

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: P954178

Luminaire Tested: **GALN-SB7C-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954178
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-SB7C-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54167 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

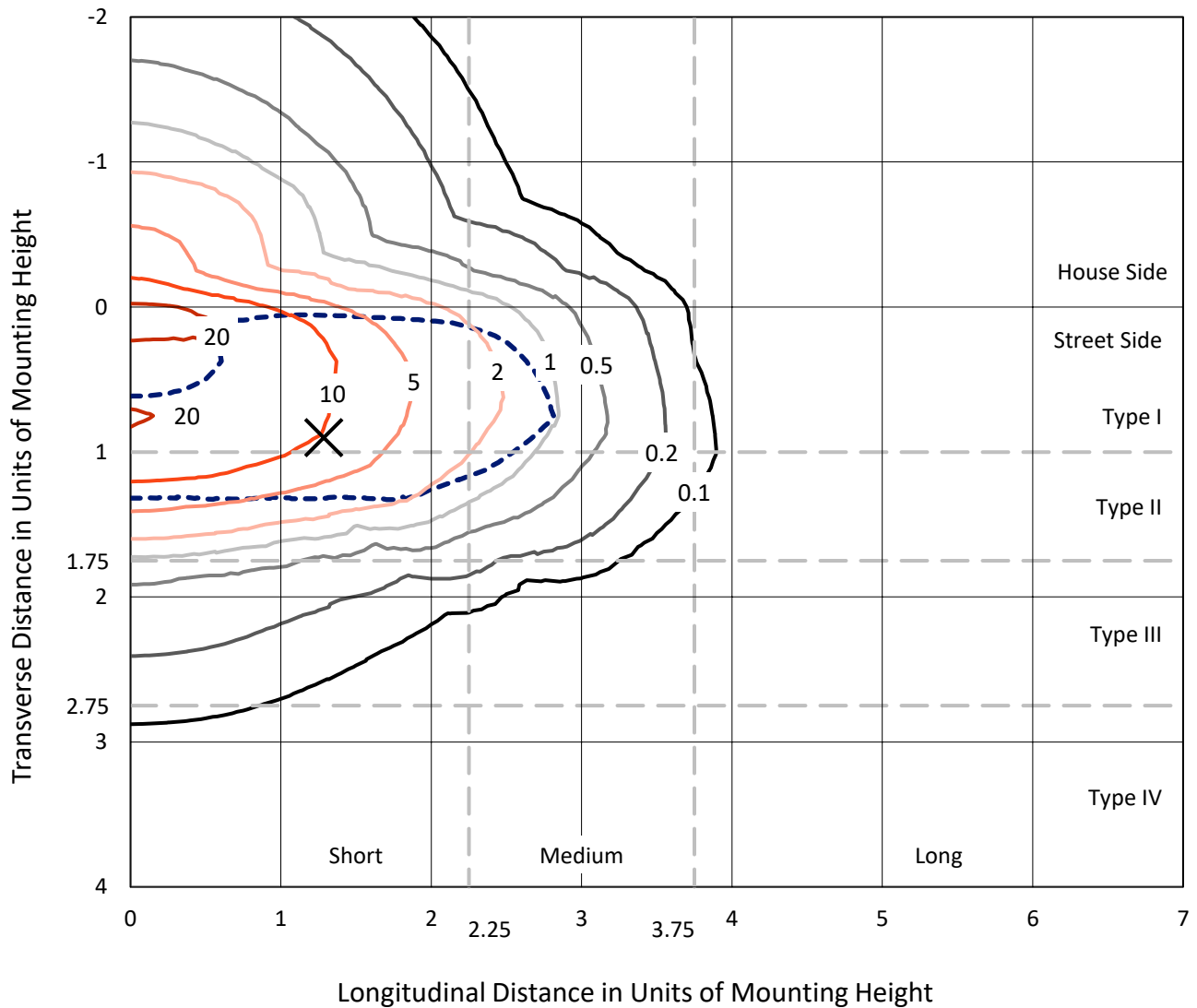
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954178
 CATALOG NUMBER: GALN-SB7C-735-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

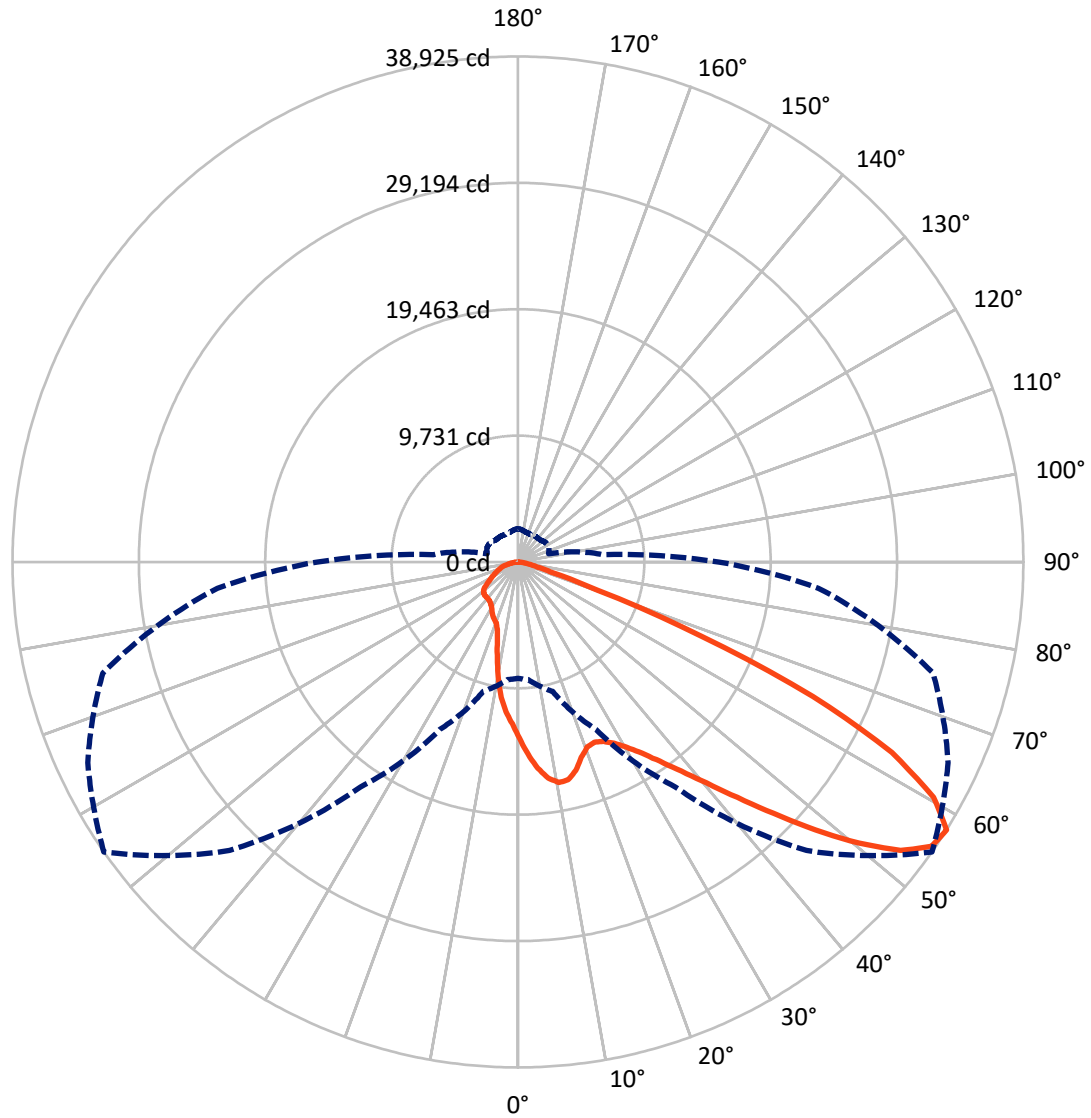
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.2 fc
 Type II - Short - N/A

REPORT NUMBER: P954178
CATALOG NUMBER: GALN-SB7C-735-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P954178
 CATALOG NUMBER: GALN-SB7C-735-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9801.2	0.0	9801.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	44365.7	0.0	44365.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	54167.0	0.0	54167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.4	2.3
10°-20°	3178.9	5.9
20°-30°	5072.6	9.4
30°-40°	8031.2	14.8
40°-50°	12292.6	22.7
50°-60°	13166.5	24.3
60°-70°	8283.1	15.3
70°-80°	2449.5	4.5
80°-90°	433.1	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°	54167.0	100.0
0°-180°	54167.0	100.0

Coefficient of Utilization

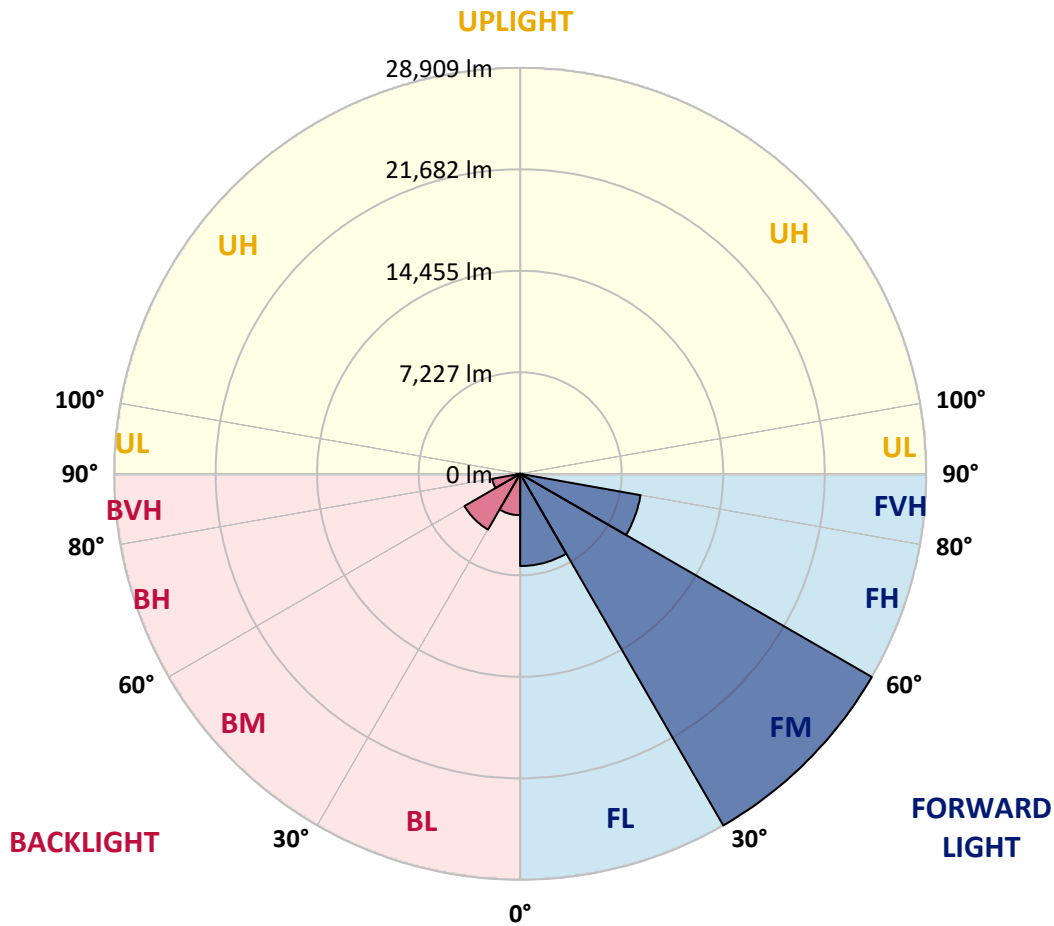


REPORT NUMBER: P954178
 CATALOG NUMBER: GALN-SB7C-735-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6565.0	12.1			
FM (30°-60°)	28909.3	53.4			
FH (60°-80°)	8708.4	16.1			G4/12000
FVH (80°-90°)	183.0	0.3			G2/225
BL (0°-30°)	2945.9	5.4	B4/5000		
BM (30°-60°)	4581.0	8.5	B3/5000		
BH (60°-80°)	2024.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	250.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



REPORT NUMBER: P954178
 CATALOG NUMBER: GALN-SB7C-735-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5
2.5°	15571.8	15560.6	15622.2	15412.2	15269.4	15076.2	14821.4	14496.6	14146.5	13776.9
5°	16974.7	16876.7	16941.1	16784.3	16627.5	16336.3	15958.2	15429.0	14782.2	14045.7
7.5°	16753.5	16686.3	16851.5	16991.5	17109.1	17072.7	16795.5	16241.1	15406.6	14336.9
10°	14969.8	14894.2	15126.6	15611.0	16322.3	16941.1	17277.1	16932.7	16045.1	14656.2
12.5°	13396.1	13359.7	13513.7	13905.7	14695.4	15882.6	17215.5	17537.6	16708.7	15034.2
15°	12724.0	12679.2	12777.2	12976.1	13480.1	14586.2	16655.5	17952.0	17361.1	15471.0
17.5°	12575.6	12525.2	12567.2	12670.8	12995.7	13838.5	15809.8	18156.4	18041.6	15958.2
20°	12850.0	12808.0	12813.6	12808.0	13034.9	13704.1	15221.8	18078.0	18635.2	16406.3
22.5°	13513.7	13443.7	13446.5	13298.1	13421.3	13939.3	15067.8	17868.0	19164.5	16798.3
25°	14594.6	14468.6	14493.8	14115.7	14082.1	14465.8	15308.6	17705.6	19690.9	17111.9
27.5°	16073.1	15930.2	15854.6	15291.8	15023.0	15213.4	15798.6	17761.6	20189.3	17383.5
30°	17921.2	17747.6	17593.6	16795.5	16308.3	16238.3	16560.3	18131.2	20777.4	17669.2
32.5°	20186.5	19984.9	19704.9	18646.4	17960.4	17593.6	17546.0	18789.2	21466.2	18033.2
35°	22883.1	22619.9	22222.3	20853.0	19984.9	19234.5	18845.2	19738.5	22409.9	18582.0
37.5°	25660.9	25364.1	25000.0	23370.3	22303.5	21197.4	20430.1	21026.6	23667.2	19326.9
40°	28223.1	27889.8	27551.0	26100.5	24955.2	23622.4	22370.7	22656.3	25204.5	20217.3
42.5°	29735.2	29488.7	29359.9	28575.9	27691.0	26338.5	24784.4	24588.4	26932.2	21242.2
45°	29667.9	29567.1	29964.8	30289.6	30079.6	29329.1	27612.6	26725.0	28665.5	22129.9
47.5°	28083.0	28150.3	29037.9	30863.6	31667.3	32059.3	30832.8	28822.3	30172.0	22793.5
50°	23770.8	23826.8	25882.1	29819.2	32076.1	34285.5	34027.8	30869.2	31339.7	23199.5
52.5°	20357.3	20393.7	21275.8	26722.2	30726.4	35405.5	36906.4	32798.6	32193.7	23311.5
55°	15333.8	15459.8	16448.3	20965.0	27215.0	34517.9	38659.3	34786.7	32734.2	23322.7
57.5°	8957.8	9095.0	10315.9	14230.5	21152.6	31423.7	38925.4	36550.8	33101.0	23233.1
60°	4387.9	4446.7	4978.7	7479.3	13043.3	25462.1	36786.0	37404.9	33305.4	23185.5
62.5°	2957.0	2948.6	2971.0	3690.6	6426.4	16358.7	32328.1	35909.6	33196.2	23003.5
65°	2542.6	2511.8	2427.8	2590.2	3329.4	7482.1	24977.6	31446.1	32364.5	22547.1
67.5°	2198.1	2200.9	2203.7	2153.3	2377.4	3452.6	15263.8	24770.4	29379.5	20385.3
70°	1820.1	1845.3	1856.5	1856.5	1937.7	2265.3	6516.0	16977.5	23174.3	15983.5
72.5°	1657.7	1604.5	1610.1	1582.1	1582.1	1724.9	2623.8	9624.2	14600.2	8991.4
75°	1352.5	1386.1	1391.7	1372.1	1307.7	1316.1	1556.9	4037.9	6247.2	3729.8
77.5°	1167.7	1167.7	1178.9	1164.9	1114.5	985.7	1038.9	1565.3	2125.3	1528.9
80°	938.1	935.3	982.9	1010.9	932.5	728.0	663.6	865.3	943.7	672.0
82.5°	456.4	484.4	674.8	770.1	708.4	526.4	406.0	537.6	504.0	296.8
85°	266.0	252.0	302.4	428.4	406.0	291.2	196.0	280.0	263.2	151.2
87.5°	84.0	78.4	61.6	145.6	117.6	81.2	53.2	81.2	72.8	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954178
 CATALOG NUMBER: GALN-SB7C-735-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
13572.5	0°	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5	13572.5
13617.3	2.5°	13418.5	13088.1	12760.4	12460.8	12278.8	12161.2	12043.6	11912.0	11861.6	11786.0
13653.7	5°	13284.1	12645.6	12077.2	11587.2	11141.9	10791.9	10439.1	10153.5	10024.7	10111.5
13768.5	7.5°	13205.7	12281.6	11405.1	10506.3	9641.0	8949.4	8347.3	7924.5	7734.1	7781.7
13880.5	10°	13135.7	11870.0	10534.3	9114.6	7871.3	7014.5	6398.4	6076.4	5956.0	5981.2
14031.7	12.5°	13071.3	11407.9	9484.2	7616.5	6294.8	5729.2	5552.8	5555.6	5578.0	5594.8
14272.5	15°	13060.1	10850.7	8310.9	6306.0	5443.6	5407.2	5597.6	5718.0	5782.4	5802.0
14474.2	17.5°	13043.3	10184.3	7115.3	5412.8	5236.3	5482.8	5659.2	5737.6	5788.0	5790.8
14670.2	20°	12976.1	9338.6	6012.0	4987.1	5191.5	5404.4	5513.6	5575.2	5617.2	5631.2
14818.6	22.5°	12768.8	8397.8	5152.3	4796.7	5012.3	5183.1	5311.9	5382.0	5407.2	5424.0
14846.6	25°	12396.4	7344.9	4558.7	4614.7	4763.1	4978.7	5082.3	5096.3	5087.9	5113.1
14776.6	27.5°	11909.2	6216.4	4189.1	4368.3	4558.7	4743.5	4799.5	4791.1	4774.3	4802.3
14656.2	30°	11321.1	5202.7	3953.9	4091.1	4351.5	4519.5	4569.9	4550.3	4516.7	4547.5
14594.6	32.5°	10699.5	4373.9	3760.6	3897.9	4180.7	4345.9	4396.3	4376.7	4351.5	4376.7
14664.6	35°	10119.9	3794.2	3581.4	3769.0	4046.3	4208.7	4273.1	4275.9	4275.9	4306.7
14849.4	37.5°	9587.8	3455.4	3433.0	3687.8	3953.9	4099.5	4191.9	4197.5	4077.1	4085.5
15163.0	40°	9095.0	3312.6	3365.8	3634.6	3864.3	4004.3	4009.9	3696.2	3475.0	3469.4
15521.4	42.5°	8691.8	3284.6	3385.4	3629.0	3799.8	3805.5	3410.6	3167.0	3105.4	3108.2
15851.8	45°	8313.7	3276.2	3430.2	3629.0	3704.6	3287.4	3021.4	2957.0	2962.6	2985.0
16000.3	47.5°	7890.9	3242.6	3438.6	3578.6	3430.2	2923.4	2845.0	2817.0	2805.8	2811.4
15966.6	50°	7428.9	3122.2	3332.2	3477.8	2959.8	2766.6	2668.6	2660.2	2674.2	2682.6
15779.0	52.5°	6941.7	2926.2	3150.2	3295.8	2744.2	2629.4	2520.2	2539.8	2601.4	2621.0
15583.0	55°	6622.4	2696.6	2909.4	2931.8	2593.0	2500.6	2408.2	2453.0	2567.8	2604.2
15465.4	57.5°	6538.4	2453.0	2635.0	2609.8	2399.8	2388.6	2332.6	2371.8	2517.4	2570.6
15459.8	60°	6513.2	2234.5	2366.2	2346.6	2212.1	2265.3	2251.3	2270.9	2321.4	2338.2
15403.8	62.5°	6317.2	2060.9	2125.3	2097.3	2044.1	2136.5	2170.1	2128.1	2167.3	2186.9
15020.2	65°	5818.8	1920.9	1890.1	1870.5	1892.9	1976.9	2044.1	1960.1	1996.5	2052.5
13541.7	67.5°	4995.5	1730.5	1646.5	1668.9	1738.9	1783.7	1870.5	1775.3	1806.1	1901.3
10906.7	70°	4040.7	1489.7	1414.1	1478.5	1545.7	1638.1	1652.1	1587.7	1660.5	1766.9
6656.0	72.5°	2859.0	1246.1	1192.9	1324.5	1346.9	1467.3	1436.5	1405.7	1506.5	1542.9
3290.2	75°	1982.5	1005.3	974.5	1075.3	1156.5	1260.1	1237.7	1274.1	1486.9	1503.7
1643.7	77.5°	1254.5	781.3	761.7	826.1	938.1	1052.9	1089.3	1503.7	2539.8	2640.6
854.1	80°	728.0	582.4	560.0	610.4	708.4	814.9	1050.1	1845.3	1674.5	1654.9
383.6	82.5°	406.0	400.4	372.4	386.4	473.2	588.0	1484.1	1299.3	1055.7	1089.3
154.0	85°	190.4	235.2	201.6	193.2	266.0	688.8	991.3	742.0	492.8	481.6
33.6	87.5°	50.4	44.8	44.8	50.4	112.0	593.6	394.8	316.4	187.6	182.0
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

