

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: P951321

Luminaire Tested: **GALN-SB5C-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32255 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

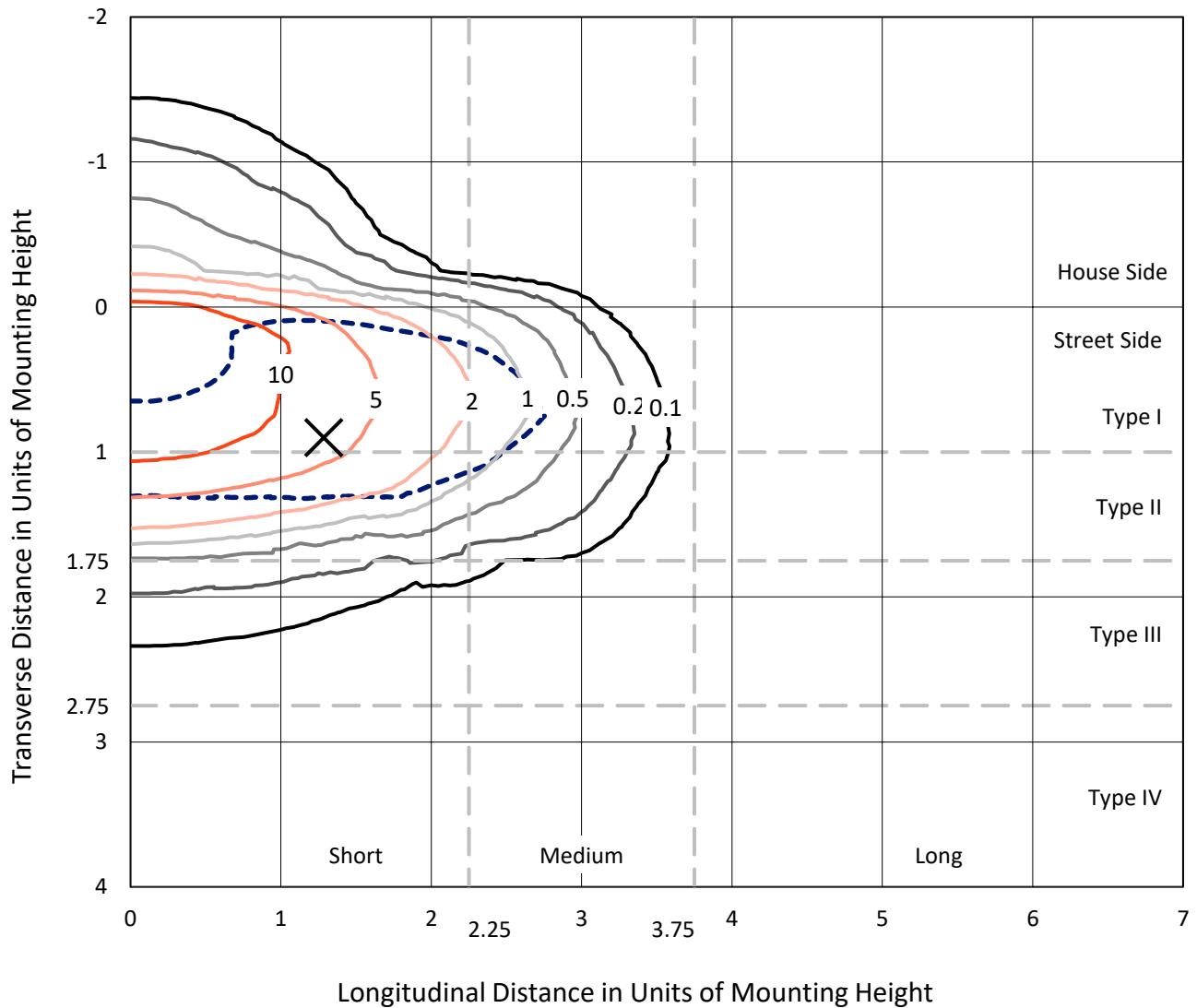
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951321
 CATALOG NUMBER: GALN-SB5C-735-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

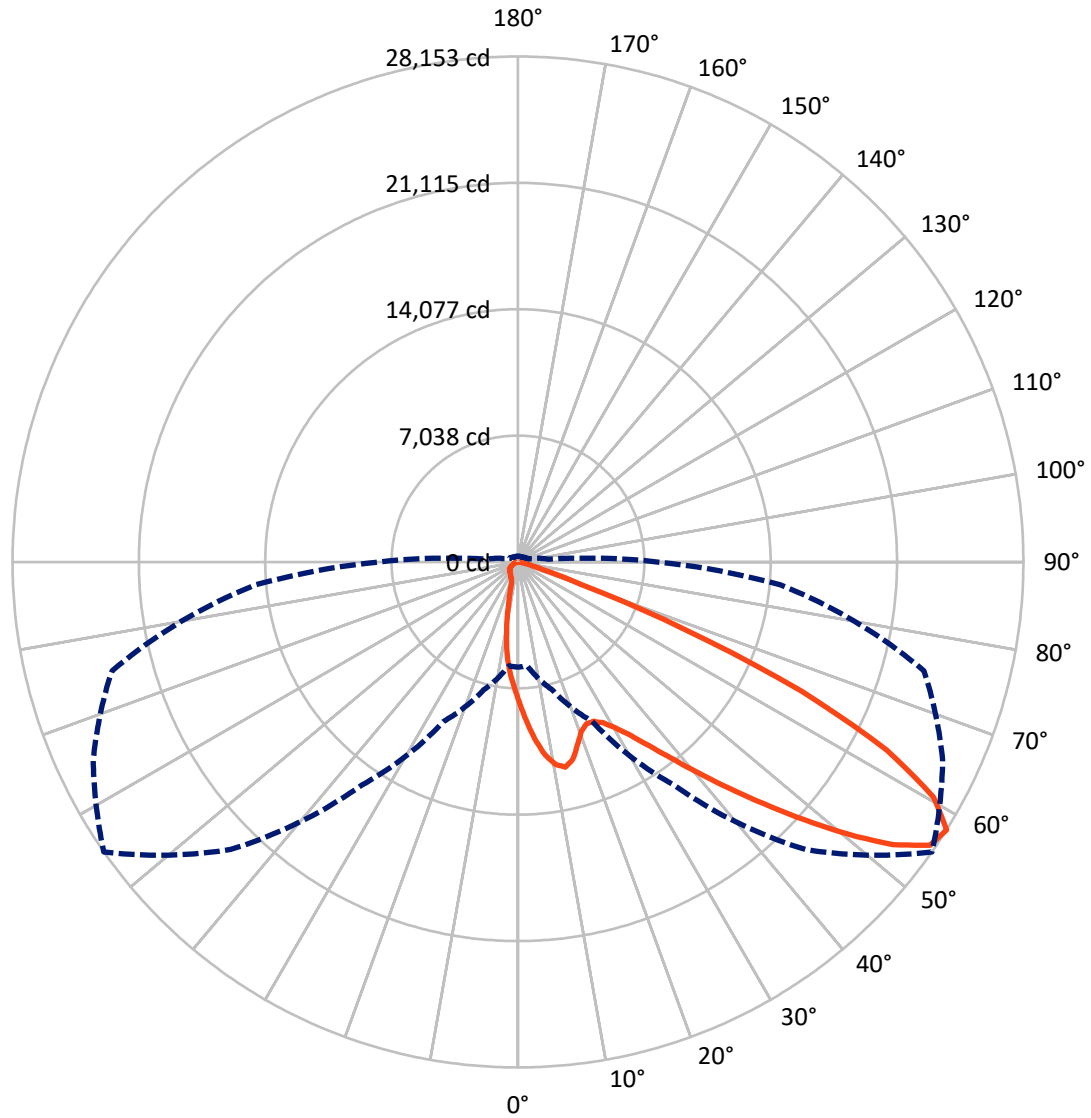
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

REPORT NUMBER: P951321
CATALOG NUMBER: GALN-SB5C-735-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951321
 CATALOG NUMBER: GALN-SB5C-735-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2519.0	0.0	2519.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	29736.0	0.0	29736.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	32255.0	0.0	32255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.2	2.2
10°-20°	1746.9	5.4
20°-30°	2795.0	8.7
30°-40°	4730.7	14.7
40°-50°	7766.9	24.1
50°-60°	8536.3	26.5
60°-70°	4896.4	15.2
70°-80°	1000.5	3.1
80°-90°	59.0	0.2
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°	32255.0	100.0
0°-180°	32255.0	100.0

Coefficient of Utilization



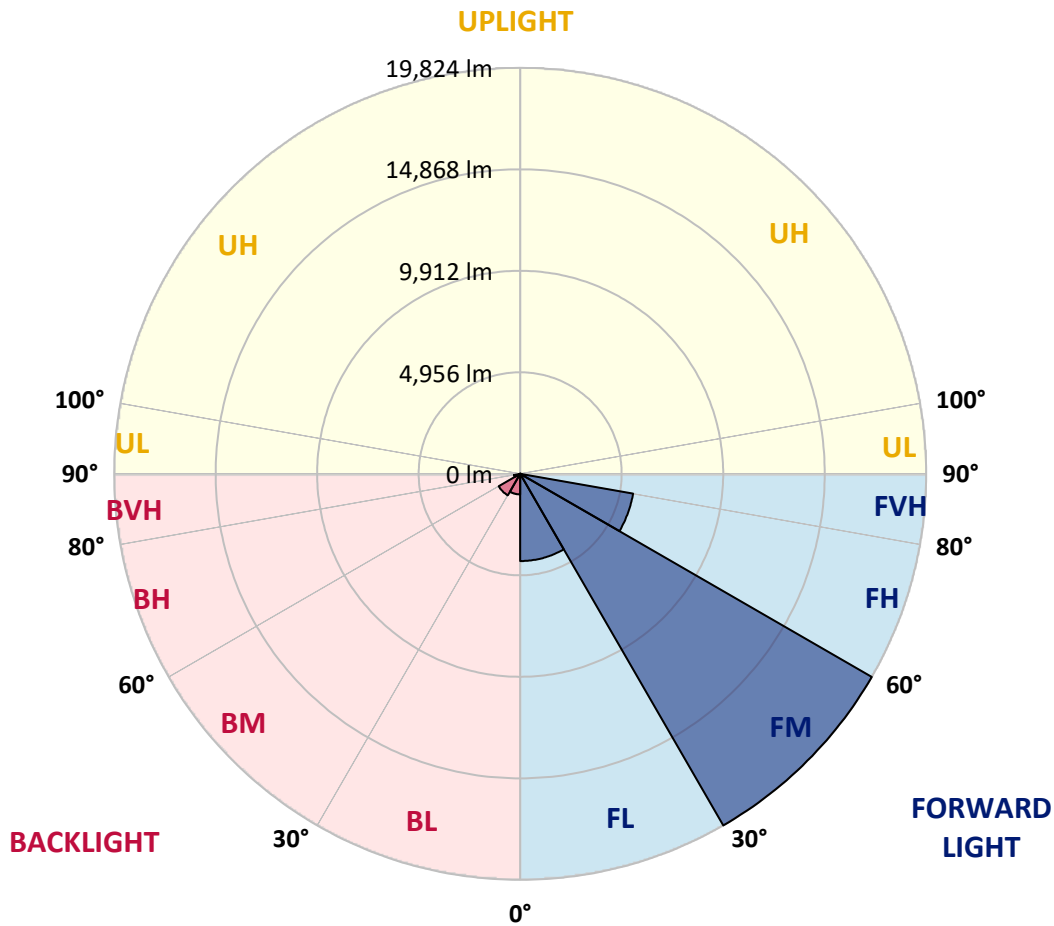
REPORT NUMBER: P951321
 CATALOG NUMBER: GALN-SB5C-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4259.5	13.2			
FM (30°-60°)	19824.2	61.5			
FH (60°-80°)	5597.4	17.4			G3/7500
FVH (80°-90°)	55.0	0.2			G1/100
BL (0°-30°)	1005.6	3.1	B3/2500		
BM (30°-60°)	1209.8	3.8	B2/2500		
BH (60°-80°)	299.6	0.9	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
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: P951321
 CATALOG NUMBER: GALN-SB5C-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7
2.5°	9644.2	9522.9	9505.0	9481.1	9250.4	9077.4	8826.8	8552.3	8244.0	7929.8
5°	11141.9	11046.4	11028.5	10917.1	10654.6	10360.2	9914.7	9351.9	8777.1	8100.8
7.5°	11432.3	11414.4	11495.9	11491.9	11456.1	11223.4	10847.5	10177.3	9314.1	8311.7
10°	10137.5	10183.2	10425.9	10638.7	11213.5	11547.6	11466.1	10913.1	9867.0	8552.3
12.5°	8958.1	8904.3	9077.4	9318.0	9986.3	10980.8	11722.6	11527.7	10499.5	8824.8
15°	8218.2	8196.3	8293.8	8405.1	8914.3	9916.7	11424.3	12026.9	11108.1	9147.0
17.5°	7981.5	7963.6	7993.4	8021.3	8351.4	9127.1	10714.3	12333.2	11690.8	9514.9
20°	8174.4	8150.6	8146.6	8124.7	8261.9	8791.0	10071.8	12355.1	12213.9	9849.1
22.5°	8737.3	8709.4	8612.0	8524.5	8536.4	8836.7	9785.4	12136.3	12607.7	10161.3
25°	9757.6	9711.8	9509.0	9214.6	9027.7	9155.0	9829.2	11847.9	12983.6	10406.0
27.5°	11034.5	10974.8	10714.3	10276.7	9849.1	9693.9	10145.4	11649.0	13295.9	10592.9
30°	12285.5	12207.9	11951.4	11611.3	10986.7	10497.5	10716.2	11736.6	13667.8	10787.8
32.5°	13636.0	13562.4	13222.3	12800.6	12283.5	11625.2	11497.9	12164.2	14123.2	11060.3
35°	15344.4	15229.1	14745.8	14171.0	13622.0	12955.8	12556.0	12902.1	14729.9	11476.0
37.5°	17289.6	17134.5	16613.4	15819.8	15103.8	14357.9	13844.8	13916.4	15618.9	12032.9
40°	19123.4	18982.2	18500.8	17753.0	16854.0	15949.1	15402.1	15243.0	16846.1	12711.1
42.5°	20223.2	20095.9	19893.1	19576.8	18819.1	17896.2	17206.1	16862.0	18298.0	13522.6
45°	20284.9	20173.5	20446.0	20813.9	20664.8	20050.2	19208.9	18578.4	19755.8	14284.4
47.5°	19298.4	19222.8	20050.2	21335.0	21975.5	22234.0	21458.3	20151.6	20959.1	14831.3
50°	16609.4	16581.5	18284.0	20642.9	22474.7	24147.4	23831.1	21615.5	21891.9	15113.7
52.5°	14401.7	14300.3	15292.7	18427.3	21748.7	25153.7	26150.2	23051.5	22544.3	15167.4
55°	10923.1	10833.6	12078.7	14719.9	19407.8	24795.7	27846.7	24533.2	23011.7	15030.2
57.5°	5859.3	5803.6	7376.9	9797.4	15171.4	22647.7	28153.0	26100.5	23405.5	14666.2
60°	2281.3	2271.3	2860.1	4753.5	9220.6	18425.3	26607.6	27041.2	23652.1	14218.7
62.5°	1380.3	1410.1	1505.6	2134.1	4073.3	11446.2	23045.5	25971.2	23817.2	13809.0
65°	1141.6	1143.6	1155.6	1465.8	1951.1	4789.3	17349.3	22450.8	23409.5	13079.1
67.5°	978.5	996.4	1042.2	1163.5	1376.3	2100.3	9988.3	17391.0	20929.3	11380.5
70°	771.7	795.6	853.2	956.7	1062.1	1314.7	3691.4	11571.5	15988.8	8578.2
72.5°	650.4	648.4	678.2	777.7	843.3	924.8	1420.1	6483.8	9292.2	4095.2
75°	503.2	523.1	560.9	650.4	690.2	670.3	769.7	2368.8	3329.4	1241.1
77.5°	393.8	409.7	443.5	531.0	570.8	475.3	443.5	847.3	1070.0	445.5
80°	177.0	190.9	302.3	391.8	465.4	328.2	240.7	433.6	475.3	202.9
82.5°	31.8	53.7	177.0	206.8	238.7	212.8	125.3	224.7	232.7	81.5
85°	2.0	4.0	61.7	75.6	95.5	69.6	37.8	89.5	77.6	27.8
87.5°	0.0	0.0	0.0	2.0	2.0	9.9	11.9	15.9	11.9	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951321
 CATALOG NUMBER: GALN-SB5C-735-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
7772.7	0°	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7	7772.7
7790.6	2.5°	7647.4	7364.9	7090.5	6865.7	6734.4	6511.7	6364.5	6340.6	6279.0	6332.7
7810.4	5°	7500.2	6995.0	6483.8	6026.4	5650.5	5165.2	4803.2	4650.1	4516.8	4562.6
7862.2	7.5°	7430.6	6633.0	5837.5	5055.8	4252.3	3476.6	2899.8	2659.2	2476.2	2502.0
7919.8	10°	7337.1	6257.1	5010.1	3816.7	2740.7	1975.0	1577.2	1430.0	1348.5	1350.5
8005.4	12.5°	7265.5	5807.6	4049.4	2587.6	1668.7	1261.0	1137.7	1101.9	1078.0	1080.0
8134.6	15°	7229.7	5278.6	3100.7	1724.4	1193.3	1068.0	1038.2	1022.3	1006.4	1004.4
8277.8	17.5°	7170.0	4689.8	2269.3	1259.0	1044.2	1000.4	974.6	956.7	936.8	932.8
8401.2	20°	7080.5	4021.6	1658.8	1064.1	978.5	944.7	908.9	885.1	861.2	857.2
8478.7	22.5°	6915.4	3315.5	1274.9	984.5	930.8	893.0	849.3	821.4	797.6	793.6
8440.9	25°	6609.1	2653.2	1074.0	934.8	889.0	843.3	795.6	757.8	735.9	731.9
8359.4	27.5°	6221.3	2084.4	974.6	889.0	835.3	793.6	739.9	704.1	684.2	680.2
8252.0	30°	5763.9	1605.1	916.9	837.3	771.7	735.9	688.2	658.3	646.4	646.4
8176.4	32.5°	5270.6	1282.8	893.0	785.6	716.0	676.2	638.4	626.5	622.5	620.5
8218.2	35°	4807.2	1113.8	881.1	743.9	666.3	628.5	612.6	614.6	622.5	622.5
8347.5	37.5°	4395.5	1060.1	875.1	714.0	622.5	588.7	598.7	616.6	608.6	608.6
8574.2	40°	4023.6	1066.1	871.1	692.1	586.7	566.8	586.7	572.8	552.9	550.9
8850.6	42.5°	3739.2	1115.8	863.2	674.2	564.9	550.9	543.0	521.1	519.1	523.1
9137.1	45°	3532.3	1159.5	861.2	666.3	541.0	515.1	505.2	483.3	523.1	533.0
9254.4	47.5°	3287.7	1159.5	861.2	638.4	501.2	491.3	475.3	451.5	491.3	501.2
9143.0	50°	2971.4	1085.9	827.4	606.6	469.4	463.4	435.6	405.7	397.8	403.7
8882.5	52.5°	2571.7	952.7	741.9	562.9	437.6	425.6	391.8	369.9	364.0	364.0
8415.1	55°	2116.2	797.6	626.5	499.2	403.7	381.9	358.0	348.1	342.1	338.1
7760.7	57.5°	1720.4	654.4	503.2	443.5	371.9	344.1	336.1	324.2	314.2	308.3
7213.8	60°	1412.1	515.1	415.7	393.8	340.1	314.2	312.3	296.3	270.5	266.5
6762.3	62.5°	1089.9	377.9	350.0	342.1	308.3	286.4	282.4	250.6	210.8	202.9
6121.9	65°	769.7	294.4	282.4	300.3	274.5	254.6	244.6	196.9	155.1	149.2
5123.4	67.5°	541.0	246.6	222.8	262.5	238.7	212.8	206.8	167.1	129.3	125.3
3874.4	70°	385.8	200.9	183.0	224.7	190.9	187.0	175.0	139.2	105.4	101.4
1917.3	72.5°	272.5	153.1	141.2	194.9	131.3	161.1	143.2	107.4	79.6	75.6
652.4	75°	200.9	109.4	99.4	113.4	95.5	121.3	101.4	71.6	49.7	47.7
294.4	77.5°	147.2	69.6	59.7	55.7	55.7	75.6	55.7	29.8	21.9	19.9
149.2	80°	103.4	31.8	27.8	23.9	21.9	17.9	8.0	4.0	2.0	2.0
51.7	82.5°	61.7	13.9	13.9	9.9	6.0	0.0	0.0	0.0	0.0	0.0
19.9	85°	13.9	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
8.0	87.5°	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

