

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: P950796

Luminaire Tested: **GALN-SB5A-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

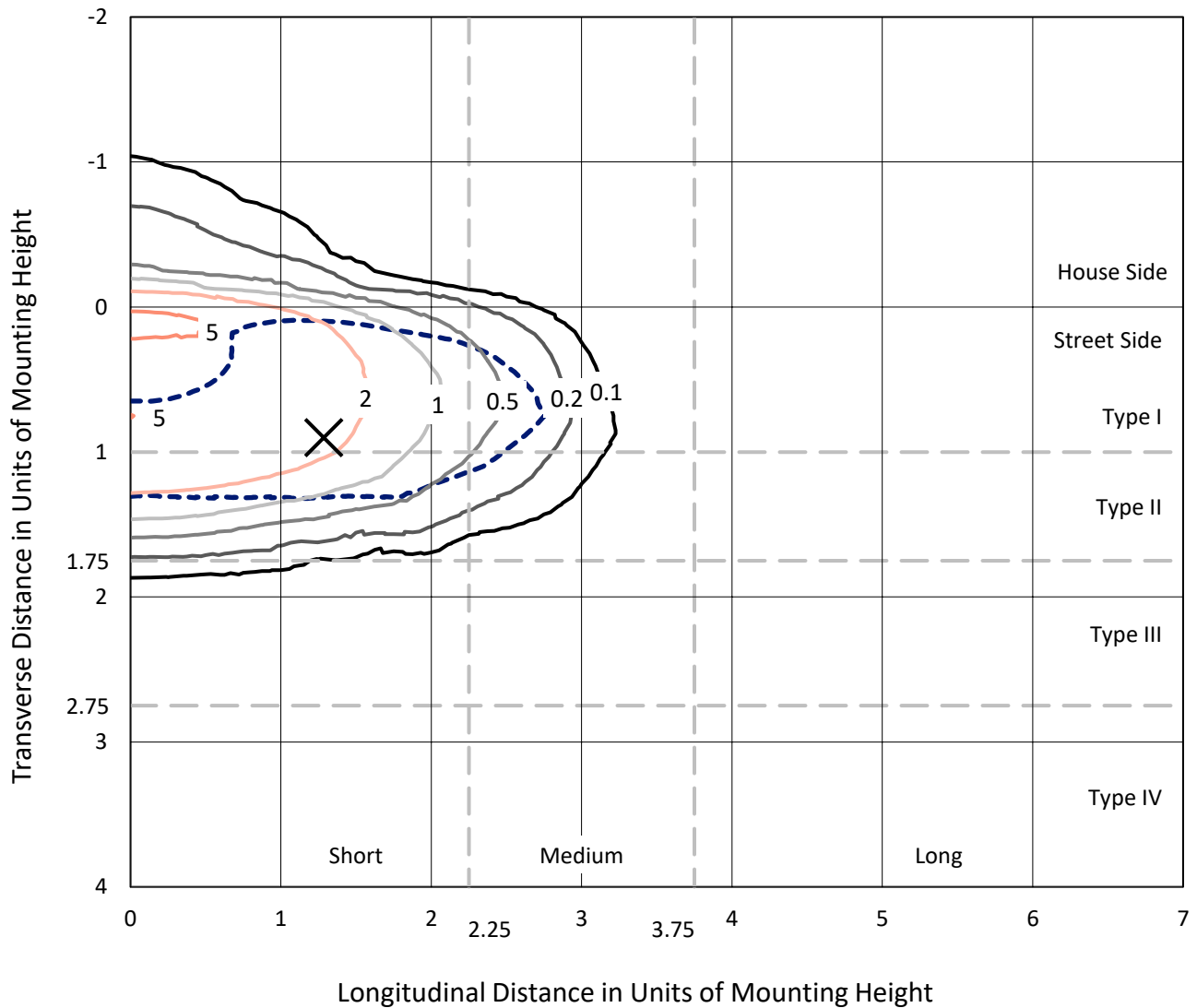
Lumens per Lamp: N/A  
Luminaire Lumens: 11760 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P950796  
 CATALOG NUMBER: GALN-SB5A-927-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

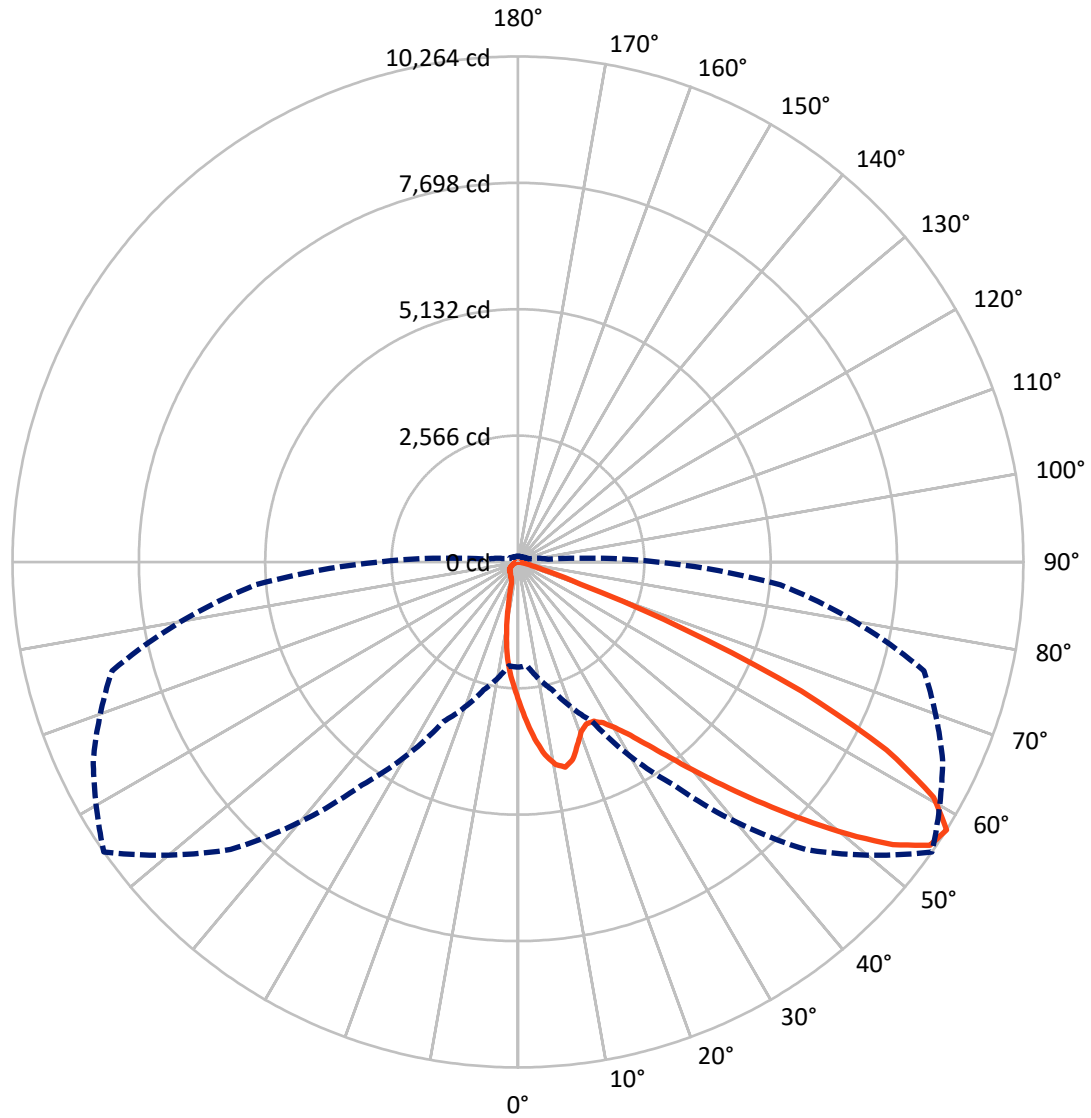
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P950796  
CATALOG NUMBER: GALN-SB5A-927-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P950796  
 CATALOG NUMBER: GALN-SB5A-927-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	918.4	0.0	918.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	10841.6	0.0	10841.6
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	11760.0	0.0	11760.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.7	2.2
10°-20°	636.9	5.4
20°-30°	1019.0	8.7
30°-40°	1724.8	14.7
40°-50°	2831.8	24.1
50°-60°	3112.3	26.5
60°-70°	1785.2	15.2
70°-80°	364.8	3.1
80°-90°	21.5	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°	11760.0	100.0
0°-180°	11760.0	100.0

**Coefficient of Utilization**



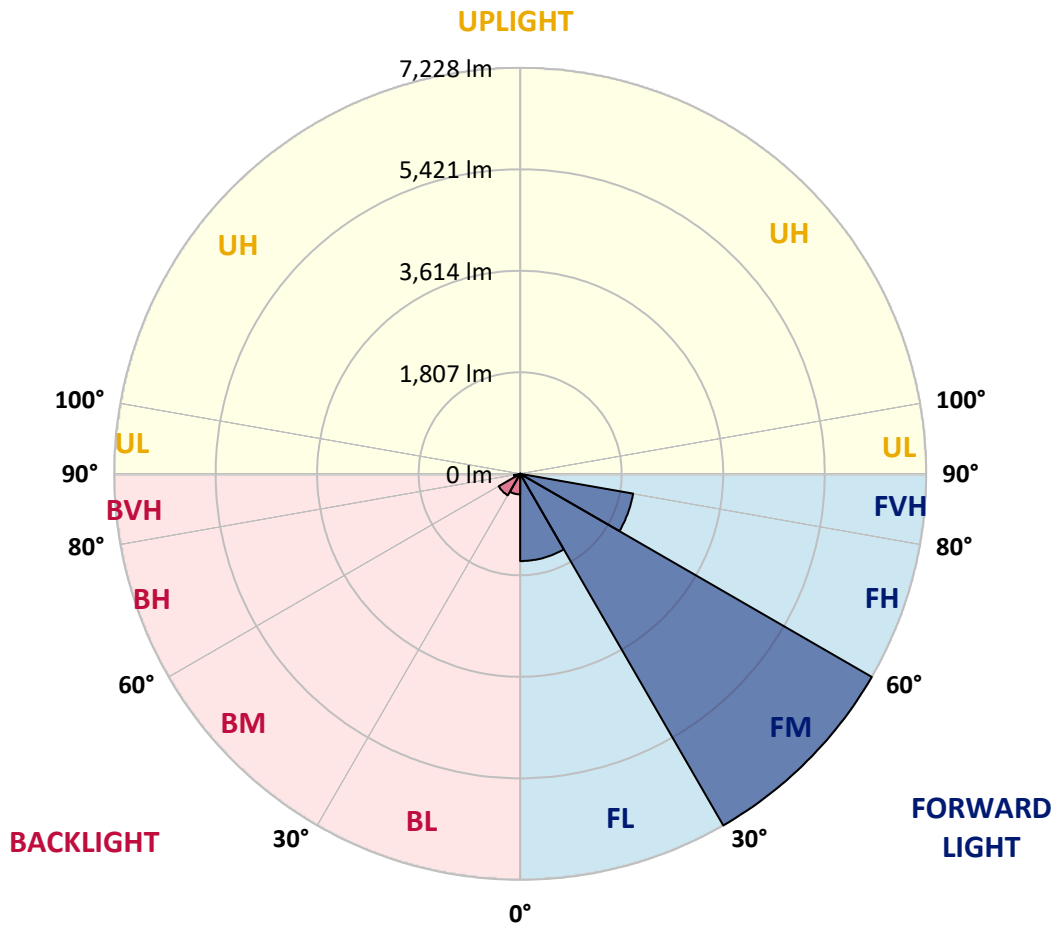
REPORT NUMBER: P950796  
 CATALOG NUMBER: GALN-SB5A-927-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.0	13.2			
FM (30°-60°)	7227.8	61.5			
FH (60°-80°)	2040.8	17.4			G2/5000
FVH (80°-90°)	20.1	0.2			G1/100
BL (0°-30°)	366.7	3.1	B1/500		
BM (30°-60°)	441.1	3.8	B1/1000		
BH (60°-80°)	109.2	0.9	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short



REPORT NUMBER: P950796  
 CATALOG NUMBER: GALN-SB5A-927-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9
2.5°	3516.2	3472.0	3465.5	3456.8	3372.7	3309.6	3218.2	3118.1	3005.7	2891.2
5°	4062.3	4027.5	4020.9	3980.3	3884.6	3777.3	3614.9	3409.6	3200.1	2953.5
7.5°	4168.1	4161.6	4191.3	4189.9	4176.8	4092.0	3954.9	3710.6	3395.9	3030.4
10°	3696.1	3712.7	3801.2	3878.8	4088.4	4210.2	4180.5	3978.9	3597.4	3118.1
12.5°	3266.1	3246.5	3309.6	3397.3	3641.0	4003.5	4274.0	4202.9	3828.0	3217.5
15°	2996.3	2988.3	3023.9	3064.5	3250.1	3615.6	4165.2	4385.0	4049.9	3334.9
17.5°	2910.0	2903.5	2914.4	2924.5	3044.9	3327.7	3906.4	4496.6	4262.4	3469.1
20°	2980.3	2971.6	2970.2	2962.2	3012.3	3205.1	3672.1	4504.6	4453.1	3590.9
22.5°	3185.6	3175.4	3139.9	3108.0	3112.3	3221.8	3567.7	4424.8	4596.7	3704.8
25°	3557.6	3540.9	3466.9	3359.6	3291.4	3337.8	3583.7	4319.7	4733.8	3794.0
27.5°	4023.1	4001.4	3906.4	3746.8	3590.9	3534.4	3699.0	4247.2	4847.6	3862.1
30°	4479.2	4450.9	4357.4	4233.4	4005.7	3827.3	3907.1	4279.1	4983.2	3933.2
32.5°	4971.6	4944.8	4820.8	4667.0	4478.5	4238.5	4192.1	4435.0	5149.3	4032.5
35°	5594.5	5552.4	5376.2	5166.7	4966.5	4723.6	4577.8	4704.0	5370.4	4184.1
37.5°	6303.7	6247.1	6057.1	5767.8	5506.8	5234.8	5047.7	5073.8	5694.6	4387.1
40°	6972.3	6920.8	6745.3	6472.7	6144.9	5814.9	5615.5	5557.5	6142.0	4634.4
42.5°	7373.3	7326.9	7252.9	7137.6	6861.3	6524.9	6273.2	6147.8	6671.3	4930.3
45°	7395.8	7355.2	7454.5	7588.7	7534.3	7310.2	7003.5	6773.6	7202.9	5208.0
47.5°	7036.1	7008.5	7310.2	7778.6	8012.1	8106.4	7823.6	7347.2	7641.6	5407.4
50°	6055.7	6045.5	6666.3	7526.3	8194.1	8804.0	8688.7	7880.9	7981.7	5510.4
52.5°	5250.8	5213.8	5575.6	6718.5	7929.5	9170.9	9534.2	8404.4	8219.5	5530.0
55°	3982.5	3949.9	4403.8	5366.8	7076.0	9040.4	10152.8	8944.7	8389.9	5479.9
57.5°	2136.3	2116.0	2689.6	3572.1	5531.4	8257.2	10264.4	9516.1	8533.5	5347.2
60°	831.7	828.1	1042.8	1733.1	3361.8	6717.8	9701.0	9859.1	8623.4	5184.1
62.5°	503.3	514.1	548.9	778.1	1485.1	4173.2	8402.3	9469.0	8683.6	5034.7
65°	416.2	417.0	421.3	534.4	711.4	1746.2	6325.4	8185.4	8535.0	4768.6
67.5°	356.8	363.3	380.0	424.2	501.8	765.8	3641.7	6340.7	7630.7	4149.3
70°	281.4	290.1	311.1	348.8	387.2	479.3	1345.9	4218.9	5829.4	3127.6
72.5°	237.1	236.4	247.3	283.5	307.5	337.2	517.8	2364.0	3387.9	1493.1
75°	183.5	190.7	204.5	237.1	251.6	244.4	280.6	863.6	1213.9	452.5
77.5°	143.6	149.4	161.7	193.6	208.1	173.3	161.7	308.9	390.1	162.4
80°	64.5	69.6	110.2	142.9	169.7	119.6	87.7	158.1	173.3	74.0
82.5°	11.6	19.6	64.5	75.4	87.0	77.6	45.7	81.9	84.8	29.7
85°	0.7	1.5	22.5	27.6	34.8	25.4	13.8	32.6	28.3	10.2
87.5°	0.0	0.0	0.0	0.7	0.7	3.6	4.4	5.8	4.4	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950796  
 CATALOG NUMBER: GALN-SB5A-927-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2833.9	0°	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9
2840.4	2.5°	2788.2	2685.2	2585.1	2503.2	2455.3	2374.1	2320.5	2311.8	2289.3	2308.9
2847.6	5°	2734.5	2550.3	2364.0	2197.2	2060.1	1883.2	1751.2	1695.4	1646.8	1663.5
2866.5	7.5°	2709.1	2418.4	2128.3	1843.3	1550.4	1267.6	1057.3	969.5	902.8	912.2
2887.5	10°	2675.1	2281.3	1826.6	1391.6	999.3	720.1	575.0	521.4	491.6	492.4
2918.7	12.5°	2649.0	2117.4	1476.4	943.4	608.4	459.7	414.8	401.7	393.0	393.8
2965.8	15°	2635.9	1924.5	1130.5	628.7	435.1	389.4	378.5	372.7	366.9	366.2
3018.1	17.5°	2614.2	1709.9	827.4	459.0	380.7	364.7	355.3	348.8	341.5	340.1
3063.0	20°	2581.5	1466.2	604.8	388.0	356.8	344.4	331.4	322.7	314.0	312.5
3091.3	22.5°	2521.3	1208.8	464.8	358.9	339.4	325.6	309.6	299.5	290.8	289.3
3077.5	25°	2409.7	967.3	391.6	340.8	324.1	307.5	290.1	276.3	268.3	266.9
3047.8	27.5°	2268.3	760.0	355.3	324.1	304.6	289.3	269.8	256.7	249.5	248.0
3008.6	30°	2101.5	585.2	334.3	305.3	281.4	268.3	250.9	240.0	235.7	235.7
2981.1	32.5°	1921.6	467.7	325.6	286.4	261.1	246.5	232.8	228.4	227.0	226.2
2996.3	35°	1752.7	406.1	321.2	271.2	242.9	229.1	223.3	224.1	227.0	227.0
3043.4	37.5°	1602.6	386.5	319.1	260.3	227.0	214.6	218.3	224.8	221.9	221.9
3126.1	40°	1467.0	388.7	317.6	252.4	213.9	206.7	213.9	208.8	201.6	200.9
3226.9	42.5°	1363.3	406.8	314.7	245.8	205.9	200.9	198.0	190.0	189.3	190.7
3331.3	45°	1287.9	422.8	314.0	242.9	197.2	187.8	184.2	176.2	190.7	194.3
3374.1	47.5°	1198.7	422.8	314.0	232.8	182.7	179.1	173.3	164.6	179.1	182.7
3333.5	50°	1083.4	395.9	301.7	221.2	171.1	169.0	158.8	147.9	145.0	147.2
3238.5	52.5°	937.6	347.3	270.5	205.2	159.5	155.2	142.9	134.9	132.7	132.7
3068.1	55°	771.6	290.8	228.4	182.0	147.2	139.2	130.5	126.9	124.7	123.3
2829.5	57.5°	627.3	238.6	183.5	161.7	135.6	125.5	122.5	118.2	114.6	112.4
2630.1	60°	514.9	187.8	151.6	143.6	124.0	114.6	113.8	108.0	98.6	97.2
2465.5	62.5°	397.4	137.8	127.6	124.7	112.4	104.4	103.0	91.4	76.9	74.0
2232.0	65°	280.6	107.3	103.0	109.5	100.1	92.8	89.2	71.8	56.6	54.4
1868.0	67.5°	197.2	89.9	81.2	95.7	87.0	77.6	75.4	60.9	47.1	45.7
1412.6	70°	140.7	73.2	66.7	81.9	69.6	68.2	63.8	50.8	38.4	37.0
699.0	72.5°	99.3	55.8	51.5	71.1	47.9	58.7	52.2	39.2	29.0	27.6
237.8	75°	73.2	39.9	36.3	41.3	34.8	44.2	37.0	26.1	18.1	17.4
107.3	77.5°	53.7	25.4	21.8	20.3	20.3	27.6	20.3	10.9	8.0	7.3
54.4	80°	37.7	11.6	10.2	8.7	8.0	6.5	2.9	1.5	0.7	0.7
18.9	82.5°	22.5	5.1	5.1	3.6	2.2	0.0	0.0	0.0	0.0	0.0
7.3	85°	5.1	2.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2.9	87.5°	0.7	0.7	0.0	0.0	0.0	0.0	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

(END OF RI

