

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: P954430

Luminaire Tested: **GALN-SB7C-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954430
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-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39251 lumens
Efficiency: N/A
Efficacy: 112.0 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

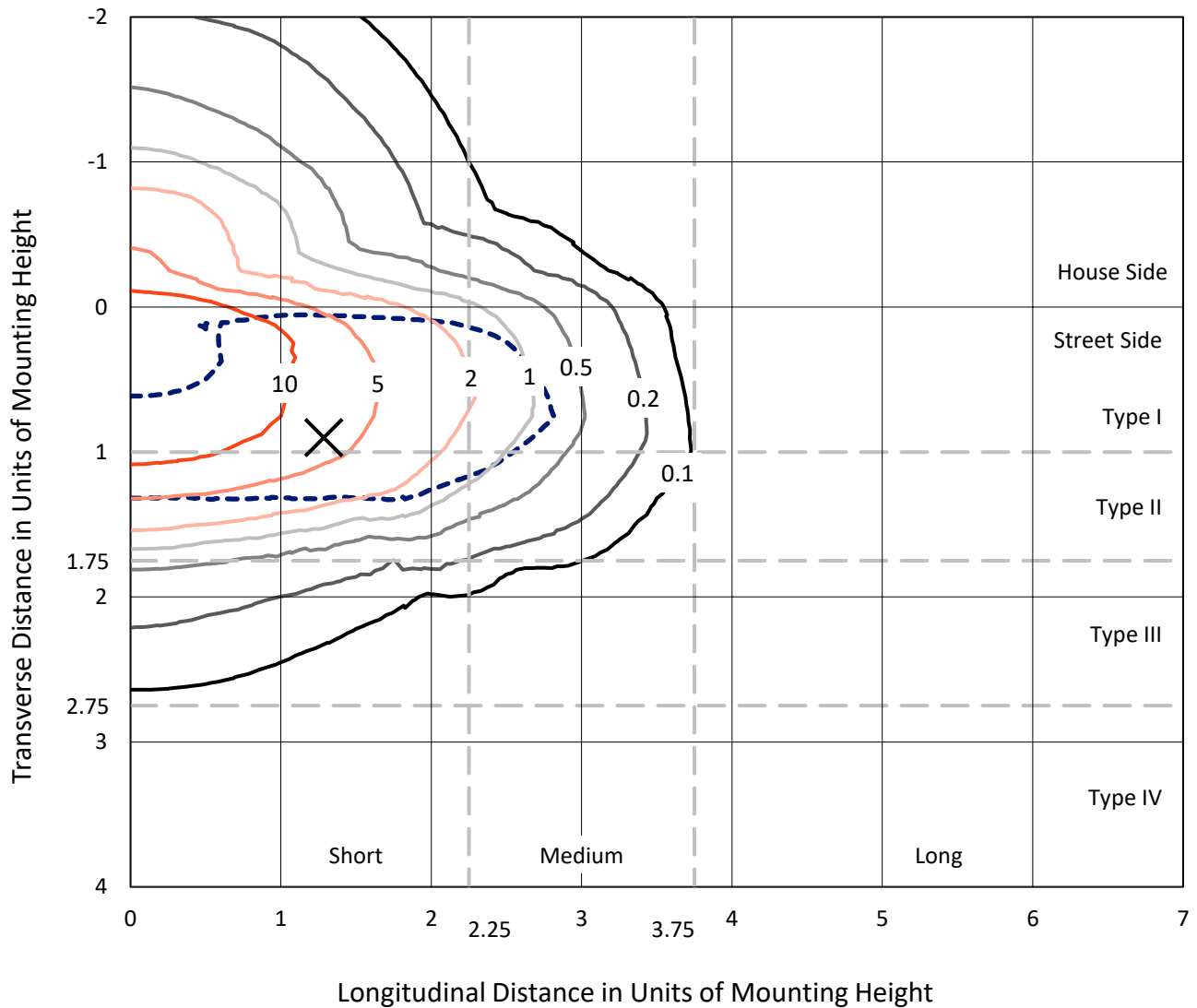
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954430
 CATALOG NUMBER: GALN-SB7C-940-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

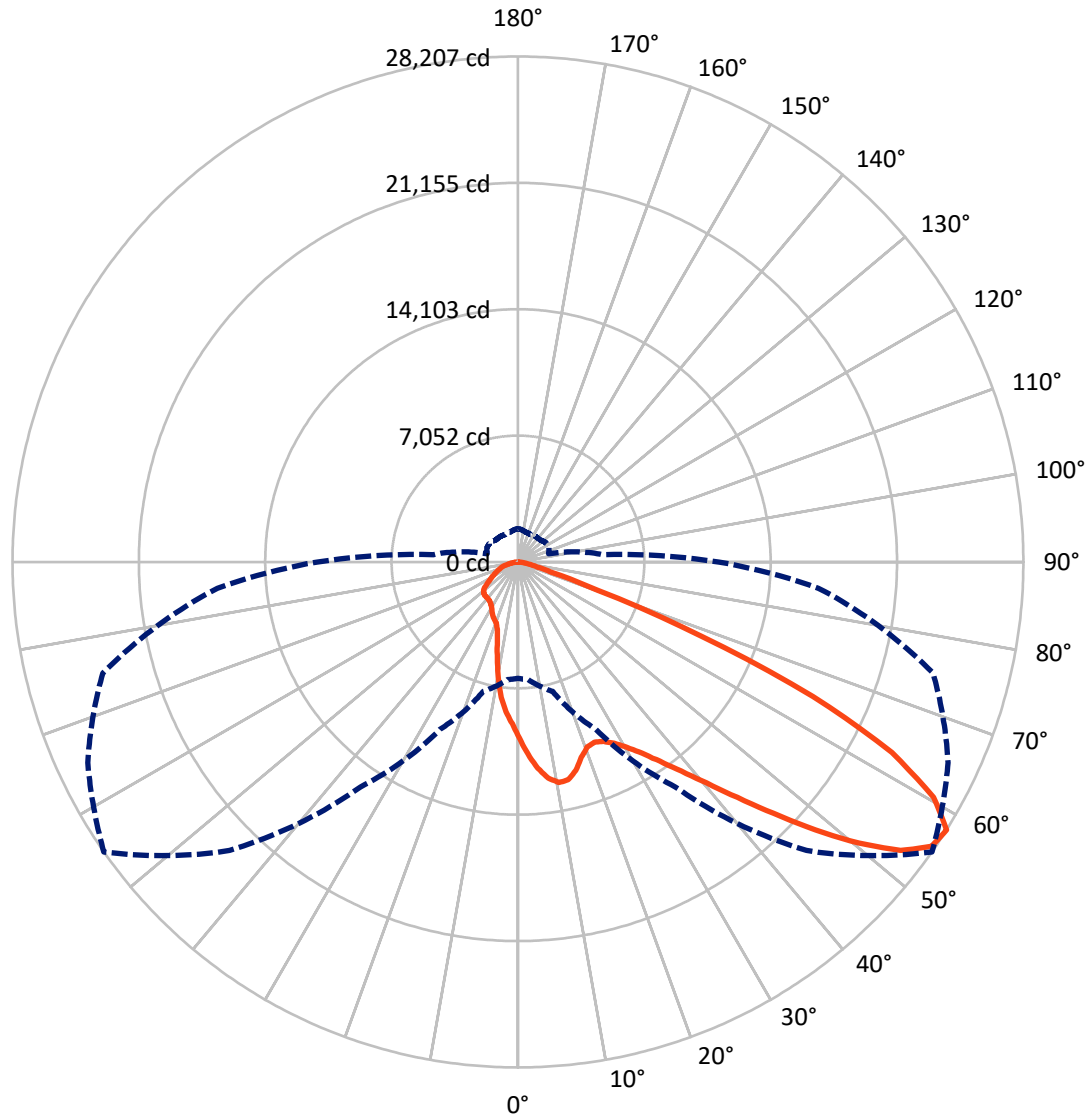
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

REPORT NUMBER: P954430
CATALOG NUMBER: GALN-SB7C-940-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P954430
 CATALOG NUMBER: GALN-SB7C-940-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7102.3	0.0	7102.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32148.7	0.0	32148.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	39251.0	0.0	39251.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.6	2.3
10°-20°	2303.5	5.9
20°-30°	3675.8	9.4
30°-40°	5819.7	14.8
40°-50°	8907.6	22.7
50°-60°	9540.9	24.3
60°-70°	6002.2	15.3
70°-80°	1775.0	4.5
80°-90°	313.8	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°	39251.0	100.0
0°-180°	39251.0	100.0



REPORT NUMBER: P954430

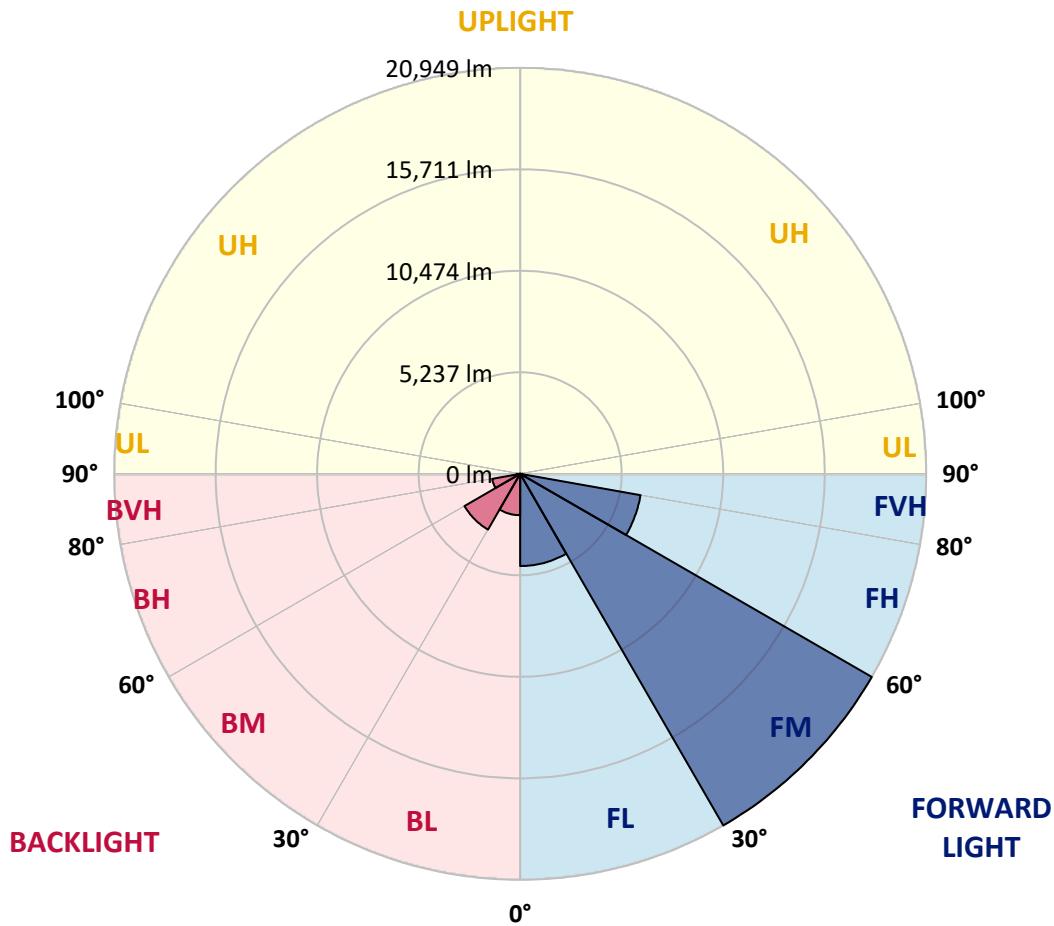
CATALOG NUMBER: GALN-SB7C-940-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4757.2	12.1			
FM (30°-60°)	20948.5	53.4			
FH (60°-80°)	6310.4	16.1			G3/7500
FVH (80°-90°)	132.6	0.3			G2/225
BL (0°-30°)	2134.7	5.4	B3/2500		
BM (30°-60°)	3319.5	8.5	B3/5000		
BH (60°-80°)	1466.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	181.2	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: P954430
 CATALOG NUMBER: GALN-SB7C-940-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0
2.5°	11283.8	11275.7	11320.3	11168.1	11064.7	10924.7	10740.0	10504.6	10251.0	9983.2
5°	12300.4	12229.4	12276.0	12162.4	12048.8	11837.7	11563.8	11180.3	10711.6	10177.9
7.5°	12140.1	12091.4	12211.1	12312.6	12397.8	12371.4	12170.5	11768.8	11164.1	10389.0
10°	10847.5	10792.8	10961.2	11312.2	11827.6	12276.0	12519.5	12269.9	11626.7	10620.3
12.5°	9707.2	9680.8	9792.4	10076.5	10648.7	11509.0	12474.9	12708.2	12107.6	10894.2
15°	9220.2	9187.7	9258.8	9402.8	9768.1	10569.6	12069.1	13008.5	12580.4	11210.8
17.5°	9112.7	9076.1	9106.6	9181.7	9417.0	10027.8	11456.3	13156.7	13073.5	11563.8
20°	9311.5	9281.1	9285.1	9281.1	9445.4	9930.4	11030.2	13099.8	13503.6	11888.5
22.5°	9792.4	9741.7	9743.7	9636.2	9725.5	10100.8	10918.6	12947.7	13887.1	12172.5
25°	10575.6	10484.3	10502.6	10228.7	10204.3	10482.3	11093.1	12830.0	14268.6	12399.8
27.5°	11647.0	11543.5	11488.7	11080.9	10886.1	11024.1	11448.2	12870.6	14629.8	12596.6
30°	12986.2	12860.4	12748.8	12170.5	11817.5	11766.7	12000.1	13138.4	15055.9	12803.6
32.5°	14627.8	14481.7	14278.7	13511.7	13014.6	12748.8	12714.3	13615.2	15555.0	13067.4
35°	16581.8	16391.0	16102.9	15110.7	14481.7	13937.9	13655.8	14303.1	16238.9	13465.1
37.5°	18594.6	18379.5	18115.8	16934.8	16161.7	15360.3	14804.3	15236.5	17149.9	14004.8
40°	20451.3	20209.8	19964.3	18913.2	18083.3	17117.5	16210.4	16417.4	18263.9	14650.1
42.5°	21547.0	21368.4	21275.1	20706.9	20065.7	19085.7	17959.5	17817.5	19515.8	15392.7
45°	21498.3	21425.2	21713.4	21948.7	21796.5	21252.7	20008.9	19365.7	20771.9	16035.9
47.5°	20349.8	20398.5	21041.7	22364.7	22947.0	23231.1	22342.4	20885.5	21863.5	16516.8
50°	17225.0	17265.6	18754.9	21607.8	23243.3	24844.2	24657.6	22368.8	22709.6	16811.1
52.5°	14751.5	14777.9	15417.1	19363.7	22265.3	25655.9	26743.5	23766.8	23328.5	16892.2
55°	11111.3	11202.6	11918.9	15191.8	19720.8	25012.7	28013.7	25207.5	23720.1	16900.3
57.5°	6491.1	6590.5	7475.2	10311.9	15327.8	22770.5	28206.5	26485.8	23985.9	16835.4
60°	3179.6	3222.2	3607.7	5419.7	9451.5	18450.6	26656.2	27104.7	24134.1	16800.9
62.5°	2142.7	2136.6	2152.9	2674.3	4656.8	11854.0	23425.9	26021.1	24054.9	16669.0
65°	1842.4	1820.1	1759.2	1876.9	2412.6	5421.7	18099.5	22786.7	23452.3	16338.3
67.5°	1592.8	1594.9	1596.9	1560.4	1722.7	2501.9	11060.6	17949.4	21289.3	14771.8
70°	1318.9	1337.2	1345.3	1345.3	1404.1	1641.5	4721.7	12302.4	16792.8	11582.1
72.5°	1201.2	1162.7	1166.7	1146.4	1146.4	1249.9	1901.3	6974.0	10579.7	6515.4
75°	980.1	1004.4	1008.5	994.3	947.6	953.7	1128.2	2926.0	4526.9	2702.8
77.5°	846.1	846.1	854.2	844.1	807.6	714.2	752.8	1134.3	1540.1	1107.9
80°	679.7	677.7	712.2	732.5	675.7	527.6	480.9	627.0	683.8	487.0
82.5°	330.7	351.0	489.0	558.0	513.4	381.5	294.2	389.6	365.2	215.1
85°	192.8	182.6	219.1	310.5	294.2	211.0	142.0	202.9	190.7	109.6
87.5°	60.9	56.8	44.6	105.5	85.2	58.8	38.6	58.8	52.8	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954430
 CATALOG NUMBER: GALN-SB7C-940-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
9835.0	0°	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0	9835.0
9867.5	2.5°	9723.4	9484.0	9246.6	9029.5	8897.6	8812.4	8727.1	8631.8	8595.2	8540.5
9893.9	5°	9626.0	9163.4	8751.5	8396.4	8073.8	7820.1	7564.5	7357.5	7264.2	7327.1
9977.1	7.5°	9569.2	8899.6	8264.5	7613.2	6986.2	6485.0	6048.7	5742.3	5604.4	5638.9
10058.2	10°	9518.5	8601.3	7633.5	6604.7	5703.8	5082.9	4636.5	4403.1	4315.9	4334.1
10167.8	12.5°	9471.8	8266.5	6872.5	5519.1	4561.4	4151.5	4023.7	4025.7	4042.0	4054.1
10342.3	15°	9463.7	7862.7	6022.4	4569.5	3944.6	3918.2	4056.2	4143.4	4190.1	4204.3
10488.4	17.5°	9451.5	7379.8	5155.9	3922.2	3794.4	3973.0	4100.8	4157.6	4194.1	4196.2
10630.4	20°	9402.8	6767.0	4356.5	3613.8	3761.9	3916.2	3995.3	4039.9	4070.4	4080.5
10738.0	22.5°	9252.7	6085.3	3733.5	3475.8	3632.1	3755.9	3849.2	3899.9	3918.2	3930.4
10758.3	25°	8982.8	5322.3	3303.4	3343.9	3451.5	3607.7	3682.8	3693.0	3686.9	3705.1
10707.5	27.5°	8629.7	4504.6	3035.5	3165.4	3303.4	3437.3	3477.9	3471.8	3459.6	3479.9
10620.3	30°	8203.6	3770.1	2865.1	2964.5	3153.2	3275.0	3311.5	3297.3	3272.9	3295.3
10575.6	32.5°	7753.2	3169.4	2725.1	2824.5	3029.4	3149.2	3185.7	3171.5	3153.2	3171.5
10626.4	35°	7333.2	2749.4	2595.2	2731.2	2932.0	3049.7	3096.4	3098.4	3098.4	3120.7
10760.3	37.5°	6947.6	2503.9	2487.7	2672.3	2865.1	2970.6	3037.6	3041.6	2954.4	2960.5
10987.6	40°	6590.5	2400.4	2439.0	2633.8	2800.2	2901.6	2905.7	2678.4	2518.1	2514.0
11247.3	42.5°	6298.3	2380.1	2453.2	2629.7	2753.5	2757.5	2471.4	2294.9	2250.3	2252.3
11486.7	45°	6024.4	2374.0	2485.6	2629.7	2684.5	2382.2	2189.4	2142.7	2146.8	2163.0
11594.3	47.5°	5718.0	2349.7	2491.7	2593.2	2485.6	2118.4	2061.6	2041.3	2033.2	2037.2
11569.9	50°	5383.2	2262.4	2414.6	2520.1	2144.8	2004.7	1933.7	1927.6	1937.8	1943.9
11434.0	52.5°	5030.1	2120.4	2282.7	2388.2	1988.5	1905.3	1826.2	1840.4	1885.0	1899.2
11291.9	55°	4798.8	1954.0	2108.2	2124.5	1878.9	1812.0	1745.0	1777.5	1860.7	1887.1
11206.7	57.5°	4737.9	1777.5	1909.4	1891.1	1738.9	1730.8	1690.2	1718.6	1824.2	1862.7
11202.6	60°	4719.7	1619.2	1714.6	1700.4	1603.0	1641.5	1631.4	1645.6	1682.1	1694.3
11162.1	62.5°	4577.6	1493.4	1540.1	1519.8	1481.2	1548.2	1572.5	1542.1	1570.5	1584.7
10884.1	65°	4216.5	1392.0	1369.6	1355.4	1371.7	1432.5	1481.2	1420.4	1446.7	1487.3
9812.7	67.5°	3619.9	1254.0	1193.1	1209.3	1260.1	1292.5	1355.4	1286.4	1308.8	1377.8
7903.3	70°	2928.0	1079.5	1024.7	1071.4	1120.1	1187.0	1197.2	1150.5	1203.3	1280.4
4823.2	72.5°	2071.7	902.9	864.4	959.8	976.0	1063.2	1040.9	1018.6	1091.7	1118.0
2384.2	75°	1436.6	728.4	706.1	779.2	838.0	913.1	896.9	923.2	1077.4	1089.6
1191.1	77.5°	909.0	566.1	551.9	598.6	679.7	762.9	789.3	1089.6	1840.4	1913.4
618.9	80°	527.6	422.1	405.8	442.3	513.4	590.5	760.9	1337.2	1213.4	1199.2
278.0	82.5°	294.2	290.2	269.9	280.0	342.9	426.1	1075.4	941.5	765.0	789.3
111.6	85°	138.0	170.4	146.1	140.0	192.8	499.2	718.3	537.7	357.1	349.0
24.3	87.5°	36.5	32.5	32.5	36.5	81.2	430.2	286.1	229.3	135.9	131.9
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

