

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: P647742

Luminaire Tested: **GALN-SA1A-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647742  
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-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3707.5 lumens  
Efficiency: N/A  
Efficacy: 112.3 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

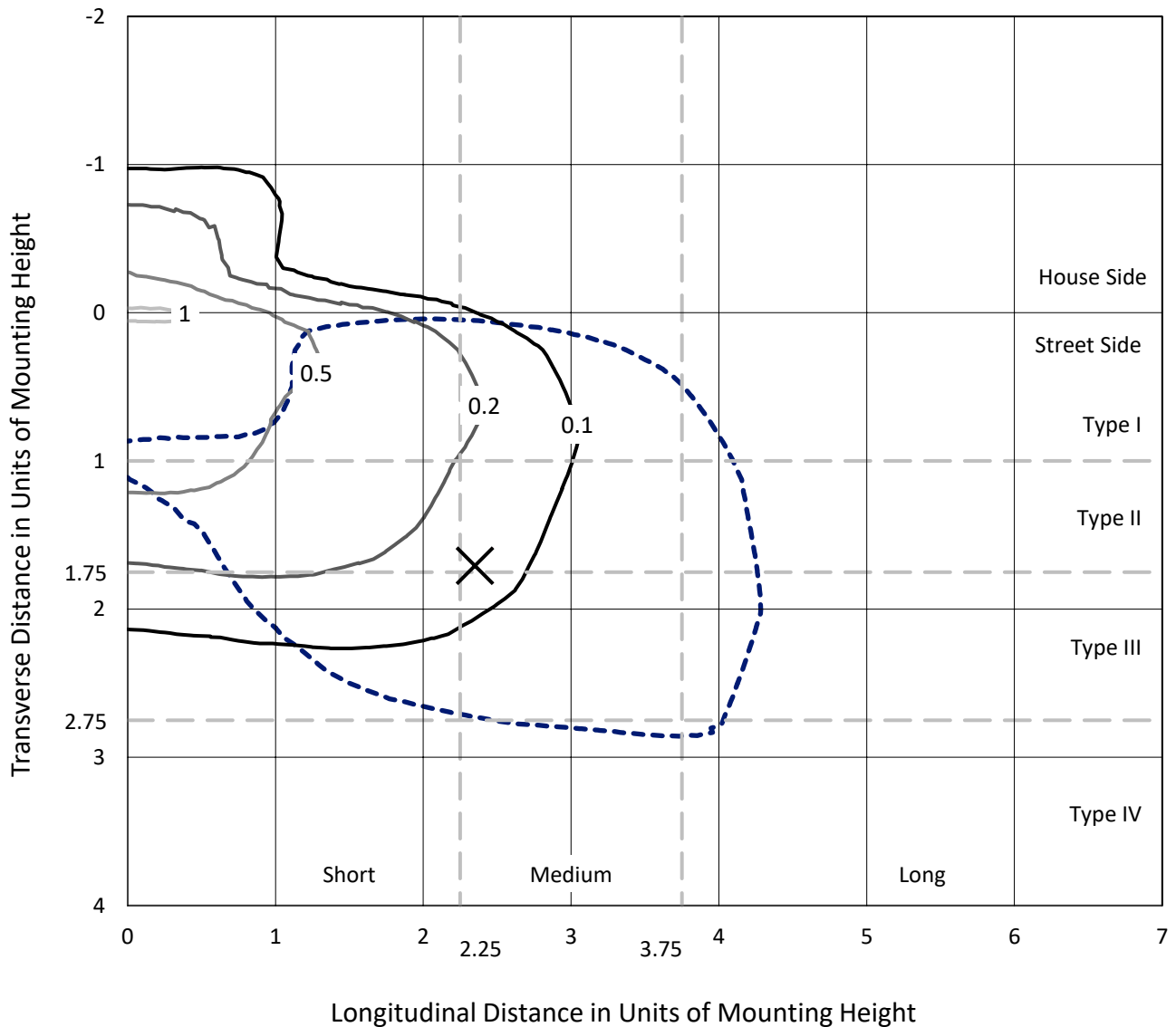
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

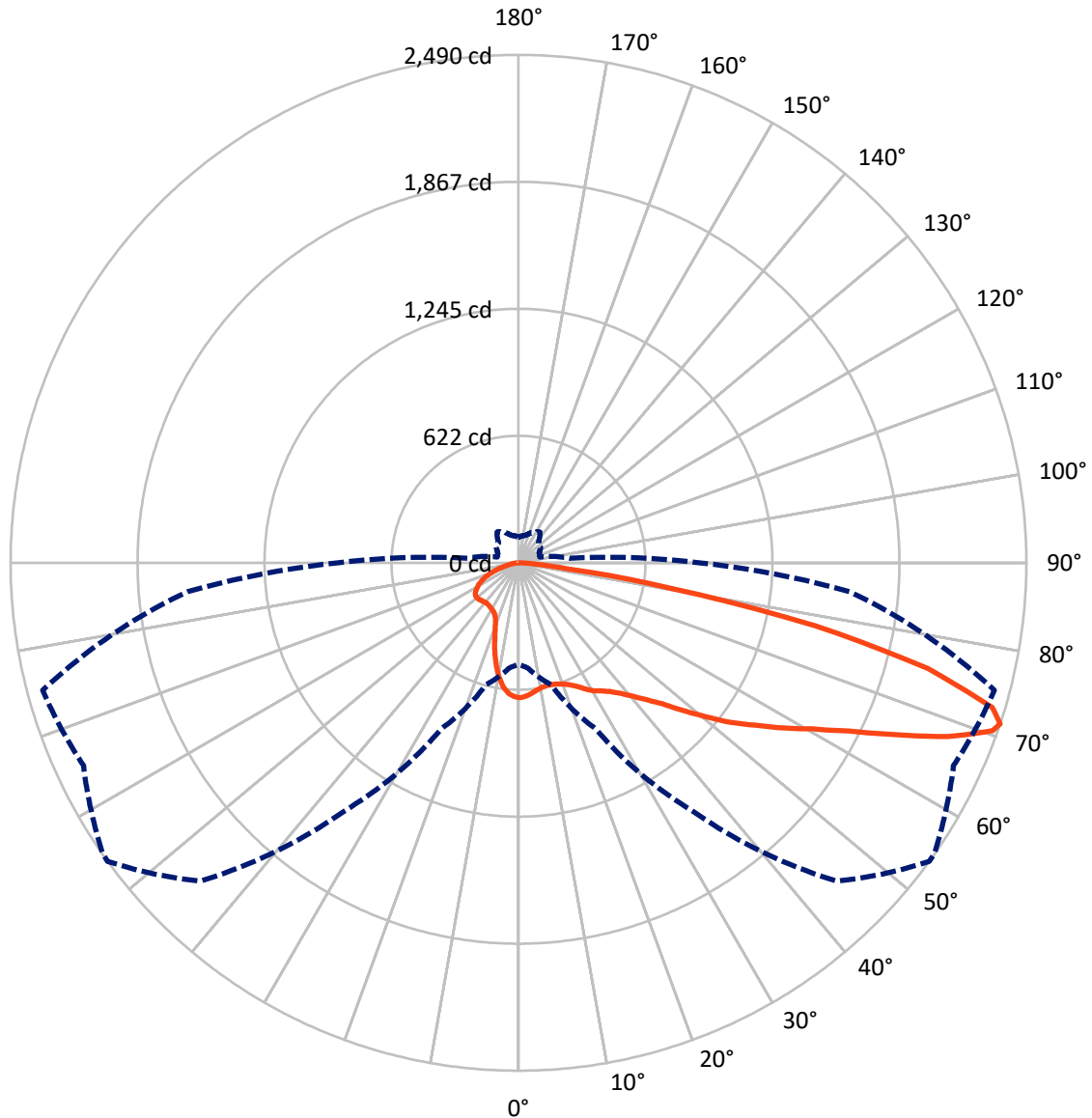
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	669.4	0.0	669.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3038.1	0.0	3038.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	3707.5	0.0	3707.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	1.6
10°-20°	155.7	4.2
20°-30°	259.2	7.0
30°-40°	383.2	10.3
40°-50°	539.8	14.6
50°-60°	722.8	19.5
60°-70°	911.0	24.6
70°-80°	622.2	16.8
80°-90°	54.7	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°	3707.5	100.0
0°-180°	3707.5	100.0

**Coefficient of Utilization**

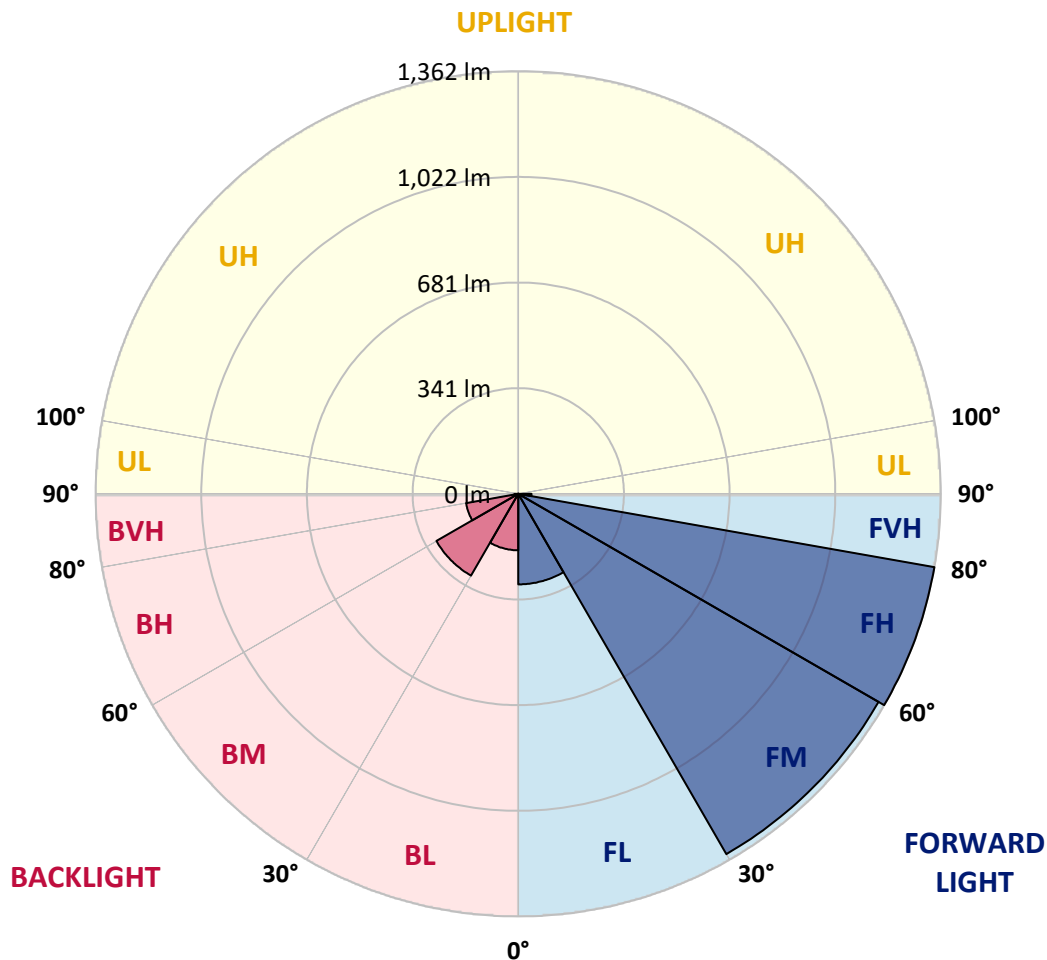


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.8	7.9			
FM (30°-60°)	1341.2	36.2			
FH (60°-80°)	1362.3	36.7			G1/1800
FVH (80°-90°)	42.8	1.2			G1/100
BL (0°-30°)	181.9	4.9	B1/500		
BM (30°-60°)	304.5	8.2	B1/1000		
BH (60°-80°)	171.0	4.6	B1/500		G1/500
BVH (80°-90°)	11.9	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°	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5
2.5°	639.0	642.1	642.8	644.9	649.0	652.5	655.8	655.4	660.3	662.3	664.1
5°	610.6	611.4	614.4	618.4	625.9	635.2	644.5	644.6	656.5	665.9	670.5
7.5°	589.8	592.4	594.4	598.6	606.4	616.6	631.3	632.4	653.5	672.0	681.9
10°	576.1	579.2	581.4	586.5	594.4	605.8	621.6	623.8	651.3	681.9	699.1
12.5°	563.8	566.7	568.8	575.6	585.8	599.8	617.6	620.2	652.1	693.3	717.9
15°	571.4	573.8	572.9	575.0	581.8	597.8	619.2	621.9	655.1	704.3	736.6
17.5°	605.2	607.2	600.6	593.0	589.8	601.6	624.2	627.0	661.1	715.7	755.6
20°	655.1	660.5	646.1	629.1	613.6	615.2	634.6	637.7	669.5	727.2	775.0
22.5°	720.0	724.0	706.3	678.3	649.9	635.2	650.3	652.1	682.1	742.0	796.2
25°	796.2	798.7	774.2	738.2	697.1	669.5	671.7	674.9	702.9	758.8	815.1
27.5°	870.4	878.0	849.7	805.6	751.6	705.6	701.1	703.1	725.5	768.2	828.1
30°	958.2	957.7	927.9	876.7	807.4	744.8	729.0	728.6	737.7	772.8	837.5
32.5°	1028.4	1036.5	1007.3	951.7	871.3	785.4	748.2	747.4	747.2	780.8	851.5
35°	1108.1	1109.3	1082.4	1026.4	940.5	836.5	775.0	771.0	766.4	798.0	870.5
37.5°	1179.4	1185.0	1160.3	1097.5	1008.3	889.6	811.9	809.2	795.2	827.9	901.0
40°	1235.0	1239.3	1224.5	1164.6	1075.2	946.9	858.7	853.9	836.9	876.7	941.6
42.5°	1253.3	1261.9	1267.7	1238.2	1152.1	1014.8	916.4	910.4	897.4	950.9	988.5
45°	1254.7	1268.3	1298.9	1300.3	1229.4	1096.0	983.7	979.5	978.5	1045.8	1054.4
47.5°	1244.0	1257.9	1309.3	1337.1	1298.3	1178.2	1080.9	1074.2	1074.8	1163.1	1128.3
50°	1218.4	1234.9	1297.4	1360.8	1352.2	1263.4	1183.3	1181.2	1193.6	1297.1	1205.0
52.5°	1170.1	1190.0	1284.9	1375.7	1392.3	1337.0	1299.9	1293.7	1325.1	1442.5	1288.9
55°	1036.5	1066.4	1239.4	1383.8	1430.3	1407.3	1404.9	1416.1	1457.7	1601.1	1381.2
57.5°	966.8	989.3	1140.7	1385.2	1478.4	1489.0	1527.4	1530.2	1603.1	1769.5	1485.6
60°	928.8	948.7	1086.6	1376.0	1545.4	1590.1	1652.8	1662.8	1745.1	1951.9	1593.7
62.5°	895.6	912.6	1054.2	1344.2	1621.1	1740.1	1815.2	1820.0	1906.3	2153.4	1700.4
65°	817.3	836.7	988.9	1312.3	1686.4	1927.5	2030.7	2025.1	2077.9	2327.3	1767.3
67.5°	711.7	736.4	866.9	1202.4	1718.7	2132.4	2273.4	2266.4	2247.4	2441.2	1786.6
70°	577.0	590.1	711.0	1012.3	1589.9	2239.9	2465.0	2457.7	2352.3	2456.3	1695.7
71°	496.4	517.1	619.0	899.2	1482.8	2207.1	2489.7	2487.7	2352.5	2414.8	1627.2
72.5°	387.5	400.1	490.2	696.7	1260.2	2020.5	2428.8	2436.4	2301.5	2299.7	1486.0
75°	245.2	250.7	307.6	410.1	691.5	1430.9	2073.3	2094.0	2043.5	1882.3	1105.0
77.5°	142.3	149.6	184.2	241.7	298.8	776.7	1483.6	1506.0	1419.9	1036.4	452.4
80°	82.9	90.9	121.4	140.4	137.2	288.1	755.4	793.6	614.8	261.8	127.0
82.5°	46.0	51.4	85.3	85.5	73.1	94.1	237.7	248.8	175.5	105.5	51.8
85°	33.4	37.8	55.0	49.9	35.1	40.5	82.7	86.7	70.9	44.5	16.8
87.5°	11.8	16.8	30.2	24.0	9.6	8.4	23.8	19.4	18.0	12.4	3.8
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°	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5
2.5°	665.1	665.5	663.5	659.8	656.2	651.7	646.4	642.5	640.7	640.4	640.3
5°	672.3	673.3	665.7	654.4	642.1	626.8	613.8	599.0	595.2	589.2	591.0
7.5°	683.9	683.3	668.3	644.5	615.4	583.2	555.9	540.1	523.7	519.1	519.3
10°	700.6	696.7	668.3	624.1	575.6	527.7	489.6	465.7	452.6	441.8	437.8
12.5°	718.2	708.5	661.9	595.4	524.3	465.7	424.8	392.3	383.9	375.1	375.3
15°	735.0	719.0	649.3	555.1	469.0	399.3	359.7	340.2	337.6	338.6	338.4
17.5°	750.2	726.4	630.0	510.3	404.5	342.5	321.4	322.8	329.8	334.8	335.4
20°	765.6	730.8	601.4	450.2	343.7	308.0	308.8	319.9	330.4	337.2	338.3
22.5°	780.3	732.7	567.8	392.1	299.6	293.4	305.2	317.0	327.5	334.0	335.0
25°	789.8	728.2	520.1	331.4	278.0	288.1	300.6	310.6	319.4	326.2	327.8
27.5°	792.5	713.3	461.0	282.3	267.9	283.2	294.6	302.0	308.8	315.2	316.4
30°	791.1	691.5	396.1	253.5	262.1	277.3	286.2	291.6	299.8	304.8	305.8
32.5°	788.9	666.1	328.5	238.1	257.4	271.9	277.2	282.0	281.8	279.8	281.2
35°	789.7	635.6	273.6	228.9	253.1	267.9	272.3	266.4	249.2	248.3	247.5
37.5°	793.9	605.6	233.7	222.5	251.0	267.3	269.7	242.1	226.9	219.9	218.1
40°	804.7	570.6	207.5	217.7	250.7	271.9	257.9	229.9	200.7	187.1	186.0
42.5°	819.1	536.1	191.4	214.7	253.1	279.0	253.1	212.7	180.9	172.8	171.6
45°	840.5	496.7	182.7	213.3	256.7	281.6	251.5	200.1	172.8	166.4	166.4
47.5°	864.7	459.0	177.8	212.3	261.4	279.8	237.3	196.1	169.0	169.8	173.6
50°	888.8	426.3	174.2	210.1	265.4	278.7	231.5	195.8	170.0	180.2	187.1
52.5°	916.6	403.3	169.8	206.5	265.4	272.3	229.7	199.9	172.8	175.9	178.8
55°	950.2	396.1	164.2	198.6	260.6	256.4	228.7	205.7	174.8	167.8	169.0
57.5°	994.7	407.7	158.8	188.9	249.5	239.8	228.3	207.3	170.2	164.4	163.2
60°	1046.4	430.8	157.2	178.8	234.5	225.5	225.9	202.6	163.8	157.8	158.8
62.5°	1082.7	444.6	156.2	171.2	218.1	209.8	220.1	197.1	161.0	155.8	156.8
65°	1082.7	427.8	147.0	159.6	196.8	191.1	213.1	190.0	157.4	151.4	150.4
67.5°	1041.5	378.7	133.0	142.2	173.4	169.6	203.3	181.7	152.0	147.4	145.0
70°	934.7	287.2	115.3	121.8	143.8	147.2	190.7	170.2	143.0	137.4	133.8
71°	887.6	250.2	108.0	111.3	132.4	137.4	184.6	165.4	139.0	131.0	124.6
72.5°	796.9	210.7	96.7	98.1	113.1	122.1	172.0	156.2	131.4	120.0	112.8
75°	605.4	153.8	77.9	77.1	83.7	96.9	145.6	139.2	115.2	99.8	95.5
77.5°	261.5	83.7	58.3	58.9	56.8	73.5	114.6	119.6	98.7	81.1	77.3
80°	79.3	48.2	39.9	40.6	38.1	49.3	80.7	93.7	79.3	63.1	57.9
82.5°	40.6	28.8	27.2	26.9	24.2	27.9	48.9	64.0	56.7	39.5	34.8
85°	17.6	15.4	13.4	13.0	11.4	10.0	17.5	32.0	30.1	22.0	21.1
87.5°	4.4	4.0	2.6	2.4	1.4	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)