

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: P950440

Luminaire Tested: **GALN-SB4D-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950440
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-SB4D-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25247 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

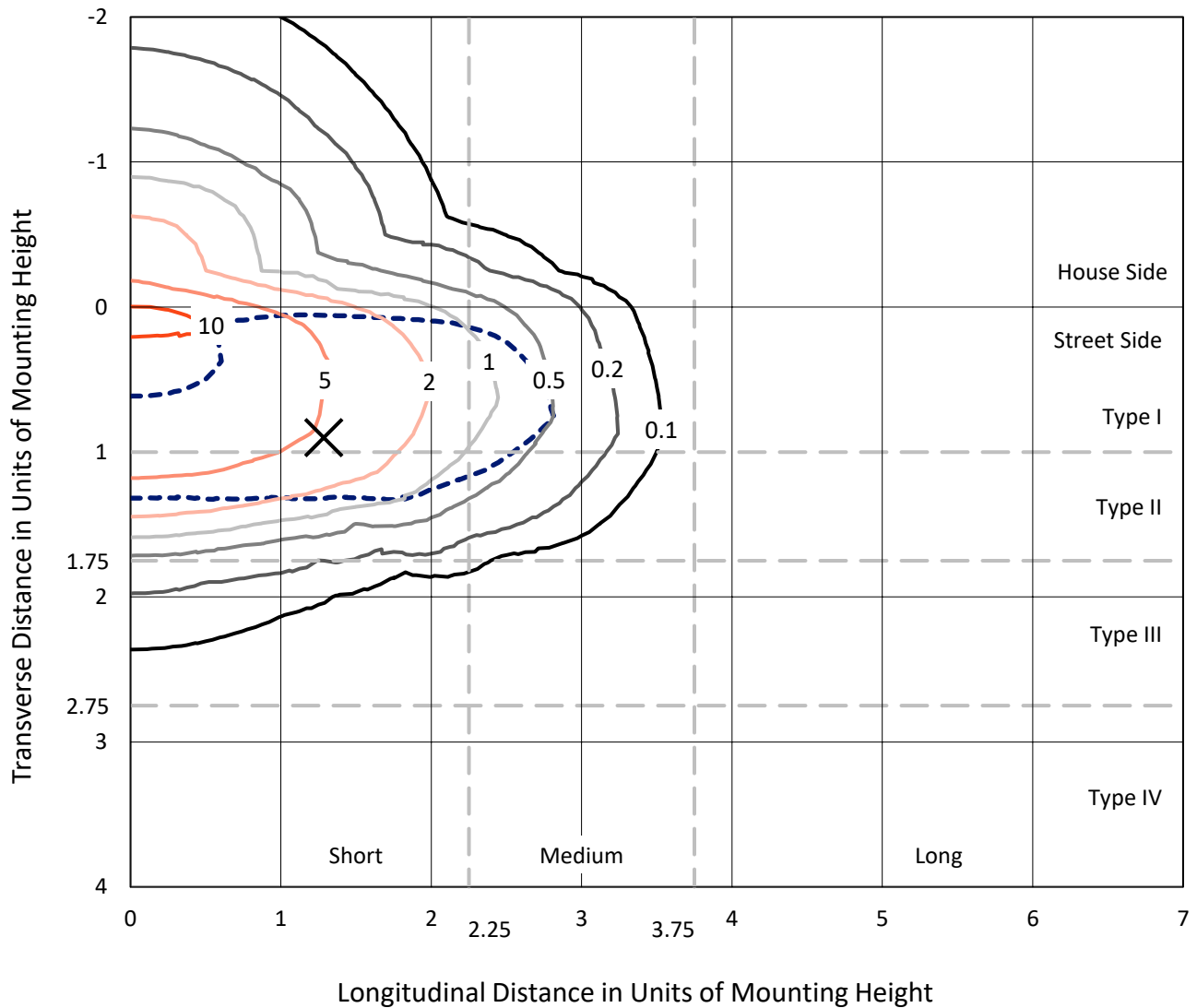
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950440
 CATALOG NUMBER: GALN-SB4D-927-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

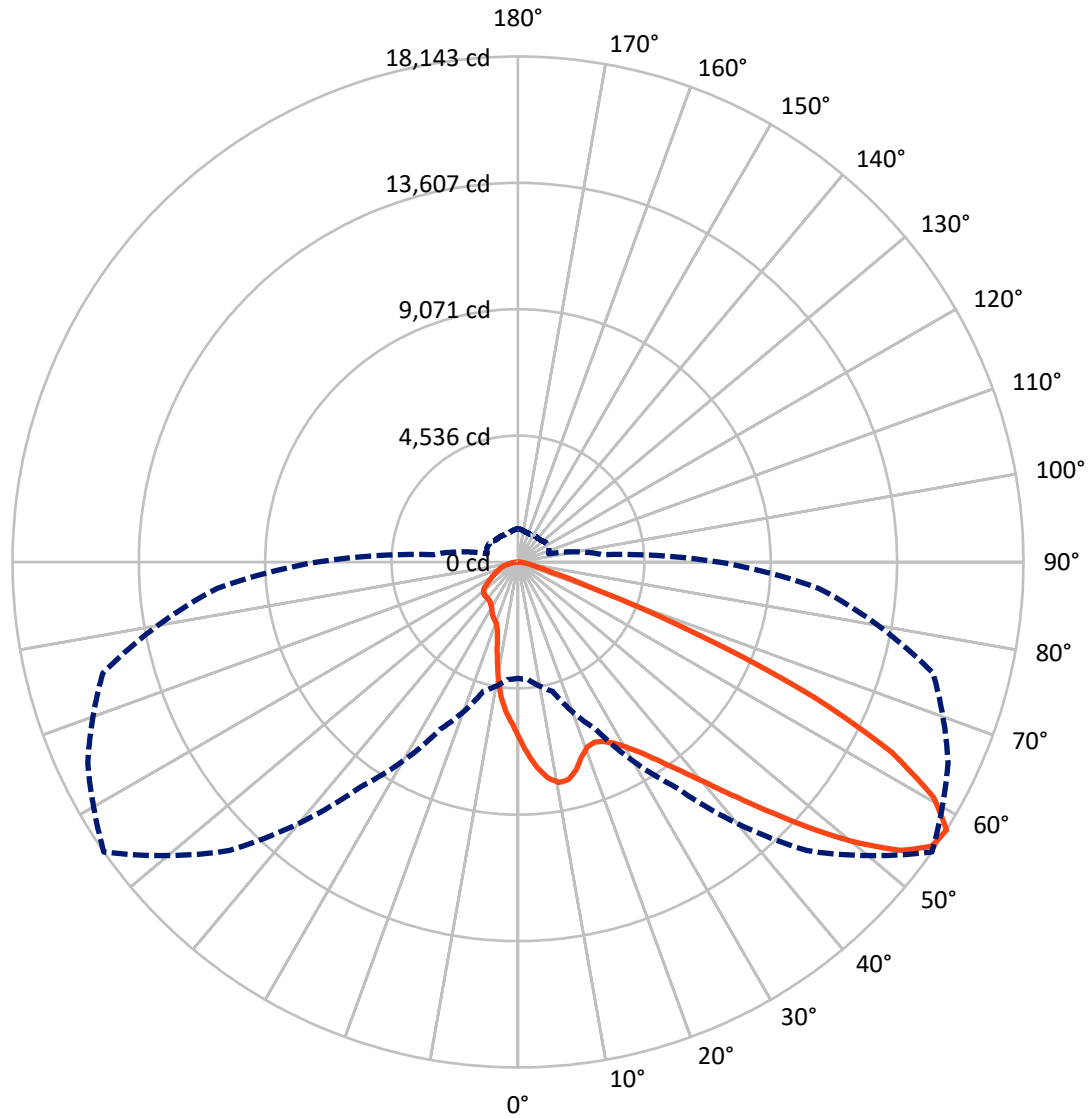
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

REPORT NUMBER: P950440
CATALOG NUMBER: GALN-SB4D-927-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P950440
 CATALOG NUMBER: GALN-SB4D-927-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4568.3	0.0	4568.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20678.7	0.0	20678.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	25247.0	0.0	25247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.0	2.3
10°-20°	1481.7	5.9
20°-30°	2364.3	9.4
30°-40°	3743.3	14.8
40°-50°	5729.5	22.7
50°-60°	6136.9	24.3
60°-70°	3860.7	15.3
70°-80°	1141.7	4.5
80°-90°	201.9	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°	25247.0	100.0
0°-180°	25247.0	100.0

Coefficient of Utilization



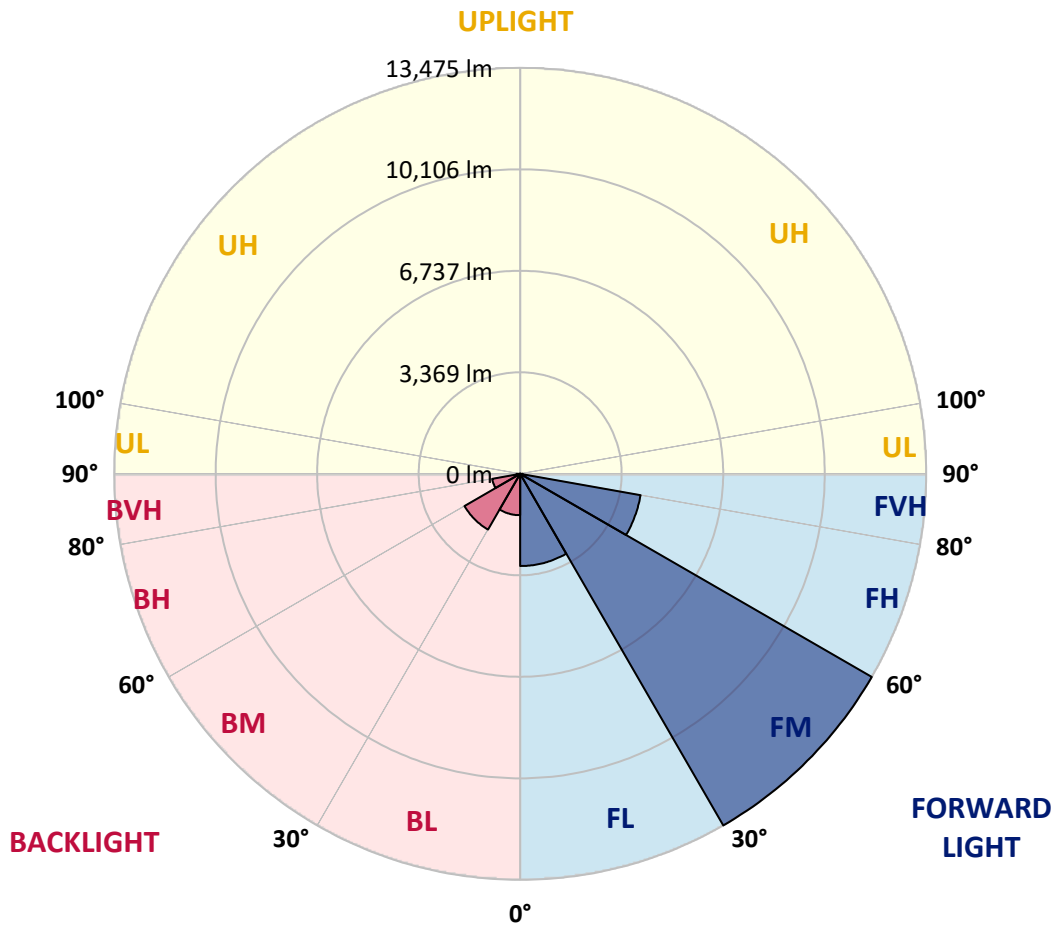
REPORT NUMBER: P950440
 CATALOG NUMBER: GALN-SB4D-927-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3059.9	12.1			
FM (30°-60°)	13474.5	53.4			
FH (60°-80°)	4059.0	16.1			G2/5000
FVH (80°-90°)	85.3	0.3			G1/100
BL (0°-30°)	1373.1	5.4	B3/2500		
BM (30°-60°)	2135.2	8.5	B2/2500		
BH (60°-80°)	943.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	116.6	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-G2

Type II Short



REPORT NUMBER: P950440

CATALOG NUMBER: GALN-SB4D-927-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1
2.5°	7258.0	7252.7	7281.5	7183.6	7117.0	7026.9	6908.2	6756.8	6593.6	6421.4
5°	7911.8	7866.2	7896.2	7823.1	7750.0	7614.3	7438.1	7191.4	6889.9	6546.6
7.5°	7808.7	7777.4	7854.4	7919.7	7974.5	7957.5	7828.3	7569.9	7181.0	6682.4
10°	6977.4	6942.1	7050.4	7276.2	7607.7	7896.2	8052.8	7892.3	7478.5	6831.2
12.5°	6243.9	6226.9	6298.7	6481.4	6849.4	7402.8	8024.1	8174.2	7787.9	7007.4
15°	5930.6	5909.7	5955.4	6048.1	6283.0	6798.5	7763.1	8367.3	8092.0	7211.0
17.5°	5861.4	5838.0	5857.5	5905.8	6057.2	6450.1	7368.9	8462.6	8409.1	7438.1
20°	5989.3	5969.8	5972.4	5969.8	6075.5	6387.4	7094.8	8426.1	8685.8	7646.9
22.5°	6298.7	6266.0	6267.3	6198.2	6255.6	6497.1	7023.0	8328.2	8932.5	7829.6
25°	6802.5	6743.7	6755.5	6579.3	6563.6	6742.4	7135.3	8252.5	9177.8	7975.8
27.5°	7491.6	7425.0	7389.8	7127.4	7002.1	7090.9	7363.7	8278.6	9410.2	8102.4
30°	8353.0	8272.1	8200.3	7828.3	7601.2	7568.6	7718.7	8450.9	9684.2	8235.5
32.5°	9408.9	9314.9	9184.4	8691.0	8371.3	8200.3	8178.1	8757.6	10005.3	8405.2
35°	10665.7	10543.0	10357.7	9719.5	9314.9	8965.1	8783.7	9200.0	10445.1	8661.0
37.5°	11960.4	11822.1	11652.4	10892.8	10395.5	9880.0	9522.4	9800.4	11031.2	9008.2
40°	13154.6	12999.3	12841.4	12165.3	11631.5	11010.3	10426.9	10560.0	11747.7	9423.2
42.5°	13859.4	13744.6	13684.5	13319.1	12906.7	12276.3	11551.9	11460.6	12553.0	9900.9
45°	13828.1	13781.1	13966.4	14117.8	14020.0	13670.2	12870.1	12456.4	13360.9	10314.6
47.5°	13089.4	13120.7	13534.4	14385.4	14760.0	14942.7	14371.0	13433.9	14063.0	10623.9
50°	11079.4	11105.6	12063.5	13898.6	14950.5	15980.3	15860.2	14388.0	14607.3	10813.2
52.5°	9488.5	9505.4	9916.6	12455.1	14321.4	16502.4	17201.9	15287.3	15005.3	10865.4
55°	7147.0	7205.8	7666.5	9771.7	12684.8	16088.6	18018.9	16213.9	15257.2	10870.6
57.5°	4175.2	4239.1	4808.2	6632.8	9859.1	14646.4	18142.9	17036.2	15428.2	10828.9
60°	2045.2	2072.6	2320.6	3486.1	6079.4	11867.8	17145.8	17434.2	15523.5	10806.7
62.5°	1378.2	1374.3	1384.8	1720.2	2995.3	7624.7	15068.0	16737.3	15472.6	10721.8
65°	1185.1	1170.7	1131.6	1207.3	1551.8	3487.4	11642.0	14656.9	15085.0	10509.1
67.5°	1024.5	1025.9	1027.2	1003.7	1108.1	1609.3	7114.4	11545.4	13693.7	9501.5
70°	848.3	860.1	865.3	865.3	903.2	1055.9	3037.1	7913.1	10801.4	7449.8
72.5°	772.7	747.9	750.5	737.4	737.4	804.0	1222.9	4485.8	6805.1	4190.8
75°	630.4	646.1	648.7	639.5	609.5	613.4	725.7	1882.0	2911.8	1738.5
77.5°	544.2	544.2	549.5	542.9	519.5	459.4	484.2	729.6	990.6	712.6
80°	437.2	435.9	458.1	471.2	434.6	339.3	309.3	403.3	439.8	313.2
82.5°	212.7	225.8	314.5	358.9	330.2	245.4	189.2	250.6	234.9	138.3
85°	124.0	117.5	141.0	199.7	189.2	135.7	91.4	130.5	122.7	70.5
87.5°	39.2	36.5	28.7	67.9	54.8	37.8	24.8	37.8	33.9	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950440
 CATALOG NUMBER: GALN-SB4D-927-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
6326.1	0°	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1	6326.1
6347.0	2.5°	6254.3	6100.3	5947.6	5807.9	5723.1	5668.3	5613.5	5552.1	5528.6	5493.4
6363.9	5°	6191.6	5894.1	5629.1	5400.7	5193.2	5030.1	4865.6	4732.5	4672.4	4712.9
6417.4	7.5°	6155.1	5724.4	5315.9	4896.9	4493.6	4171.3	3890.7	3693.6	3604.8	3627.0
6469.6	10°	6122.5	5532.5	4910.0	4248.3	3668.8	3269.4	2982.3	2832.2	2776.1	2787.8
6540.1	12.5°	6092.5	5317.2	4420.6	3550.0	2934.0	2670.3	2588.1	2589.4	2599.9	2607.7
6652.4	15°	6087.2	5057.5	3873.7	2939.2	2537.2	2520.3	2609.0	2665.1	2695.1	2704.3
6746.3	17.5°	6079.4	4746.8	3316.4	2522.9	2440.6	2555.5	2637.7	2674.3	2697.8	2699.1
6837.7	20°	6048.1	4352.7	2802.2	2324.5	2419.8	2518.9	2569.8	2598.6	2618.1	2624.7
6906.9	22.5°	5951.5	3914.2	2401.5	2235.7	2336.2	2415.8	2475.9	2508.5	2520.3	2528.1
6919.9	25°	5777.9	3423.4	2124.8	2150.9	2220.1	2320.6	2368.9	2375.4	2371.5	2383.2
6887.3	27.5°	5550.8	2897.4	1952.5	2036.0	2124.8	2210.9	2237.0	2233.1	2225.3	2238.3
6831.2	30°	5276.7	2425.0	1842.9	1906.8	2028.2	2106.5	2130.0	2120.9	2105.2	2119.6
6802.5	32.5°	4987.0	2038.6	1752.8	1816.8	1948.6	2025.6	2049.1	2040.0	2028.2	2040.0
6835.1	35°	4716.8	1768.5	1669.3	1756.7	1885.9	1961.6	1991.7	1993.0	1993.0	2007.3
6921.2	37.5°	4468.8	1610.6	1600.1	1718.9	1842.9	1910.7	1953.8	1956.4	1900.3	1904.2
7067.4	40°	4239.1	1544.0	1568.8	1694.1	1801.1	1866.4	1869.0	1722.8	1619.7	1617.1
7234.5	42.5°	4051.2	1530.9	1577.9	1691.5	1771.1	1773.7	1589.7	1476.1	1447.4	1448.7
7388.5	45°	3875.0	1527.0	1598.8	1691.5	1726.7	1532.3	1408.3	1378.2	1380.9	1391.3
7457.6	47.5°	3677.9	1511.4	1602.7	1668.0	1598.8	1362.6	1326.0	1313.0	1307.8	1310.4
7442.0	50°	3462.6	1455.2	1553.1	1621.0	1379.5	1289.5	1243.8	1239.9	1246.4	1250.3
7354.5	52.5°	3235.5	1363.9	1468.3	1536.2	1279.1	1225.5	1174.6	1183.8	1212.5	1221.6
7263.2	55°	3086.7	1256.9	1356.1	1366.5	1208.6	1165.5	1122.4	1143.3	1196.8	1213.8
7208.4	57.5°	3047.5	1143.3	1228.1	1216.4	1118.5	1113.3	1087.2	1105.5	1173.3	1198.1
7205.8	60°	3035.8	1041.5	1102.9	1093.7	1031.1	1055.9	1049.3	1058.5	1082.0	1089.8
7179.6	62.5°	2944.4	960.6	990.6	977.6	952.8	995.8	1011.5	991.9	1010.2	1019.3
7000.8	65°	2712.1	895.3	881.0	871.8	882.3	921.4	952.8	913.6	930.6	956.7
6311.7	67.5°	2328.4	806.6	767.4	777.9	810.5	831.4	871.8	827.5	841.8	886.2
5083.6	70°	1883.3	694.3	659.1	689.1	720.4	763.5	770.0	740.0	774.0	823.6
3102.3	72.5°	1332.6	580.8	556.0	617.3	627.8	683.9	669.5	655.2	702.2	719.1
1533.6	75°	924.0	468.6	454.2	501.2	539.0	587.3	576.9	593.8	693.0	700.9
766.1	77.5°	584.7	364.1	355.0	385.0	437.2	490.7	507.7	700.9	1183.8	1230.8
398.1	80°	339.3	271.5	261.0	284.5	330.2	379.8	489.4	860.1	780.5	771.3
178.8	82.5°	189.2	186.6	173.6	180.1	220.6	274.1	691.7	605.6	492.0	507.7
71.8	85°	88.8	109.6	94.0	90.1	124.0	321.1	462.0	345.9	229.7	224.5
15.7	87.5°	23.5	20.9	20.9	23.5	52.2	276.7	184.0	147.5	87.4	84.8
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

