

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: P400618

Luminaire Tested: **TT-D2-840-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400618
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-D2-840-U-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
4000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4381 lumens
Efficiency: N/A
Efficacy: 111.8 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



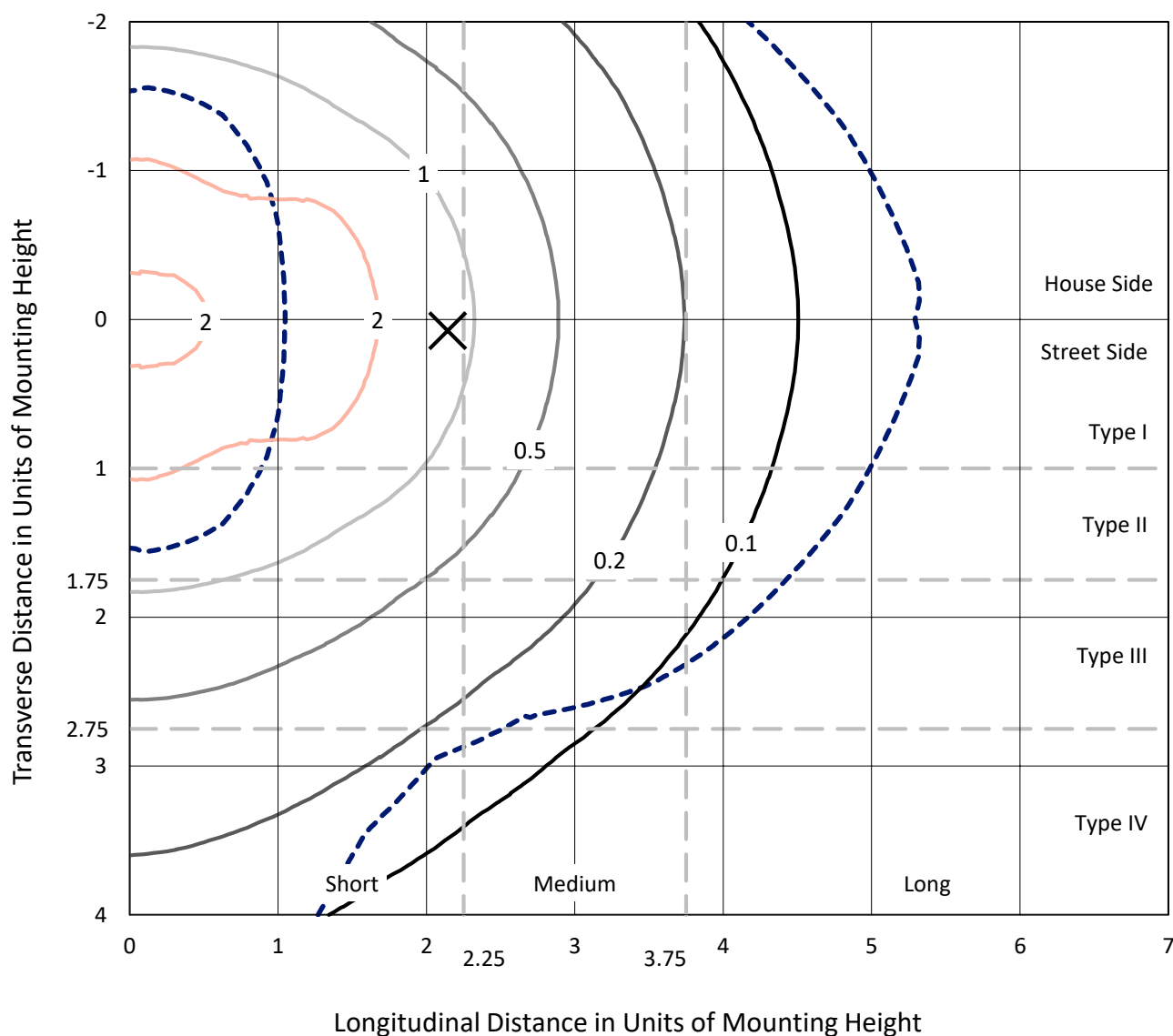
REPORT NUMBER: P400618

CATALOG NUMBER: TT-D2-840-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

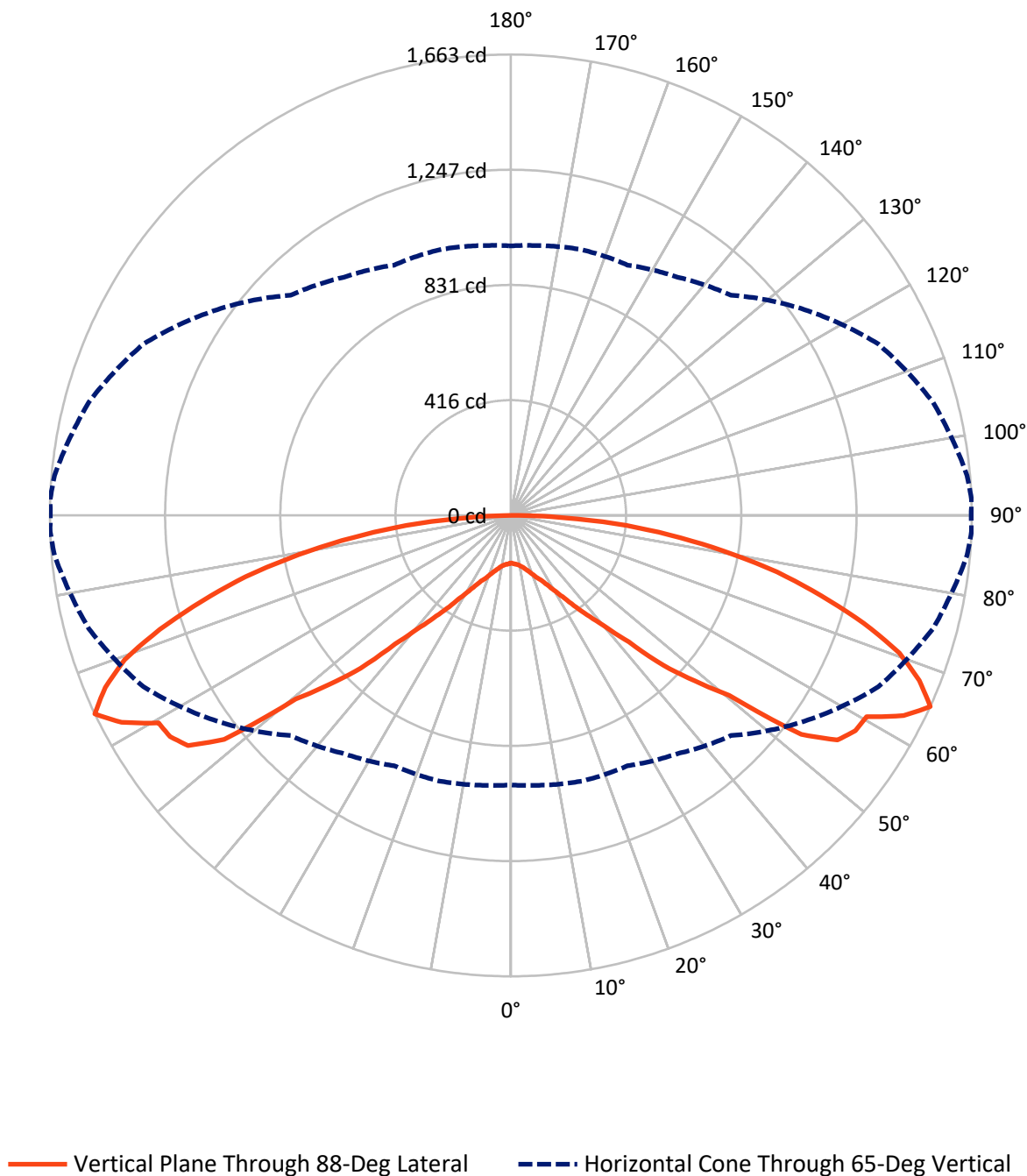


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P400618

CATALOG NUMBER: TT-D2-840-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P400618

CATALOG NUMBER: TT-D2-840-U-RW

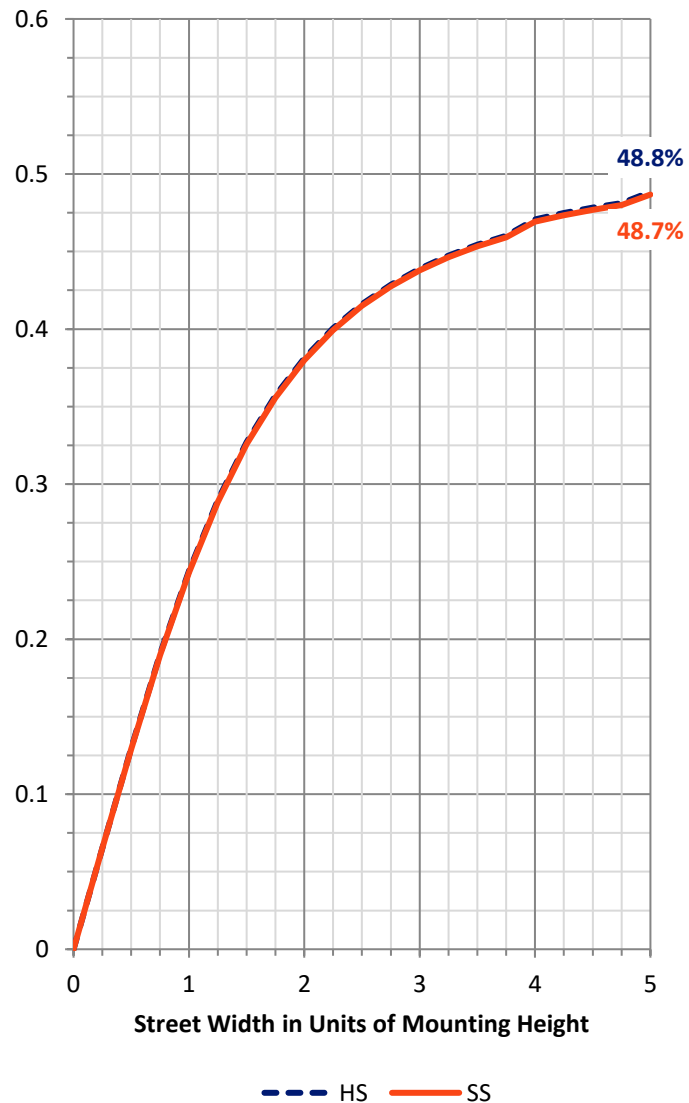
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2190.5	0.0	2190.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2190.5	0.0	2190.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4381.0	0.0	4381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	0.4
10°-20°	59.7	1.4
20°-30°	131.8	3.0
30°-40°	262.5	6.0
40°-50°	502.6	11.5
50°-60°	899.5	20.5
60°-70°	1192.0	27.2
70°-80°	994.8	22.7
80°-90°	321.0	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°	4381.0	100.0
0°-180°	4381.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400618

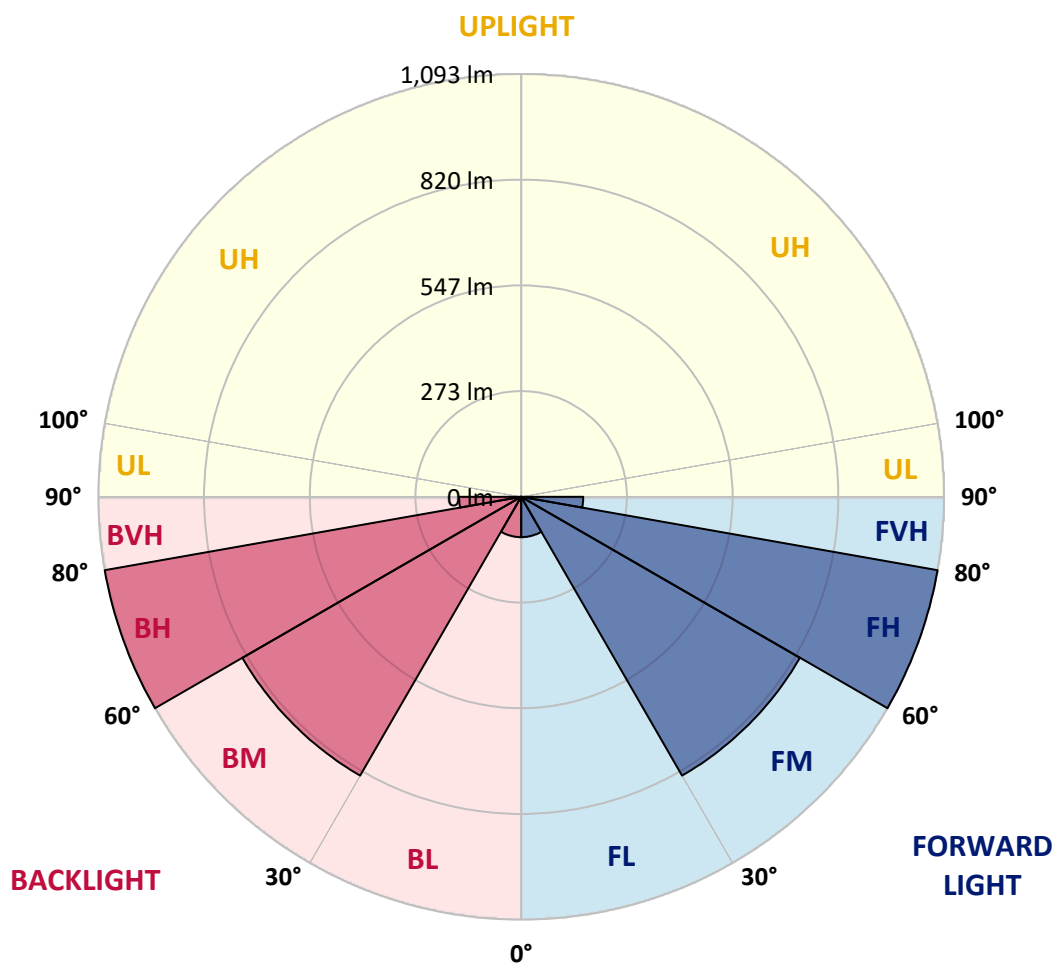
CATALOG NUMBER: TT-D2-840-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	104.3	2.4			
FM	(30°-60°)	832.3	19.0			
FH	(60°-80°)	1093.4	25.0			G1/1800
FVH	(80°-90°)	160.5	3.7			G2/225
BL	(0°-30°)	104.3	2.4	B0/110		
BM	(30°-60°)	832.3	19.0	B1/1000		
BH	(60°-80°)	1093.4	25.0	B3/2500		G1/1800
BVH	(80°-90°)	160.5	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





REPORT NUMBER: P400618

CATALOG NUMBER: TT-D2-840-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	171.5	171.5	171.5	171.5	171.5	171.5	171.5	171.5	171.5	171.5	171.5
2.5°	173.3	173.3	173.3	173.3	174.1	174.1	174.1	174.1	174.1	174.1	174.1
5°	175.9	175.9	176.7	176.7	177.6	177.6	177.6	177.6	176.7	176.7	176.7
7.5°	180.2	181.0	181.9	181.9	181.9	181.0	180.2	180.2	179.3	179.3	179.3
10°	187.9	187.9	188.8	188.8	187.9	187.1	186.2	185.3	185.3	185.3	184.5
12.5°	197.4	197.4	198.3	197.4	195.7	194.8	193.1	192.2	192.2	191.4	191.4
15°	210.3	212.1	212.1	209.5	206.9	204.3	203.4	201.7	201.7	201.7	201.7
17.5°	230.2	229.3	225.9	223.3	221.5	217.2	215.5	214.6	212.9	212.9	212.9
20°	252.6	250.9	246.5	243.1	239.6	234.5	231.0	229.3	228.4	227.6	227.6
22.5°	277.6	275.0	269.0	266.4	259.5	254.3	250.0	246.5	244.0	243.1	244.8
25°	303.4	303.4	298.3	291.4	284.5	276.7	270.7	266.4	262.9	262.1	261.2
27.5°	331.0	332.7	325.8	319.0	311.2	300.8	294.8	288.8	287.9	287.1	286.2
30°	360.3	363.8	356.9	350.0	339.6	329.3	321.5	319.0	316.4	318.1	318.1
32.5°	396.5	398.3	390.5	385.3	371.5	361.2	354.3	352.6	353.4	352.6	355.2
35°	438.8	436.2	430.2	419.8	407.7	398.3	393.1	396.5	406.0	409.5	407.7
37.5°	485.3	475.8	472.4	459.5	448.3	440.5	442.2	450.8	458.6	464.6	462.9
40°	519.8	521.5	512.0	500.0	489.6	487.9	497.4	508.6	523.3	528.4	530.1
42.5°	555.1	565.5	554.3	542.2	537.0	540.5	554.3	576.7	609.5	626.7	624.1
45°	595.7	606.9	594.8	585.3	584.5	597.4	627.6	686.2	734.5	768.9	772.4
47.5°	637.9	646.5	635.3	629.3	637.9	662.9	714.6	793.1	844.8	885.3	892.2
50°	691.3	687.9	679.3	678.4	697.4	743.1	812.9	892.2	985.3	1012.0	1020.6
52.5°	743.9	731.0	729.3	733.6	767.2	818.9	912.0	1068.1	1205.1	1301.7	1312.0
55°	793.1	778.4	781.9	793.1	840.5	918.9	1048.2	1238.7	1358.6	1426.7	1430.1
57.5°	837.9	829.3	837.0	852.5	923.2	1024.1	1161.2	1318.0	1408.6	1456.8	1465.5
60°	883.6	881.9	891.3	919.8	995.6	1085.3	1199.9	1338.7	1429.2	1466.3	1474.9
62.5°	926.7	932.7	944.8	972.4	1031.0	1100.8	1212.0	1381.8	1517.2	1575.8	1590.4
65°	972.4	977.5	992.2	996.5	1049.1	1123.2	1293.9	1462.9	1576.7	1652.5	1662.9
67.5°	1013.7	1020.6	1015.5	1012.0	1057.7	1123.2	1277.5	1425.8	1520.6	1578.4	1589.6
70°	1053.4	1045.6	1025.0	998.2	1011.2	1056.0	1197.4	1325.8	1421.5	1475.8	1487.0
72.5°	1063.7	1053.4	998.2	937.0	918.1	951.7	1081.8	1195.6	1274.1	1324.9	1331.8
75°	1037.0	1015.5	922.4	837.9	801.7	835.3	943.9	1041.3	1096.5	1151.7	1156.0
77.5°	930.1	916.3	812.9	710.3	669.8	694.8	785.3	854.3	918.1	971.5	981.9
80°	763.8	751.7	660.3	576.7	522.4	539.6	606.0	661.2	722.4	764.6	777.6
82.5°	562.0	560.3	494.8	416.4	378.4	376.7	426.7	481.0	527.6	568.1	576.7
85°	353.4	353.4	308.6	261.2	221.5	222.4	252.6	292.2	350.8	376.7	379.3
87.5°	119.8	113.8	106.0	86.2	69.0	62.1	66.4	75.9	115.5	143.1	148.3
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: P400618

CATALOG NUMBER: TT-D2-840-U-RW

CANDELA DISTRIBUTION (continued):

	90°
0°	171.5
2.5°	174.1
5°	176.7
7.5°	179.3
10°	184.5
12.5°	192.2
15°	200.9
17.5°	212.9
20°	227.6
22.5°	244.0
25°	261.2
27.5°	287.1
30°	317.2
32.5°	354.3
35°	408.6
37.5°	464.6
40°	534.5
42.5°	631.0
45°	763.8
47.5°	892.2
50°	1011.2
52.5°	1290.5
55°	1433.6
57.5°	1464.6
60°	1472.3
62.5°	1582.7
65°	1661.1
67.5°	1588.7
70°	1484.4
72.5°	1326.7
75°	1162.9
77.5°	981.9
80°	767.2
82.5°	576.7
85°	373.3
87.5°	144.0
90°	0.0

(END OF REPORT)