

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: P946051

Luminaire Tested: **GALN-SB1D-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946051  
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-SB1D-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

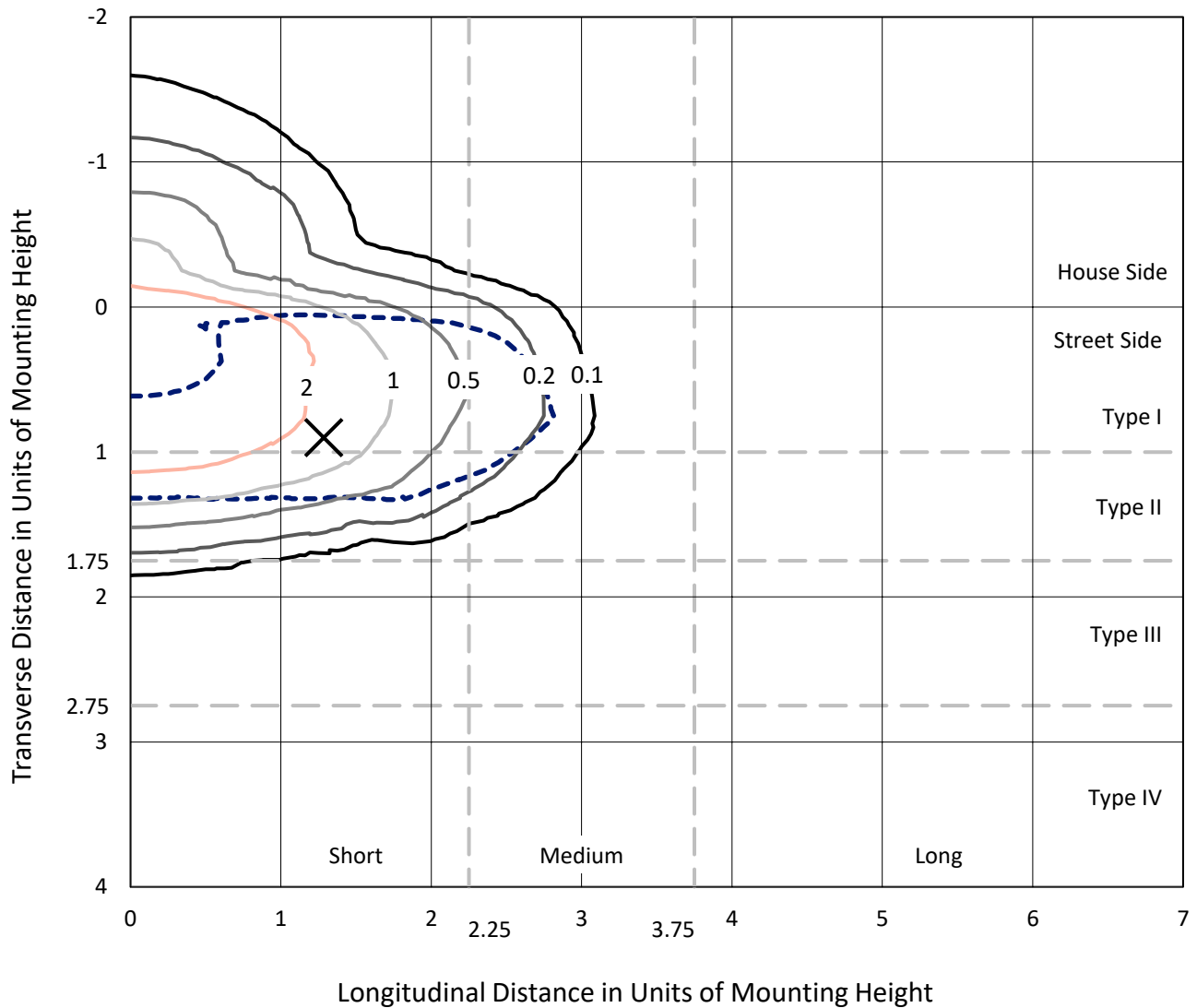
Lumens per Lamp: N/A  
Luminaire Lumens: 9002 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P946051  
 CATALOG NUMBER: GALN-SB1D-827-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

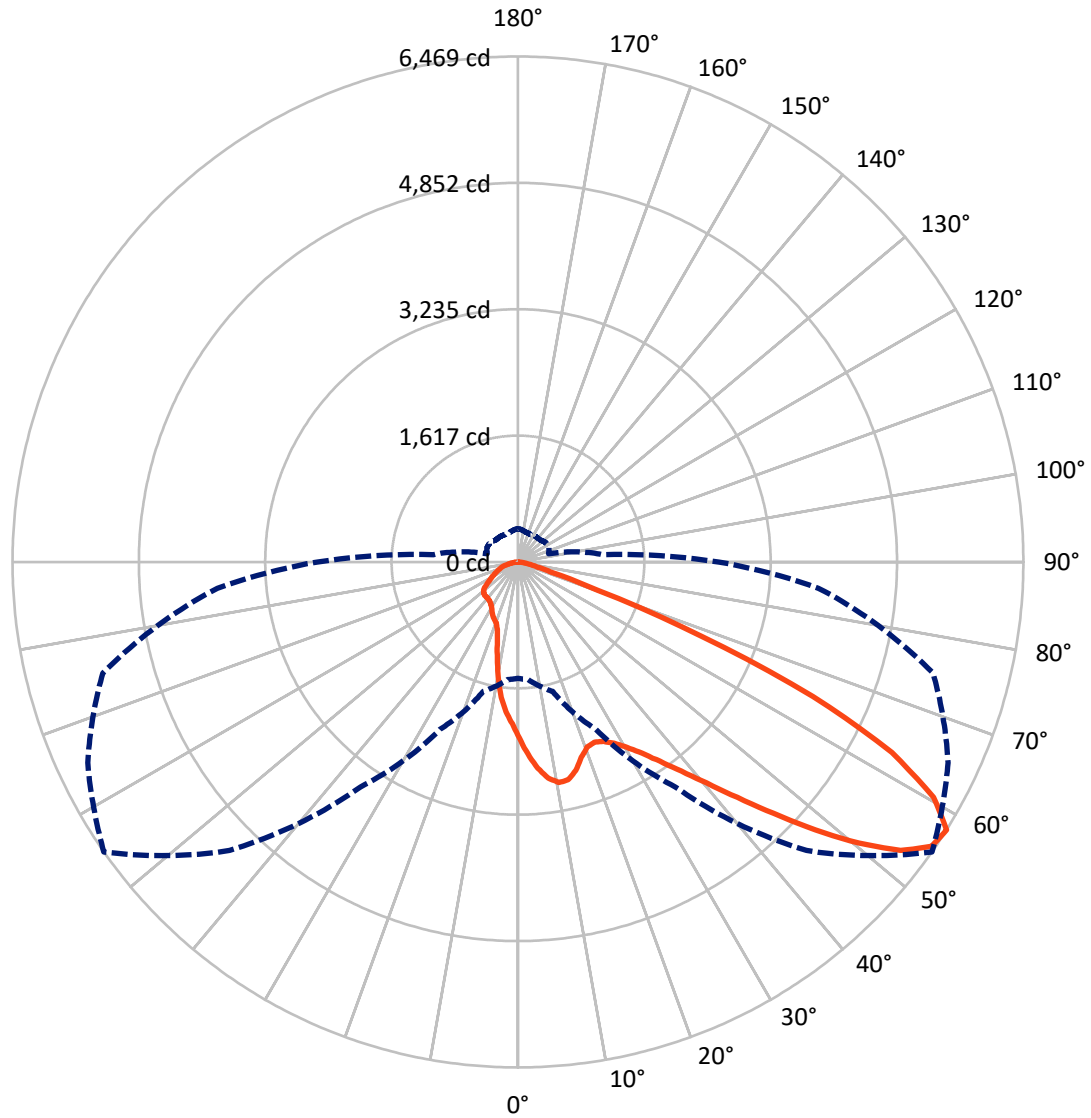
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P946051  
CATALOG NUMBER: GALN-SB1D-827-U-AFL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P946051  
 CATALOG NUMBER: GALN-SB1D-827-U-AFL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1628.9	0.0	1628.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7373.1	0.0	7373.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	9002.0	0.0	9002.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.3	2.3
10°-20°	528.3	5.9
20°-30°	843.0	9.4
30°-40°	1334.7	14.8
40°-50°	2042.9	22.7
50°-60°	2188.1	24.3
60°-70°	1376.6	15.3
70°-80°	407.1	4.5
80°-90°	72.0	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°	9002.0	100.0
0°-180°	9002.0	100.0

**Coefficient of Utilization**



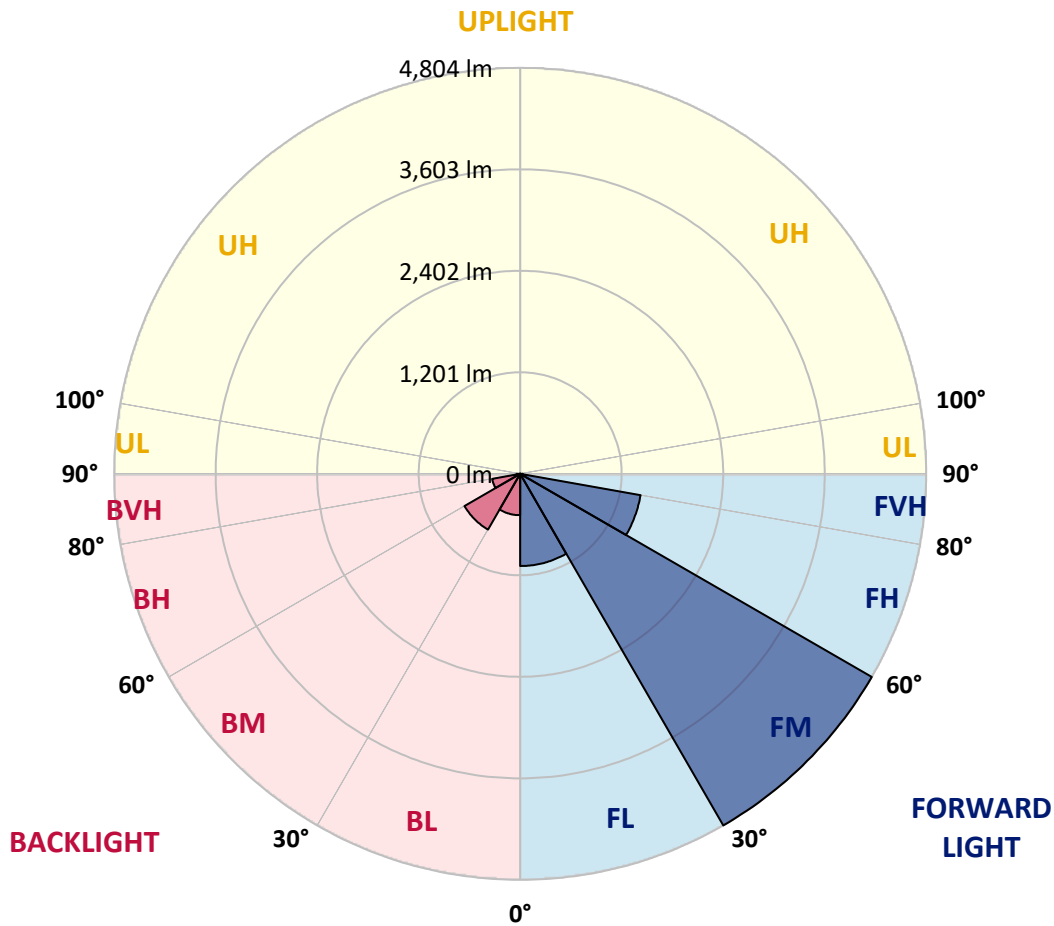
REPORT NUMBER: P946051  
 CATALOG NUMBER: GALN-SB1D-827-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.0	12.1			
FM (30°-60°)	4804.4	53.4			
FH (60°-80°)	1447.2	16.1			G1/1800
FVH (80°-90°)	30.4	0.3			G1/100
BL (0°-30°)	489.6	5.4	B1/500		
BM (30°-60°)	761.3	8.5	B1/1000		
BH (60°-80°)	336.4	3.7	B1/500		G1/500
BVH (80°-90°)	41.6	0.5			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 II Short



REPORT NUMBER: P946051

CATALOG NUMBER: GALN-SB1D-827-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6
2.5°	2587.9	2586.0	2596.3	2561.4	2537.6	2505.5	2463.2	2409.2	2351.0	2289.6
5°	2821.0	2804.7	2815.4	2789.4	2763.3	2714.9	2652.1	2564.1	2456.6	2334.3
7.5°	2784.3	2773.1	2800.5	2823.8	2843.4	2837.3	2791.2	2699.1	2560.4	2382.7
10°	2487.8	2475.3	2513.9	2594.4	2712.6	2815.4	2871.3	2814.0	2666.5	2435.7
12.5°	2226.3	2220.2	2245.8	2311.0	2442.2	2639.5	2861.0	2914.6	2776.8	2498.5
15°	2114.6	2107.2	2123.4	2156.5	2240.3	2424.1	2768.0	2983.4	2885.2	2571.1
17.5°	2089.9	2081.6	2088.5	2105.8	2159.7	2299.8	2627.4	3017.4	2998.3	2652.1
20°	2135.5	2128.6	2129.5	2128.6	2166.3	2277.5	2529.7	3004.4	3097.0	2726.6
22.5°	2245.8	2234.2	2234.7	2210.0	2230.5	2316.6	2504.1	2969.5	3184.9	2791.7
25°	2425.5	2404.5	2408.7	2345.9	2340.3	2404.1	2544.1	2942.5	3272.4	2843.8
27.5°	2671.2	2647.4	2634.9	2541.3	2496.7	2528.3	2625.6	2951.8	3355.3	2889.0
30°	2978.3	2949.5	2923.9	2791.2	2710.3	2698.6	2752.2	3013.2	3453.0	2936.4
32.5°	3354.8	3321.3	3274.8	3098.8	2984.8	2923.9	2916.0	3122.6	3567.5	2996.9
35°	3802.9	3759.2	3693.1	3465.5	3321.3	3196.6	3131.9	3280.3	3724.3	3088.1
37.5°	4264.6	4215.2	4154.8	3883.9	3706.6	3522.8	3395.3	3494.4	3933.2	3211.9
40°	4690.4	4635.0	4578.7	4337.6	4147.3	3925.8	3717.8	3765.2	4188.7	3359.9
42.5°	4941.7	4900.7	4879.3	4749.0	4602.0	4377.2	4118.9	4086.3	4475.9	3530.2
45°	4930.5	4913.8	4979.8	5033.8	4998.9	4874.2	4588.9	4441.4	4763.9	3677.8
47.5°	4667.1	4678.3	4825.8	5129.2	5262.8	5327.9	5124.1	4790.0	5014.3	3788.0
50°	3950.5	3959.8	4301.3	4955.6	5330.7	5697.9	5655.1	5130.1	5208.3	3855.5
52.5°	3383.2	3389.2	3535.8	4440.9	5106.4	5884.0	6133.5	5450.8	5350.3	3874.1
55°	2548.3	2569.3	2733.5	3484.2	4522.9	5736.5	6424.8	5781.2	5440.1	3876.0
57.5°	1488.7	1511.5	1714.4	2365.0	3515.3	5222.3	6469.0	6074.4	5501.0	3861.1
60°	729.2	739.0	827.4	1243.0	2167.7	4231.5	6113.5	6216.3	5535.0	3853.2
62.5°	491.4	490.0	493.7	613.3	1068.0	2718.6	5372.6	5967.8	5516.9	3822.9
65°	422.5	417.4	403.5	430.5	553.3	1243.4	4151.0	5226.0	5378.7	3747.1
67.5°	365.3	365.8	366.2	357.9	395.1	573.8	2536.7	4116.6	4882.6	3387.8
70°	302.5	306.7	308.5	308.5	322.0	376.5	1082.9	2821.5	3851.3	2656.3
72.5°	275.5	266.7	267.6	262.9	262.9	286.7	436.0	1599.4	2426.4	1494.3
75°	224.8	230.4	231.3	228.0	217.3	218.7	258.7	671.1	1038.2	619.9
77.5°	194.1	194.1	195.9	193.6	185.2	163.8	172.6	260.1	353.2	254.1
80°	155.9	155.4	163.3	168.0	155.0	121.0	110.3	143.8	156.8	111.7
82.5°	75.9	80.5	112.2	128.0	117.7	87.5	67.5	89.3	83.8	49.3
85°	44.2	41.9	50.3	71.2	67.5	48.4	32.6	46.5	43.7	25.1
87.5°	14.0	13.0	10.2	24.2	19.5	13.5	8.8	13.5	12.1	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946051  
 CATALOG NUMBER: GALN-SB1D-827-U-AFL

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2255.6	0°	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6	2255.6
2263.1	2.5°	2230.0	2175.1	2120.7	2070.9	2040.6	2021.1	2001.5	1979.6	1971.3	1958.7
2269.1	5°	2207.7	2101.6	2007.1	1925.7	1851.7	1793.5	1734.9	1687.4	1666.0	1680.4
2288.2	7.5°	2194.6	2041.1	1895.4	1746.0	1602.2	1487.3	1387.2	1317.0	1285.3	1293.2
2306.8	10°	2183.0	1972.7	1750.7	1514.8	1308.1	1165.7	1063.4	1009.8	989.8	994.0
2331.9	12.5°	2172.3	1895.9	1576.2	1265.8	1046.1	952.1	922.8	923.3	927.0	929.8
2371.9	15°	2170.4	1803.3	1381.2	1048.0	904.7	898.6	930.3	950.3	961.0	964.2
2405.5	17.5°	2167.7	1692.5	1182.5	899.5	870.2	911.2	940.5	953.5	961.9	962.4
2438.0	20°	2156.5	1552.0	999.1	828.8	862.8	898.1	916.3	926.5	933.5	935.8
2462.7	22.5°	2122.1	1395.6	856.3	797.2	833.0	861.4	882.8	894.4	898.6	901.4
2467.3	25°	2060.2	1220.6	757.6	766.9	791.6	827.4	844.6	847.0	845.6	849.8
2455.7	27.5°	1979.2	1033.1	696.2	726.0	757.6	788.3	797.6	796.2	793.4	798.1
2435.7	30°	1881.5	864.6	657.1	679.9	723.2	751.1	759.5	756.2	750.6	755.7
2425.5	32.5°	1778.1	726.9	625.0	647.8	694.8	722.2	730.6	727.4	723.2	727.4
2437.1	35°	1681.8	630.6	595.2	626.4	672.4	699.4	710.1	710.6	710.6	715.7
2467.8	37.5°	1593.4	574.3	570.5	612.9	657.1	681.3	696.6	697.6	677.6	679.0
2519.9	40°	1511.5	550.5	559.4	604.0	642.2	665.5	666.4	614.3	577.5	576.6
2579.5	42.5°	1444.5	545.9	562.6	603.1	631.5	632.4	566.8	526.3	516.1	516.6
2634.4	45°	1381.7	544.5	570.1	603.1	615.7	546.3	502.1	491.4	492.4	496.1
2659.1	47.5°	1311.4	538.9	571.5	594.7	570.1	485.8	472.8	468.2	466.3	467.2
2653.5	50°	1234.6	518.9	553.8	578.0	491.9	459.8	443.5	442.1	444.4	445.8
2622.3	52.5°	1153.6	486.3	523.5	547.7	456.1	437.0	418.8	422.1	432.3	435.6
2589.7	55°	1100.6	448.1	483.5	487.2	430.9	415.6	400.2	407.7	426.7	432.8
2570.2	57.5°	1086.6	407.7	437.9	433.7	398.8	397.0	387.6	394.2	418.4	427.2
2569.3	60°	1082.4	371.4	393.2	390.0	367.6	376.5	374.2	377.4	385.8	388.6
2560.0	62.5°	1049.9	342.5	353.2	348.6	339.7	355.1	360.7	353.7	360.2	363.4
2496.2	65°	967.0	319.2	314.1	310.9	314.6	328.5	339.7	325.8	331.8	341.1
2250.5	67.5°	830.2	287.6	273.6	277.4	289.0	296.4	310.9	295.0	300.2	316.0
1812.6	70°	671.5	247.6	235.0	245.7	256.9	272.2	274.6	263.9	276.0	293.6
1106.2	72.5°	475.1	207.1	198.2	220.1	223.8	243.8	238.7	233.6	250.4	256.4
546.8	75°	329.5	167.1	161.9	178.7	192.2	209.4	205.7	211.7	247.1	249.9
273.2	77.5°	208.5	129.8	126.6	137.3	155.9	175.0	181.0	249.9	422.1	438.8
141.9	80°	121.0	96.8	93.1	101.4	117.7	135.4	174.5	306.7	278.3	275.0
63.8	82.5°	67.5	66.5	61.9	64.2	78.6	97.7	246.6	215.9	175.4	181.0
25.6	85°	31.6	39.1	33.5	32.1	44.2	114.5	164.7	123.3	81.9	80.0
5.6	87.5°	8.4	7.4	7.4	8.4	18.6	98.7	65.6	52.6	31.2	30.2
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

