

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: P947857

Luminaire Tested: **GALN-SB3A-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947857
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-SB3A-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12299 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

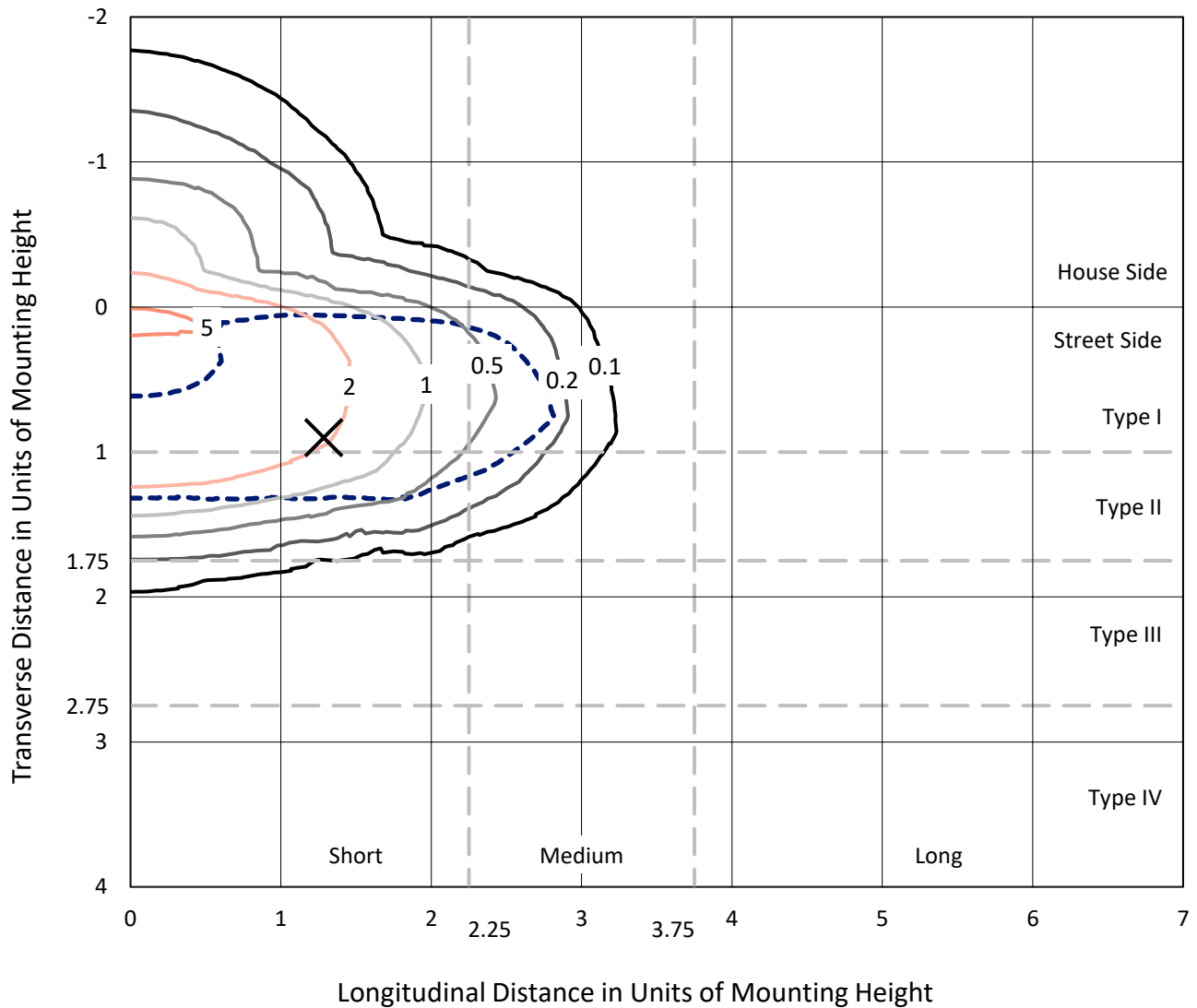
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947857
 CATALOG NUMBER: GALN-SB3A-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

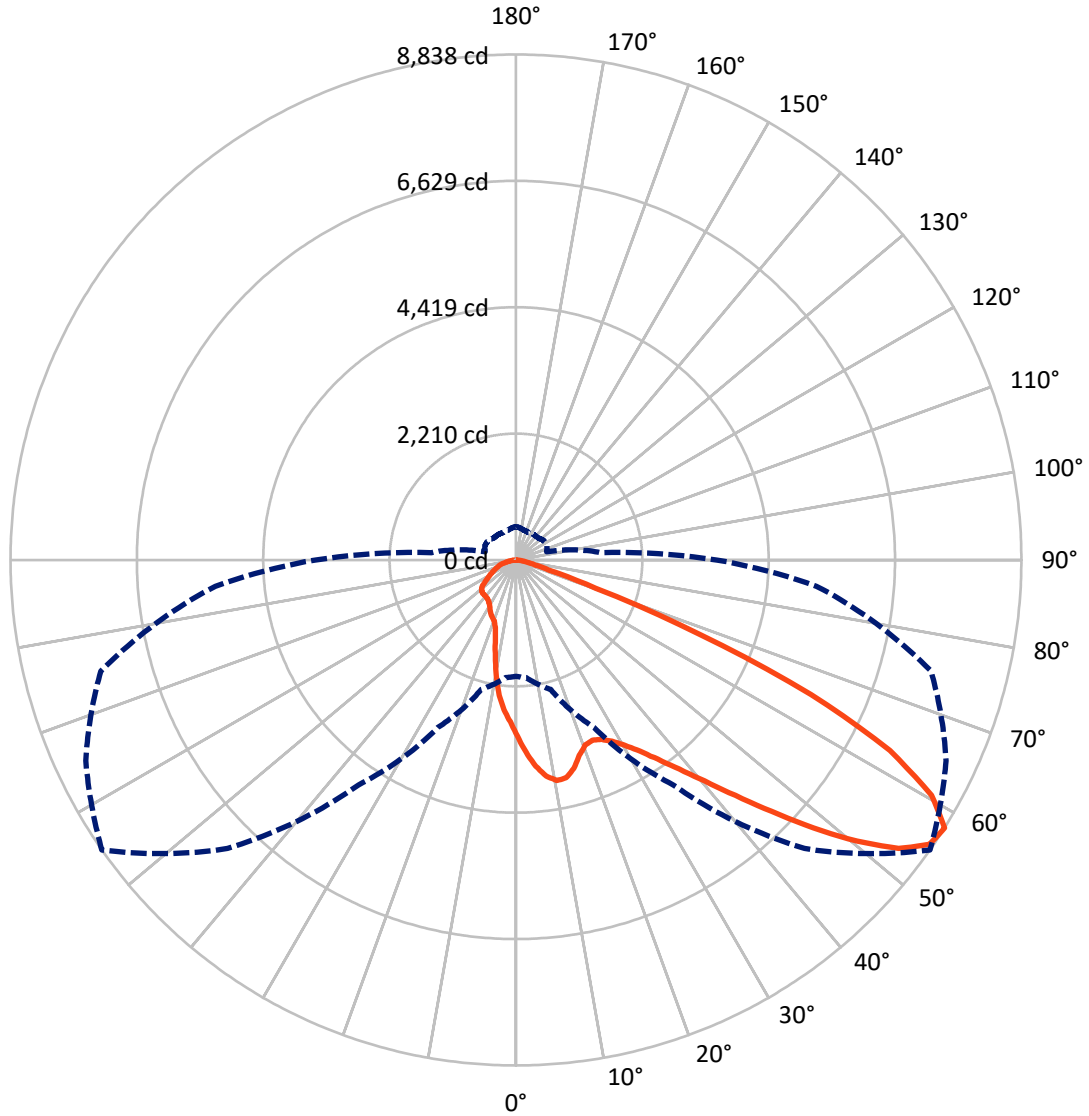
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

REPORT NUMBER: P947857
CATALOG NUMBER: GALN-SB3A-830-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P947857

CATALOG NUMBER: GALN-SB3A-830-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.5	0.0	2225.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10073.6	0.0	10073.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	12299.0	0.0	12299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.0	2.3
10°-20°	721.8	5.9
20°-30°	1151.8	9.4
30°-40°	1823.5	14.8
40°-50°	2791.1	22.7
50°-60°	2989.6	24.3
60°-70°	1880.7	15.3
70°-80°	556.2	4.5
80°-90°	98.3	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°	12299.0	100.0
0°-180°	12299.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947857

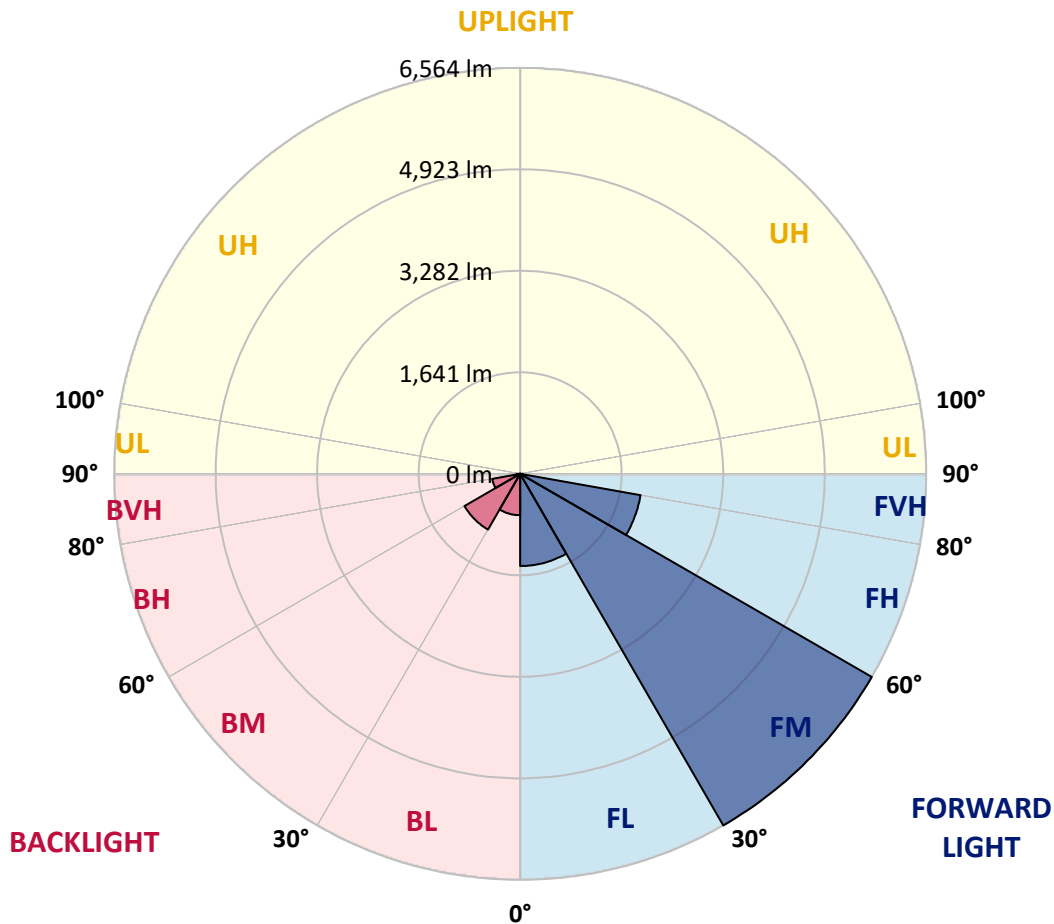
CATALOG NUMBER: GALN-SB3A-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.6	12.1			
FM (30°-60°)	6564.1	53.4			
FH (60°-80°)	1977.3	16.1			G2/5000
FVH (80°-90°)	41.5	0.3			G1/100
BL (0°-30°)	668.9	5.4	B2/1000		
BM (30°-60°)	1040.2	8.5	B2/2500		
BH (60°-80°)	459.6	3.7	B1/500		G1/500
BVH (80°-90°)	56.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P947857

CATALOG NUMBER: GALN-SB3A-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7
2.5°	3535.7	3533.1	3547.1	3499.5	3467.0	3423.2	3365.3	3291.5	3212.1	3128.1
5°	3854.2	3832.0	3846.6	3811.0	3775.4	3709.3	3623.4	3503.3	3356.4	3189.2
7.5°	3804.0	3788.7	3826.3	3858.0	3884.7	3876.5	3813.5	3687.6	3498.2	3255.3
10°	3399.0	3381.8	3434.6	3544.6	3706.1	3846.6	3922.9	3844.7	3643.1	3327.8
12.5°	3041.7	3033.4	3068.4	3157.4	3336.7	3606.3	3908.9	3982.0	3793.8	3413.6
15°	2889.1	2878.9	2901.2	2946.3	3060.7	3311.9	3781.7	4076.1	3942.0	3512.8
17.5°	2855.4	2843.9	2853.5	2877.0	2950.8	3142.1	3589.7	4122.5	4096.5	3623.4
20°	2917.7	2908.2	2909.4	2908.2	2959.7	3111.6	3456.2	4104.7	4231.3	3725.2
22.5°	3068.4	3052.5	3053.1	3019.4	3047.4	3165.0	3421.2	4057.0	4351.4	3814.2
25°	3313.8	3285.2	3290.9	3205.1	3197.4	3284.6	3475.9	4020.2	4471.0	3885.4
27.5°	3649.5	3617.1	3599.9	3472.1	3411.1	3454.3	3587.2	4032.9	4584.1	3947.1
30°	4069.1	4029.7	3994.7	3813.5	3702.9	3687.0	3760.1	4116.8	4717.6	4011.9
32.5°	4583.5	4537.7	4474.1	4233.8	4078.0	3994.7	3983.9	4266.2	4874.1	4094.6
35°	5195.8	5136.0	5045.7	4734.8	4537.7	4367.3	4278.9	4481.8	5088.3	4219.2
37.5°	5826.5	5759.1	5676.4	5306.4	5064.2	4813.0	4638.8	4774.2	5373.8	4388.3
40°	6408.2	6332.6	6255.7	5926.3	5666.3	5363.6	5079.4	5144.3	5722.8	4590.5
42.5°	6751.6	6695.6	6666.4	6488.4	6287.4	5980.3	5627.5	5583.0	6115.1	4823.2
45°	6736.3	6713.4	6803.7	6877.5	6829.8	6659.4	6269.6	6068.1	6508.7	5024.7
47.5°	6376.5	6391.7	6593.3	7007.8	7190.3	7279.3	7000.8	6544.3	6850.8	5175.4
50°	5397.3	5410.0	5876.7	6770.7	7283.1	7784.8	7726.3	7009.1	7115.9	5267.6
52.5°	4622.3	4630.5	4830.8	6067.5	6976.7	8039.1	8379.9	7447.1	7309.8	5293.0
55°	3481.6	3510.3	3734.7	4760.2	6179.4	7837.5	8777.9	7898.6	7432.5	5295.6
57.5°	2033.9	2065.1	2342.3	3231.1	4802.8	7135.0	8838.3	8299.1	7515.8	5275.2
60°	996.3	1009.7	1130.5	1698.2	2961.6	5781.3	8352.5	8493.0	7562.2	5264.4
62.5°	671.4	669.5	674.6	838.0	1459.2	3714.4	7340.3	8153.5	7537.4	5223.1
65°	577.3	570.3	551.2	588.1	756.0	1698.9	5671.3	7140.1	7348.6	5119.5
67.5°	499.1	499.7	500.4	488.9	539.8	783.9	3465.8	5624.3	6670.8	4628.6
70°	413.3	419.0	421.5	421.5	440.0	514.4	1479.5	3854.9	5261.9	3629.2
72.5°	376.4	364.3	365.6	359.2	359.2	391.7	595.7	2185.2	3315.1	2041.6
75°	307.1	314.7	316.0	311.5	296.9	298.8	353.5	916.8	1418.5	846.9
77.5°	265.1	265.1	267.7	264.5	253.0	223.8	235.9	355.4	482.6	347.1
80°	213.0	212.4	223.2	229.5	211.7	165.3	150.7	196.5	214.3	152.6
82.5°	103.6	110.0	153.2	174.8	160.9	119.5	92.2	122.1	114.4	67.4
85°	60.4	57.2	68.7	97.3	92.2	66.1	44.5	63.6	59.8	34.3
87.5°	19.1	17.8	14.0	33.1	26.7	18.4	12.1	18.4	16.5	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947857
 CATALOG NUMBER: GALN-SB3A-830-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3081.7	0°	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7	3081.7
3091.9	2.5°	3046.8	2971.7	2897.3	2829.3	2788.0	2761.3	2734.6	2704.7	2693.3	2676.1
3100.2	5°	3016.2	2871.3	2742.2	2630.9	2529.9	2450.4	2370.3	2305.4	2276.2	2295.9
3126.2	7.5°	2998.4	2788.6	2589.6	2385.5	2189.1	2032.0	1895.3	1799.3	1756.1	1766.9
3151.7	10°	2982.5	2695.2	2391.9	2069.5	1787.2	1592.7	1452.8	1379.7	1352.3	1358.1
3186.0	12.5°	2967.9	2590.3	2153.5	1729.4	1429.3	1300.9	1260.8	1261.4	1266.5	1270.3
3240.7	15°	2965.4	2463.7	1887.1	1431.8	1236.0	1227.7	1271.0	1298.3	1312.9	1317.4
3286.5	17.5°	2961.6	2312.4	1615.6	1229.0	1188.9	1244.9	1285.0	1302.8	1314.2	1314.8
3331.0	20°	2946.3	2120.4	1365.1	1132.4	1178.8	1227.1	1251.9	1265.9	1275.4	1278.6
3364.7	22.5°	2899.3	1906.8	1169.9	1089.1	1138.1	1176.9	1206.1	1222.0	1227.7	1231.5
3371.0	25°	2814.7	1667.7	1035.1	1047.8	1081.5	1130.5	1154.0	1157.2	1155.3	1161.0
3355.1	27.5°	2704.1	1411.5	951.2	991.9	1035.1	1077.0	1089.8	1087.9	1084.0	1090.4
3327.8	30°	2570.5	1181.3	897.8	928.9	988.0	1026.2	1037.6	1033.2	1025.5	1032.5
3313.8	32.5°	2429.4	993.1	853.9	885.0	949.3	986.8	998.2	993.8	988.0	993.8
3329.7	35°	2297.8	861.5	813.2	855.8	918.7	955.6	970.2	970.9	970.9	977.9
3371.7	37.5°	2177.0	784.6	779.5	837.4	897.8	930.8	951.8	953.1	925.7	927.6
3442.9	40°	2065.1	752.2	764.2	825.3	877.4	909.2	910.5	839.3	789.0	787.8
3524.2	42.5°	1973.5	745.8	768.7	824.0	862.8	864.1	774.4	719.1	705.1	705.7
3599.3	45°	1887.7	743.9	778.9	824.0	841.2	746.4	686.0	671.4	672.7	677.8
3633.0	47.5°	1791.7	736.3	780.8	812.6	778.9	663.8	646.0	639.6	637.1	638.3
3625.3	50°	1686.8	708.9	756.6	789.7	672.0	628.2	605.9	604.0	607.2	609.1
3582.7	52.5°	1576.2	664.4	715.3	748.3	623.1	597.0	572.2	576.7	590.7	595.1
3538.2	55°	1503.7	612.3	660.6	665.7	588.8	567.8	546.8	557.0	583.0	591.3
3511.5	57.5°	1484.6	557.0	598.3	592.6	544.9	542.3	529.6	538.5	571.6	583.7
3510.3	60°	1478.9	507.4	537.3	532.8	502.3	514.4	511.2	515.6	527.1	530.9
3497.5	62.5°	1434.4	467.9	482.6	476.2	464.1	485.1	492.7	483.2	492.1	496.6
3410.4	65°	1321.2	436.2	429.2	424.7	429.8	448.9	464.1	445.1	453.3	466.0
3074.7	67.5°	1134.3	392.9	373.9	378.9	394.8	405.0	424.7	403.1	410.1	431.7
2476.4	70°	917.5	338.2	321.1	335.7	351.0	371.9	375.1	360.5	377.0	401.2
1511.3	72.5°	649.2	282.9	270.9	300.7	305.8	333.2	326.2	319.2	342.1	350.3
747.1	75°	450.1	228.3	221.3	244.1	262.6	286.1	281.0	289.3	337.6	341.4
373.2	77.5°	284.8	177.4	172.9	187.6	213.0	239.1	247.3	341.4	576.7	599.6
193.9	80°	165.3	132.2	127.2	138.6	160.9	185.0	238.4	419.0	380.2	375.8
87.1	82.5°	92.2	90.9	84.6	87.7	107.5	133.5	337.0	295.0	239.7	247.3
35.0	85°	43.2	53.4	45.8	43.9	60.4	156.4	225.1	168.5	111.9	109.4
7.6	87.5°	11.4	10.2	10.2	11.4	25.4	134.8	89.6	71.8	42.6	41.3
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

