

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: P400593

Luminaire Tested: **TT-D1-835-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P197998)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D1-835-U-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3032 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - 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: 28.75 FT

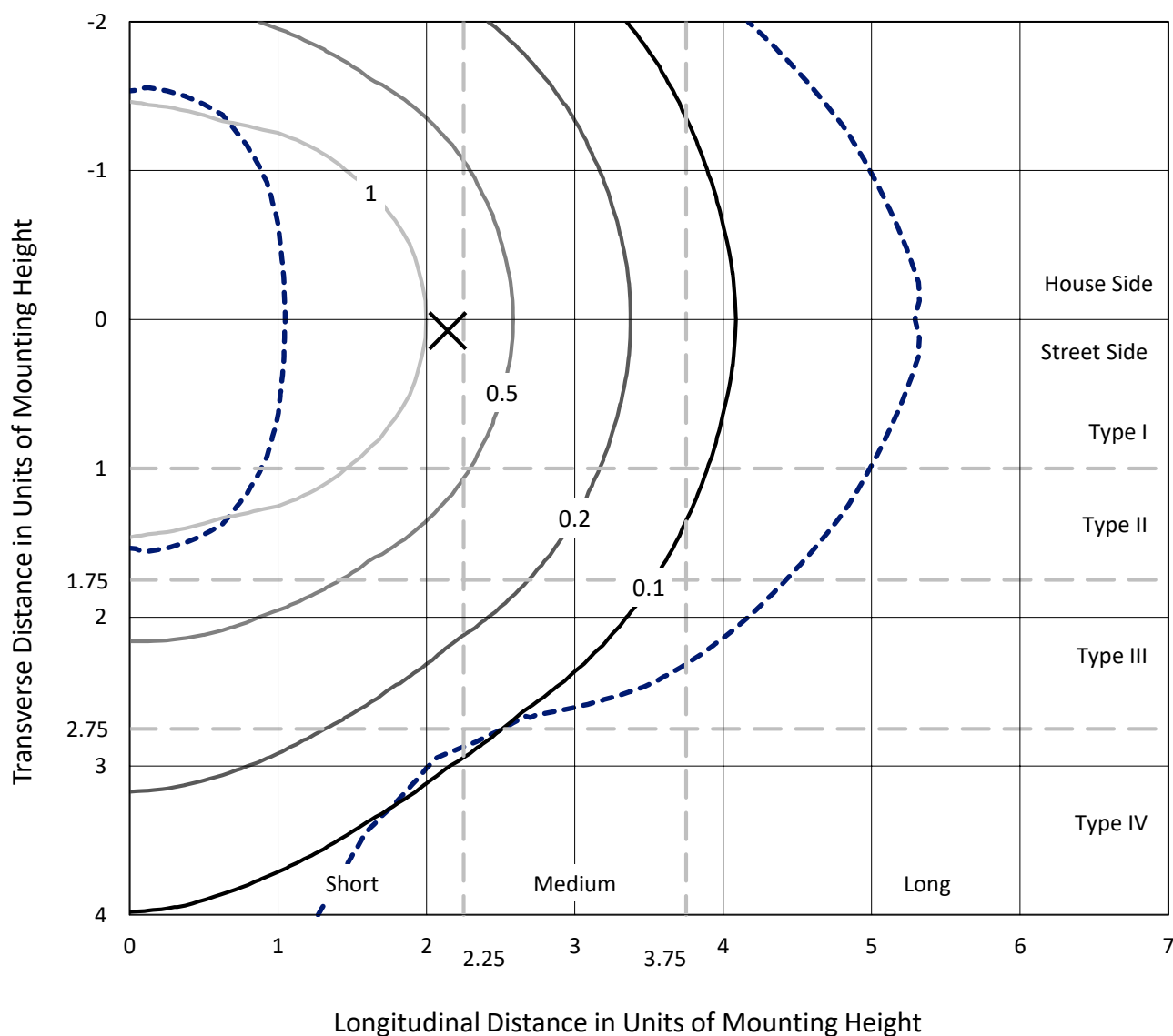


REPORT NUMBER: P400593

CATALOG NUMBER: TT-D1-835-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

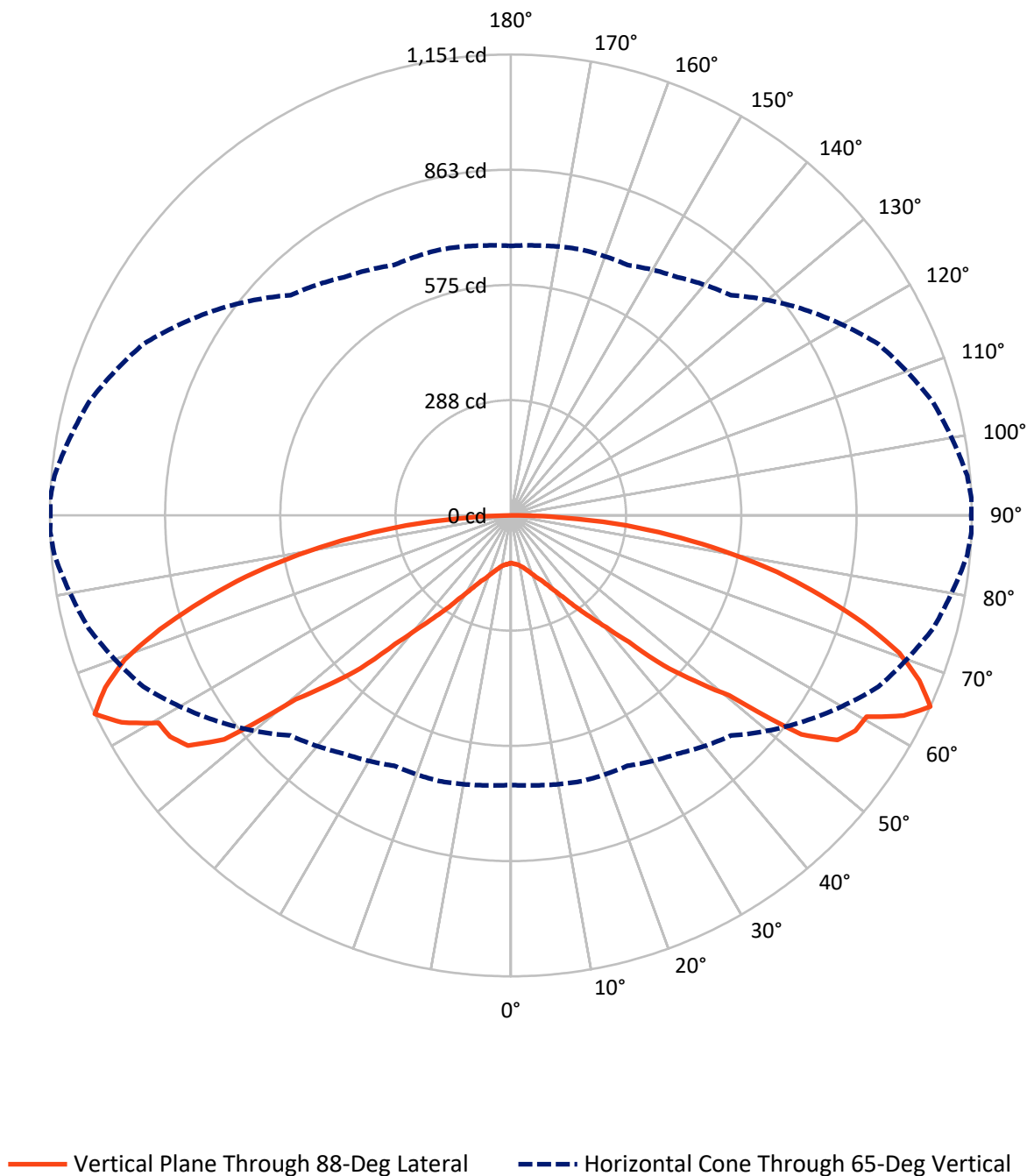


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P400593

CATALOG NUMBER: TT-D1-835-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P400593

CATALOG NUMBER: TT-D1-835-U-RW

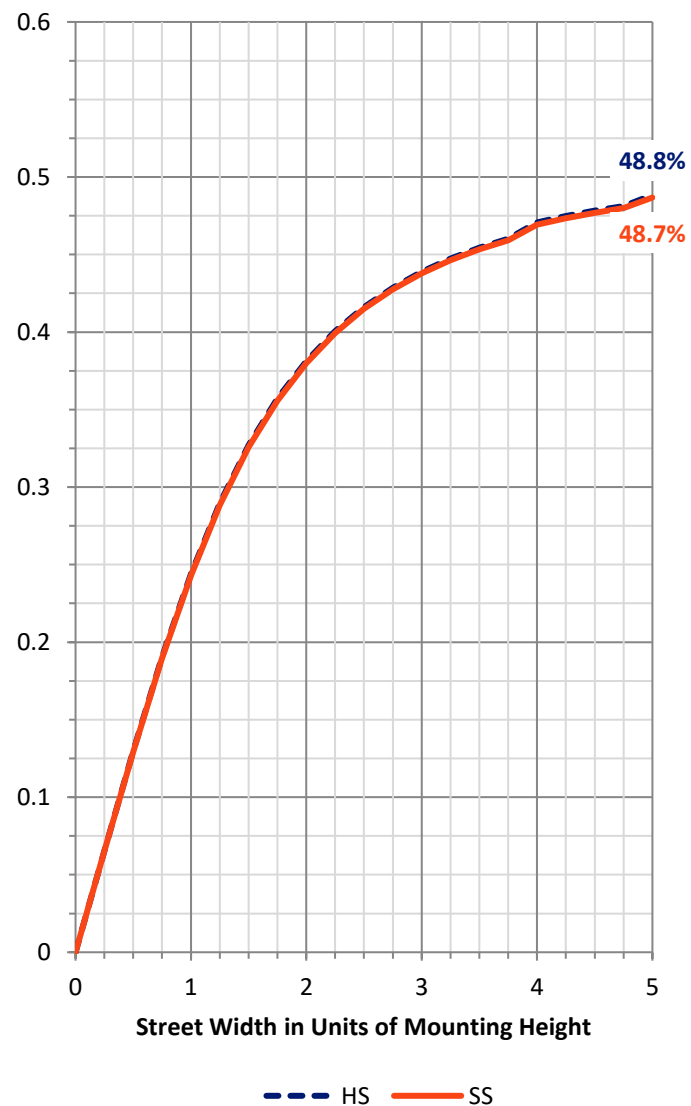
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1516.0	0.0	1516.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1516.0	0.0	1516.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3032.0	0.0	3032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	0.4
10°-20°	41.3	1.4
20°-30°	91.2	3.0
30°-40°	181.7	6.0
40°-50°	347.8	11.5
50°-60°	622.6	20.5
60°-70°	825.0	27.2
70°-80°	688.5	22.7
80°-90°	222.1	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°	3032.0	100.0
0°-180°	3032.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400593

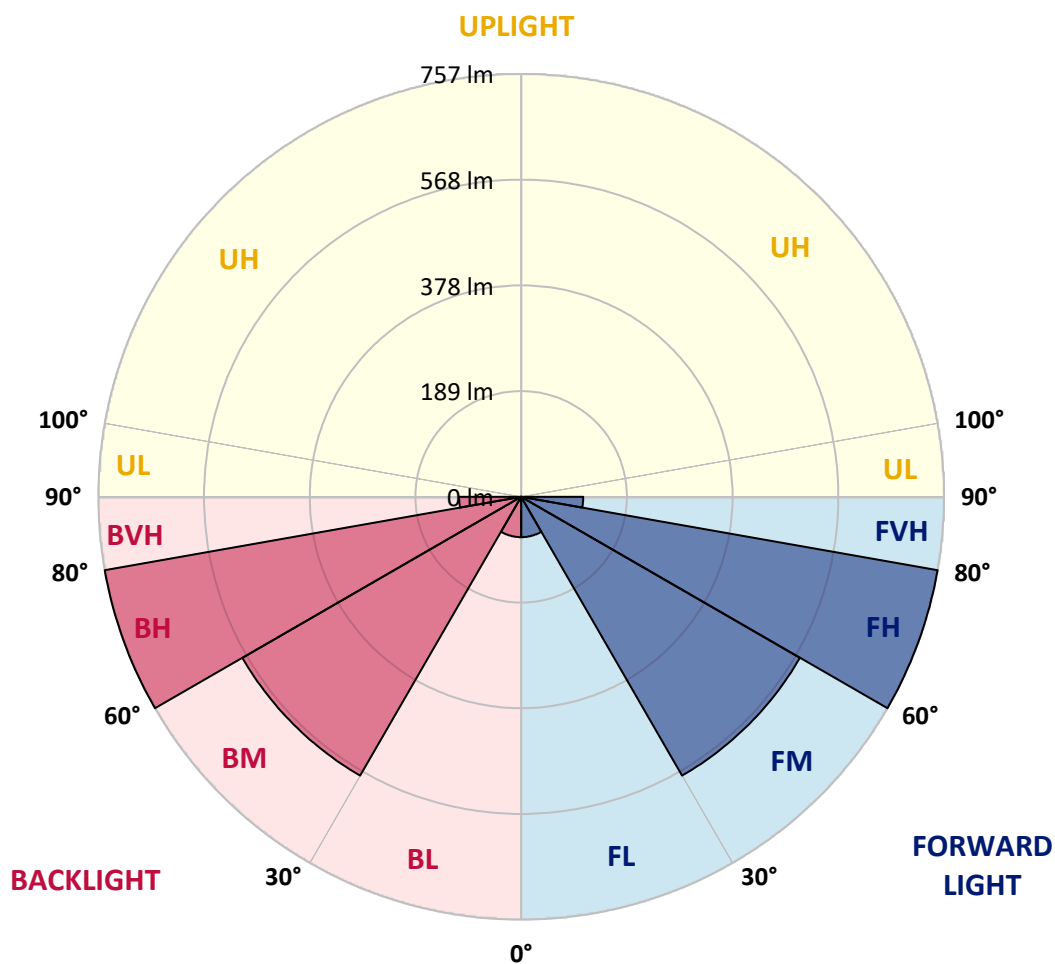
CATALOG NUMBER: TT-D1-835-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	72.2	2.4			
FM	(30°-60°)	576.0	19.0			
FH	(60°-80°)	756.7	25.0			G1/1800
FVH	(80°-90°)	111.1	3.7			G2/225
BL	(0°-30°)	72.2	2.4	B0/110		
BM	(30°-60°)	576.0	19.0	B1/1000		
BH	(60°-80°)	756.7	25.0	B2/1000		G1/1800
BVH	(80°-90°)	111.1	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 V Short





REPORT NUMBER: P400593

CATALOG NUMBER: TT-D1-835-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7
2.5°	119.9	119.9	119.9	119.9	120.5	120.5	120.5	120.5	120.5	120.5	120.5
5°	121.7	121.7	122.3	122.3	122.9	122.9	122.9	122.9	122.3	122.3	122.3
7.5°	124.7	125.3	125.9	125.9	125.9	125.3	124.7	124.7	124.1	124.1	124.1
10°	130.1	130.1	130.7	130.7	130.1	129.5	128.9	128.3	128.3	128.3	127.7
12.5°	136.6	136.6	137.2	136.6	135.4	134.8	133.6	133.0	133.0	132.4	132.4
15°	145.6	146.8	146.8	145.0	143.2	141.4	140.8	139.6	139.6	139.6	139.6
17.5°	159.3	158.7	156.3	154.5	153.3	150.3	149.1	148.6	147.4	147.4	147.4
20°	174.8	173.6	170.6	168.2	165.9	162.3	159.9	158.7	158.1	157.5	157.5
22.5°	192.1	190.3	186.1	184.3	179.6	176.0	173.0	170.6	168.8	168.2	169.4
25°	210.0	210.0	206.4	201.6	196.9	191.5	187.3	184.3	182.0	181.4	180.8
27.5°	229.1	230.3	225.5	220.7	215.4	208.2	204.0	199.9	199.3	198.7	198.1
30°	249.4	251.8	247.0	242.2	235.1	227.9	222.5	220.7	218.9	220.1	220.1
32.5°	274.4	275.6	270.3	266.7	257.1	250.0	245.2	244.0	244.6	244.0	245.8
35°	303.7	301.9	297.7	290.5	282.2	275.6	272.0	274.4	281.0	283.4	282.2
37.5°	335.9	329.3	326.9	318.0	310.2	304.9	306.1	312.0	317.4	321.6	320.4
40°	359.7	360.9	354.4	346.0	338.9	337.7	344.2	352.0	362.1	365.7	366.9
42.5°	384.2	391.4	383.6	375.3	371.7	374.1	383.6	399.1	421.8	433.7	431.9
45°	412.2	420.0	411.6	405.1	404.5	413.4	434.3	474.9	508.3	532.2	534.5
47.5°	441.5	447.4	439.7	435.5	441.5	458.8	494.6	548.9	584.7	612.7	617.5
50°	478.5	476.1	470.1	469.5	482.6	514.3	562.6	617.5	681.9	700.4	706.4
52.5°	514.9	505.9	504.7	507.7	531.0	566.8	631.2	739.2	834.0	900.9	908.0
55°	548.9	538.7	541.1	548.9	581.7	636.0	725.5	857.3	940.2	987.4	989.7
57.5°	579.9	573.9	579.3	590.0	639.0	708.8	803.6	912.2	974.8	1008.2	1014.2
60°	611.5	610.3	616.9	636.6	689.1	751.1	830.5	926.5	989.2	1014.8	1020.8
62.5°	641.3	645.5	653.9	673.0	713.5	761.9	838.8	956.3	1050.0	1090.6	1100.7
65°	673.0	676.5	686.7	689.7	726.1	777.4	895.5	1012.4	1091.2	1143.7	1150.8
67.5°	701.6	706.4	702.8	700.4	732.0	777.4	884.2	986.8	1052.4	1092.4	1100.1
70°	729.0	723.7	709.4	690.9	699.8	730.8	828.7	917.6	983.8	1021.4	1029.1
72.5°	736.2	729.0	690.9	648.5	635.4	658.6	748.7	827.5	881.8	917.0	921.7
75°	717.7	702.8	638.4	579.9	554.8	578.1	653.3	720.7	758.9	797.0	800.0
77.5°	643.7	634.2	562.6	491.6	463.6	480.9	543.5	591.2	635.4	672.4	679.5
80°	528.6	520.2	457.0	399.1	361.5	373.5	419.4	457.6	499.9	529.2	538.1
82.5°	389.0	387.8	342.4	288.2	261.9	260.7	295.3	332.9	365.1	393.2	399.1
85°	244.6	244.6	213.6	180.8	153.3	153.9	174.8	202.2	242.8	260.7	262.5
87.5°	82.9	78.8	73.4	59.7	47.7	43.0	45.9	52.5	79.9	99.0	102.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400593

CATALOG NUMBER: TT-D1-835-U-RW

CANDELA DISTRIBUTION (continued):

	90°
0°	118.7
2.5°	120.5
5°	122.3
7.5°	124.1
10°	127.7
12.5°	133.0
15°	139.0
17.5°	147.4
20°	157.5
22.5°	168.8
25°	180.8
27.5°	198.7
30°	219.5
32.5°	245.2
35°	282.8
37.5°	321.6
40°	369.9
42.5°	436.7
45°	528.6
47.5°	617.5
50°	699.8
52.5°	893.1
55°	992.1
57.5°	1013.6
60°	1019.0
62.5°	1095.3
65°	1149.6
67.5°	1099.5
70°	1027.3
72.5°	918.2
75°	804.8
77.5°	679.5
80°	531.0
82.5°	399.1
85°	258.3
87.5°	99.6
90°	0.0

(END OF REPORT)