

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: P400588

Luminaire Tested: **TT-D1-827-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400588
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-D1-827-U-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2845 lumens
Efficiency: N/A
Efficacy: 101.6 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



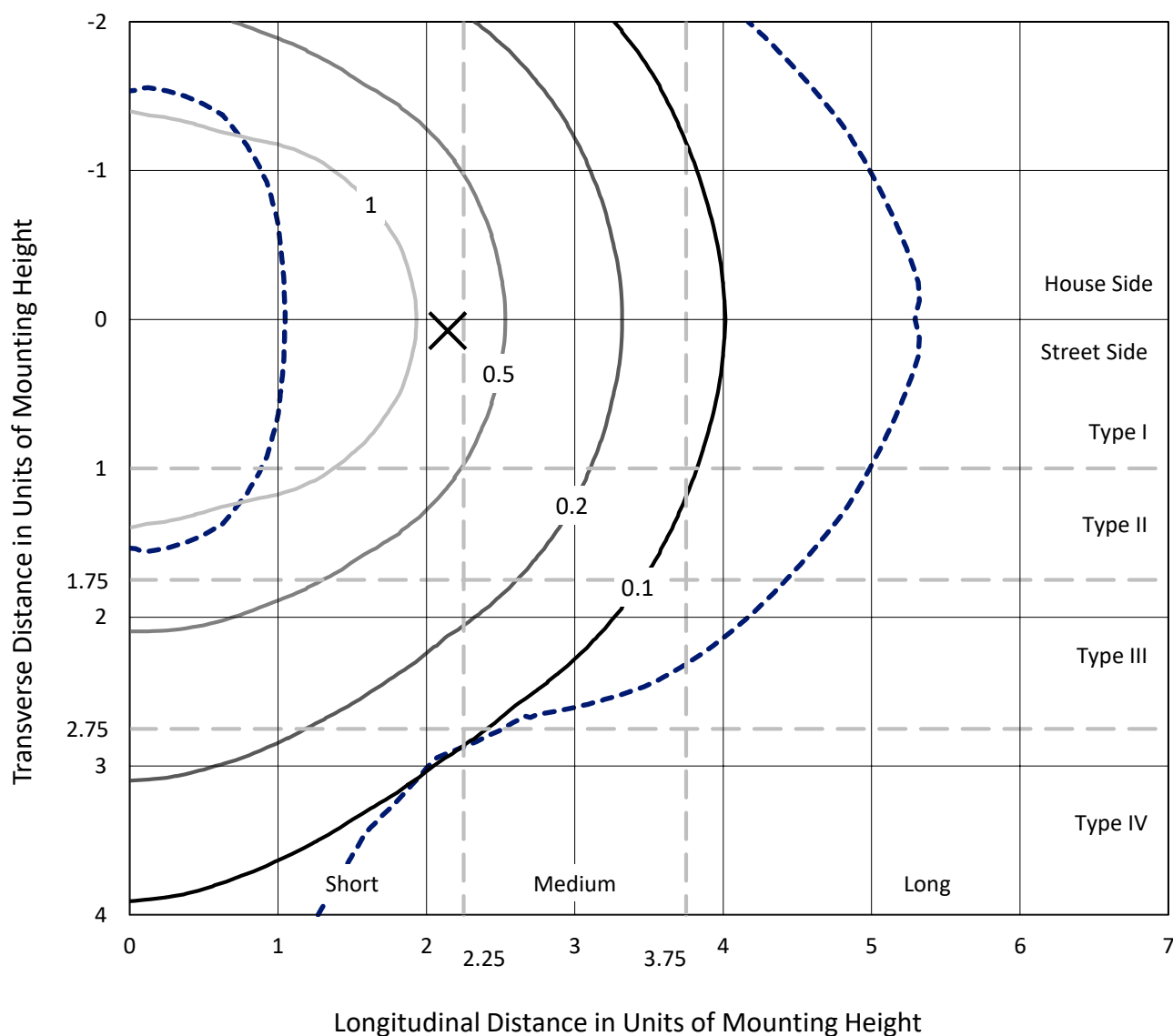
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

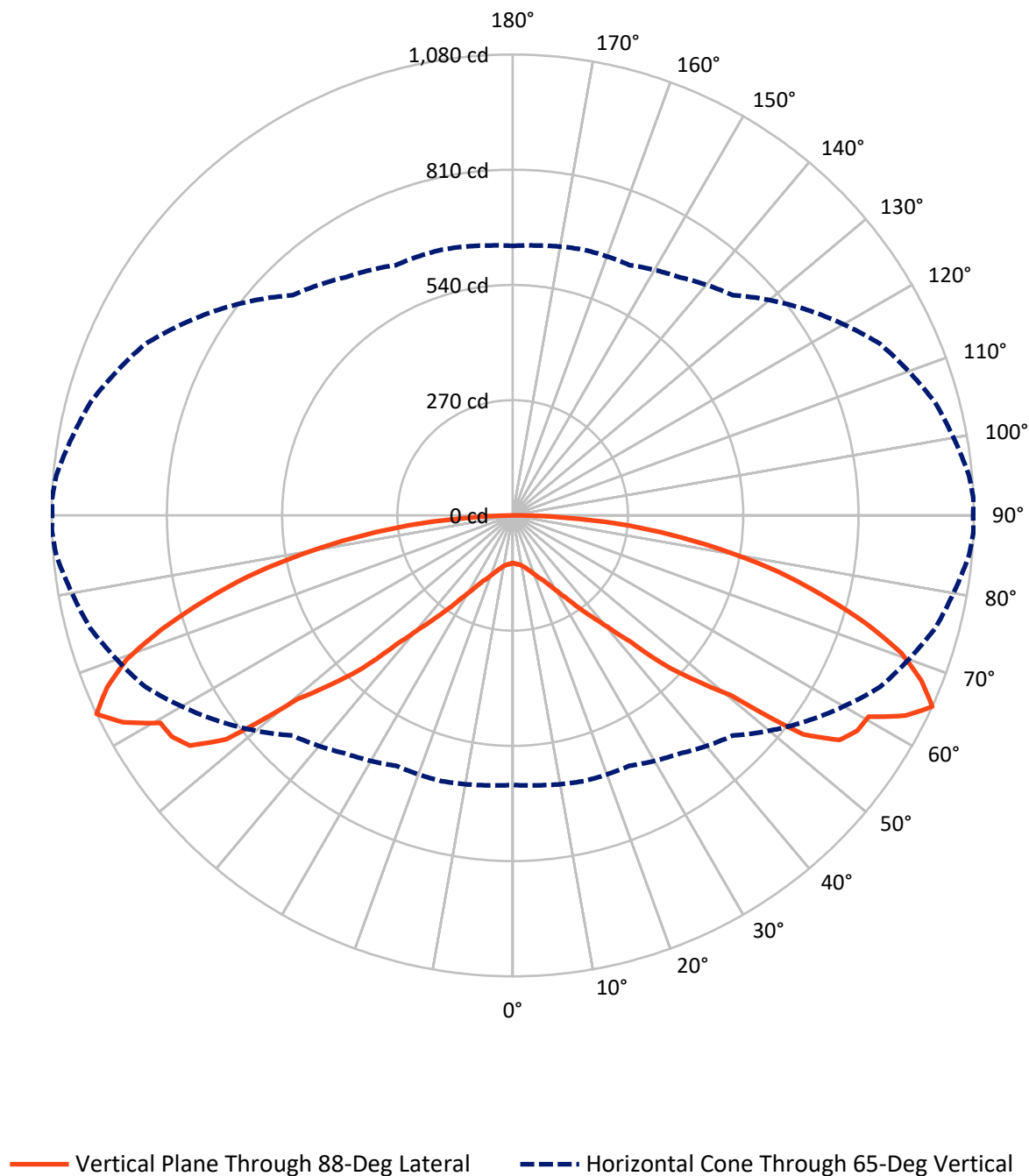


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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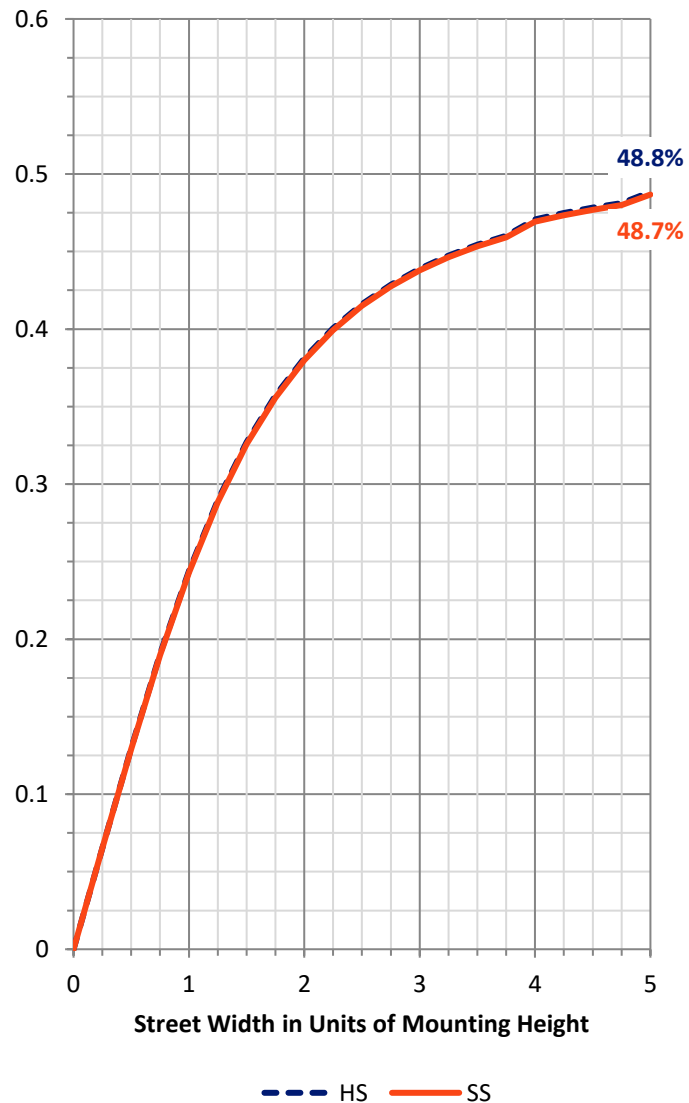
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1422.5	0.0	1422.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1422.5	0.0	1422.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2845.0	0.0	2845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.4
10°-20°	38.7	1.4
20°-30°	85.6	3.0
30°-40°	170.5	6.0
40°-50°	326.4	11.5
50°-60°	584.2	20.5
60°-70°	774.1	27.2
70°-80°	646.0	22.7
80°-90°	208.4	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°	2845.0	100.0
0°-180°	2845.0	100.0

Coefficient of Utilization



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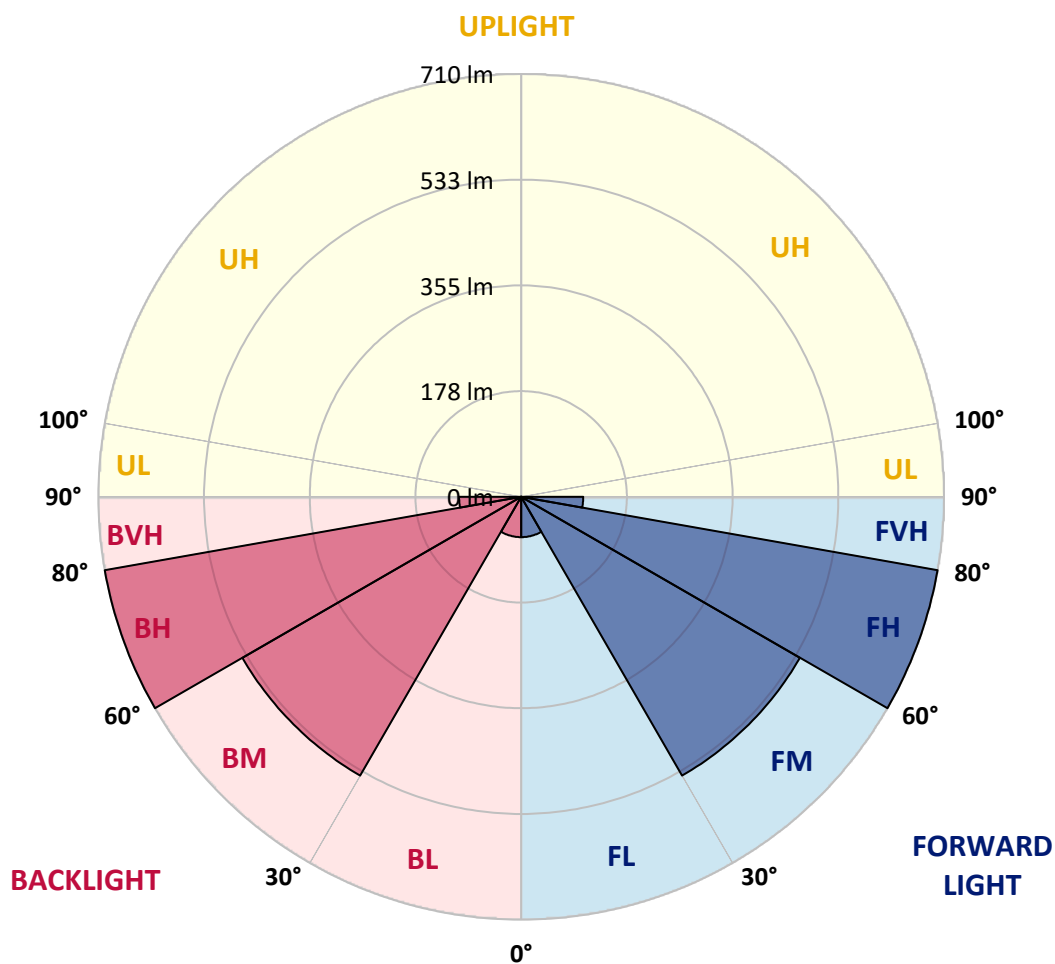
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.7	2.4			
FM	(30°-60°)	540.5	19.0			
FH	(60°-80°)	710.0	25.0			G1/1800
FVH	(80°-90°)	104.2	3.7			G2/225
BL	(0°-30°)	67.7	2.4	B0/110		
BM	(30°-60°)	540.5	19.0	B1/1000		
BH	(60°-80°)	710.0	25.0	B2/1000		G1/1800
BVH	(80°-90°)	104.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4	111.4
2.5°	112.5	112.5	112.5	112.5	113.1	113.1	113.1	113.1	113.1	113.1	113.1
5°	114.2	114.2	114.8	114.8	115.3	115.3	115.3	115.3	114.8	114.8	114.8
7.5°	117.0	117.6	118.1	118.1	118.1	117.6	117.0	117.0	116.4	116.4	116.4
10°	122.0	122.0	122.6	122.6	122.0	121.5	120.9	120.4	120.4	120.4	119.8
12.5°	128.2	128.2	128.8	128.2	127.1	126.5	125.4	124.8	124.8	124.3	124.3
15°	136.6	137.7	137.7	136.0	134.4	132.7	132.1	131.0	131.0	131.0	131.0
17.5°	149.5	148.9	146.7	145.0	143.9	141.1	139.9	139.4	138.3	138.3	138.3
20°	164.0	162.9	160.1	157.9	155.6	152.3	150.0	148.9	148.3	147.8	147.8
22.5°	180.3	178.6	174.7	173.0	168.5	165.1	162.3	160.1	158.4	157.9	159.0
25°	197.0	197.0	193.7	189.2	184.7	179.7	175.8	173.0	170.7	170.2	169.6
27.5°	215.0	216.1	211.6	207.1	202.1	195.4	191.5	187.5	187.0	186.4	185.9
30°	234.0	236.2	231.8	227.3	220.6	213.8	208.8	207.1	205.4	206.6	206.6
32.5°	257.5	258.6	253.6	250.2	241.3	234.6	230.1	229.0	229.5	229.0	230.6
35°	284.9	283.3	279.3	272.6	264.8	258.6	255.3	257.5	263.7	265.9	264.8
37.5°	315.2	309.0	306.8	298.4	291.1	286.1	287.2	292.8	297.8	301.7	300.6
40°	337.6	338.7	332.5	324.7	318.0	316.8	323.0	330.3	339.8	343.2	344.3
42.5°	360.5	367.2	360.0	352.1	348.8	351.0	360.0	374.5	395.8	407.0	405.3
45°	386.8	394.1	386.3	380.1	379.5	387.9	407.5	445.6	476.9	499.3	501.6
47.5°	414.3	419.8	412.6	408.7	414.3	430.5	464.1	515.0	548.6	574.9	579.4
50°	449.0	446.7	441.1	440.6	452.9	482.5	527.9	579.4	639.8	657.2	662.8
52.5°	483.1	474.7	473.6	476.4	498.2	531.8	592.3	693.6	782.6	845.3	852.0
55°	515.0	505.5	507.7	515.0	545.8	596.7	680.7	804.4	882.2	926.5	928.7
57.5°	544.1	538.5	543.6	553.6	599.5	665.0	754.0	855.9	914.7	946.1	951.7
60°	573.8	572.7	578.8	597.3	646.6	704.8	779.2	869.4	928.1	952.2	957.8
62.5°	601.8	605.7	613.5	631.5	669.5	714.9	787.1	897.4	985.2	1023.3	1032.8
65°	631.5	634.8	644.3	647.1	681.3	729.4	840.3	950.0	1023.9	1073.1	1079.9
67.5°	658.3	662.8	659.4	657.2	686.9	729.4	829.6	925.9	987.5	1025.0	1032.3
70°	684.1	679.0	665.6	648.2	656.6	685.8	777.6	861.0	923.1	958.4	965.7
72.5°	690.8	684.1	648.2	608.5	596.2	618.0	702.5	776.4	827.4	860.4	864.9
75°	673.4	659.4	599.0	544.1	520.6	542.4	613.0	676.2	712.1	747.9	750.7
77.5°	604.0	595.1	527.9	461.3	435.0	451.2	510.0	554.8	596.2	630.9	637.6
80°	496.0	488.1	428.8	374.5	339.2	350.4	393.5	429.4	469.1	496.5	504.9
82.5°	365.0	363.9	321.3	270.4	245.8	244.6	277.1	312.4	342.6	368.9	374.5
85°	229.5	229.5	200.4	169.6	143.9	144.4	164.0	189.8	227.8	244.6	246.3
87.5°	77.8	73.9	68.9	56.0	44.8	40.3	43.1	49.3	75.0	92.9	96.3
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°	111.4
2.5°	113.1
5°	114.8
7.5°	116.4
10°	119.8
12.5°	124.8
15°	130.4
17.5°	138.3
20°	147.8
22.5°	158.4
25°	169.6
27.5°	186.4
30°	206.0
32.5°	230.1
35°	265.3
37.5°	301.7
40°	347.1
42.5°	409.8
45°	496.0
47.5°	579.4
50°	656.6
52.5°	838.0
55°	930.9
57.5°	951.1
60°	956.1
62.5°	1027.8
65°	1078.7
67.5°	1031.7
70°	964.0
72.5°	861.5
75°	755.2
77.5°	637.6
80°	498.2
82.5°	374.5
85°	242.4
87.5°	93.5
90°	0.0

(END OF REPORT)