

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: P450214

Luminaire Tested: **GALN-SA1A-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3960 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT

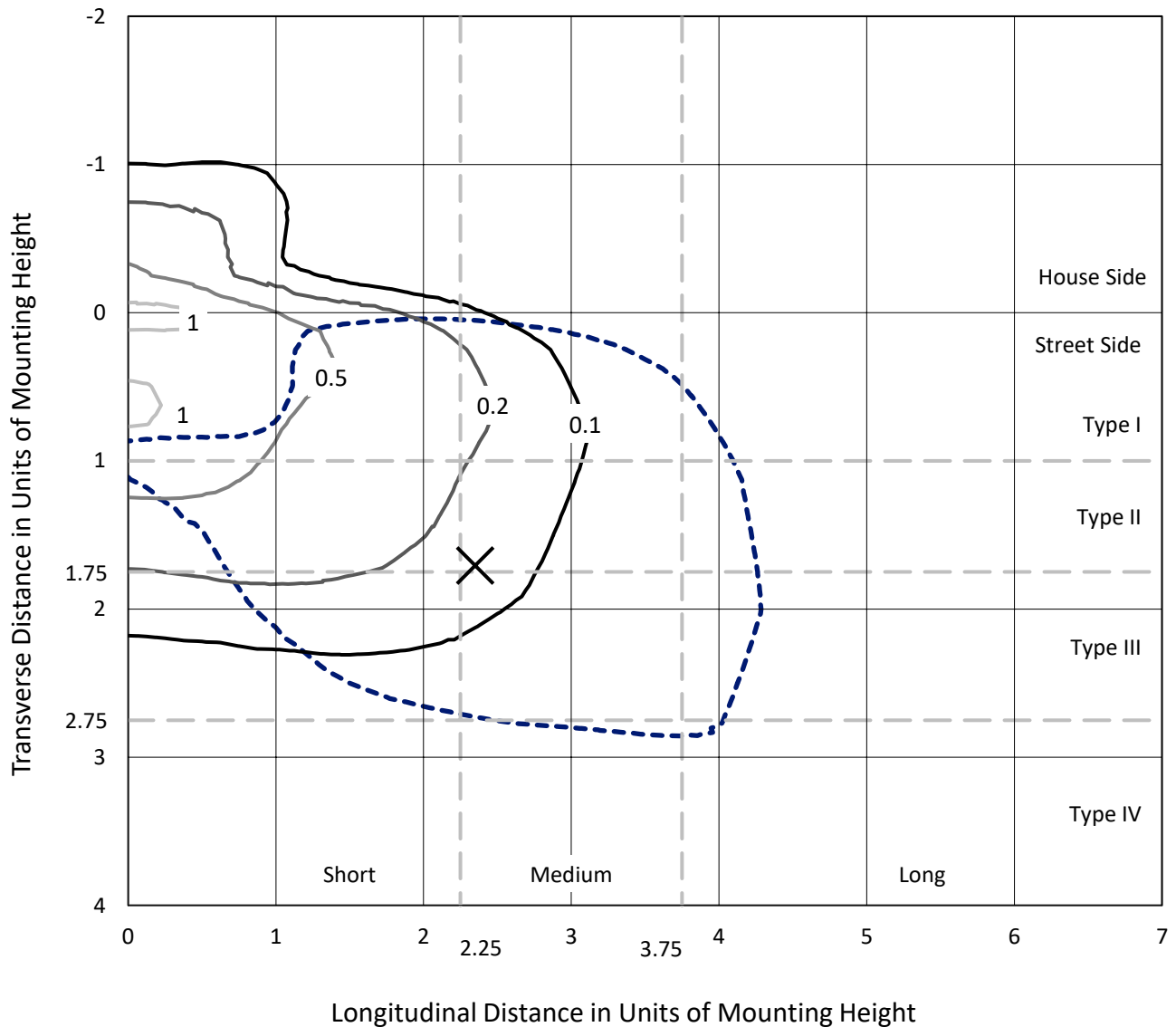




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Iso-Footcandle Lines of Horizontal Illumination

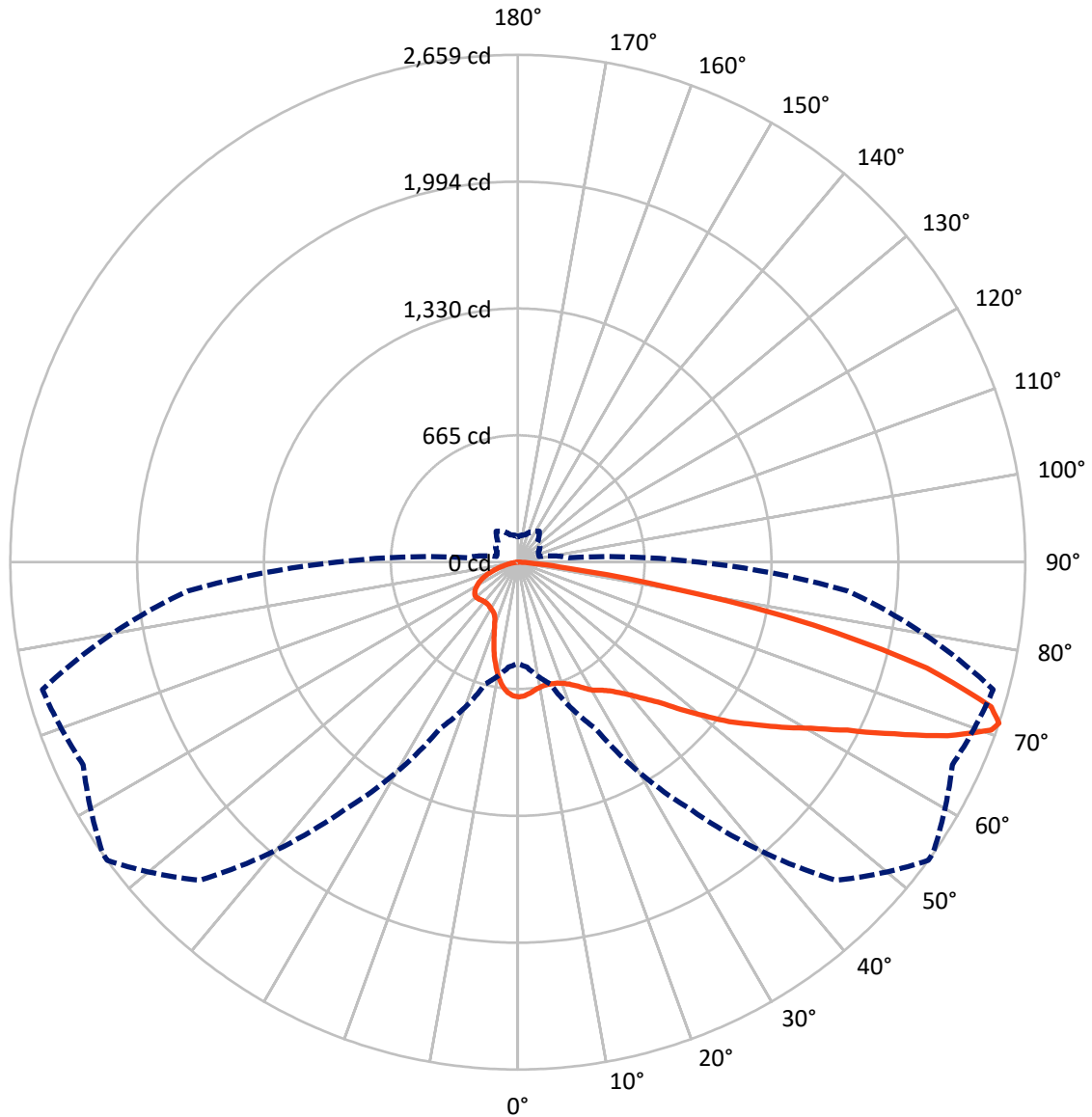
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	715.0	0.0	715.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3245.1	0.0	3245.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	3960.0	0.0	3960.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.6
10°-20°	166.3	4.2
20°-30°	276.8	7.0
30°-40°	409.3	10.3
40°-50°	576.5	14.6
50°-60°	772.0	19.5
60°-70°	973.1	24.6
70°-80°	664.6	16.8
80°-90°	58.4	1.5
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°	3960.0	100.0
0°-180°	3960.0	100.0



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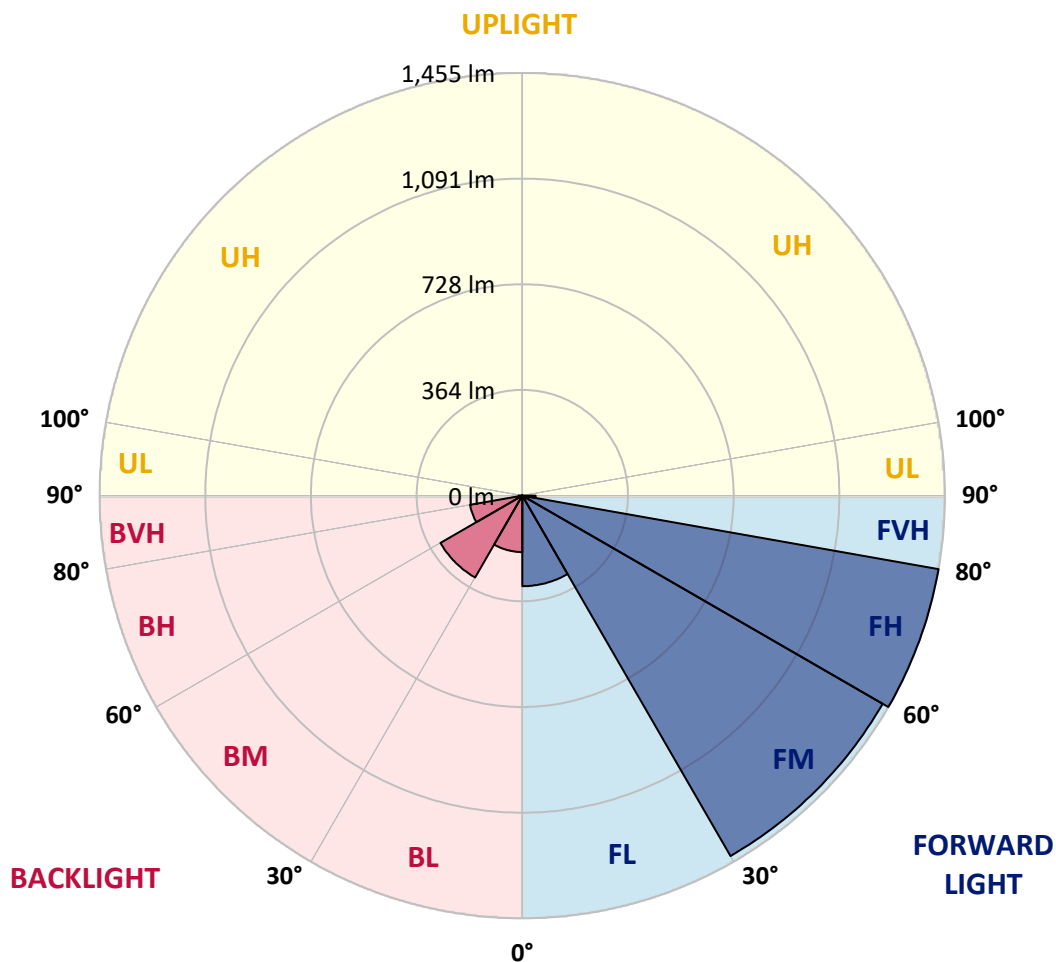
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.7	7.9			
FM	(30°-60°)	1432.6	36.2			
FH	(60°-80°)	1455.1	36.7			G1/1800
FVH	(80°-90°)	45.7	1.2			G1/100
BL	(0°-30°)	194.3	4.9	B1/500		
BM	(30°-60°)	325.3	8.2	B1/1000		
BH	(60°-80°)	182.6	4.6	B1/500		G1/500
BVH	(80°-90°)	12.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	706.5	706.5	706.5	706.5	706.5	706.5	706.5	706.5	706.5	706.5	706.5
2.5°	682.6	685.8	686.6	688.8	693.3	696.9	700.5	700.1	705.2	707.4	709.3
5°	652.2	653.0	656.3	660.5	668.4	678.5	688.3	688.6	701.2	711.2	716.1
7.5°	629.9	632.7	634.9	639.4	647.7	658.6	674.2	675.5	698.0	717.9	728.3
10°	615.4	618.6	621.0	626.5	634.9	647.1	664.0	666.3	695.6	728.3	746.7
12.5°	602.1	605.3	607.5	614.8	625.7	640.6	659.7	662.5	696.5	740.5	766.8
15°	610.3	612.8	612.0	614.1	621.4	638.5	661.4	664.2	699.7	752.3	786.7
17.5°	646.4	648.6	641.5	633.4	629.9	642.6	666.7	669.7	706.1	764.5	807.1
20°	699.7	705.5	690.1	671.9	655.4	657.1	677.9	681.1	715.1	776.7	827.8
22.5°	769.0	773.3	754.4	724.5	694.1	678.5	694.5	696.5	728.6	792.5	850.5
25°	850.5	853.0	827.0	788.4	744.6	715.1	717.4	720.9	750.8	810.5	870.6
27.5°	929.6	937.8	907.6	860.5	802.8	753.6	748.9	751.0	775.0	820.5	884.5
30°	1023.5	1022.9	991.0	936.5	862.5	795.5	778.6	778.2	788.0	825.5	894.5
32.5°	1098.4	1107.2	1075.9	1016.5	930.7	838.9	799.1	798.3	798.1	834.0	909.5
35°	1183.5	1184.8	1156.1	1096.3	1004.5	893.5	827.8	823.5	818.6	852.4	929.8
37.5°	1259.7	1265.7	1239.4	1172.2	1077.0	950.2	867.2	864.4	849.4	884.3	962.4
40°	1319.1	1323.6	1307.8	1243.8	1148.4	1011.3	917.2	912.1	893.9	936.5	1005.8
42.5°	1338.6	1347.8	1354.0	1322.6	1230.6	1083.8	978.8	972.4	958.5	1015.6	1055.8
45°	1340.1	1354.6	1387.4	1388.9	1313.2	1170.7	1050.7	1046.2	1045.1	1117.0	1126.2
47.5°	1328.8	1343.5	1398.5	1428.2	1386.7	1258.4	1154.4	1147.4	1148.0	1242.4	1205.1
50°	1301.4	1318.9	1385.7	1453.5	1444.3	1349.5	1264.0	1261.6	1274.9	1385.5	1287.1
52.5°	1249.8	1271.0	1372.4	1469.3	1487.1	1428.0	1388.4	1381.8	1415.4	1540.7	1376.7
55°	1107.2	1139.0	1323.8	1478.1	1527.7	1503.1	1500.5	1512.5	1557.0	1710.2	1475.3
57.5°	1032.7	1056.7	1218.4	1479.6	1579.0	1590.4	1631.4	1634.4	1712.3	1890.0	1586.7
60°	992.1	1013.3	1160.6	1469.7	1650.7	1698.4	1765.3	1776.0	1864.0	2084.9	1702.2
62.5°	956.6	974.8	1126.0	1435.7	1731.5	1858.6	1938.8	1944.0	2036.1	2300.1	1816.3
65°	872.9	893.7	1056.3	1401.7	1801.3	2058.8	2169.0	2163.0	2219.5	2485.8	1887.7
67.5°	760.2	786.5	926.0	1284.3	1835.7	2277.6	2428.2	2420.7	2400.4	2607.5	1908.2
70°	616.3	630.4	759.4	1081.3	1698.2	2392.5	2632.9	2625.0	2512.5	2623.5	1811.1
71°	530.3	552.3	661.2	960.4	1583.7	2357.4	2659.2	2657.1	2512.7	2579.2	1738.0
72.5°	413.9	427.4	523.6	744.2	1346.1	2158.1	2594.2	2602.3	2458.2	2456.3	1587.2
75°	261.8	267.8	328.6	438.1	738.6	1528.3	2214.5	2236.6	2182.7	2010.5	1180.3
77.5°	152.1	159.8	196.8	258.2	319.1	829.5	1584.6	1608.6	1516.6	1106.9	483.2
80°	88.6	97.1	129.6	149.9	146.5	307.8	806.8	847.7	656.7	279.6	135.6
82.5°	49.2	55.0	91.1	91.3	78.1	100.5	253.9	265.7	187.4	112.7	55.4
85°	35.7	40.4	58.8	53.3	37.4	43.2	88.3	92.6	75.7	47.5	18.0
87.5°	12.6	18.0	32.3	25.7	10.3	9.0	25.5	20.7	19.3	13.3	4.1
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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	706.5	706.5	706.5	706.5	706.5	706.5	706.5	706.5	706.5	706.5	706.5
2.5°	710.4	710.8	708.7	704.8	701.0	696.0	690.5	686.2	684.3	684.1	683.8
5°	718.1	719.1	711.0	699.0	685.8	669.5	655.6	639.8	635.7	629.3	631.2
7.5°	730.5	729.8	713.8	688.3	657.3	622.9	593.8	576.9	559.4	554.4	554.7
10°	748.2	744.2	713.8	666.5	614.8	563.6	523.0	497.3	483.4	471.9	467.6
12.5°	767.1	756.8	707.0	635.9	560.0	497.3	453.7	419.0	410.1	400.6	400.9
15°	785.0	767.9	693.5	592.9	501.0	426.5	384.2	363.4	360.6	361.7	361.5
17.5°	801.3	775.8	672.9	545.0	432.1	365.8	343.3	344.8	352.3	357.6	358.3
20°	817.8	780.5	642.4	480.9	367.1	329.0	329.8	341.6	352.9	360.2	361.3
22.5°	833.4	782.7	606.4	418.8	320.0	313.4	326.0	338.6	349.7	356.8	357.9
25°	843.6	777.8	555.5	354.0	296.9	307.8	321.1	331.8	341.2	348.4	350.2
27.5°	846.4	761.9	492.4	301.6	286.2	302.5	314.7	322.6	329.8	336.7	338.0
30°	844.9	738.6	423.1	270.8	280.0	296.3	305.7	311.4	320.2	325.6	326.6
32.5°	842.6	711.4	350.8	254.3	274.9	290.5	296.0	301.2	301.0	298.8	300.3
35°	843.4	678.9	292.2	244.5	270.4	286.2	290.9	284.5	266.1	265.2	264.4
37.5°	847.9	646.8	249.6	237.6	268.0	285.6	288.1	258.6	242.4	234.9	232.9
40°	859.5	609.4	221.6	232.5	267.8	290.5	275.5	245.6	214.3	199.8	198.7
42.5°	874.9	572.6	204.5	229.3	270.4	298.0	270.4	227.2	193.2	184.6	183.3
45°	897.8	530.5	195.1	227.8	274.2	300.7	268.7	213.7	184.6	177.8	177.8
47.5°	923.6	490.3	189.9	226.7	279.1	298.8	253.5	209.4	180.5	181.4	185.5
50°	949.3	455.4	186.1	224.4	283.4	297.8	247.3	209.2	181.6	192.5	199.8
52.5°	979.0	430.8	181.4	220.5	283.4	290.9	245.3	213.5	184.6	187.8	191.0
55°	1015.0	423.1	175.4	212.2	278.3	273.8	244.3	219.7	186.7	179.3	180.5
57.5°	1062.5	435.5	169.6	201.7	266.5	256.0	243.8	221.4	181.8	175.6	174.3
60°	1117.6	460.1	167.9	191.0	250.5	240.9	241.3	216.5	175.0	168.6	169.6
62.5°	1156.4	474.9	166.8	182.9	232.9	224.2	235.1	210.5	172.0	166.4	167.5
65°	1156.4	456.9	157.0	170.5	210.3	204.1	227.6	203.0	168.1	161.7	160.6
67.5°	1112.5	404.5	142.0	151.9	185.2	181.2	217.1	194.0	162.4	157.4	154.9
70°	998.3	306.7	123.2	130.1	153.6	157.2	203.6	181.8	152.7	146.7	142.9
71°	948.0	267.2	115.3	118.9	141.4	146.7	197.2	176.7	148.4	139.9	133.0
72.5°	851.1	225.0	103.3	104.8	120.9	130.5	183.7	166.8	140.3	128.1	120.4
75°	646.6	164.3	83.2	82.4	89.4	103.5	155.5	148.7	123.0	106.5	102.0
77.5°	279.4	89.4	62.2	62.9	60.7	78.5	122.4	127.7	105.5	86.6	82.6
80°	84.7	51.6	42.6	43.4	40.6	52.6	86.2	100.1	84.7	67.4	61.8
82.5°	43.4	30.8	29.1	28.7	25.9	29.7	52.2	68.4	60.5	42.1	37.2
85°	18.8	16.5	14.3	13.9	12.2	10.7	18.6	34.2	32.1	23.5	22.5
87.5°	4.7	4.3	2.8	2.6	1.5	0.2	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)