

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: P955858

Luminaire Tested: **GALN-SB8C-940-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955858  
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-SB8C-940-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

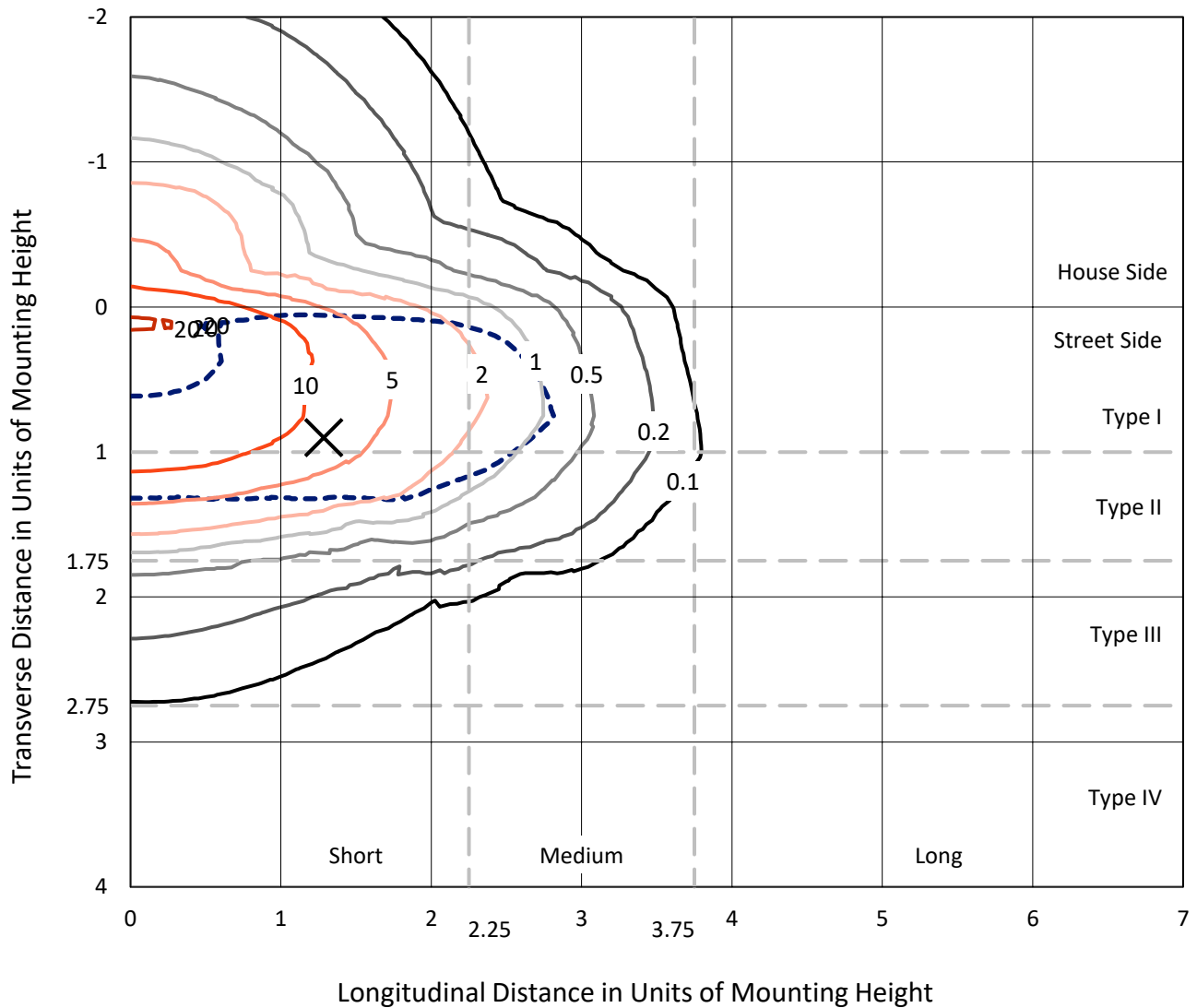
Lumens per Lamp: N/A  
Luminaire Lumens: 44630 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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: P955858  
 CATALOG NUMBER: GALN-SB8C-940-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

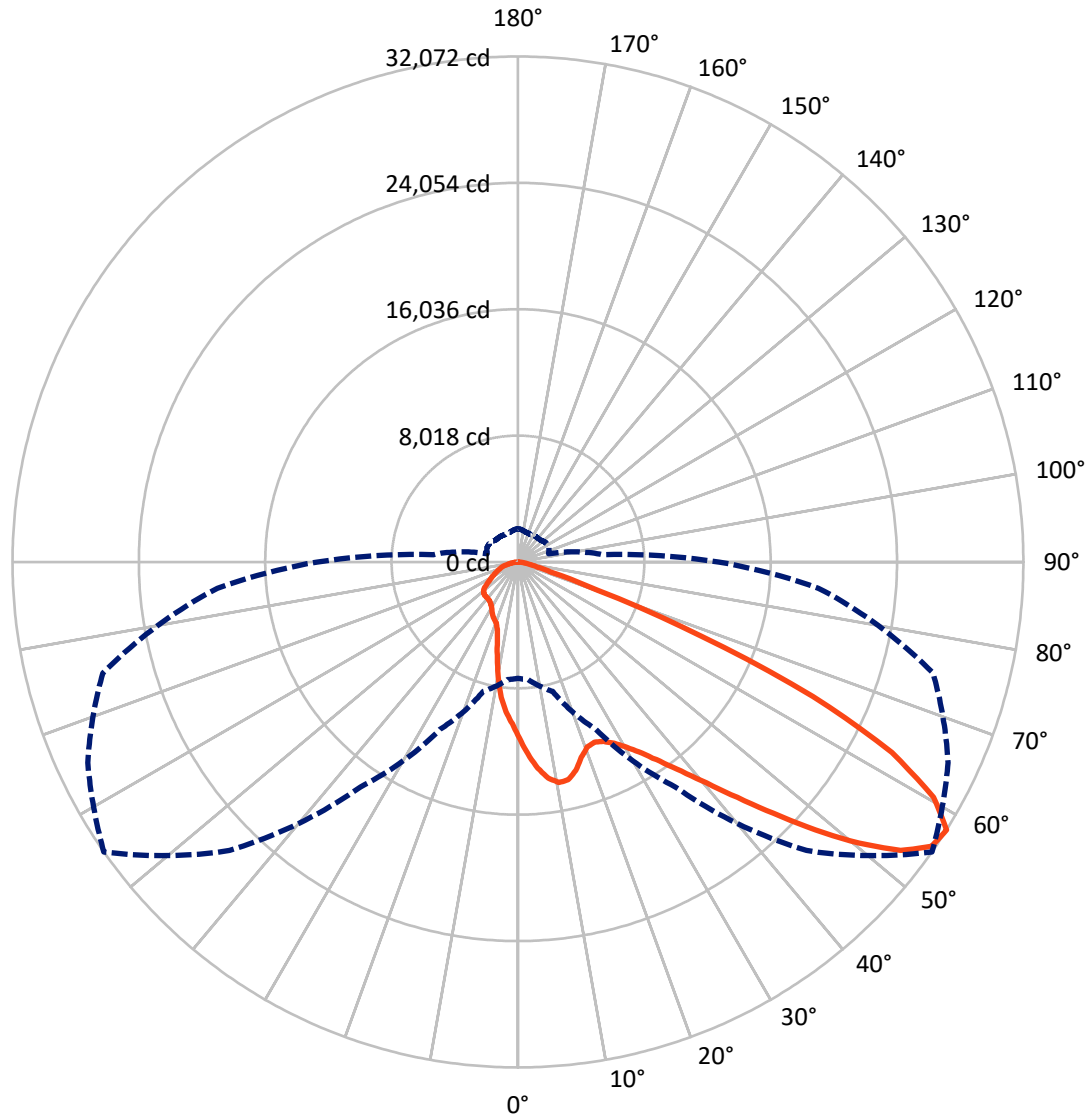
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P955858  
CATALOG NUMBER: GALN-SB8C-940-U-AFL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P955858

CATALOG NUMBER: GALN-SB8C-940-U-AFL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8075.6	0.0	8075.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	36554.4	0.0	36554.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	44630.0	0.0	44630.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1037.7	2.3
10°-20°	2619.2	5.9
20°-30°	4179.5	9.4
30°-40°	6617.2	14.8
40°-50°	10128.3	22.7
50°-60°	10848.3	24.3
60°-70°	6824.7	15.3
70°-80°	2018.2	4.5
80°-90°	356.8	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°	44630.0	100.0
0°-180°	44630.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P955858

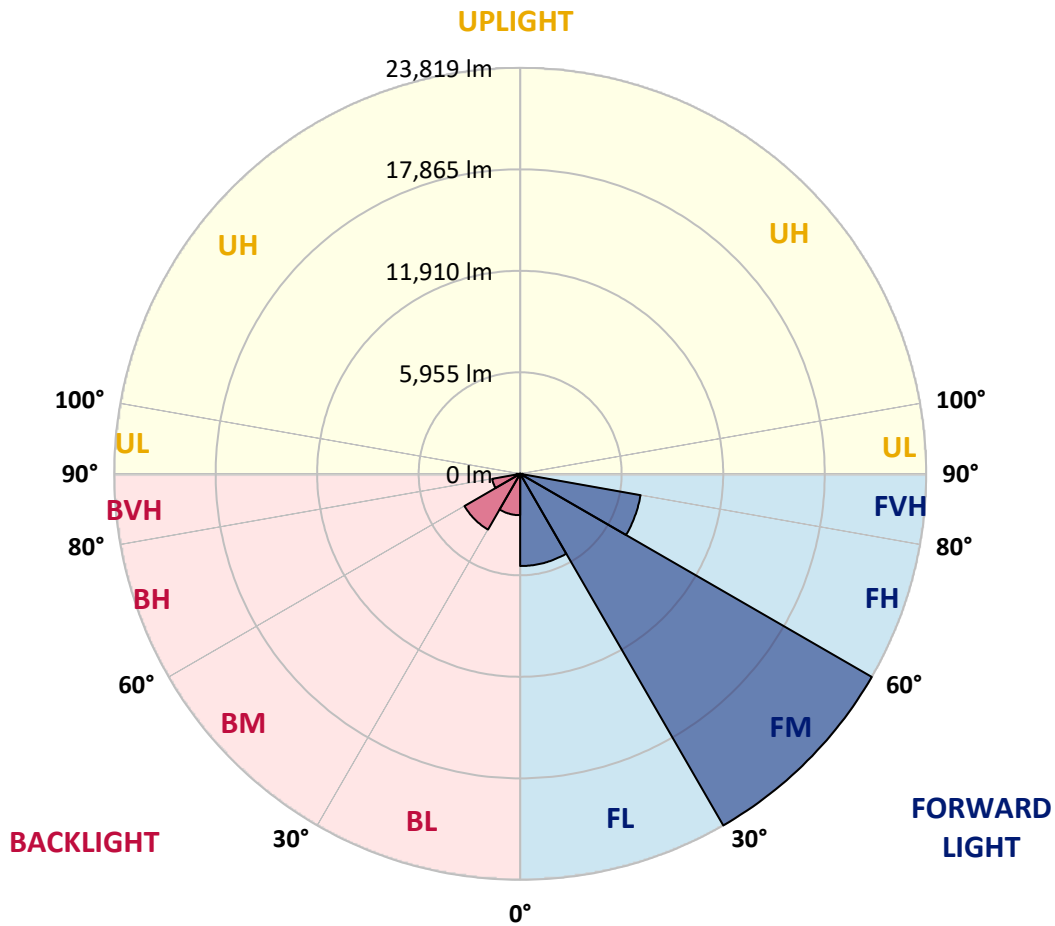
CATALOG NUMBER: GALN-SB8C-940-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5409.2	12.1			
FM (30°-60°)	23819.4	53.4			
FH (60°-80°)	7175.1	16.1			G3/7500
FVH (80°-90°)	150.8	0.3			G2/225
BL (0°-30°)	2427.3	5.4	B3/2500		
BM (30°-60°)	3774.5	8.5	B3/5000		
BH (60°-80°)	1667.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	206.1	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: P955858  
 CATALOG NUMBER: GALN-SB8C-940-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8
2.5°	12830.1	12820.9	12871.7	12698.6	12581.0	12421.8	12211.8	11944.2	11655.8	11351.3
5°	13986.0	13905.3	13958.3	13829.1	13699.9	13460.0	13148.5	12712.5	12179.5	11572.7
7.5°	13803.8	13748.4	13884.5	13999.9	14096.8	14066.8	13838.4	13381.6	12694.0	11812.7
10°	12334.1	12271.8	12463.3	12862.4	13448.5	13958.3	14235.2	13951.4	13220.1	12075.7
12.5°	11037.5	11007.5	11134.4	11457.4	12108.0	13086.2	14184.5	14449.8	13766.9	12387.2
15°	10483.8	10446.8	10527.6	10691.4	11106.7	12018.0	13723.0	14791.2	14304.4	12747.1
17.5°	10361.5	10319.9	10354.6	10439.9	10707.6	11402.0	13026.3	14959.7	14865.1	13148.5
20°	10587.6	10553.0	10557.6	10553.0	10739.9	11291.3	12541.7	14895.1	15354.2	13517.7
22.5°	11134.4	11076.7	11079.0	10956.7	11058.2	11485.1	12414.9	14722.0	15790.2	13840.7
25°	12024.9	11921.1	11941.9	11630.4	11602.7	11918.8	12613.3	14588.2	16224.0	14099.1
27.5°	13243.1	13125.5	13063.2	12599.4	12377.9	12534.8	13017.0	14634.3	16634.7	14322.9
30°	14765.9	14622.8	14495.9	13838.4	13436.9	13379.3	13644.6	14938.9	17119.2	14558.2
32.5°	16632.4	16466.2	16235.5	15363.4	14798.2	14495.9	14456.7	15481.1	17686.7	14858.1
35°	18854.2	18637.3	18309.7	17181.5	16466.2	15847.9	15527.2	16263.2	18464.2	15310.3
37.5°	21142.9	20898.3	20598.4	19255.6	18376.6	17465.2	16833.1	17324.5	19500.2	15924.1
40°	23253.9	22979.4	22700.2	21505.1	20561.5	19463.2	18431.9	18667.3	20766.8	16657.7
42.5°	24499.8	24296.8	24190.6	23544.6	22815.6	21701.2	20420.7	20259.2	22190.3	17502.2
45°	24444.4	24361.4	24689.0	24956.6	24783.6	24165.2	22751.0	22019.6	23618.4	18233.5
47.5°	23138.6	23193.9	23925.3	25429.6	26091.7	26414.7	25404.2	23747.7	24859.7	18780.3
50°	19585.5	19631.7	21325.1	24569.0	26428.6	28248.9	28036.7	25434.2	25821.8	19114.9
52.5°	16773.1	16803.1	17529.8	22017.3	25316.5	29171.8	30408.4	27023.8	26525.5	19207.1
55°	12634.0	12737.9	13552.3	17273.7	22423.3	28440.4	31852.7	28661.9	26970.8	19216.4
57.5°	7380.6	7493.7	8499.6	11725.0	17428.3	25891.0	32071.9	30115.4	27273.0	19142.5
60°	3615.3	3663.8	4102.1	6162.4	10746.8	20979.1	30309.2	30819.1	27441.4	19103.3
62.5°	2436.4	2429.4	2447.9	3040.8	5294.9	13478.5	26636.2	29587.1	27351.4	18953.4
65°	2094.9	2069.5	2000.3	2134.1	2743.2	6164.7	20579.9	25909.5	26666.2	18577.3
67.5°	1811.1	1813.4	1815.7	1774.2	1958.8	2844.7	12576.4	20409.2	24206.8	16796.2
70°	1499.7	1520.4	1529.7	1529.7	1596.6	1866.5	5368.8	13988.3	19094.1	13169.3
72.5°	1365.8	1322.0	1326.6	1303.5	1303.5	1421.2	2161.8	7929.7	12029.6	7408.3
75°	1114.4	1142.0	1146.7	1130.5	1077.4	1084.4	1282.8	3326.9	5147.3	3073.1
77.5°	962.1	962.1	971.3	959.8	918.3	812.1	856.0	1289.7	1751.1	1259.7
80°	772.9	770.6	809.8	832.9	768.3	599.9	546.8	712.9	777.5	553.7
82.5°	376.1	399.1	556.0	634.5	583.7	433.7	334.5	443.0	415.3	244.6
85°	219.2	207.6	249.2	353.0	334.5	239.9	161.5	230.7	216.9	124.6
87.5°	69.2	64.6	50.8	120.0	96.9	66.9	43.8	66.9	60.0	27.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955858  
 CATALOG NUMBER: GALN-SB8C-940-U-AFL

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
11182.8	0°	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8	11182.8
11219.7	2.5°	11055.9	10783.7	10513.8	10266.9	10116.9	10020.0	9923.1	9814.7	9773.2	9710.9
11249.7	5°	10945.2	10419.2	9950.8	9547.0	9180.2	8891.8	8601.1	8365.8	8259.7	8331.2
11344.3	7.5°	10880.6	10119.2	9397.1	8656.5	7943.6	7373.7	6877.7	6529.3	6372.4	6411.6
11436.6	10°	10822.9	9780.1	8679.6	7509.8	6485.4	5779.4	5271.9	5006.5	4907.3	4928.1
11561.2	12.5°	10769.8	9399.4	7814.4	6275.5	5186.5	4720.5	4575.1	4577.4	4595.9	4609.7
11759.6	15°	10760.6	8940.3	6847.7	5195.7	4485.1	4455.1	4612.0	4711.2	4764.3	4780.4
11925.7	17.5°	10746.8	8391.2	5862.5	4459.8	4314.4	4517.4	4662.8	4727.4	4768.9	4771.2
12087.2	20°	10691.4	7694.4	4953.5	4109.1	4277.5	4452.8	4542.8	4593.6	4628.2	4639.7
12209.5	22.5°	10520.7	6919.2	4245.2	3952.2	4129.8	4270.6	4376.7	4434.4	4455.1	4469.0
12232.6	25°	10213.8	6051.7	3756.1	3802.2	3924.5	4102.1	4187.5	4199.0	4192.1	4212.9
12174.9	27.5°	9812.4	5121.9	3451.5	3599.2	3756.1	3908.3	3954.5	3947.6	3933.7	3956.8
12075.7	30°	9327.9	4286.7	3257.7	3370.8	3585.3	3723.8	3765.3	3749.1	3721.5	3746.8
12024.9	32.5°	8815.7	3603.8	3098.5	3211.6	3444.6	3580.7	3622.2	3606.1	3585.3	3606.1
12082.6	35°	8338.1	3126.2	2950.9	3105.4	3333.9	3467.7	3520.7	3523.0	3523.0	3548.4
12234.9	37.5°	7899.7	2847.0	2828.6	3038.5	3257.7	3377.7	3453.8	3458.4	3359.2	3366.2
12493.3	40°	7493.7	2729.4	2773.2	2994.7	3183.9	3299.2	3303.9	3045.5	2863.2	2858.6
12788.6	42.5°	7161.4	2706.3	2789.4	2990.1	3130.8	3135.4	2810.1	2609.4	2558.6	2561.0
13060.9	45°	6850.0	2699.4	2826.3	2990.1	3052.4	2708.6	2489.4	2436.4	2441.0	2459.4
13183.1	47.5°	6501.6	2671.7	2833.2	2948.6	2826.3	2408.7	2344.1	2321.0	2311.8	2316.4
13155.5	50°	6120.9	2572.5	2745.5	2865.5	2438.7	2279.5	2198.7	2191.8	2203.3	2210.3
13000.9	52.5°	5719.5	2411.0	2595.6	2715.5	2261.0	2166.4	2076.4	2092.6	2143.4	2159.5
12839.4	55°	5456.4	2221.8	2397.1	2415.6	2136.4	2060.3	1984.2	2021.1	2115.7	2145.7
12742.5	57.5°	5387.2	2021.1	2171.0	2150.3	1977.2	1968.0	1921.9	1954.2	2074.1	2118.0
12737.9	60°	5366.5	1841.1	1949.6	1933.4	1822.7	1866.5	1855.0	1871.1	1912.6	1926.5
12691.7	62.5°	5205.0	1698.1	1751.1	1728.1	1684.2	1760.4	1788.1	1753.4	1785.7	1801.9
12375.6	65°	4794.3	1582.7	1557.3	1541.2	1559.6	1628.9	1684.2	1615.0	1645.0	1691.2
11157.5	67.5°	4116.0	1425.8	1356.6	1375.1	1432.7	1469.7	1541.2	1462.7	1488.1	1566.6
8986.4	70°	3329.2	1227.4	1165.1	1218.2	1273.6	1349.7	1361.2	1308.2	1368.1	1455.8
5484.1	72.5°	2355.6	1026.7	982.9	1091.3	1109.7	1209.0	1183.6	1158.2	1241.3	1271.2
2710.9	75°	1633.5	828.3	802.9	886.0	952.9	1038.2	1019.8	1049.8	1225.1	1238.9
1354.3	77.5°	1033.6	643.7	627.5	680.6	772.9	867.5	897.5	1238.9	2092.6	2175.7
703.7	80°	599.9	479.9	461.4	503.0	583.7	671.4	865.2	1520.4	1379.7	1363.5
316.1	82.5°	334.5	329.9	306.9	318.4	389.9	484.5	1222.8	1070.5	869.8	897.5
126.9	85°	156.9	193.8	166.1	159.2	219.2	567.6	816.7	611.4	406.1	396.8
27.7	87.5°	41.5	36.9	36.9	41.5	92.3	489.1	325.3	260.7	154.6	150.0
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

