

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: P400608

Luminaire Tested: **TT-D2-827-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400608
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-D2-827-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: 3873 lumens
Efficiency: N/A
Efficacy: 98.8 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): 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

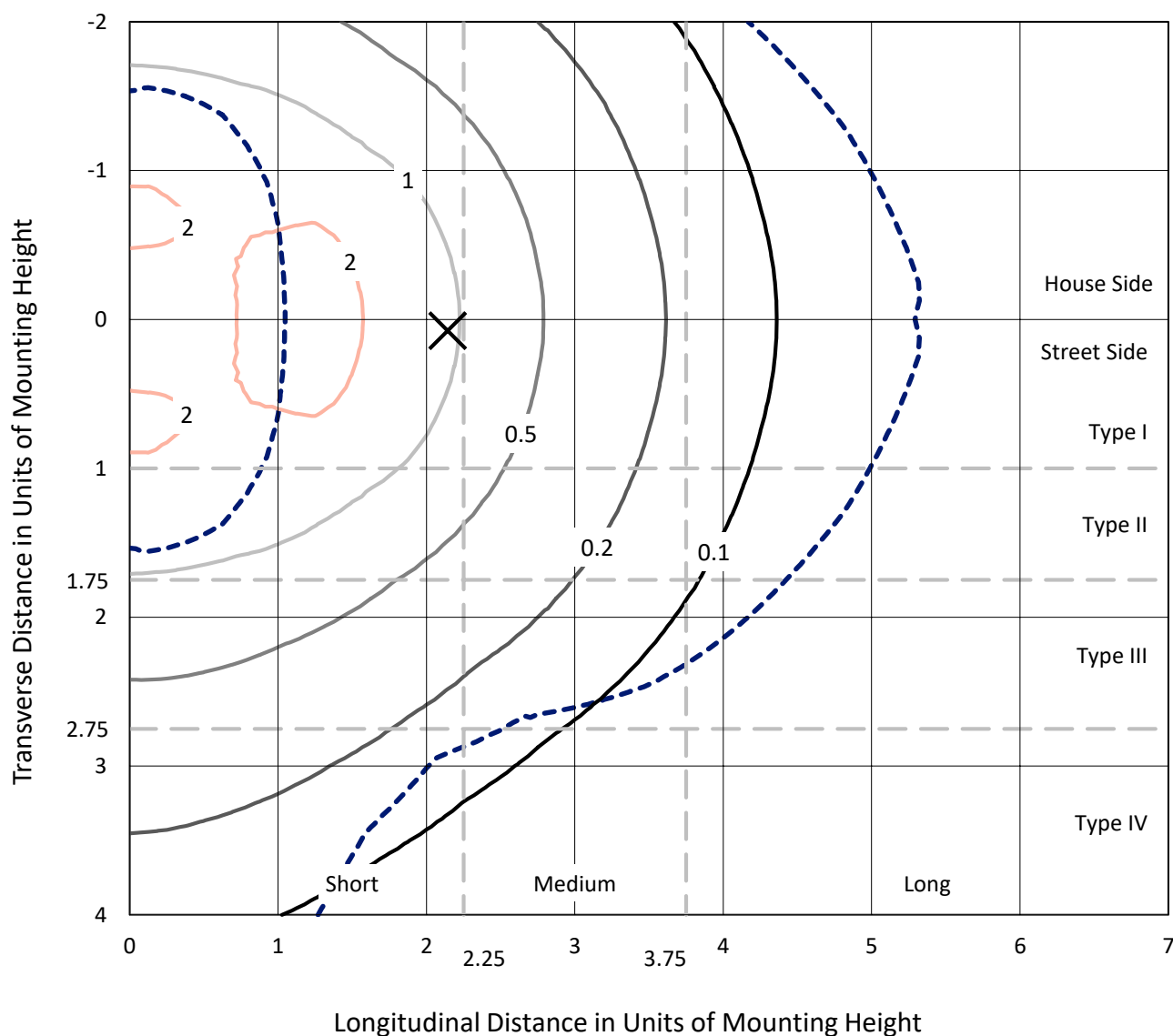


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

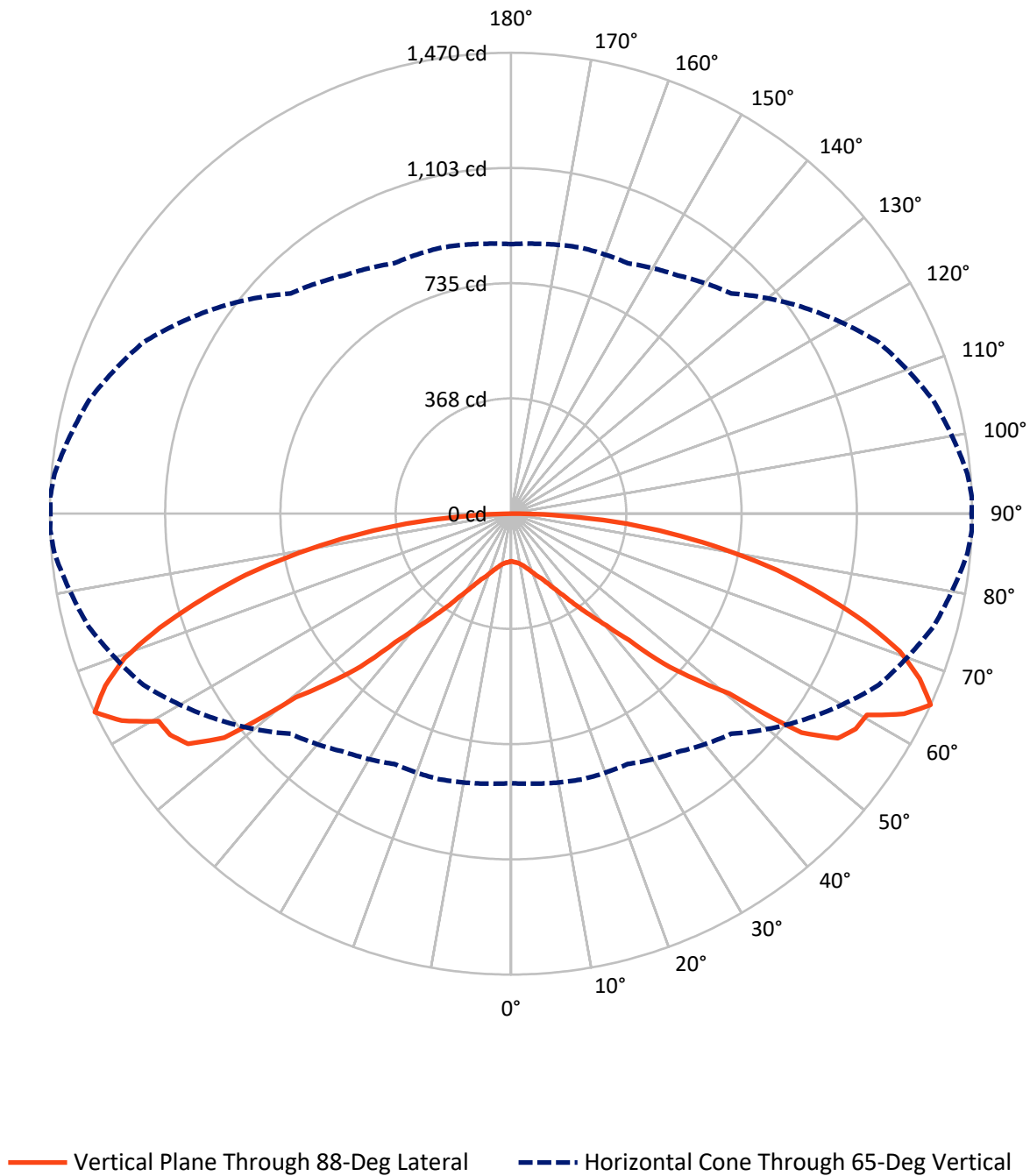


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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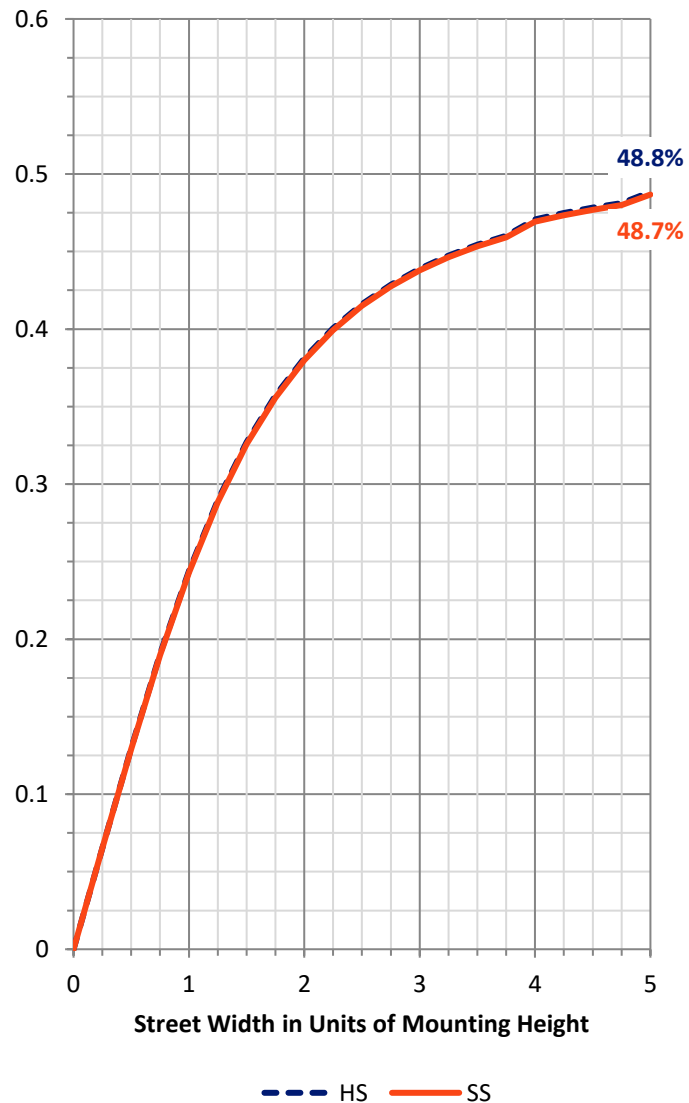
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1936.5	0.0	1936.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1936.5	0.0	1936.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3873.0	0.0	3873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.2	0.4
10°-20°	52.7	1.4
20°-30°	116.5	3.0
30°-40°	232.1	6.0
40°-50°	444.3	11.5
50°-60°	795.2	20.5
60°-70°	1053.8	27.2
70°-80°	879.4	22.7
80°-90°	283.7	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°	3873.0	100.0
0°-180°	3873.0	100.0

Coefficient of Utilization



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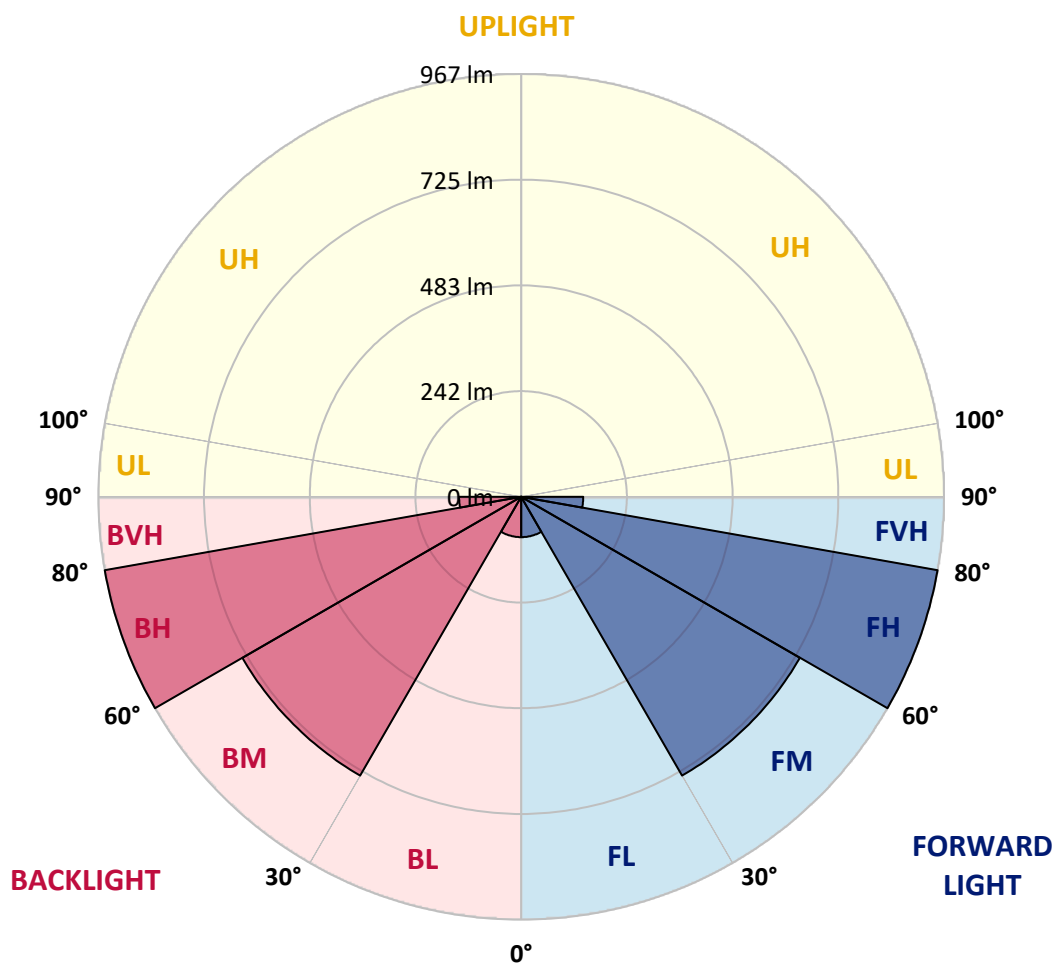
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.2	2.4			
FM	(30°-60°)	735.8	19.0			
FH	(60°-80°)	966.6	25.0			G1/1800
FVH	(80°-90°)	141.9	3.7			G2/225
BL	(0°-30°)	92.2	2.4	B0/110		
BM	(30°-60°)	735.8	19.0	B1/1000		
BH	(60°-80°)	966.6	25.0	B2/1000		G1/1800
BVH	(80°-90°)	141.9	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°	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7
2.5°	153.2	153.2	153.2	153.2	153.9	153.9	153.9	153.9	153.9	153.9	153.9
5°	155.5	155.5	156.2	156.2	157.0	157.0	157.0	157.0	156.2	156.2	156.2
7.5°	159.3	160.0	160.8	160.8	160.8	160.0	159.3	159.3	158.5	158.5	158.5
10°	166.1	166.1	166.9	166.9	166.1	165.4	164.6	163.8	163.8	163.8	163.8
12.5°	174.5	174.5	175.3	174.5	173.0	172.2	170.7	169.9	169.9	169.2	169.2
15°	185.9	187.5	187.5	185.2	182.9	180.6	179.8	178.3	178.3	178.3	178.3
17.5°	203.5	202.7	199.7	197.4	195.9	192.0	190.5	189.8	188.2	188.2	188.2
20°	223.3	221.8	218.0	214.9	211.9	207.3	204.2	202.7	201.9	201.2	201.2
22.5°	245.4	243.1	237.8	235.5	229.4	224.8	221.0	218.0	215.7	214.9	216.4
25°	268.3	268.3	263.7	257.6	251.5	244.6	239.3	235.5	232.4	231.7	230.9
27.5°	292.6	294.2	288.1	282.0	275.1	266.0	260.6	255.3	254.5	253.8	253.0
30°	318.5	321.6	315.5	309.4	300.3	291.1	284.3	282.0	279.7	281.2	281.2
32.5°	350.6	352.1	345.2	340.6	328.5	319.3	313.2	311.7	312.5	311.7	314.0
35°	387.9	385.6	380.3	371.1	360.5	352.1	347.5	350.6	358.9	362.0	360.5
37.5°	429.0	420.7	417.6	406.2	396.3	389.4	390.9	398.6	405.4	410.8	409.2
40°	459.5	461.1	452.7	442.0	432.9	431.3	439.7	449.6	462.6	467.2	468.7
42.5°	490.8	499.9	490.0	479.3	474.8	477.8	490.0	509.8	538.8	554.0	551.7
45°	526.6	536.5	525.8	517.4	516.7	528.1	554.8	606.6	649.3	679.8	682.8
47.5°	563.9	571.6	561.6	556.3	563.9	586.0	631.8	701.1	746.8	782.6	788.7
50°	611.2	608.1	600.5	599.8	616.5	656.9	718.6	788.7	871.1	894.7	902.3
52.5°	657.7	646.2	644.7	648.5	678.2	724.0	806.3	944.2	1065.4	1150.7	1159.9
55°	701.1	688.2	691.2	701.1	743.0	812.4	926.7	1095.1	1201.0	1261.2	1264.3
57.5°	740.7	733.1	740.0	753.7	816.2	905.3	1026.5	1165.2	1245.2	1287.9	1295.5
60°	781.1	779.6	788.0	813.1	880.2	959.5	1060.8	1183.5	1263.5	1296.3	1303.9
62.5°	819.2	824.6	835.2	859.6	911.4	973.2	1071.5	1221.6	1341.3	1393.1	1406.0
65°	859.6	864.2	877.1	881.0	927.4	993.0	1143.9	1293.2	1393.8	1460.9	1470.0
67.5°	896.2	902.3	897.7	894.7	935.1	993.0	1129.4	1260.5	1344.3	1395.4	1405.3
70°	931.3	924.4	906.1	882.5	893.9	933.5	1058.5	1172.1	1256.7	1304.7	1314.6
72.5°	940.4	931.3	882.5	828.4	811.6	841.3	956.4	1057.0	1126.3	1171.3	1177.4
75°	916.8	897.7	815.4	740.7	708.7	738.4	834.5	920.6	969.4	1018.1	1021.9
77.5°	822.3	810.1	718.6	627.9	592.1	614.2	694.2	755.2	811.6	858.9	868.0
80°	675.2	664.5	583.7	509.8	461.8	477.1	535.7	584.5	638.6	676.0	687.4
82.5°	496.9	495.3	437.4	368.1	334.6	333.0	377.2	425.2	466.4	502.2	509.8
85°	312.5	312.5	272.8	230.9	195.9	196.6	223.3	258.3	310.2	333.0	335.3
87.5°	105.9	100.6	93.7	76.2	61.0	54.9	58.7	67.1	102.1	126.5	131.1
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°	151.7
2.5°	153.9
5°	156.2
7.5°	158.5
10°	163.1
12.5°	169.9
15°	177.6
17.5°	188.2
20°	201.2
22.5°	215.7
25°	230.9
27.5°	253.8
30°	280.4
32.5°	313.2
35°	361.2
37.5°	410.8
40°	472.5
42.5°	557.8
45°	675.2
47.5°	788.7
50°	893.9
52.5°	1140.8
55°	1267.3
57.5°	1294.8
60°	1301.6
62.5°	1399.2
65°	1468.5
67.5°	1404.5
70°	1312.3
72.5°	1172.8
75°	1028.0
77.5°	868.0
80°	678.2
82.5°	509.8
85°	330.0
87.5°	127.3
90°	0.0

(END OF REPORT)