

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: P951048

Luminaire Tested: **GALN-SB5B-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951048
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-SB5B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA 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: 21089 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

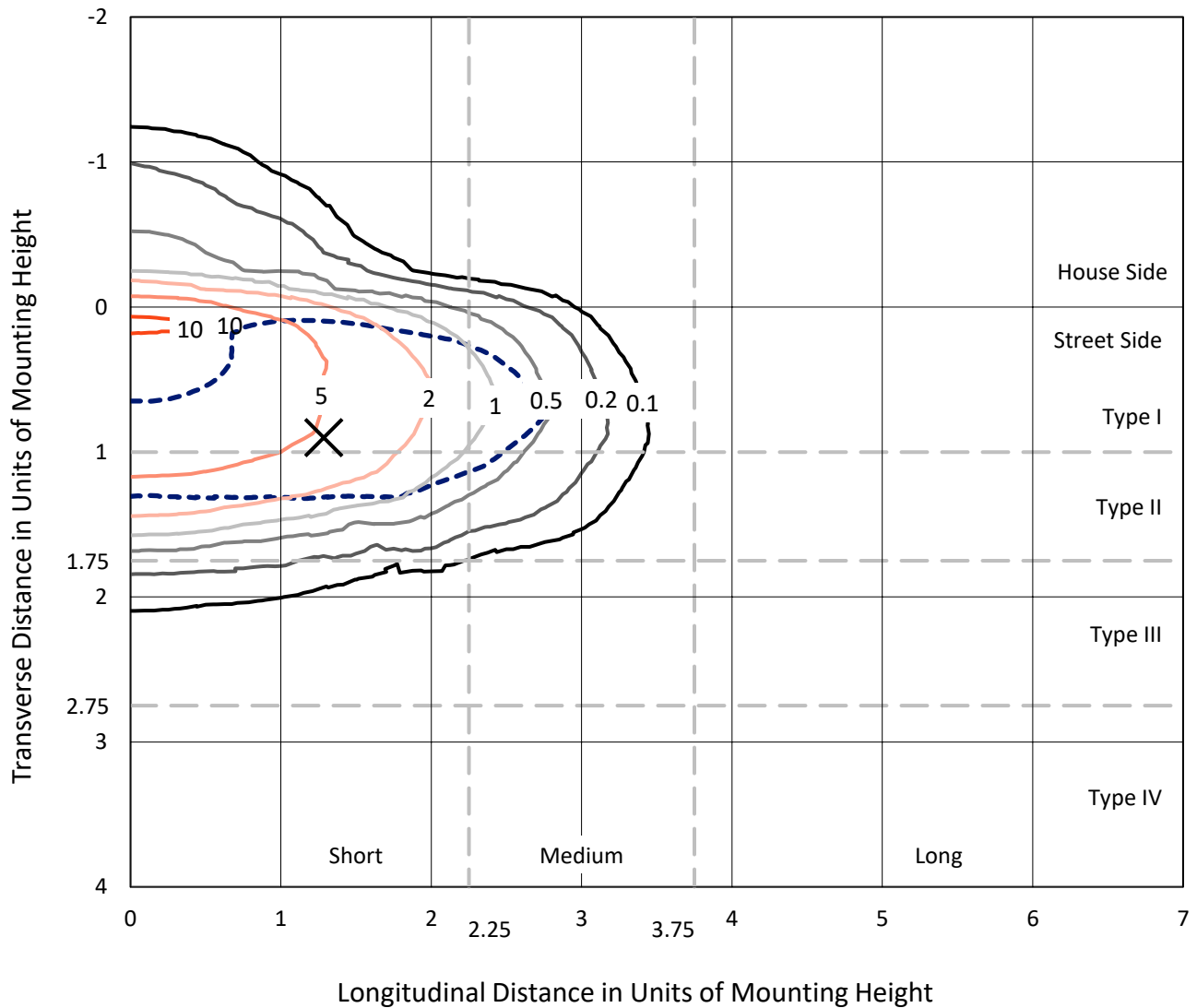
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951048
 CATALOG NUMBER: GALN-SB5B-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

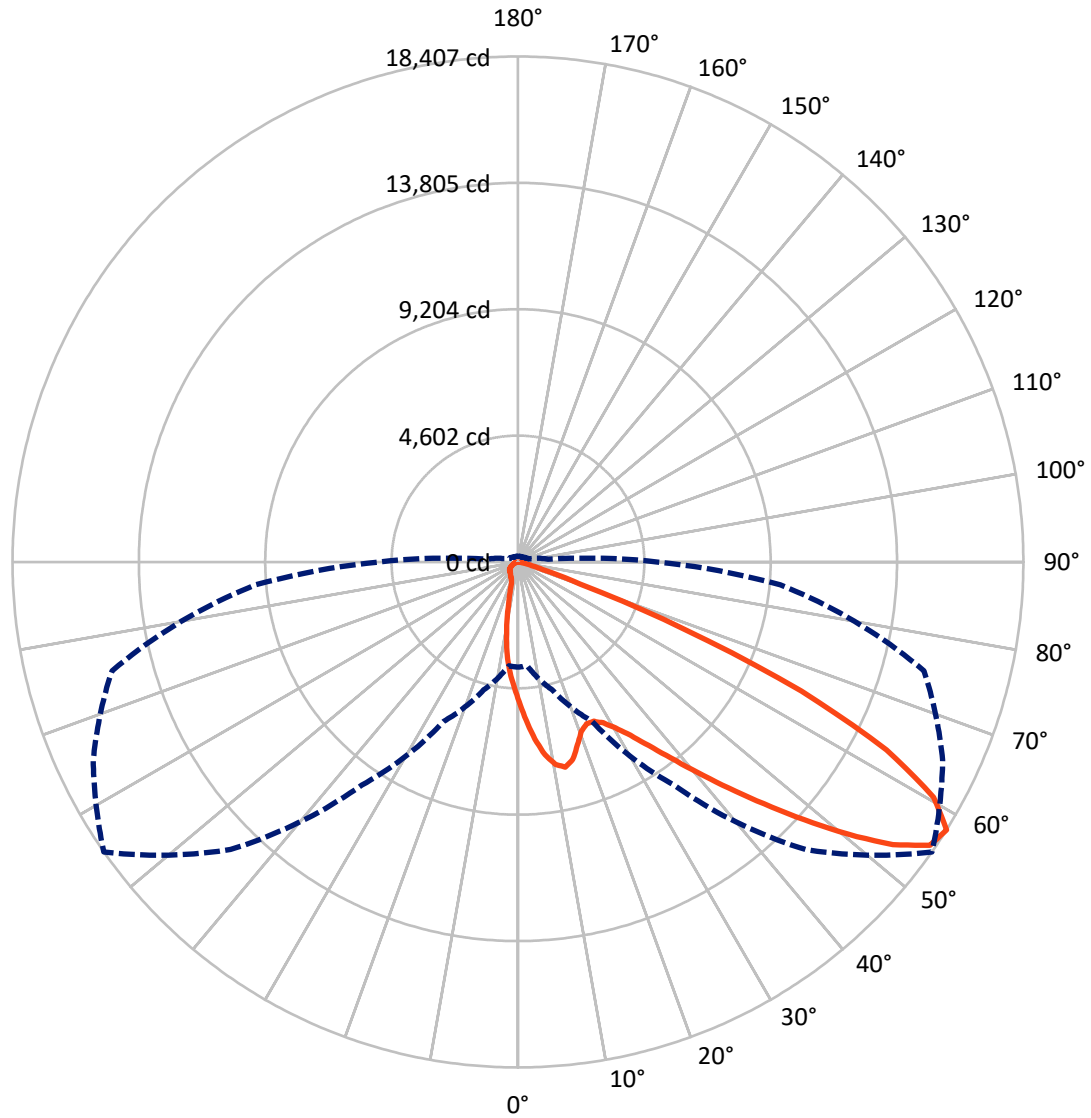
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

REPORT NUMBER: P951048
CATALOG NUMBER: GALN-SB5B-827-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951048
 CATALOG NUMBER: GALN-SB5B-827-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1647.0	0.0	1647.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19442.0	0.0	19442.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	21089.0	0.0	21089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.8	2.2
10°-20°	1142.2	5.4
20°-30°	1827.4	8.7
30°-40°	3093.1	14.7
40°-50°	5078.1	24.1
50°-60°	5581.2	26.5
60°-70°	3201.4	15.2
70°-80°	654.1	3.1
80°-90°	38.6	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°	21089.0	100.0
0°-180°	21089.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951048

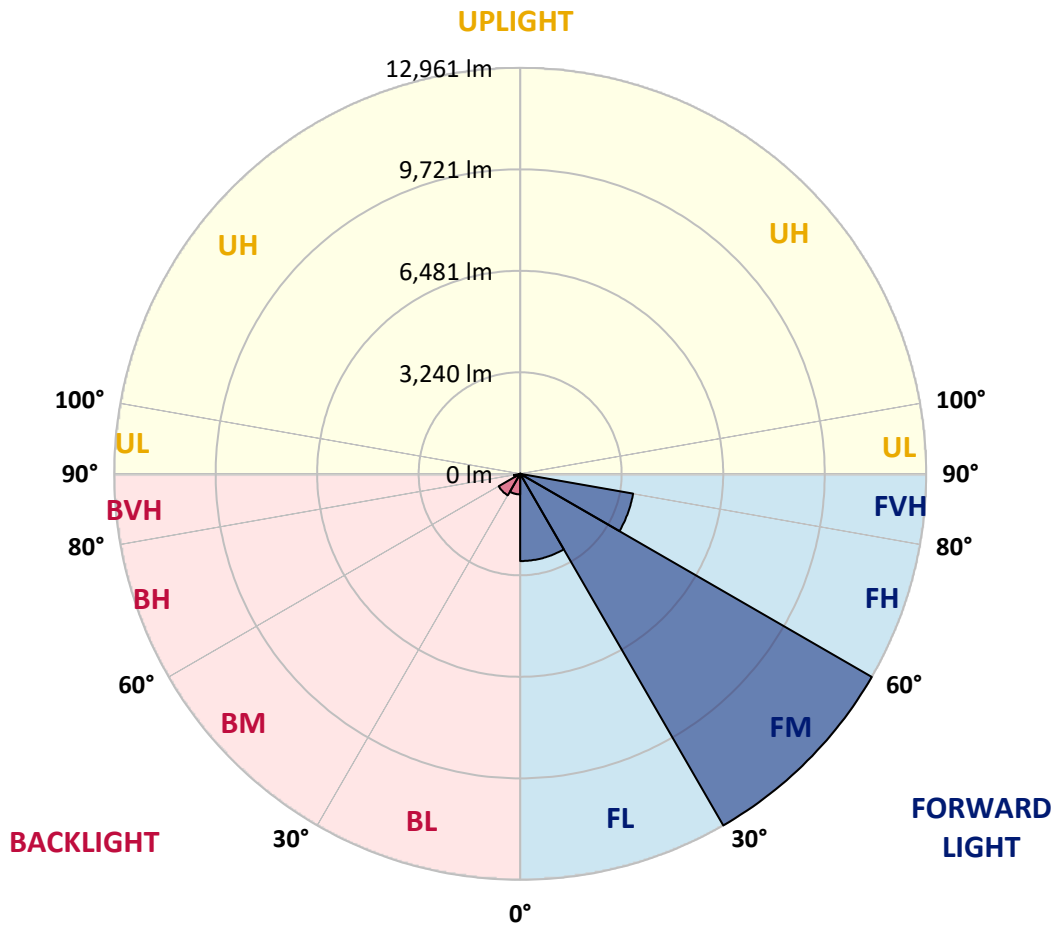
CATALOG NUMBER: GALN-SB5B-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2784.9	13.2			
FM (30°-60°)	12961.5	61.5			
FH (60°-80°)	3659.7	17.4			G2/5000
FVH (80°-90°)	36.0	0.2			G1/100
BL (0°-30°)	657.5	3.1	B2/1000		
BM (30°-60°)	791.0	3.8	B1/1000		
BH (60°-80°)	195.9	0.9	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
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: P951048
 CATALOG NUMBER: GALN-SB5B-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9
2.5°	6305.6	6226.3	6214.6	6199.0	6048.1	5935.0	5771.1	5591.7	5390.1	5184.7
5°	7284.8	7222.4	7210.7	7137.8	6966.2	6773.7	6482.5	6114.4	5738.6	5296.5
7.5°	7474.6	7462.9	7516.3	7513.7	7490.3	7338.1	7092.3	6654.1	6089.7	5434.3
10°	6628.1	6658.0	6816.7	6955.8	7331.6	7550.1	7496.8	7135.2	6451.2	5591.7
12.5°	5857.0	5821.9	5935.0	6092.3	6529.3	7179.5	7664.5	7537.1	6864.8	5769.8
15°	5373.2	5358.9	5422.6	5495.5	5828.4	6483.8	7469.4	7863.5	7262.7	5980.5
17.5°	5218.5	5206.8	5226.3	5244.5	5460.3	5967.5	7005.2	8063.7	7643.7	6221.1
20°	5344.6	5329.0	5326.4	5312.1	5401.8	5747.7	6585.2	8078.0	7985.7	6439.5
22.5°	5712.6	5694.4	5630.7	5573.5	5581.3	5777.6	6397.9	7935.0	8243.2	6643.7
25°	6379.7	6349.8	6217.2	6024.7	5902.5	5985.7	6426.5	7746.4	8489.0	6803.6
27.5°	7214.6	7175.6	7005.2	6719.1	6439.5	6338.1	6633.3	7616.4	8693.1	6925.9
30°	8032.5	7981.8	7814.1	7591.7	7183.4	6863.5	7006.5	7673.6	8936.3	7053.3
32.5°	8915.5	8867.4	8645.0	8369.3	8031.2	7600.8	7517.6	7953.2	9234.1	7231.5
35°	10032.5	9957.1	9641.1	9265.3	8906.4	8470.7	8209.4	8435.6	9630.7	7503.3
37.5°	11304.3	11202.9	10862.2	10343.3	9875.2	9387.5	9052.0	9098.8	10212.0	7867.4
40°	12503.3	12410.9	12096.2	11607.3	11019.5	10427.8	10070.2	9966.2	11014.3	8310.8
42.5°	13222.4	13139.2	13006.5	12799.8	12304.3	11700.9	11249.7	11024.7	11963.6	8841.4
45°	13262.7	13189.9	13368.0	13608.6	13511.1	13109.2	12559.2	12147.0	12916.8	9339.4
47.5°	12617.7	12568.3	13109.2	13949.3	14368.0	14537.1	14029.9	13175.6	13703.5	9697.0
50°	10859.6	10841.4	11954.5	13496.8	14694.4	15788.1	15581.3	14132.7	14313.4	9881.7
52.5°	9416.1	9349.8	9998.7	12048.1	14219.8	16446.0	17097.5	15071.5	14739.9	9916.8
55°	7141.7	7083.2	7897.3	9624.2	12689.2	16212.0	18206.8	16040.3	15045.5	9827.1
57.5°	3831.0	3794.5	4823.2	6405.7	9919.4	14807.6	18407.0	17065.0	15303.0	9589.1
60°	1491.5	1485.0	1870.0	3107.9	6028.6	12046.8	17396.6	17680.1	15464.3	9296.5
62.5°	902.5	922.0	984.4	1395.3	2663.2	7483.8	15067.6	16980.5	15572.2	9028.6
65°	746.4	747.7	755.5	958.4	1275.7	3131.3	11343.3	14678.8	15305.6	8551.4
67.5°	639.8	651.5	681.4	760.7	899.9	1373.2	6530.6	11370.6	13684.0	7440.8
70°	504.6	520.2	557.9	625.5	694.4	859.6	2413.5	7565.7	10453.8	5608.6
72.5°	425.2	423.9	443.4	508.5	551.4	604.7	928.5	4239.3	6075.4	2677.5
75°	329.0	342.0	366.7	425.2	451.2	438.2	503.3	1548.8	2176.9	811.4
77.5°	257.5	267.9	290.0	347.2	373.2	310.8	290.0	554.0	699.6	291.3
80°	115.7	124.8	197.7	256.2	304.3	214.6	157.3	283.5	310.8	132.6
82.5°	20.8	35.1	115.7	135.2	156.0	139.1	81.9	146.9	152.1	53.3
85°	1.3	2.6	40.3	49.4	62.4	45.5	24.7	58.5	50.7	18.2
87.5°	0.0	0.0	0.0	1.3	1.3	6.5	7.8	10.4	7.8	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951048
 CATALOG NUMBER: GALN-SB5B-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5081.9	0°	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9	5081.9
5093.6	2.5°	5000.0	4815.3	4635.9	4489.0	4403.1	4257.5	4161.3	4145.6	4105.3	4140.4
5106.6	5°	4903.8	4573.5	4239.3	3940.2	3694.4	3377.1	3140.4	3040.3	2953.2	2983.1
5140.4	7.5°	4858.3	4336.8	3816.6	3305.6	2780.2	2273.1	1896.0	1738.6	1619.0	1635.9
5178.2	10°	4797.1	4091.0	3275.7	2495.5	1791.9	1291.3	1031.2	935.0	881.7	883.0
5234.1	12.5°	4750.3	3797.1	2647.6	1691.8	1091.0	824.4	743.8	720.4	704.8	706.1
5318.6	15°	4726.9	3451.2	2027.3	1127.4	780.2	698.3	678.8	668.4	658.0	656.7
5412.2	17.5°	4687.9	3066.3	1483.7	823.1	682.7	654.1	637.2	625.5	612.5	609.9
5492.9	20°	4629.4	2629.4	1084.5	695.7	639.8	617.7	594.3	578.7	563.1	560.5
5543.6	22.5°	4521.5	2167.8	833.6	643.7	608.6	583.9	555.3	537.1	521.5	518.9
5518.9	25°	4321.2	1734.7	702.2	611.2	581.3	551.4	520.2	495.4	481.1	478.5
5465.5	27.5°	4067.6	1362.8	637.2	581.3	546.2	518.9	483.7	460.3	447.3	444.7
5395.3	30°	3768.5	1049.4	599.5	547.5	504.6	481.1	449.9	430.4	422.6	422.6
5345.9	32.5°	3446.0	838.8	583.9	513.7	468.1	442.1	417.4	409.6	407.0	405.7
5373.2	35°	3143.0	728.2	576.1	486.3	435.6	410.9	400.5	401.8	407.0	407.0
5457.7	37.5°	2873.9	693.1	572.2	466.8	407.0	384.9	391.4	403.1	397.9	397.9
5606.0	40°	2630.7	697.0	569.6	452.5	383.6	370.6	383.6	374.5	361.5	360.2
5786.7	42.5°	2444.7	729.5	564.4	440.8	369.3	360.2	355.0	340.7	339.4	342.0
5974.0	45°	2309.5	758.1	563.1	435.6	353.7	336.8	330.3	316.0	342.0	348.5
6050.7	47.5°	2149.5	758.1	563.1	417.4	327.7	321.2	310.8	295.2	321.2	327.7
5977.9	50°	1942.8	710.0	541.0	396.6	306.9	303.0	284.8	265.3	260.1	264.0
5807.5	52.5°	1681.4	622.9	485.0	368.0	286.1	278.3	256.2	241.9	238.0	238.0
5502.0	55°	1383.6	521.5	409.6	326.4	264.0	249.7	234.1	227.6	223.7	221.1
5074.1	57.5°	1124.8	427.8	329.0	290.0	243.2	225.0	219.8	212.0	205.5	201.6
4716.5	60°	923.3	336.8	271.8	257.5	222.4	205.5	204.2	193.8	176.9	174.3
4421.3	62.5°	712.6	247.1	228.9	223.7	201.6	187.3	184.7	163.8	137.8	132.6
4002.6	65°	503.3	192.5	184.7	196.4	179.5	166.5	159.9	128.7	101.4	97.5
3349.8	67.5°	353.7	161.2	145.6	171.7	156.0	139.1	135.2	109.2	84.5	81.9
2533.2	70°	252.3	131.3	119.6	146.9	124.8	122.2	114.4	91.0	68.9	66.3
1253.6	72.5°	178.2	100.1	92.3	127.4	85.8	105.3	93.6	70.2	52.0	49.4
426.5	75°	131.3	71.5	65.0	74.1	62.4	79.3	66.3	46.8	32.5	31.2
192.5	77.5°	96.2	45.5	39.0	36.4	36.4	49.4	36.4	19.5	14.3	13.0
97.5	80°	67.6	20.8	18.2	15.6	14.3	11.7	5.2	2.6	1.3	1.3
33.8	82.5°	40.3	9.1	9.1	6.5	3.9	0.0	0.0	0.0	0.0	0.0
13.0	85°	9.1	3.9	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
5.2	87.5°	1.3	1.3	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

