

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: P949789

Luminaire Tested: **GALN-SB4B-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949789
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-SB4B-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16632 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

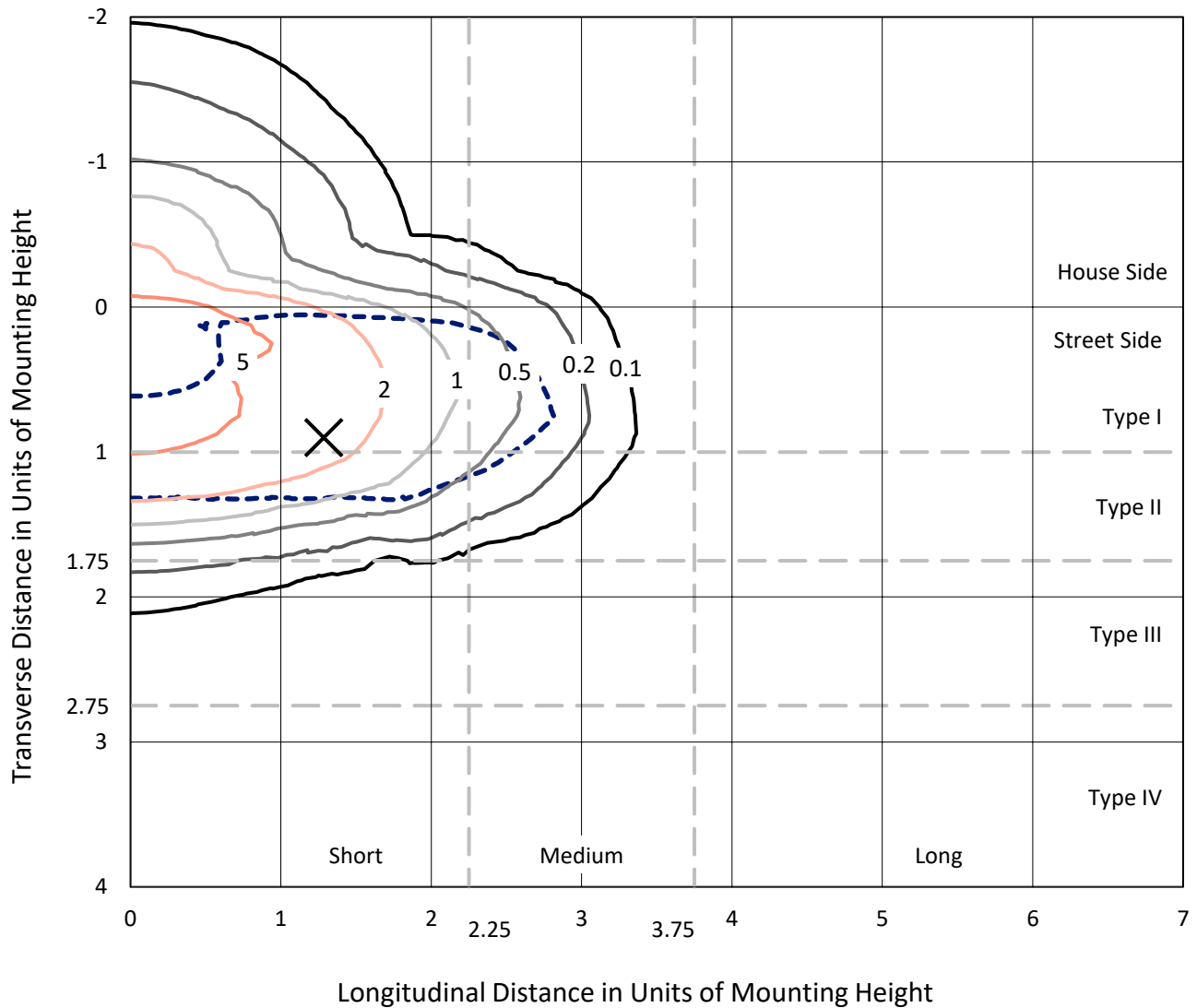
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949789
 CATALOG NUMBER: GALN-SB4B-940-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

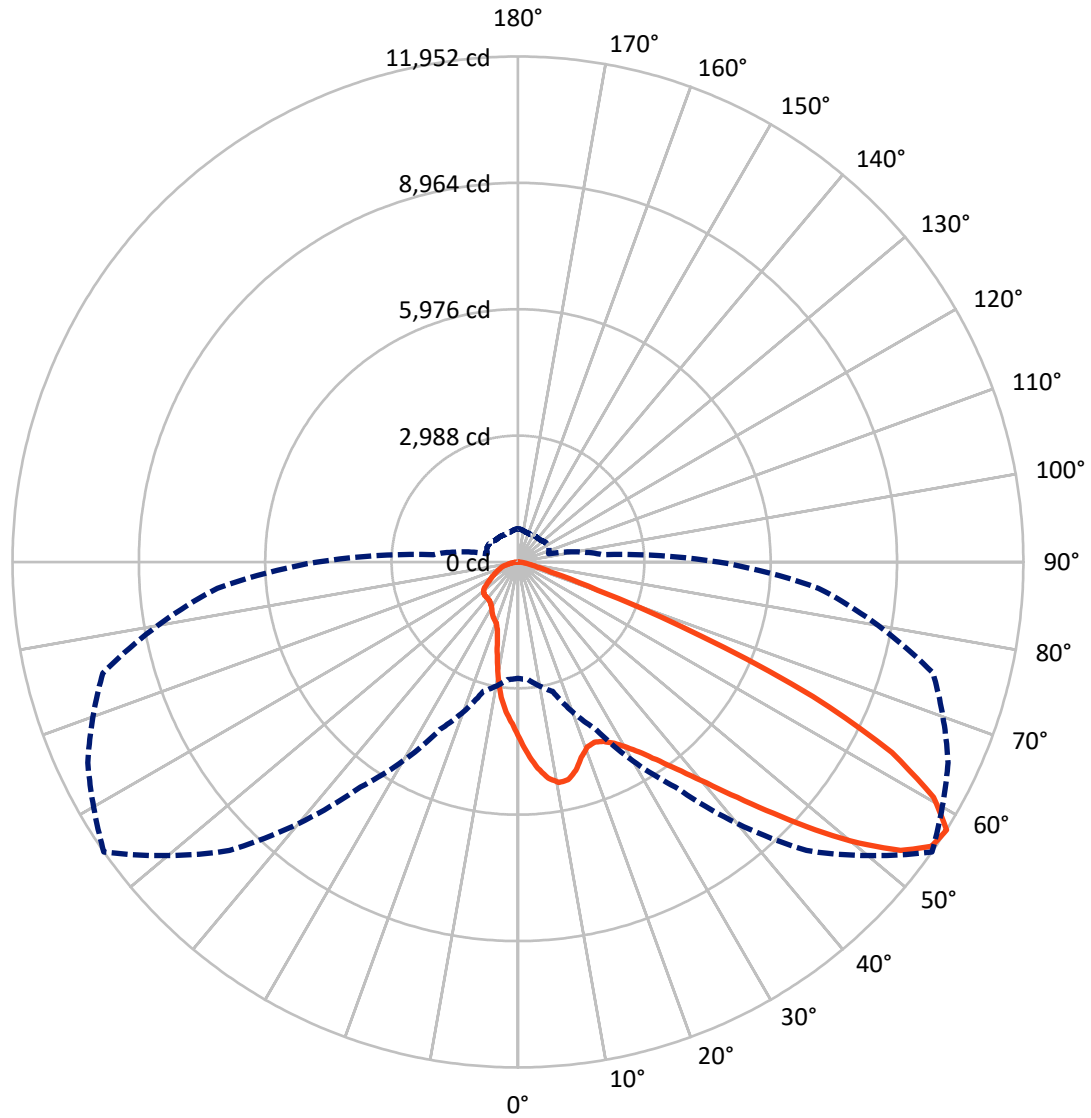
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

REPORT NUMBER: P949789
CATALOG NUMBER: GALN-SB4B-940-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P949789

CATALOG NUMBER: GALN-SB4B-940-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3009.5	0.0	3009.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13622.5	0.0	13622.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	16632.0	0.0	16632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	2.3
10°-20°	976.1	5.9
20°-30°	1557.6	9.4
30°-40°	2466.0	14.8
40°-50°	3774.4	22.7
50°-60°	4042.8	24.3
60°-70°	2543.3	15.3
70°-80°	752.1	4.5
80°-90°	133.0	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°	16632.0	100.0
0°-180°	16632.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949789

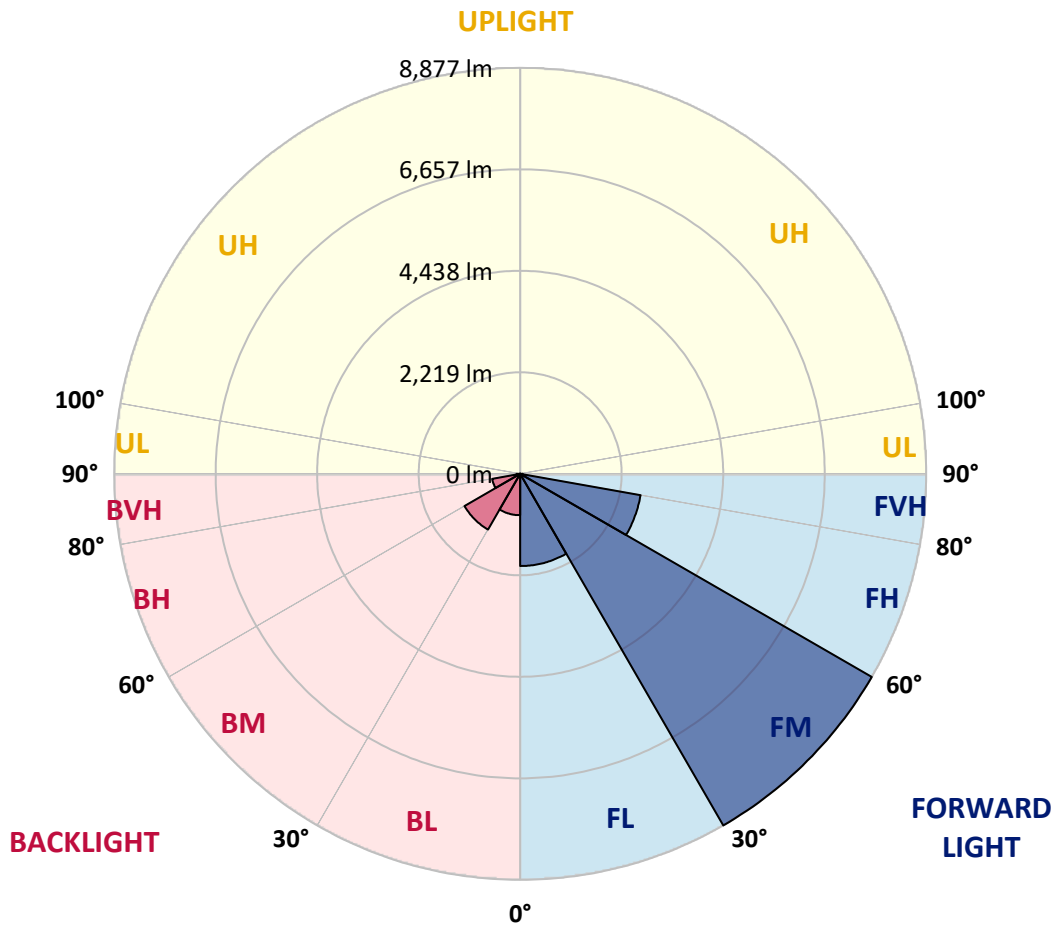
CATALOG NUMBER: GALN-SB4B-940-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2015.8	12.1			
FM (30°-60°)	8876.6	53.4			
FH (60°-80°)	2673.9	16.1			G2/5000
FVH (80°-90°)	56.2	0.3			G1/100
BL (0°-30°)	904.5	5.4	B2/1000		
BM (30°-60°)	1406.6	8.5	B2/2500		
BH (60°-80°)	621.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	76.8	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: P949789

CATALOG NUMBER: GALN-SB4B-940-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4
2.5°	4781.3	4777.9	4796.8	4732.3	4688.5	4629.2	4550.9	4451.2	4343.7	4230.2
5°	5212.1	5182.0	5201.8	5153.6	5105.5	5016.1	4900.0	4737.5	4538.9	4312.7
7.5°	5144.2	5123.5	5174.3	5217.3	5253.4	5242.2	5157.1	4986.8	4730.6	4402.2
10°	4596.5	4573.3	4644.6	4793.4	5011.8	5201.8	5305.0	5199.2	4926.6	4500.2
12.5°	4113.3	4102.1	4149.4	4269.8	4512.2	4876.8	5286.0	5384.9	5130.4	4616.3
15°	3906.9	3893.2	3923.3	3984.3	4139.1	4478.7	5114.1	5512.2	5330.7	4750.4
17.5°	3861.4	3845.9	3858.8	3890.6	3990.3	4249.1	4854.4	5574.9	5539.7	4900.0
20°	3945.6	3932.7	3934.4	3932.7	4002.4	4207.8	4673.9	5550.9	5722.0	5037.6
22.5°	4149.4	4127.9	4128.7	4083.2	4121.0	4280.1	4626.6	5486.4	5884.5	5157.9
25°	4481.3	4442.6	4450.3	4334.2	4323.9	4441.7	4700.5	5436.5	6046.1	5254.2
27.5°	4935.2	4891.4	4868.2	4695.4	4612.8	4671.3	4851.0	5453.7	6199.1	5337.6
30°	5502.7	5449.4	5402.1	5157.1	5007.5	4986.0	5084.8	5567.2	6379.7	5425.3
32.5°	6198.3	6136.4	6050.4	5725.4	5514.7	5402.1	5387.5	5769.2	6591.2	5537.1
35°	7026.3	6945.4	6823.4	6402.9	6136.4	5906.0	5786.4	6060.7	6881.0	5705.6
37.5°	7879.2	7788.0	7676.3	7175.9	6848.3	6508.7	6273.1	6456.2	7267.0	5934.3
40°	8665.9	8563.6	8459.5	8014.2	7662.5	7253.3	6868.9	6956.6	7739.0	6207.7
42.5°	9130.2	9054.5	9015.0	8774.2	8502.5	8087.3	7610.1	7549.9	8269.5	6522.4
45°	9109.6	9078.6	9200.7	9300.4	9235.9	9005.5	8478.5	8205.9	8801.7	6795.0
47.5°	8622.9	8643.5	8916.1	9476.7	9723.5	9843.8	9467.2	8849.9	9264.3	6998.8
50°	7298.8	7316.0	7947.1	9156.0	9849.0	10527.4	10448.3	9478.4	9622.9	7123.4
52.5°	6250.7	6261.9	6532.7	8205.0	9434.6	10871.3	11332.1	10070.8	9885.1	7157.8
55°	4708.3	4746.9	5050.5	6437.3	8356.4	10598.7	11870.4	10681.3	10051.0	7161.3
57.5°	2750.5	2792.6	3167.5	4369.5	6494.9	9648.6	11952.0	11222.9	10163.7	7133.7
60°	1347.3	1365.4	1528.7	2296.5	4004.9	7818.1	11295.2	11485.2	10226.4	7119.1
62.5°	907.9	905.4	912.2	1133.2	1973.2	5022.9	9926.4	11026.0	10192.9	7063.2
65°	780.7	771.2	745.4	795.3	1022.3	2297.4	7669.4	9655.5	9937.5	6923.1
67.5°	674.9	675.8	676.7	661.2	730.0	1060.1	4686.8	7605.8	9021.0	6259.3
70°	558.9	566.6	570.0	570.0	595.0	695.6	2000.7	5213.0	7115.7	4907.7
72.5°	509.0	492.7	494.4	485.8	485.8	529.6	805.6	2955.1	4483.0	2760.8
75°	415.3	425.6	427.3	421.3	401.5	404.1	478.0	1239.8	1918.2	1145.3
77.5°	358.5	358.5	362.0	357.7	342.2	302.6	319.0	480.6	652.6	469.4
80°	288.0	287.2	301.8	310.4	286.3	223.5	203.8	265.7	289.8	206.4
82.5°	140.1	148.7	207.2	236.4	217.5	161.6	124.7	165.1	154.8	91.1
85°	81.7	77.4	92.9	131.5	124.7	89.4	60.2	86.0	80.8	46.4
87.5°	25.8	24.1	18.9	44.7	36.1	24.9	16.3	24.9	22.4	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949789
 CATALOG NUMBER: GALN-SB4B-940-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4167.4	0°	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4	4167.4
4181.2	2.5°	4120.2	4018.7	3918.1	3826.1	3770.2	3734.1	3698.0	3657.6	3642.1	3618.9
4192.4	5°	4078.9	3882.8	3708.3	3557.8	3421.1	3313.7	3205.3	3117.6	3078.1	3104.7
4227.6	7.5°	4054.8	3771.1	3502.0	3226.0	2960.3	2747.9	2563.1	2433.2	2374.8	2389.4
4262.0	10°	4033.3	3644.7	3234.6	2798.6	2416.9	2153.8	1964.6	1865.8	1828.8	1836.5
4308.4	12.5°	4013.5	3502.8	2912.1	2338.6	1932.8	1759.1	1705.0	1705.8	1712.7	1717.9
4382.4	15°	4010.1	3331.7	2551.9	1936.3	1671.4	1660.3	1718.7	1755.7	1775.5	1781.5
4444.3	17.5°	4004.9	3127.1	2184.7	1662.0	1607.8	1683.5	1737.7	1761.7	1777.2	1778.1
4504.5	20°	3984.3	2867.4	1846.0	1531.3	1594.1	1659.4	1692.9	1711.9	1724.8	1729.1
4550.0	22.5°	3920.7	2578.5	1582.0	1472.8	1539.0	1591.5	1631.0	1652.5	1660.3	1665.4
4558.6	25°	3806.3	2255.2	1399.8	1416.9	1462.5	1528.7	1560.5	1564.8	1562.3	1570.0
4537.2	27.5°	3656.7	1908.8	1286.3	1341.3	1399.8	1456.5	1473.7	1471.1	1466.0	1474.6
4500.2	30°	3476.2	1597.5	1214.0	1256.2	1336.1	1387.7	1403.2	1397.2	1386.9	1396.3
4481.3	32.5°	3285.3	1343.0	1154.7	1196.8	1283.7	1334.4	1349.9	1343.9	1336.1	1343.9
4502.8	35°	3107.3	1165.0	1099.7	1157.3	1242.4	1292.3	1312.1	1312.9	1312.9	1322.4
4559.5	37.5°	2943.9	1061.0	1054.1	1132.4	1214.0	1258.7	1287.1	1288.8	1251.9	1254.4
4655.8	40°	2792.6	1017.1	1033.5	1116.0	1186.5	1229.5	1231.2	1134.9	1067.0	1065.3
4765.9	42.5°	2668.8	1008.5	1039.5	1114.3	1166.7	1168.5	1047.2	972.4	953.5	954.4
4867.3	45°	2552.7	1006.0	1053.3	1114.3	1137.5	1009.4	927.7	907.9	909.7	916.5
4912.9	47.5°	2422.9	995.6	1055.8	1098.8	1053.3	897.6	873.6	865.0	861.5	863.2
4902.6	50°	2281.0	958.7	1023.2	1067.9	908.8	849.5	819.4	816.8	821.1	823.7
4845.0	52.5°	2131.4	898.5	967.3	1012.0	842.6	807.4	773.8	779.8	798.8	804.8
4784.8	55°	2033.4	828.0	893.3	900.2	796.2	767.8	739.4	753.2	788.4	799.6
4748.7	57.5°	2007.6	753.2	809.1	801.3	736.8	733.4	716.2	728.2	773.0	789.3
4746.9	60°	1999.9	686.1	726.5	720.5	679.2	695.6	691.3	697.3	712.8	717.9
4729.7	62.5°	1939.7	632.8	652.6	644.0	627.7	656.0	666.3	653.4	665.5	671.5
4612.0	65°	1786.7	589.8	580.4	574.3	581.2	607.0	627.7	601.9	613.0	630.2
4158.0	67.5°	1533.9	531.4	505.6	512.4	533.9	547.7	574.3	545.1	554.6	583.8
3348.9	70°	1240.7	457.4	434.2	454.0	474.6	503.0	507.3	487.5	509.9	542.5
2043.7	72.5°	877.9	382.6	366.3	406.7	413.6	450.5	441.1	431.6	462.6	473.7
1010.3	75°	608.7	308.7	299.2	330.2	355.1	386.9	380.0	391.2	456.6	461.7
504.7	77.5°	385.2	239.9	233.9	253.6	288.0	323.3	334.5	461.7	779.8	810.8
262.2	80°	223.5	178.8	172.0	187.4	217.5	250.2	322.4	566.6	514.2	508.1
117.8	82.5°	124.7	123.0	114.4	118.7	145.3	180.6	455.7	398.9	324.1	334.5
47.3	85°	58.5	72.2	61.9	59.3	81.7	211.5	304.4	227.8	151.3	147.9
10.3	87.5°	15.5	13.8	13.8	15.5	34.4	182.3	121.2	97.2	57.6	55.9
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

