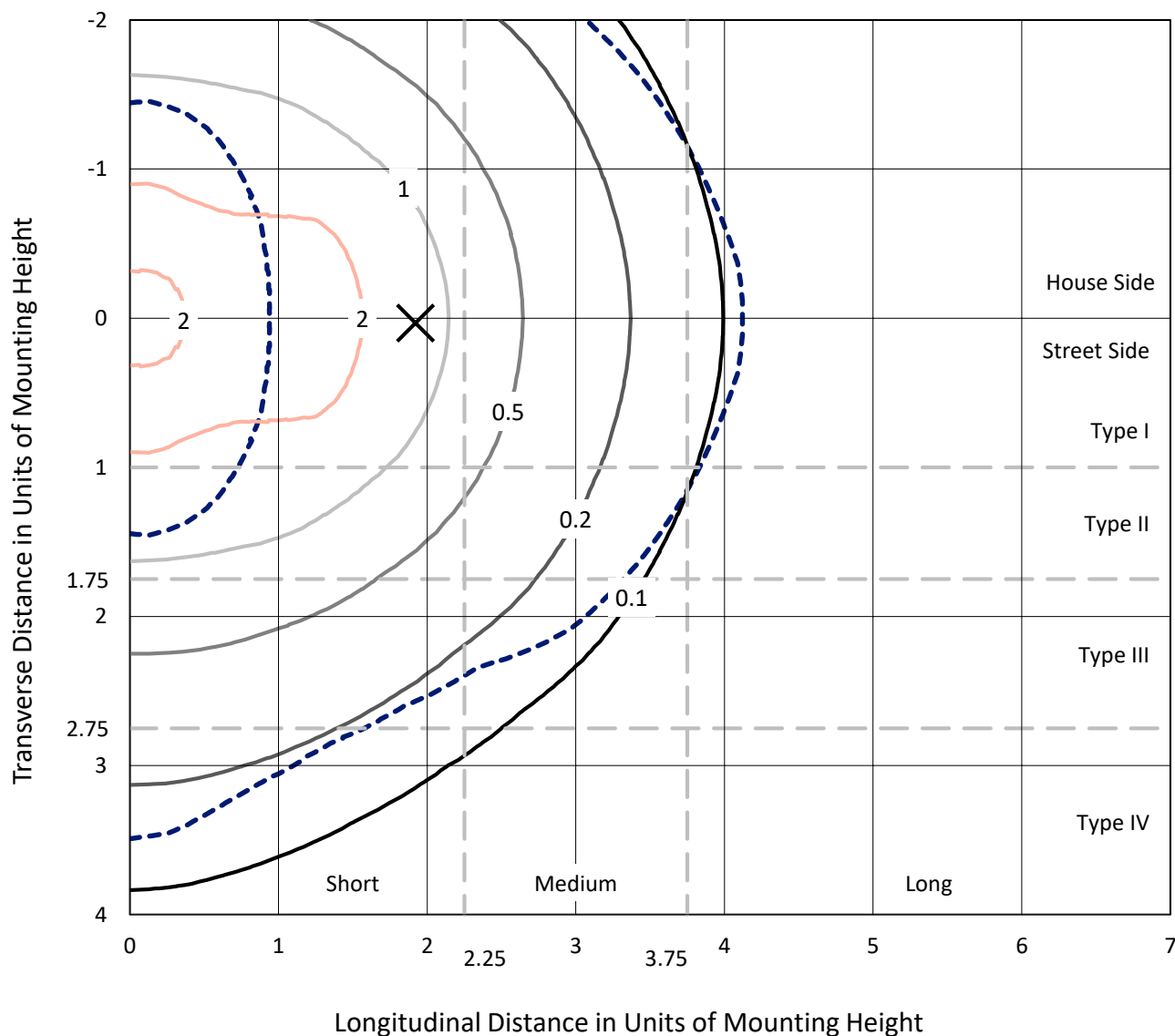


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

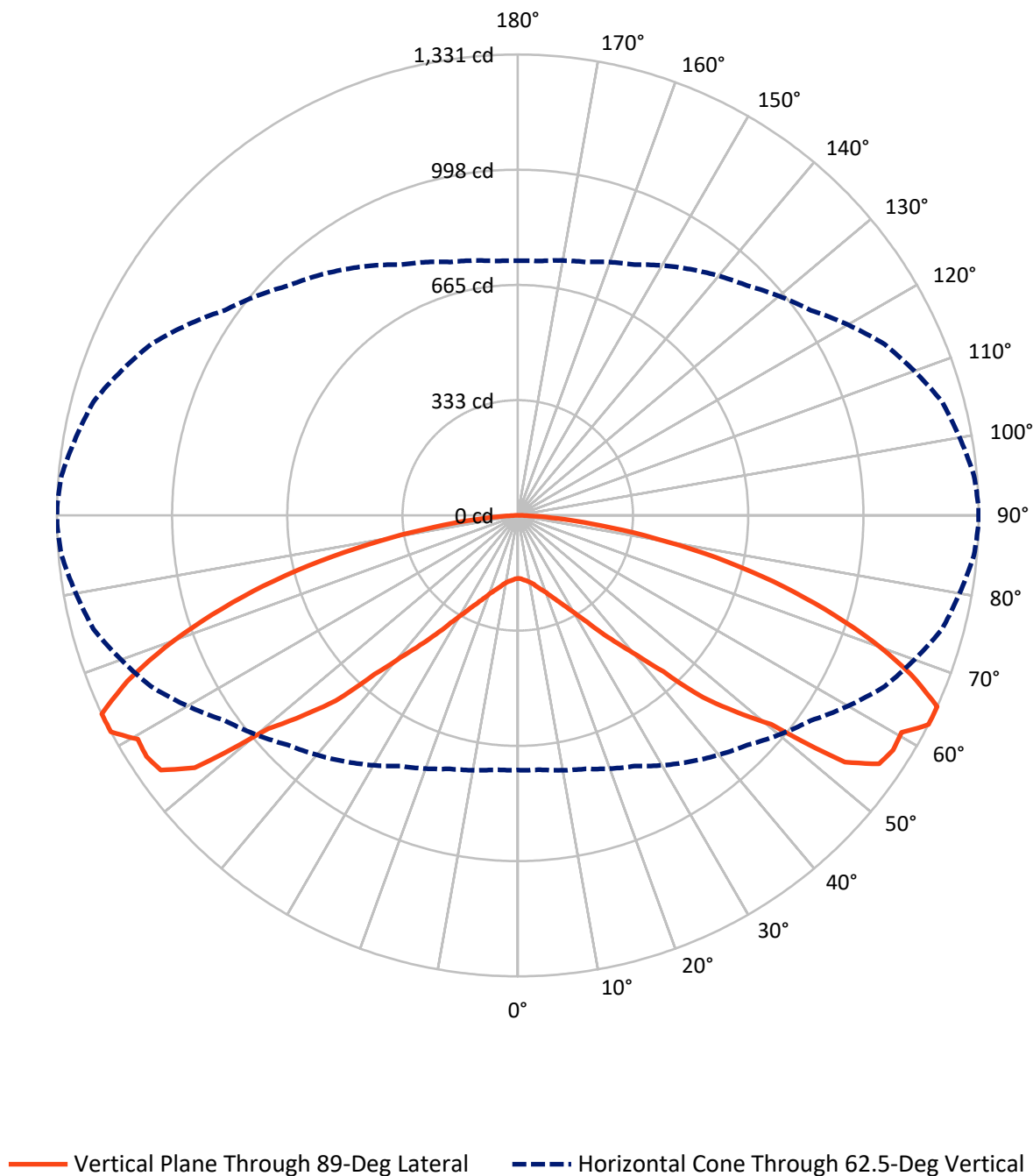


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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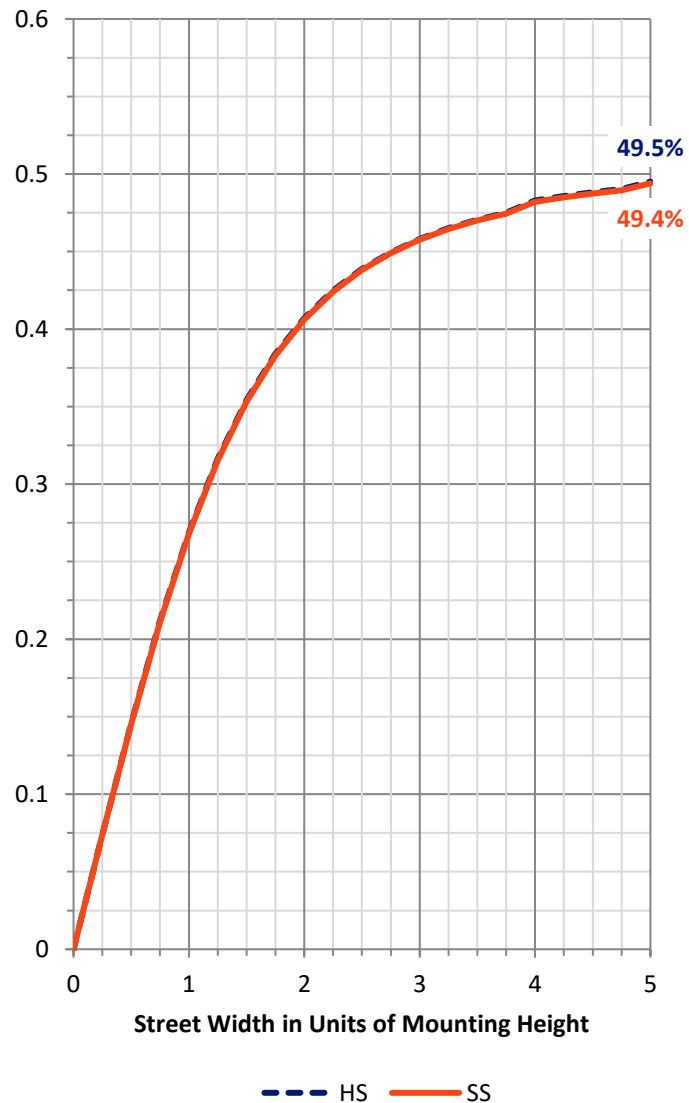
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1738.7	0.0	1738.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1738.7	0.0	1738.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3477.4	0.0	3477.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	0.5
10°-20°	61.9	1.8
20°-30°	131.6	3.8
30°-40°	252.9	7.3
40°-50°	468.3	13.5
50°-60°	791.0	22.7
60°-70°	955.4	27.5
70°-80°	657.8	18.9
80°-90°	140.3	4.0
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°	3477.4	100.0
0°-180°	3477.4	100.0

Coefficient of Utilization



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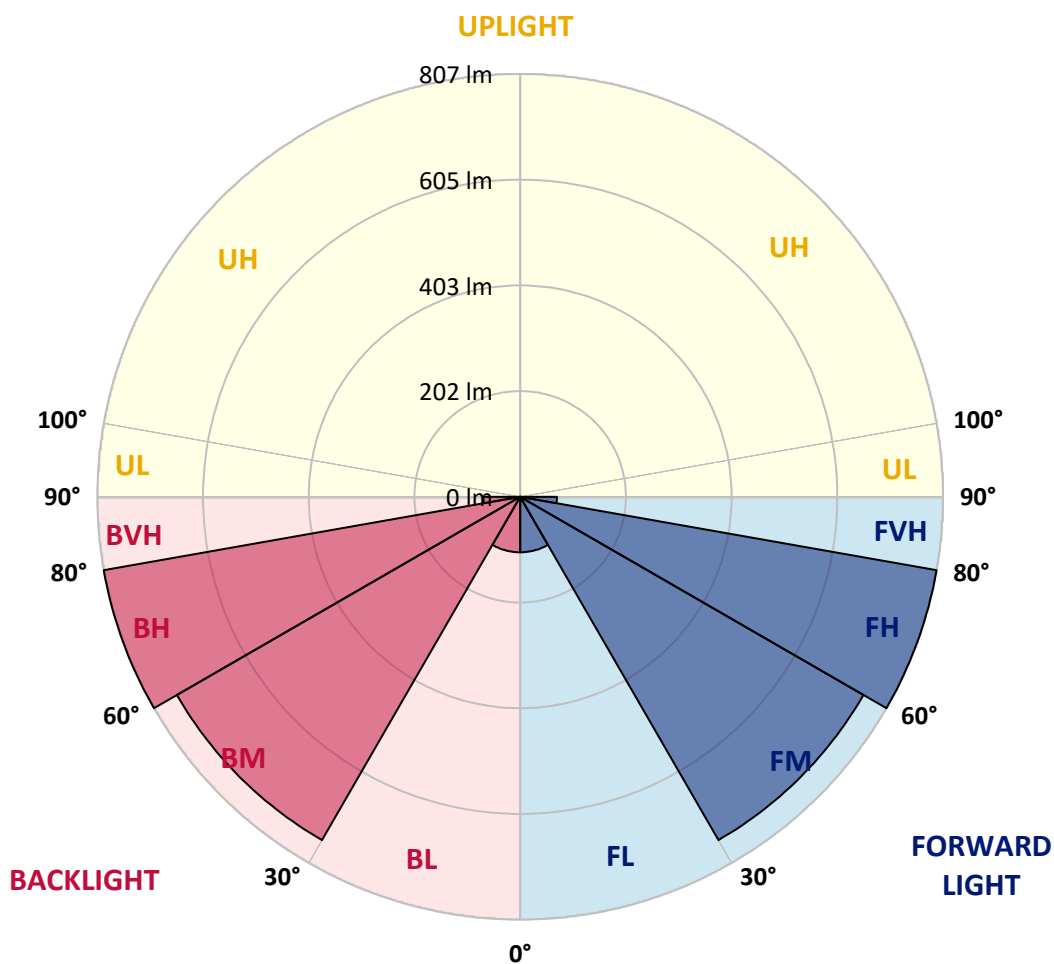
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	105.8	3.0			
FM	(30°-60°)	756.1	21.7			
FH	(60°-80°)	806.6	23.2			G1/1800
FVH	(80°-90°)	70.2	2.0			G1/100
BL	(0°-30°)	105.8	3.0	B0/110		
BM	(30°-60°)	756.1	21.7	B1/1000		
BH	(60°-80°)	806.6	23.2	B2/1000		G2/1000
BVH	(80°-90°)	70.2	2.0			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°	89°
0°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8
2.5°	183.3	183.3	183.3	183.3	184.0	184.0	184.0	184.0	184.0	184.0	183.3
5°	186.3	185.6	186.3	187.1	187.1	187.9	187.9	187.9	187.9	187.9	187.1
7.5°	190.1	190.1	190.9	191.7	192.4	191.7	191.7	190.9	190.9	190.9	190.9
10°	197.0	196.2	197.0	197.7	197.0	197.0	197.0	197.0	197.0	197.0	196.2
12.5°	204.6	204.6	204.6	204.6	203.8	204.6	203.8	204.6	204.6	204.6	203.8
15°	215.2	215.2	215.2	214.5	213.7	213.7	213.7	213.7	213.7	213.7	214.5
17.5°	229.7	228.9	228.2	226.6	225.9	225.1	225.1	225.1	225.9	225.9	225.9
20°	246.4	244.9	243.4	242.6	241.9	240.3	239.6	240.3	241.1	241.1	238.8
22.5°	266.9	264.7	262.4	261.6	258.6	257.8	257.1	256.3	256.3	257.1	256.3
25°	286.0	286.7	284.4	280.6	279.9	278.4	276.1	276.8	276.1	276.8	276.1
27.5°	309.5	311.1	308.8	305.0	302.7	300.4	298.9	298.9	299.7	301.9	299.7
30°	336.2	336.9	334.6	331.6	327.8	324.7	324.0	327.8	327.8	330.8	329.3
32.5°	364.3	363.5	360.5	359.7	355.2	355.2	355.9	359.0	364.3	366.6	365.8
35°	398.5	394.0	393.2	390.2	386.4	386.4	390.9	398.5	408.4	414.5	415.3
37.5°	429.7	428.2	427.4	422.9	420.6	425.1	434.3	448.0	456.3	468.5	468.5
40°	461.6	465.4	461.6	457.1	459.4	466.2	481.4	498.9	517.9	530.9	530.9
42.5°	492.8	499.7	495.9	492.1	498.2	514.1	533.1	562.8	600.8	617.6	616.8
45°	526.3	531.6	527.8	528.6	541.5	561.3	597.8	661.7	714.9	749.1	749.9
47.5°	562.8	563.6	561.3	565.1	584.1	622.1	671.6	749.9	802.4	843.4	846.5
50°	599.3	595.5	594.7	603.9	638.1	686.0	756.7	832.8	915.7	946.1	948.4
52.5°	632.0	627.4	630.5	645.7	690.6	749.9	838.1	967.4	1087.6	1177.3	1183.4
55°	663.2	657.9	665.5	689.8	749.1	829.0	939.3	1100.5	1202.4	1261.0	1266.3
57.5°	689.8	688.3	700.5	730.9	803.9	901.2	1022.2	1153.7	1229.0	1273.1	1278.5
60°	716.4	716.4	732.4	771.9	853.3	942.3	1038.1	1153.0	1230.5	1267.8	1273.1
62.5°	735.4	737.0	757.5	798.6	867.8	937.7	1032.8	1168.9	1268.6	1322.6	1330.9
65°	746.1	749.1	771.2	798.6	861.7	933.2	1067.0	1181.9	1264.0	1321.1	1330.9
67.5°	747.6	753.7	764.3	784.9	838.1	899.0	1012.3	1105.8	1174.3	1217.6	1224.5
70°	740.8	738.5	737.7	743.0	769.7	813.8	913.4	987.2	1054.9	1082.2	1087.6
72.5°	706.5	705.8	679.2	662.4	669.3	699.7	787.9	845.0	889.1	924.1	927.9
75°	638.1	632.0	587.9	553.7	546.8	574.2	640.4	682.2	721.7	754.5	762.8
77.5°	532.4	517.2	472.3	432.0	419.1	439.6	489.0	517.9	546.8	584.9	584.9
80°	386.4	378.7	340.0	307.3	294.3	306.5	341.5	353.6	368.9	403.1	403.8
82.5°	249.5	241.1	215.2	194.7	183.3	190.9	205.3	210.7	223.6	244.1	243.4
85°	121.7	121.7	108.8	97.3	86.7	88.2	97.3	100.4	111.0	116.4	114.8
87.5°	30.4	33.5	29.7	27.4	24.3	24.3	27.4	27.4	33.5	33.5	31.9
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°	181.8
2.5°	183.3
5°	187.1
7.5°	190.9
10°	196.2
12.5°	204.6
15°	213.7
17.5°	226.6
20°	241.1
22.5°	256.3
25°	276.1
27.5°	301.9
30°	330.8
32.5°	365.1
35°	412.2
37.5°	468.5
40°	531.6
42.5°	617.6
45°	751.4
47.5°	843.4
50°	946.1
52.5°	1179.6
55°	1265.5
57.5°	1279.2
60°	1274.7
62.5°	1330.9
65°	1329.4
67.5°	1222.9
70°	1089.8
72.5°	933.9
75°	765.9
77.5°	581.0
80°	419.8
82.5°	244.9
85°	116.4
87.5°	35.0
90°	0.0

(END OF REPORT)