

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: P945043

Luminaire Tested: **GALN-SB1A-840-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945043
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-SB1A-840-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4365 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

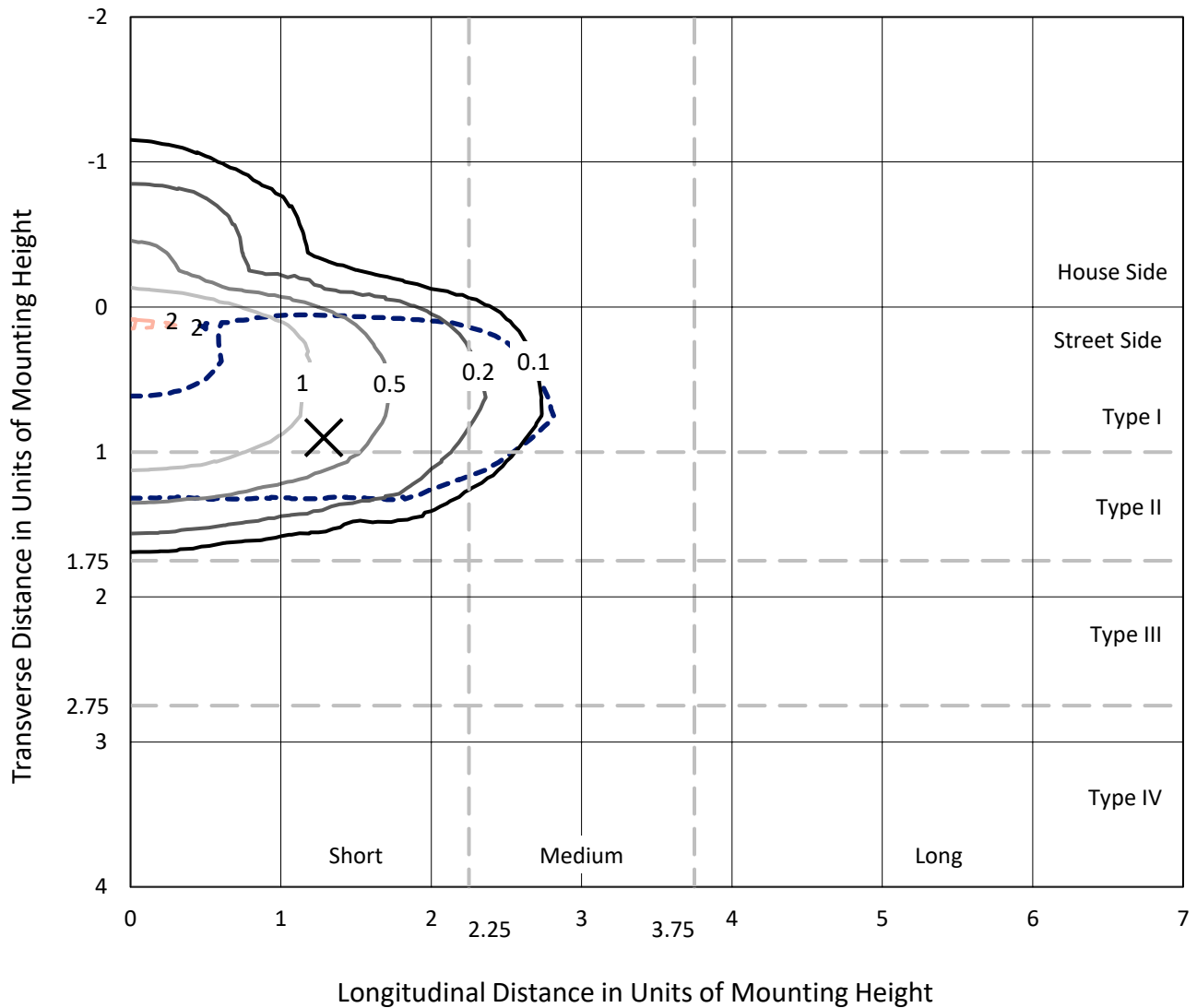
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945043
 CATALOG NUMBER: GALN-SB1A-840-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

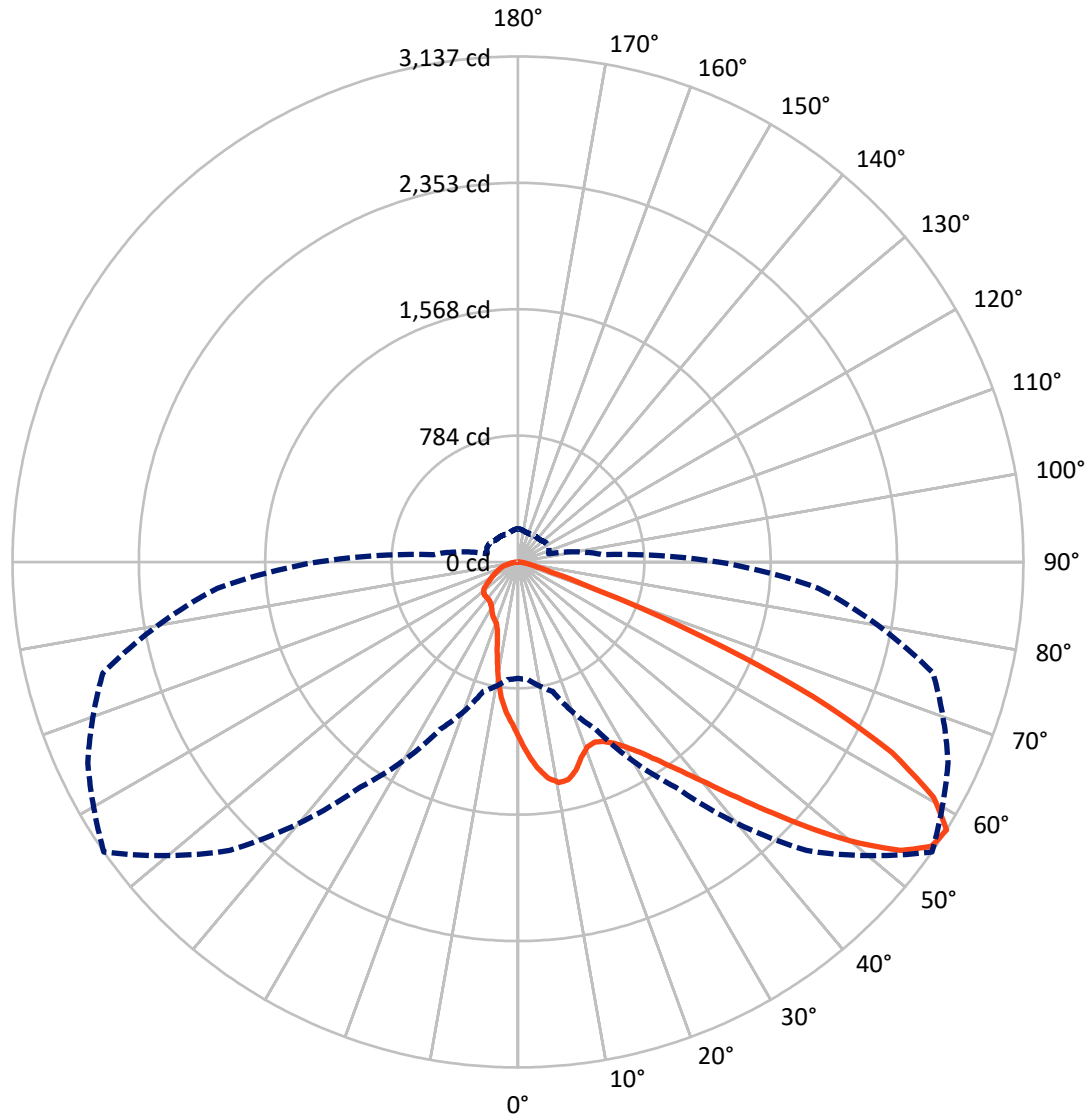
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

REPORT NUMBER: P945043
CATALOG NUMBER: GALN-SB1A-840-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P945043
 CATALOG NUMBER: GALN-SB1A-840-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	789.8	0.0	789.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3575.2	0.0	3575.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	4365.0	0.0	4365.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	2.3
10°-20°	256.2	5.9
20°-30°	408.8	9.4
30°-40°	647.2	14.8
40°-50°	990.6	22.7
50°-60°	1061.0	24.3
60°-70°	667.5	15.3
70°-80°	197.4	4.5
80°-90°	34.9	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°	4365.0	100.0
0°-180°	4365.0	100.0



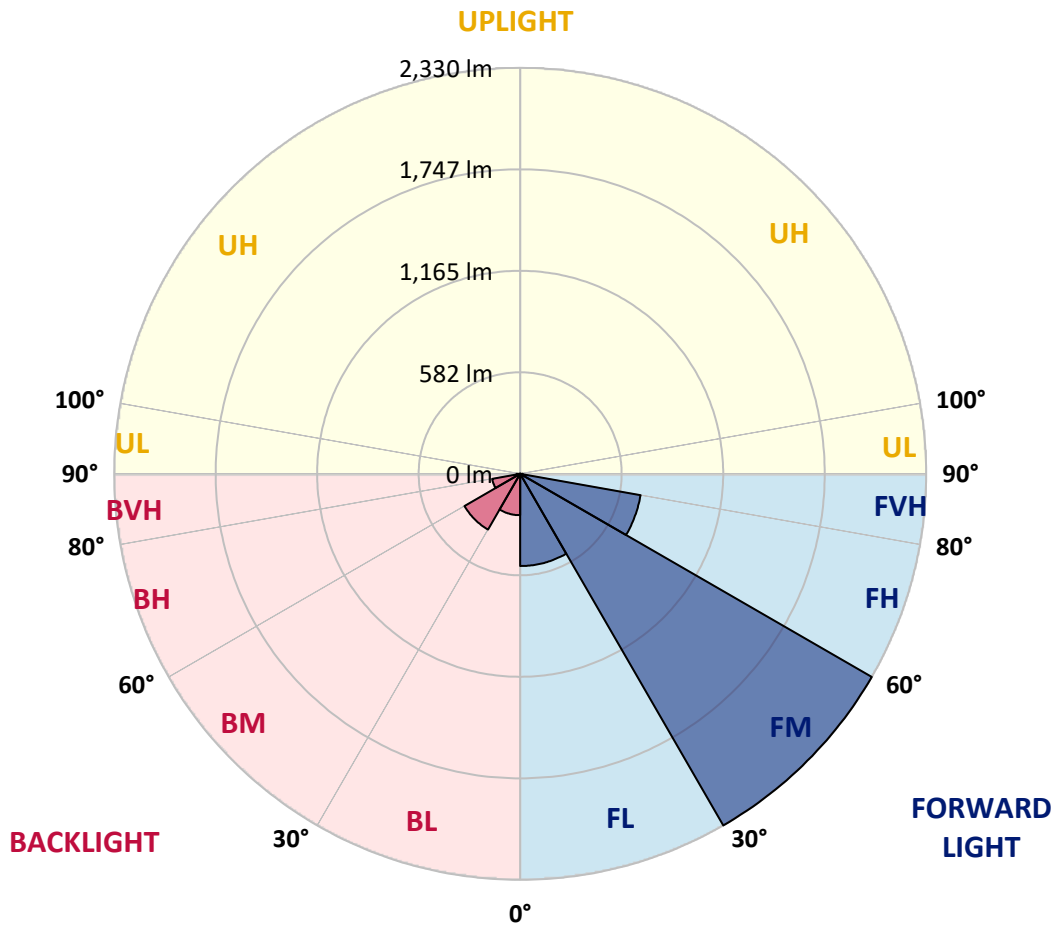
REPORT NUMBER: P945043
 CATALOG NUMBER: GALN-SB1A-840-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.0	12.1			
FM (30°-60°)	2329.6	53.4			
FH (60°-80°)	701.8	16.1			G1/1800
FVH (80°-90°)	14.7	0.3			G1/100
BL (0°-30°)	237.4	5.4	B1/500		
BM (30°-60°)	369.2	8.5	B1/1000		
BH (60°-80°)	163.1	3.7	B1/500		G1/500
BVH (80°-90°)	20.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P945043

CATALOG NUMBER: GALN-SB1A-840-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7
2.5°	1254.8	1253.9	1258.9	1242.0	1230.5	1214.9	1194.4	1168.2	1140.0	1110.2
5°	1367.9	1360.0	1365.2	1352.5	1339.9	1316.4	1286.0	1243.3	1191.2	1131.9
7.5°	1350.1	1344.7	1358.0	1369.2	1378.7	1375.8	1353.5	1308.8	1241.5	1155.3
10°	1206.3	1200.2	1219.0	1258.0	1315.3	1365.2	1392.3	1364.5	1293.0	1181.1
12.5°	1079.5	1076.6	1089.0	1120.6	1184.2	1279.9	1387.3	1413.2	1346.5	1211.5
15°	1025.4	1021.7	1029.6	1045.7	1086.3	1175.4	1342.2	1446.6	1399.0	1246.7
17.5°	1013.4	1009.3	1012.7	1021.1	1047.2	1115.2	1274.0	1463.1	1453.9	1286.0
20°	1035.5	1032.1	1032.6	1032.1	1050.4	1104.3	1226.6	1456.8	1501.7	1322.1
22.5°	1089.0	1083.3	1083.6	1071.6	1081.5	1123.3	1214.2	1439.9	1544.4	1353.7
25°	1176.1	1165.9	1168.0	1137.5	1134.8	1165.7	1233.6	1426.8	1586.8	1378.9
27.5°	1295.2	1283.7	1277.6	1232.3	1210.6	1226.0	1273.1	1431.3	1626.9	1400.8
30°	1444.2	1430.2	1417.8	1353.5	1314.2	1308.5	1334.5	1461.1	1674.3	1423.9
32.5°	1626.7	1610.5	1587.9	1502.6	1447.3	1417.8	1413.9	1514.1	1729.8	1453.2
35°	1844.0	1822.8	1790.8	1680.4	1610.5	1550.0	1518.6	1590.6	1805.9	1497.4
37.5°	2067.9	2043.9	2014.6	1883.3	1797.3	1708.2	1646.3	1694.4	1907.2	1557.4
40°	2274.3	2247.5	2220.2	2103.3	2011.0	1903.6	1802.7	1825.7	2031.1	1629.2
42.5°	2396.2	2376.3	2365.9	2302.8	2231.5	2122.5	1997.2	1981.4	2170.3	1711.8
45°	2390.8	2382.6	2414.7	2440.9	2423.9	2363.5	2225.1	2153.6	2310.0	1783.3
47.5°	2263.0	2268.5	2340.0	2487.1	2551.9	2583.5	2484.6	2322.6	2431.4	1836.8
50°	1915.5	1920.1	2085.7	2403.0	2584.8	2762.9	2742.1	2487.6	2525.5	1869.5
52.5°	1640.5	1643.4	1714.5	2153.4	2476.1	2853.1	2974.1	2643.0	2594.3	1878.5
55°	1235.7	1245.8	1325.5	1689.4	2193.1	2781.6	3115.3	2803.3	2637.9	1879.4
57.5°	721.9	732.9	831.3	1146.8	1704.6	2532.2	3136.8	2945.4	2667.4	1872.2
60°	353.6	358.3	401.2	602.7	1051.1	2051.8	2964.4	3014.2	2683.9	1868.4
62.5°	238.3	237.6	239.4	297.4	517.9	1318.2	2605.1	2893.7	2675.1	1853.7
65°	204.9	202.4	195.6	208.7	268.3	602.9	2012.8	2534.1	2608.1	1816.9
67.5°	177.1	177.4	177.6	173.5	191.6	278.2	1230.0	1996.1	2367.5	1642.7
70°	146.7	148.7	149.6	149.6	156.2	182.6	525.1	1368.1	1867.5	1288.0
72.5°	133.6	129.3	129.7	127.5	127.5	139.0	211.4	775.6	1176.5	724.6
75°	109.0	111.7	112.1	110.6	105.4	106.1	125.5	325.4	503.4	300.6
77.5°	94.1	94.1	95.0	93.9	89.8	79.4	83.7	126.1	171.3	123.2
80°	75.6	75.4	79.2	81.5	75.1	58.7	53.5	69.7	76.0	54.2
82.5°	36.8	39.0	54.4	62.1	57.1	42.4	32.7	43.3	40.6	23.9
85°	21.4	20.3	24.4	34.5	32.7	23.5	15.8	22.6	21.2	12.2
87.5°	6.8	6.3	5.0	11.7	9.5	6.5	4.3	6.5	5.9	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945043
 CATALOG NUMBER: GALN-SB1A-840-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1093.7	0°	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7	1093.7
1097.3	2.5°	1081.3	1054.7	1028.3	1004.1	989.5	980.0	970.5	959.9	955.9	949.8
1100.3	5°	1070.5	1019.0	973.2	933.7	897.9	869.7	841.2	818.2	807.8	814.8
1109.5	7.5°	1064.2	989.7	919.1	846.6	776.9	721.2	672.7	638.6	623.2	627.1
1118.5	10°	1058.5	956.5	848.9	734.5	634.3	565.3	515.6	489.7	480.0	482.0
1130.7	12.5°	1053.3	919.3	764.3	613.8	507.3	461.7	447.5	447.7	449.5	450.8
1150.1	15°	1052.4	874.4	669.7	508.2	438.7	435.7	451.1	460.8	466.0	467.5
1166.4	17.5°	1051.1	820.7	573.4	436.2	422.0	441.8	456.0	462.4	466.4	466.6
1182.2	20°	1045.7	752.5	484.5	401.9	418.4	435.5	444.3	449.3	452.7	453.8
1194.1	22.5°	1029.0	676.7	415.2	386.5	403.9	417.7	428.1	433.7	435.7	437.1
1196.4	25°	999.0	591.9	367.4	371.9	383.8	401.2	409.6	410.7	410.0	412.0
1190.8	27.5°	959.7	500.9	337.6	352.0	367.4	382.3	386.8	386.1	384.7	387.0
1181.1	30°	912.3	419.3	318.6	329.7	350.7	364.2	368.3	366.7	364.0	366.5
1176.1	32.5°	862.2	352.5	303.0	314.1	336.9	350.2	354.3	352.7	350.7	352.7
1181.7	35°	815.5	305.8	288.6	303.7	326.1	339.2	344.3	344.6	344.6	347.1
1196.6	37.5°	772.6	278.5	276.6	297.2	318.6	330.4	337.8	338.2	328.5	329.2
1221.9	40°	732.9	266.9	271.2	292.9	311.4	322.7	323.1	297.9	280.0	279.6
1250.8	42.5°	700.4	264.7	272.8	292.4	306.2	306.7	274.8	255.2	250.2	250.5
1277.4	45°	670.0	264.0	276.4	292.4	298.5	264.9	243.5	238.3	238.7	240.5
1289.4	47.5°	635.9	261.3	277.1	288.4	276.4	235.6	229.3	227.0	226.1	226.6
1286.7	50°	598.7	251.6	268.5	280.3	238.5	222.9	215.0	214.4	215.5	216.2
1271.5	52.5°	559.4	235.8	253.9	265.6	221.1	211.9	203.1	204.7	209.6	211.2
1255.7	55°	533.7	217.3	234.5	236.3	209.0	201.5	194.1	197.7	206.9	209.9
1246.3	57.5°	526.9	197.7	212.3	210.3	193.4	192.5	188.0	191.1	202.9	207.1
1245.8	60°	524.9	180.1	190.7	189.1	178.3	182.6	181.4	183.0	187.1	188.4
1241.3	62.5°	509.1	166.1	171.3	169.0	164.7	172.2	174.9	171.5	174.7	176.2
1210.4	65°	468.9	154.8	152.3	150.7	152.5	159.3	164.7	158.0	160.9	165.4
1091.2	67.5°	402.6	139.5	132.7	134.5	140.1	143.7	150.7	143.1	145.5	153.2
878.9	70°	325.6	120.0	114.0	119.1	124.6	132.0	133.1	127.9	133.8	142.4
536.4	72.5°	230.4	100.4	96.1	106.7	108.5	118.2	115.8	113.3	121.4	124.3
265.1	75°	159.8	81.0	78.5	86.6	93.2	101.5	99.7	102.7	119.8	121.2
132.5	77.5°	101.1	63.0	61.4	66.6	75.6	84.8	87.8	121.2	204.7	212.8
68.8	80°	58.7	46.9	45.1	49.2	57.1	65.7	84.6	148.7	134.9	133.4
30.9	82.5°	32.7	32.3	30.0	31.1	38.1	47.4	119.6	104.7	85.1	87.8
12.4	85°	15.3	19.0	16.2	15.6	21.4	55.5	79.9	59.8	39.7	38.8
2.7	87.5°	4.1	3.6	3.6	4.1	9.0	47.8	31.8	25.5	15.1	14.7
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

