

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: P400613

Luminaire Tested: **TT-D2-835-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400613
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-D2-835-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: 4127 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 39.2
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

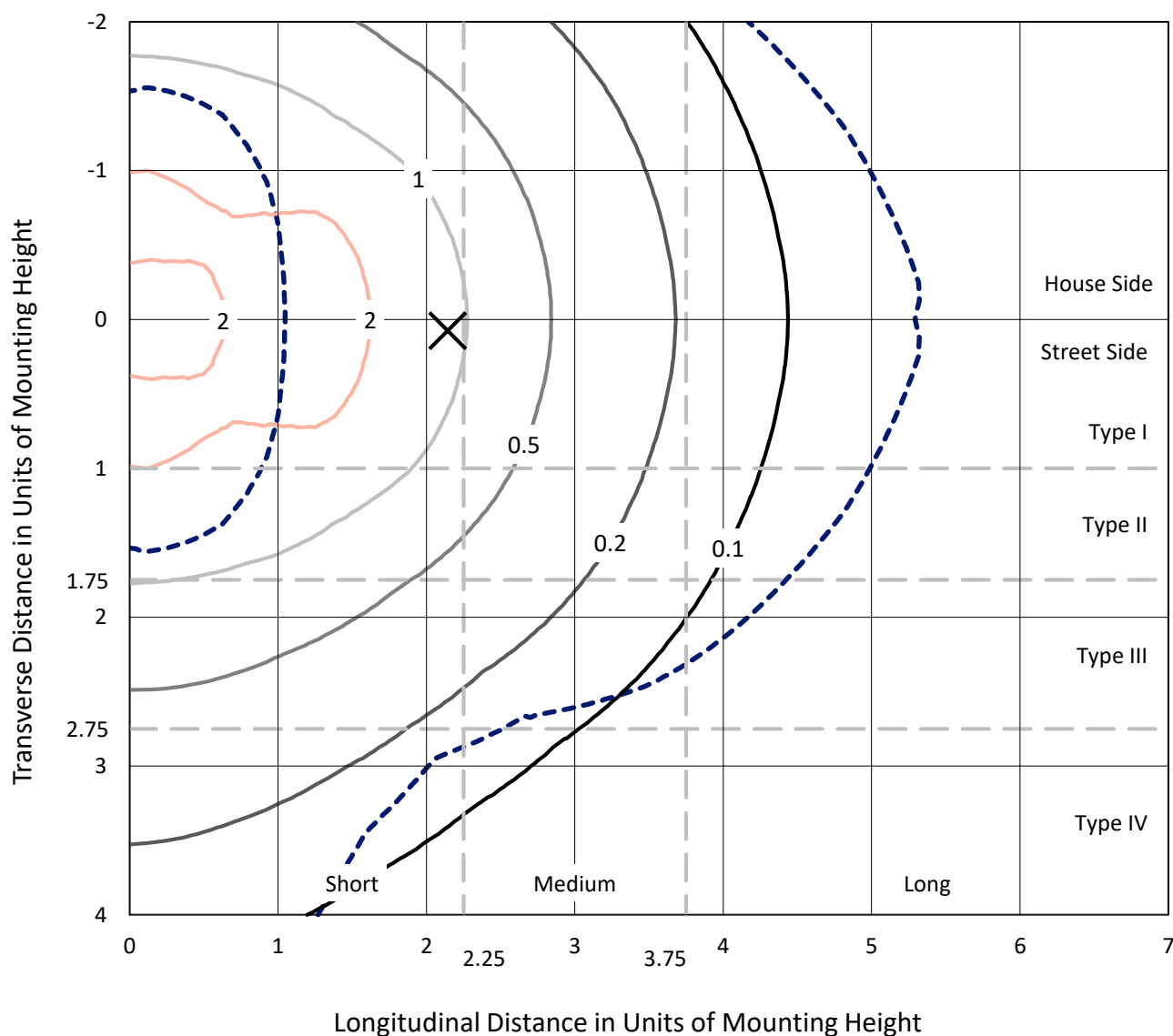


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

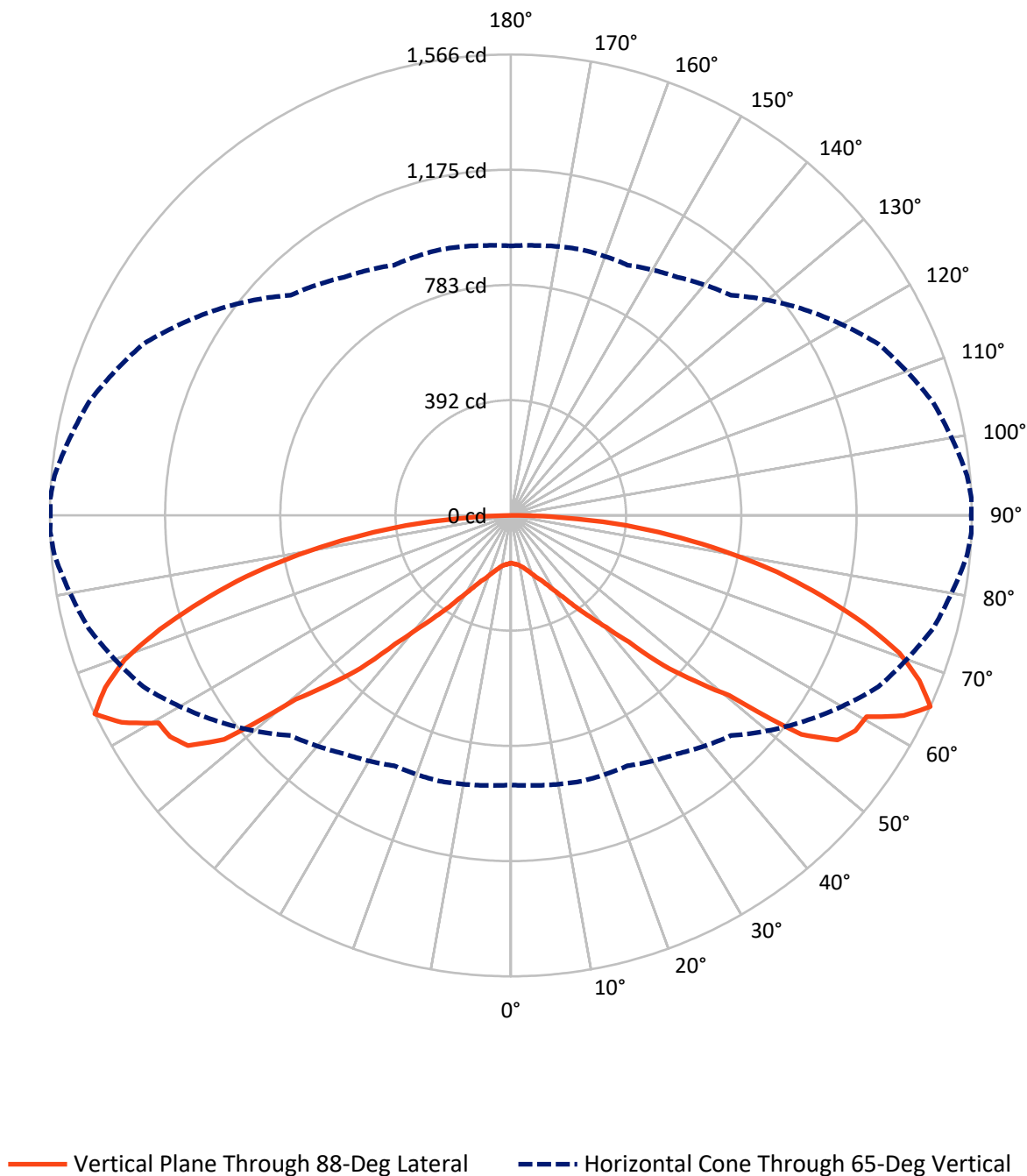


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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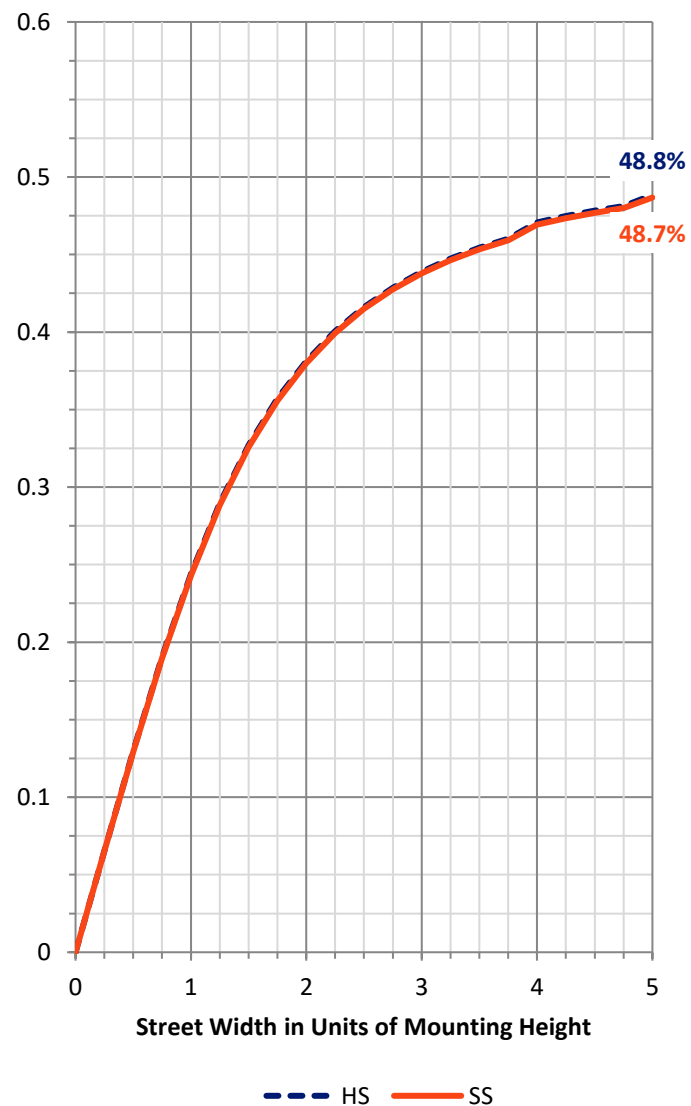
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2063.5	0.0	2063.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2063.5	0.0	2063.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4127.0	0.0	4127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	0.4
10°-20°	56.2	1.4
20°-30°	124.1	3.0
30°-40°	247.3	6.0
40°-50°	473.4	11.5
50°-60°	847.4	20.5
60°-70°	1122.9	27.2
70°-80°	937.1	22.7
80°-90°	302.3	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°	4127.0	100.0
0°-180°	4127.0	100.0

Coefficient of Utilization



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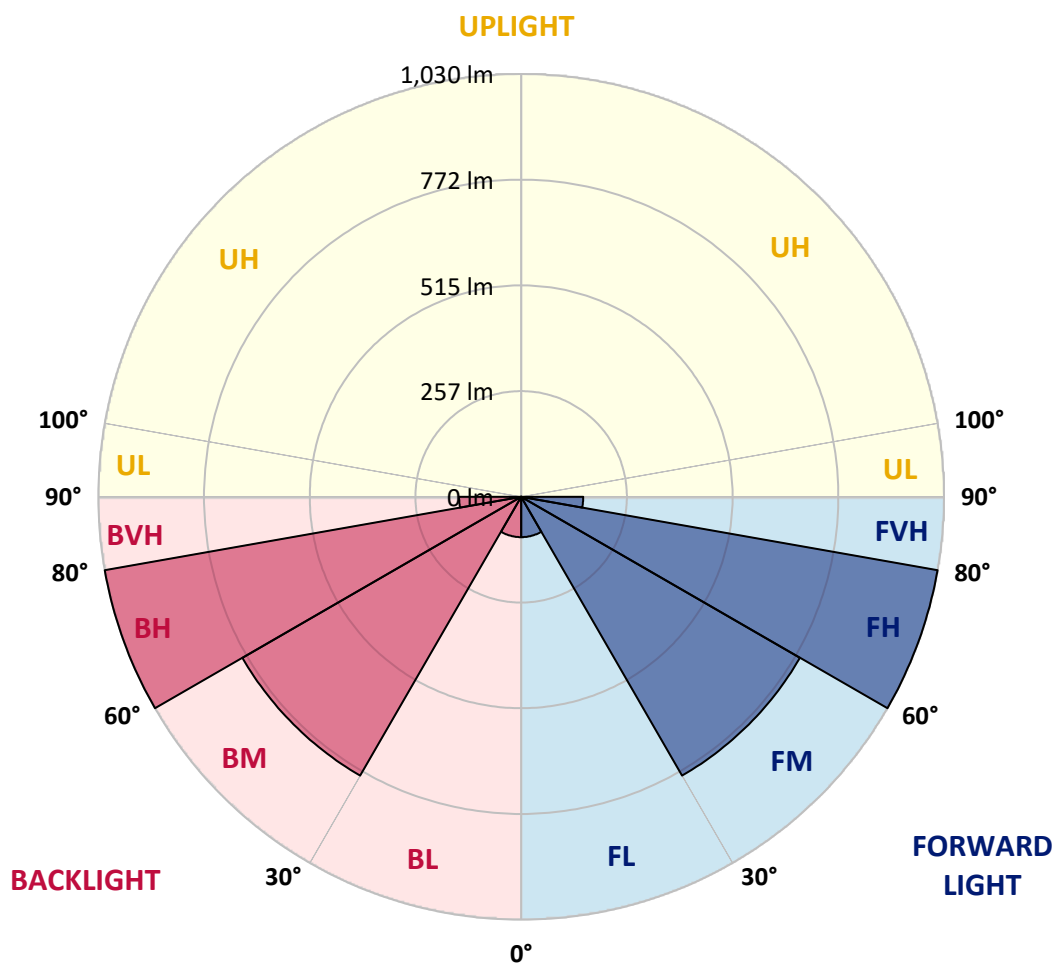
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.3	2.4			
FM	(30°-60°)	784.1	19.0			
FH	(60°-80°)	1030.0	25.0			G1/1800
FVH	(80°-90°)	151.2	3.7			G2/225
BL	(0°-30°)	98.3	2.4	B0/110		
BM	(30°-60°)	784.1	19.0	B1/1000		
BH	(60°-80°)	1030.0	25.0	B3/2500		G1/1800
BVH	(80°-90°)	151.2	3.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
2.5°	163.2	163.2	163.2	163.2	164.0	164.0	164.0	164.0	164.0	164.0	164.0
5°	165.7	165.7	166.5	166.5	167.3	167.3	167.3	167.3	166.5	166.5	166.5
7.5°	169.7	170.5	171.3	171.3	171.3	170.5	169.7	169.7	168.9	168.9	168.9
10°	177.0	177.0	177.8	177.8	177.0	176.2	175.4	174.6	174.6	174.6	173.8
12.5°	186.0	186.0	186.8	186.0	184.3	183.5	181.9	181.1	181.1	180.3	180.3
15°	198.1	199.8	199.8	197.3	194.9	192.5	191.6	190.0	190.0	190.0	190.0
17.5°	216.8	216.0	212.8	210.3	208.7	204.6	203.0	202.2	200.6	200.6	200.6
20°	237.9	236.3	232.2	229.0	225.8	220.9	217.6	216.0	215.2	214.4	214.4
22.5°	261.5	259.0	253.4	250.9	244.4	239.6	235.5	232.2	229.8	229.0	230.6
25°	285.8	285.8	281.0	274.5	268.0	260.7	255.0	250.9	247.7	246.9	246.1
27.5°	311.8	313.5	307.0	300.5	293.2	283.4	277.7	272.0	271.2	270.4	269.6
30°	339.4	342.7	336.2	329.7	319.9	310.2	302.9	300.5	298.0	299.6	299.6
32.5°	373.5	375.2	367.9	363.0	350.0	340.2	333.8	332.1	332.9	332.1	334.6
35°	413.3	410.9	405.2	395.5	384.1	375.2	370.3	373.5	382.5	385.7	384.1
37.5°	457.2	448.3	445.0	432.8	422.3	415.0	416.6	424.7	432.0	437.7	436.1
40°	489.7	491.3	482.4	471.0	461.2	459.6	468.6	479.1	492.9	497.8	499.4
42.5°	523.0	532.7	522.1	510.8	505.9	509.2	522.1	543.3	574.1	590.4	587.9
45°	561.1	571.7	560.3	551.4	550.6	562.8	591.2	646.4	691.9	724.4	727.6
47.5°	600.9	609.0	598.5	592.8	600.9	624.5	673.2	747.1	795.8	834.0	840.5
50°	651.3	648.0	639.9	639.1	657.0	700.0	765.8	840.5	928.2	953.3	961.5
52.5°	700.8	688.6	687.0	691.1	722.7	771.4	859.2	1006.1	1135.2	1226.2	1235.9
55°	747.1	733.3	736.5	747.1	791.8	865.6	987.5	1166.9	1279.8	1343.9	1347.2
57.5°	789.3	781.2	788.5	803.1	869.7	964.7	1093.8	1241.6	1326.9	1372.4	1380.5
60°	832.4	830.7	839.7	866.5	937.9	1022.4	1130.4	1261.1	1346.4	1381.3	1389.4
62.5°	873.0	878.6	890.0	916.0	971.2	1037.0	1141.7	1301.7	1429.2	1484.4	1498.2
65°	916.0	920.9	934.7	938.7	988.3	1058.1	1218.9	1378.1	1485.2	1556.7	1566.4
67.5°	955.0	961.5	956.6	953.3	996.4	1058.1	1203.5	1343.1	1432.5	1486.9	1497.4
70°	992.3	985.0	965.5	940.4	952.5	994.8	1127.9	1248.9	1339.1	1390.2	1400.8
72.5°	1002.1	992.3	940.4	882.7	864.8	896.5	1019.1	1126.3	1200.2	1248.1	1254.6
75°	976.9	956.6	868.9	789.3	755.2	786.9	889.2	981.0	1032.9	1084.9	1089.0
77.5°	876.2	863.2	765.8	669.1	631.0	654.5	739.8	804.7	864.8	915.2	924.9
80°	719.5	708.1	622.0	543.3	492.1	508.3	570.9	622.8	680.5	720.3	732.5
82.5°	529.5	527.8	466.1	392.2	356.5	354.9	402.0	453.1	497.0	535.1	543.3
85°	332.9	332.9	290.7	246.1	208.7	209.5	237.9	275.3	330.5	354.9	357.3
87.5°	112.9	107.2	99.9	81.2	65.0	58.5	62.5	71.5	108.8	134.8	139.7
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°	161.6
2.5°	164.0
5°	166.5
7.5°	168.9
10°	173.8
12.5°	181.1
15°	189.2
17.5°	200.6
20°	214.4
22.5°	229.8
25°	246.1
27.5°	270.4
30°	298.8
32.5°	333.8
35°	384.9
37.5°	437.7
40°	503.5
42.5°	594.4
45°	719.5
47.5°	840.5
50°	952.5
52.5°	1215.6
55°	1350.4
57.5°	1379.7
60°	1387.0
62.5°	1490.9
65°	1564.8
67.5°	1496.6
70°	1398.4
72.5°	1249.7
75°	1095.5
77.5°	924.9
80°	722.7
82.5°	543.3
85°	351.6
87.5°	135.6
90°	0.0

(END OF REPORT)