

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: P526991

Luminaire Tested: **GALN-SA2A-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4537 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

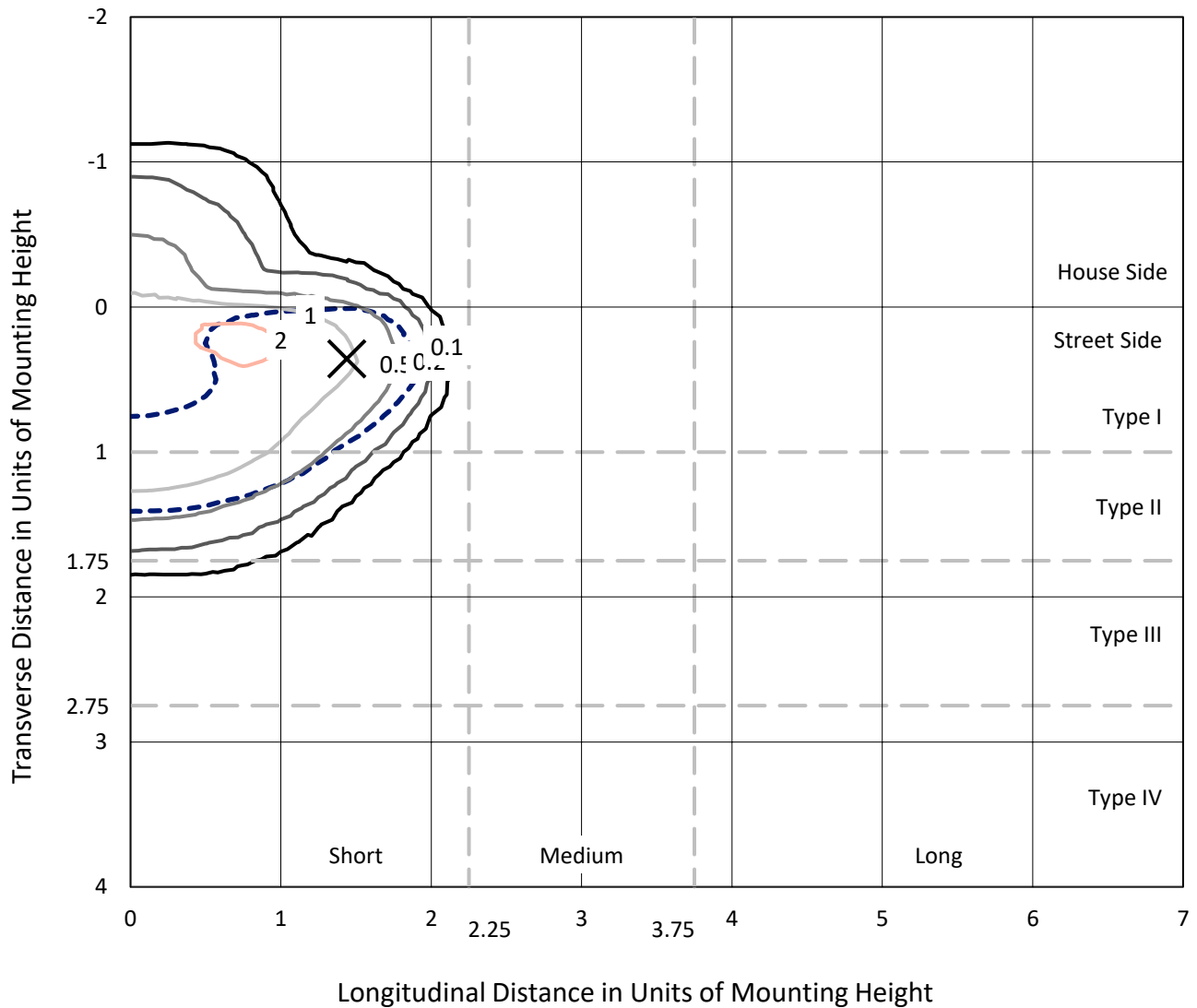
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

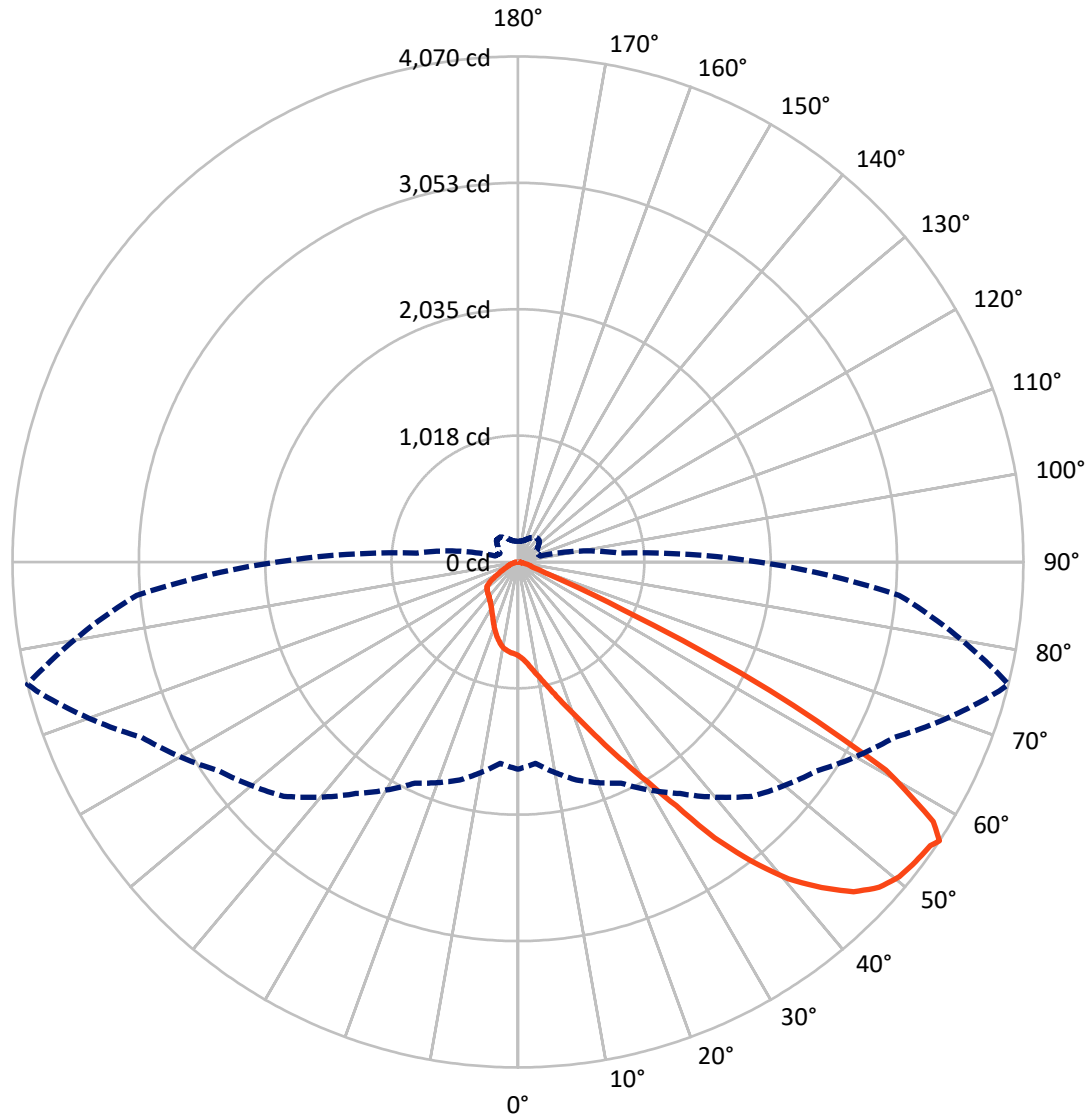
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA2A-727-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.7	0.0	712.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	3824.3	0.0	3824.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	4537.0	0.0	4537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.7
10°-20°	244.4	5.4
20°-30°	443.2	9.8
30°-40°	764.3	16.8
40°-50°	1241.6	27.4
50°-60°	1308.6	28.8
60°-70°	399.8	8.8
70°-80°	51.3	1.1
80°-90°	7.8	0.2
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°	4537.0	100.0
0°-180°	4537.0	100.0

Coefficient of Utilization

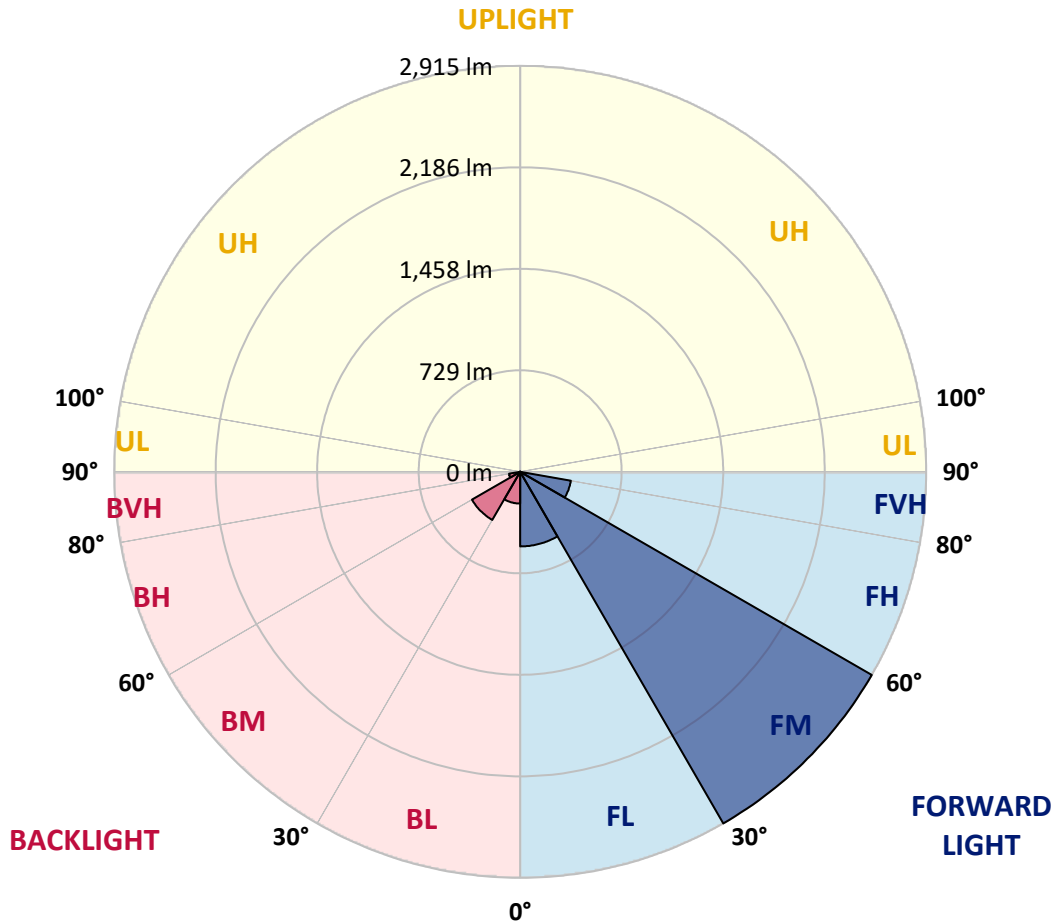


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.6	11.8			
FM (30°-60°)	2915.0	64.2			
FH (60°-80°)	369.8	8.2			G0/660
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	228.0	5.0	B1/500		
BM (30°-60°)	399.4	8.8	B1/1000		
BH (60°-80°)	81.3	1.8	B0/110		G0/110
BVH (80°-90°)	4.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CATALOG NUMBER: GALN-SA2A-727-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2
2.5°	869.8	849.7	850.5	848.9	846.3	837.1	809.6	805.4	787.0	782.0	765.2
5°	974.3	956.7	966.8	951.7	937.5	929.1	884.0	863.1	833.8	822.9	799.5
7.5°	1039.5	1031.2	1027.8	1028.7	1015.3	994.4	974.3	928.3	889.0	880.6	831.3
10°	1071.3	1066.3	1071.3	1068.8	1074.7	1077.2	1042.0	1014.4	956.7	942.5	865.6
12.5°	1078.8	1088.9	1093.1	1103.9	1118.2	1142.4	1139.9	1102.3	1025.3	1016.1	918.3
15°	1097.2	1105.6	1101.4	1119.0	1145.7	1186.7	1208.5	1202.6	1119.8	1103.1	979.3
17.5°	1114.0	1098.9	1113.1	1148.3	1175.0	1237.7	1290.4	1314.7	1222.7	1203.5	1035.4
20°	1136.5	1132.4	1129.9	1147.4	1195.1	1278.7	1383.3	1427.6	1338.1	1318.0	1115.6
22.5°	1205.1	1206.0	1204.3	1178.4	1212.7	1307.2	1464.4	1573.9	1476.1	1459.4	1206.8
25°	1295.4	1284.6	1276.2	1255.3	1251.1	1333.1	1546.3	1752.9	1641.7	1630.0	1305.5
27.5°	1390.8	1390.8	1365.7	1346.5	1319.7	1397.5	1621.6	1926.9	1841.6	1825.7	1391.6
30°	1494.5	1500.3	1497.0	1456.0	1439.3	1467.7	1698.6	2149.3	2070.7	2050.6	1533.8
32.5°	1647.5	1635.0	1649.2	1614.9	1565.6	1590.7	1819.8	2348.4	2368.4	2340.0	1720.3
35°	1849.9	1842.4	1833.2	1777.2	1718.6	1738.7	1991.3	2593.4	2742.3	2728.1	1908.5
37.5°	2031.4	2027.2	2019.7	1981.2	1913.5	1937.7	2186.1	2848.5	3106.9	3060.1	2174.4
40°	2222.1	2244.7	2220.4	2186.1	2124.2	2177.8	2415.3	2999.9	3413.8	3357.0	2377.6
42.5°	2480.5	2462.9	2473.8	2411.1	2377.6	2436.2	2645.3	3151.2	3652.2	3584.4	2593.4
45°	2755.7	2756.5	2727.2	2707.1	2620.2	2683.7	2786.6	3234.9	3842.0	3789.3	2756.5
47.5°	2932.1	2931.3	2963.1	2994.8	2905.4	2842.6	2882.8	3314.3	3939.9	3915.6	2815.9
50°	2904.5	2912.9	2953.9	3072.6	3119.4	3035.0	2973.1	3290.9	3984.2	3981.7	2866.9
52.5°	2526.5	2554.1	2622.7	2794.1	3030.0	3134.5	3067.6	3334.4	4005.9	4010.1	2943.0
55°	1923.5	1938.6	2069.0	2277.3	2538.2	2896.2	3030.0	3368.7	4022.7	4030.2	3035.0
56°	1668.4	1628.3	1816.5	1964.5	2276.4	2667.8	2934.6	3341.9	4012.6	4070.3	3081.0
57.5°	1259.5	1232.7	1384.9	1569.8	1870.0	2283.1	2638.6	3215.6	3944.9	3944.1	3014.9
60°	766.1	739.3	856.4	965.1	1133.2	1405.8	1783.0	2560.8	3335.2	3405.5	2441.2
62.5°	455.8	472.5	587.9	654.0	708.4	736.8	922.5	1522.1	2225.4	2275.6	1514.6
65°	303.6	309.4	396.4	505.1	529.4	421.5	375.5	616.4	965.1	934.2	624.7
67.5°	187.3	200.7	265.9	379.7	420.7	307.8	178.1	230.0	265.9	265.9	180.6
70°	113.7	120.4	177.3	258.4	288.5	198.2	129.6	129.6	128.0	125.4	107.9
72.5°	54.4	58.5	90.3	133.0	135.5	104.5	100.4	109.6	107.0	106.2	89.5
75°	23.4	25.1	31.8	41.8	47.7	44.3	61.1	78.6	81.1	78.6	64.4
77.5°	7.5	8.4	11.7	15.1	15.9	19.2	25.9	32.6	37.6	35.1	31.8
80°	0.8	1.7	3.3	7.5	11.7	15.1	19.2	21.7	24.3	24.3	22.6
82.5°	0.8	0.8	3.3	6.7	10.9	14.2	18.4	20.9	24.3	25.1	23.4
85°	0.0	0.8	2.5	5.9	9.2	9.2	8.4	8.4	5.9	5.9	5.9
87.5°	0.0	0.0	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2	755.2
2.5°	761.9	760.2	737.6	723.4	715.9	700.8	691.6	684.9	679.9	674.1	674.9
5°	771.9	766.1	728.4	702.5	671.6	654.8	640.6	628.9	621.4	619.7	616.4
7.5°	800.4	769.4	712.5	665.7	626.4	609.7	597.1	589.6	592.9	585.4	591.3
10°	822.1	776.1	693.3	625.6	586.3	573.7	567.0	572.9	581.2	577.9	573.7
12.5°	848.9	782.8	662.4	587.1	550.3	541.1	552.8	563.7	580.4	587.1	578.7
15°	879.0	790.3	623.1	542.8	519.4	526.9	546.9	566.2	582.9	591.3	596.3
17.5°	915.8	787.8	584.6	507.6	490.1	511.8	536.1	553.6	578.7	591.3	587.9
20°	950.1	779.4	541.9	472.5	473.4	493.4	513.5	541.9	555.3	572.0	566.2
22.5°	982.7	764.4	497.6	448.3	448.3	479.2	489.2	507.6	519.4	527.7	526.9
25°	1028.7	736.0	460.8	424.8	434.9	455.0	463.3	469.2	464.2	470.8	471.7
27.5°	1061.3	706.7	430.7	403.9	422.3	437.4	434.9	431.5	419.8	410.6	416.5
30°	1096.4	672.4	404.8	389.7	399.8	413.1	403.1	393.1	374.7	359.6	360.5
32.5°	1146.6	656.5	382.2	373.0	386.4	388.0	377.2	362.1	343.7	329.5	328.7
35°	1240.3	646.5	363.0	362.1	364.6	365.5	354.6	336.2	328.7	317.0	321.1
37.5°	1333.9	641.5	349.6	346.2	345.4	346.2	333.7	316.1	330.3	329.5	331.2
40°	1453.5	664.0	330.3	326.2	327.0	327.0	311.1	306.1	331.2	333.7	334.5
42.5°	1574.8	692.5	317.8	304.4	307.8	307.8	299.4	293.5	311.1	294.4	291.9
45°	1680.2	734.3	304.4	282.7	291.0	295.2	292.7	282.7	271.8	243.4	243.4
47.5°	1714.4	771.1	288.5	261.8	268.5	286.9	279.3	258.4	239.2	215.8	214.1
50°	1774.7	811.2	276.0	237.5	251.7	274.3	266.8	245.9	224.1	207.4	208.2
52.5°	1836.5	857.2	252.6	209.1	226.6	264.3	264.3	240.9	207.4	195.7	194.0
55°	1929.4	855.5	210.8	171.4	202.4	249.2	253.4	215.8	185.7	176.5	176.5
56°	1942.8	817.1	189.8	160.6	191.5	245.0	245.9	209.1	177.3	167.3	167.3
57.5°	1842.4	737.6	166.4	147.2	178.1	237.5	238.3	203.2	170.6	156.4	154.7
60°	1417.6	499.3	138.8	131.3	161.4	214.1	218.3	184.8	149.7	138.8	138.0
62.5°	800.4	276.8	122.1	118.8	138.8	182.3	194.9	161.4	127.1	121.3	122.9
65°	365.5	152.2	102.9	96.2	112.1	140.5	157.2	133.0	104.5	97.8	97.8
67.5°	133.8	103.7	87.8	76.1	78.6	91.2	102.0	86.1	69.4	59.4	61.9
70°	95.3	87.0	76.9	66.1	61.1	59.4	58.5	48.5	34.3	26.8	28.4
72.5°	76.9	71.9	64.4	56.0	47.7	40.1	34.3	25.1	15.9	10.9	10.0
75°	55.2	52.7	46.8	40.1	33.5	28.4	23.4	15.9	8.4	4.2	4.2
77.5°	28.4	28.4	27.6	25.1	20.9	16.7	13.4	9.2	5.0	1.7	1.7
80°	21.7	23.4	24.3	21.7	19.2	15.1	10.9	6.7	3.3	0.8	0.8
82.5°	20.9	24.3	25.9	22.6	19.2	14.2	10.9	6.7	3.3	0.8	0.8
85°	5.0	5.0	7.5	8.4	10.9	11.7	9.2	5.9	2.5	0.8	0.8
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	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)