

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: P956341

Luminaire Tested: **GALN-SB9A-740-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-740-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

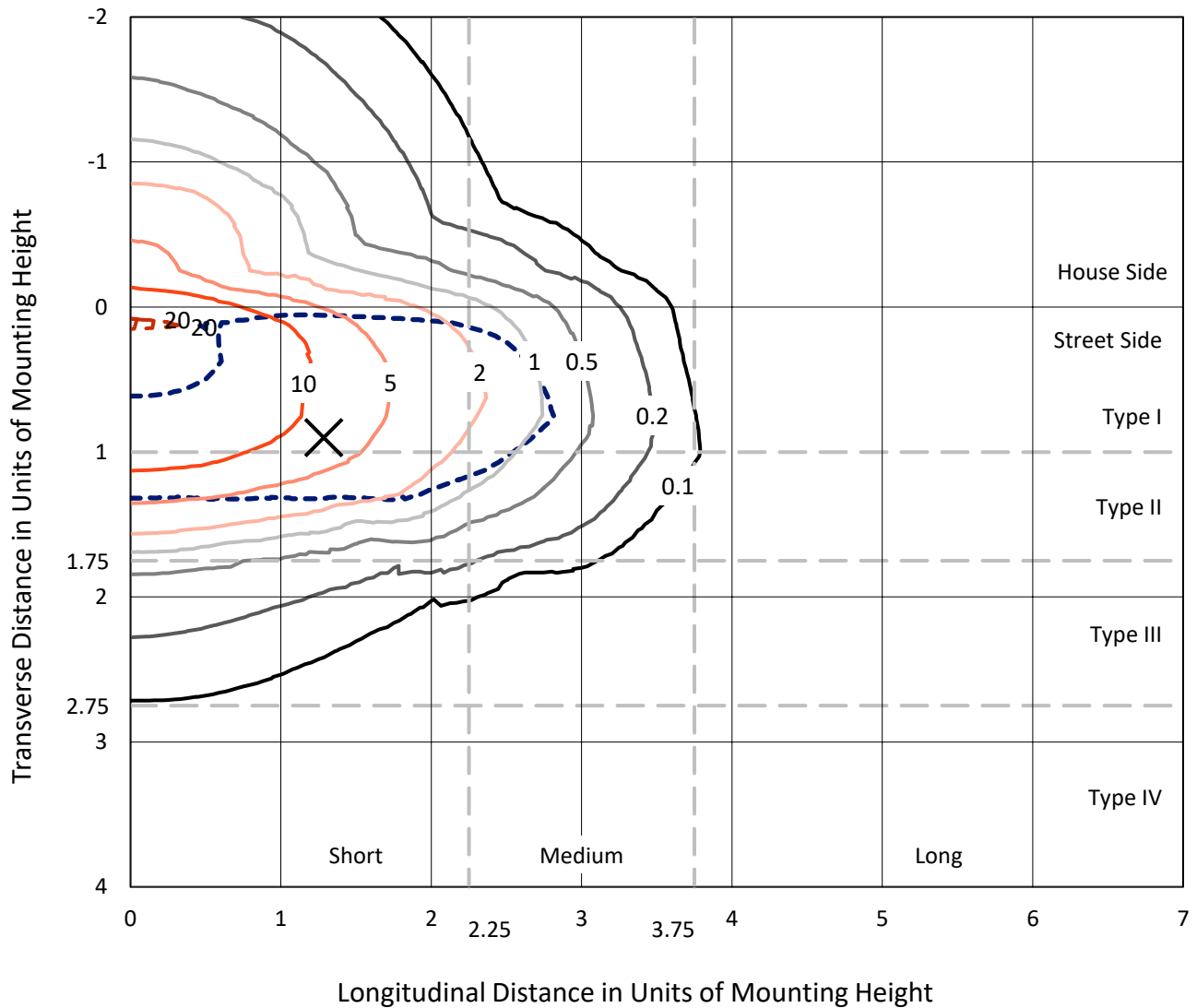
Lumens per Lamp: N/A  
Luminaire Lumens: 43963 lumens  
Efficiency: N/A  
Efficacy: 172.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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: P956341  
 CATALOG NUMBER: GALN-SB9A-740-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

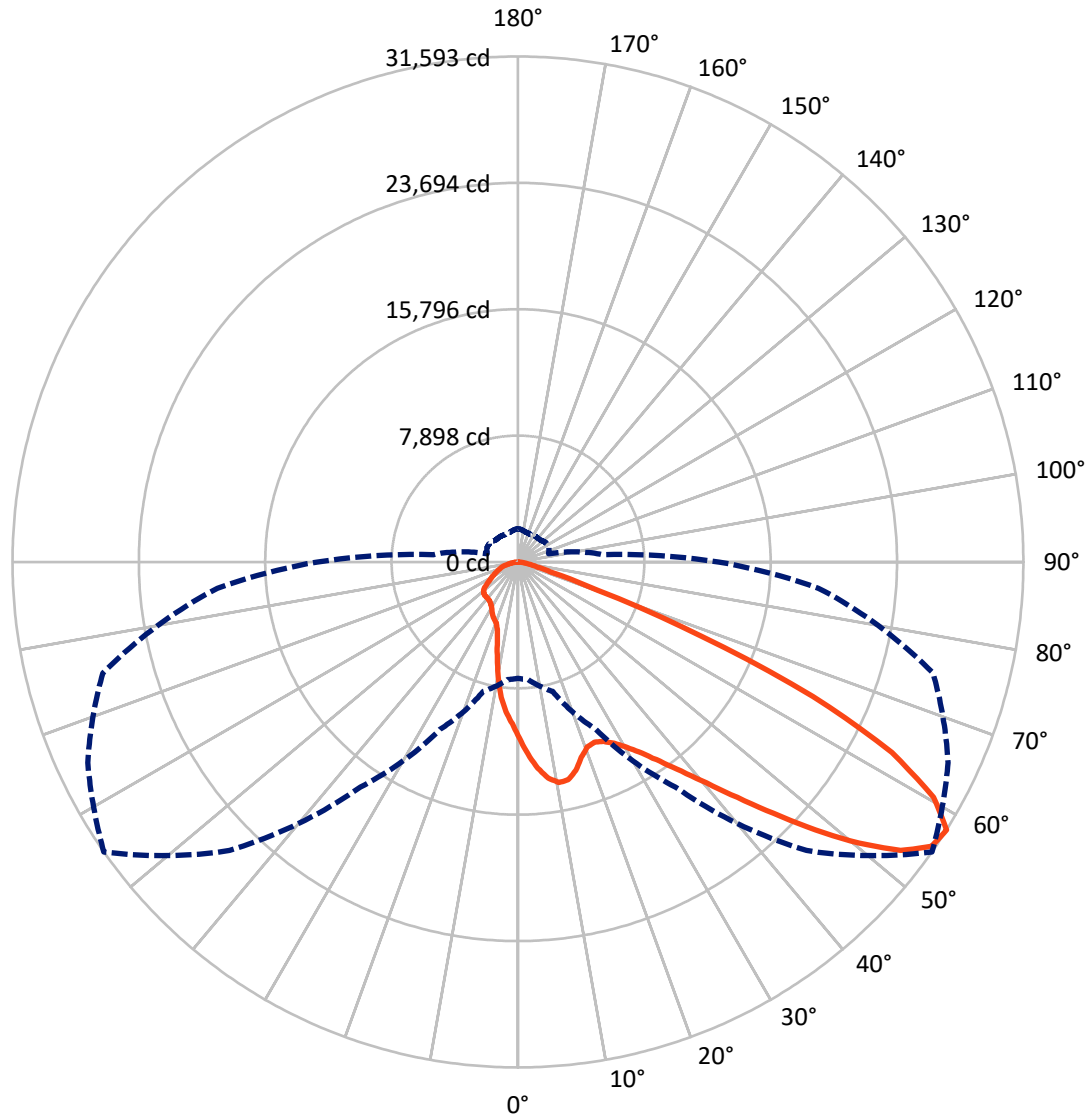
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P956341  
CATALOG NUMBER: GALN-SB9A-740-U-AFL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P956341  
 CATALOG NUMBER: GALN-SB9A-740-U-AFL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7954.9	0.0	7954.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	36008.1	0.0	36008.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	43963.0	0.0	43963.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1022.2	2.3
10°-20°	2580.1	5.9
20°-30°	4117.0	9.4
30°-40°	6518.3	14.8
40°-50°	9976.9	22.7
50°-60°	10686.2	24.3
60°-70°	6722.7	15.3
70°-80°	1988.0	4.5
80°-90°	351.5	0.8
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°	43963.0	100.0
0°-180°	43963.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P956341

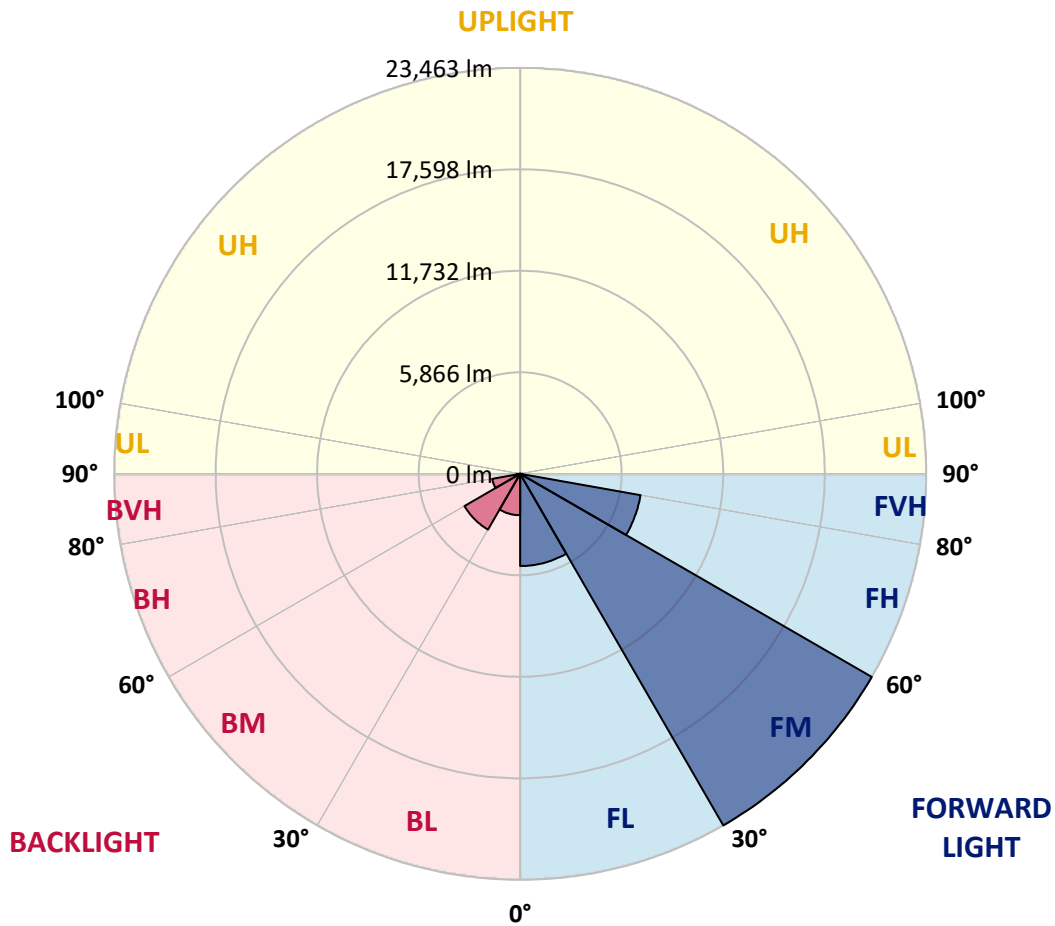
CATALOG NUMBER: GALN-SB9A-740-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5328.3	12.1			
FM (30°-60°)	23463.4	53.4			
FH (60°-80°)	7067.9	16.1			G3/7500
FVH (80°-90°)	148.5	0.3			G2/225
BL (0°-30°)	2391.0	5.4	B3/2500		
BM (30°-60°)	3718.0	8.5	B3/5000		
BH (60°-80°)	1642.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	203.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



REPORT NUMBER: P956341  
 CATALOG NUMBER: GALN-SB9A-740-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7
2.5°	12638.4	12629.3	12679.3	12508.9	12392.9	12236.1	12029.3	11765.7	11481.6	11181.6
5°	13777.0	13697.5	13749.7	13622.5	13495.2	13258.8	12952.0	12522.5	11997.5	11399.8
7.5°	13597.5	13542.9	13677.0	13790.6	13886.1	13856.6	13631.6	13181.6	12504.3	11636.1
10°	12149.8	12088.4	12277.0	12670.2	13247.5	13749.7	14022.5	13742.9	13022.5	11895.2
12.5°	10872.5	10843.0	10968.0	11286.2	11927.0	12890.7	13972.5	14233.8	13561.1	12202.0
15°	10327.1	10290.7	10370.3	10531.6	10940.7	11838.4	13517.9	14570.2	14090.6	12556.6
17.5°	10206.6	10165.7	10199.8	10283.9	10547.5	11231.6	12831.6	14736.1	14642.9	12952.0
20°	10429.3	10395.3	10399.8	10395.3	10579.3	11122.5	12354.3	14672.4	15124.7	13315.7
22.5°	10968.0	10911.2	10913.4	10793.0	10893.0	11313.4	12229.3	14502.0	15554.3	13633.8
25°	11845.2	11743.0	11763.4	11456.6	11429.3	11740.7	12424.8	14370.2	15981.5	13888.4
27.5°	13045.2	12929.3	12867.9	12411.1	12193.0	12347.5	12822.5	14415.6	16386.1	14108.8
30°	14545.2	14404.3	14279.3	13631.6	13236.1	13179.3	13440.7	14715.6	16863.3	14340.6
32.5°	16383.8	16220.1	15992.9	15133.8	14577.0	14279.3	14240.6	15249.7	17422.4	14636.1
35°	18572.4	18358.7	18036.0	16924.7	16220.1	15611.1	15295.2	16020.2	18188.3	15081.5
37.5°	20826.9	20586.0	20290.5	18967.8	18101.9	17204.2	16581.5	17065.6	19208.7	15686.1
40°	22906.4	22635.9	22360.9	21183.7	20254.2	19172.4	18156.5	18388.3	20456.4	16408.8
42.5°	24133.6	23933.6	23829.1	23192.7	22474.6	21376.9	20115.5	19956.4	21858.7	17240.6
45°	24079.1	23997.3	24320.0	24583.6	24413.2	23804.1	22410.9	21690.5	23265.5	17961.0
47.5°	22792.8	22847.3	23567.7	25049.5	25701.8	26020.0	25024.5	23392.7	24488.2	18499.7
50°	19292.8	19338.3	21006.4	24201.8	26033.6	27826.7	27617.7	25054.1	25435.9	18829.2
52.5°	16522.4	16552.0	17267.9	21688.2	24938.2	28735.8	29954.0	26620.0	26129.1	18920.1
55°	12445.2	12547.5	13349.7	17015.6	22088.2	28015.4	31376.7	28233.6	26567.7	18929.2
57.5°	7270.3	7381.7	8372.6	11549.8	17167.9	25504.1	31592.6	29665.3	26865.4	18856.5
60°	3561.3	3609.0	4040.8	6070.3	10586.2	20665.5	29856.3	30358.5	27031.3	18817.8
62.5°	2400.0	2393.1	2411.3	2995.4	5215.8	13277.0	26238.1	29144.9	26942.7	18670.1
65°	2063.6	2038.6	1970.4	2102.2	2702.2	6072.6	20272.3	25522.2	26267.7	18299.7
67.5°	1784.1	1786.3	1788.6	1747.7	1929.5	2802.2	12388.4	20104.2	23845.0	16545.1
70°	1477.2	1497.7	1506.8	1506.8	1572.7	1838.6	5288.5	13779.3	18808.7	12972.5
72.5°	1345.4	1302.2	1306.8	1284.1	1284.1	1400.0	2129.5	7811.2	11849.8	7297.6
75°	1097.7	1125.0	1129.5	1113.6	1061.3	1068.2	1263.6	3277.2	5070.4	3027.2
77.5°	947.7	947.7	956.8	945.4	904.5	800.0	843.2	1270.4	1725.0	1240.9
80°	761.3	759.1	797.7	820.4	756.8	590.9	538.6	702.3	765.9	545.4
82.5°	370.4	393.2	547.7	625.0	575.0	427.3	329.5	436.4	409.1	240.9
85°	215.9	204.5	245.4	347.7	329.5	236.4	159.1	227.3	213.6	122.7
87.5°	68.2	63.6	50.0	118.2	95.5	65.9	43.2	65.9	59.1	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956341  
 CATALOG NUMBER: GALN-SB9A-740-U-AFL

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
11015.7	0°	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7	11015.7
11052.1	2.5°	10890.7	10622.5	10356.6	10113.4	9965.7	9870.3	9774.8	9668.0	9627.1	9565.7
11081.6	5°	10781.6	10263.4	9802.1	9404.4	9043.0	8758.9	8472.6	8240.8	8136.2	8206.7
11174.8	7.5°	10718.0	9968.0	9256.6	8527.1	7824.9	7263.5	6774.9	6431.7	6277.2	6315.8
11265.7	10°	10661.2	9633.9	8549.8	7397.6	6388.5	5693.1	5193.1	4931.7	4834.0	4854.5
11388.4	12.5°	10608.9	9258.9	7697.6	6181.7	5109.0	4649.9	4506.7	4509.0	4527.2	4540.8
11583.9	15°	10599.8	8806.7	6745.3	5118.1	4418.1	4388.6	4543.1	4640.8	4693.1	4709.0
11747.5	17.5°	10586.2	8265.8	5774.9	4393.1	4249.9	4449.9	4593.1	4656.7	4697.6	4699.9
11906.6	20°	10531.6	7579.4	4879.5	4047.7	4213.6	4386.3	4474.9	4524.9	4559.0	4570.4
12027.0	22.5°	10363.4	6815.8	4181.7	3893.1	4068.1	4206.7	4311.3	4368.1	4388.6	4402.2
12049.8	25°	10061.2	5961.3	3699.9	3745.4	3865.8	4040.8	4124.9	4136.3	4129.5	4149.9
11993.0	27.5°	9665.7	5045.4	3399.9	3545.4	3699.9	3849.9	3895.4	3888.6	3874.9	3897.7
11895.2	30°	9188.5	4222.6	3209.0	3320.4	3531.8	3668.1	3709.0	3693.1	3665.8	3690.8
11845.2	32.5°	8683.9	3549.9	3052.2	3163.6	3393.1	3527.2	3568.1	3552.2	3531.8	3552.2
11902.0	35°	8213.5	3079.5	2906.8	3059.0	3284.0	3415.8	3468.1	3470.4	3470.4	3495.4
12052.0	37.5°	7781.7	2804.5	2786.3	2993.1	3209.0	3327.2	3402.2	3406.8	3309.0	3315.8
12306.6	40°	7381.7	2688.6	2731.8	2949.9	3136.3	3249.9	3254.5	2999.9	2820.4	2815.9
12597.5	42.5°	7054.4	2665.9	2747.7	2945.4	3084.0	3088.6	2768.1	2570.4	2520.4	2522.7
12865.7	45°	6747.6	2659.0	2784.0	2945.4	3006.8	2668.1	2452.2	2400.0	2404.5	2422.7
12986.1	47.5°	6404.4	2631.8	2790.9	2904.5	2784.0	2372.7	2309.0	2286.3	2277.2	2281.8
12958.8	50°	6029.4	2534.0	2704.5	2822.7	2402.2	2245.4	2165.9	2159.1	2170.4	2177.2
12806.6	52.5°	5634.0	2375.0	2556.8	2674.9	2227.2	2134.1	2045.4	2061.3	2111.3	2127.2
12647.5	55°	5374.9	2188.6	2361.3	2379.5	2104.5	2029.5	1954.5	1990.9	2084.1	2113.6
12552.0	57.5°	5306.7	1990.9	2138.6	2118.1	1947.7	1938.6	1893.1	1925.0	2043.1	2086.3
12547.5	60°	5286.3	1813.6	1920.4	1904.5	1795.4	1838.6	1827.2	1843.1	1884.1	1897.7
12502.0	62.5°	5127.2	1672.7	1725.0	1702.2	1659.1	1734.1	1761.3	1727.2	1759.1	1775.0
12190.7	65°	4722.6	1559.1	1534.1	1518.2	1536.3	1604.5	1659.1	1590.9	1620.4	1665.9
10990.7	67.5°	4054.5	1404.5	1336.3	1354.5	1411.3	1447.7	1518.2	1440.9	1465.9	1543.2
8852.1	70°	3279.5	1209.1	1147.7	1200.0	1254.5	1329.5	1340.9	1288.6	1347.7	1434.1
5402.2	72.5°	2320.4	1011.3	968.2	1075.0	1093.2	1190.9	1165.9	1140.9	1222.7	1252.2
2670.4	75°	1609.1	815.9	790.9	872.7	938.6	1022.7	1004.5	1034.1	1206.8	1220.4
1334.1	77.5°	1018.2	634.1	618.2	670.4	761.3	854.5	884.1	1220.4	2061.3	2143.1
693.2	80°	590.9	472.7	454.5	495.4	575.0	661.4	852.3	1497.7	1359.1	1343.2
311.4	82.5°	329.5	325.0	302.3	313.6	384.1	477.3	1204.5	1054.5	856.8	884.1
125.0	85°	154.5	190.9	163.6	156.8	215.9	559.1	804.5	602.3	400.0	390.9
27.3	87.5°	40.9	36.4	36.4	40.9	90.9	481.8	320.4	256.8	152.3	147.7
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

