

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: P947520

Luminaire Tested: **GALN-SB2D-835-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947520  
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-SB2D-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

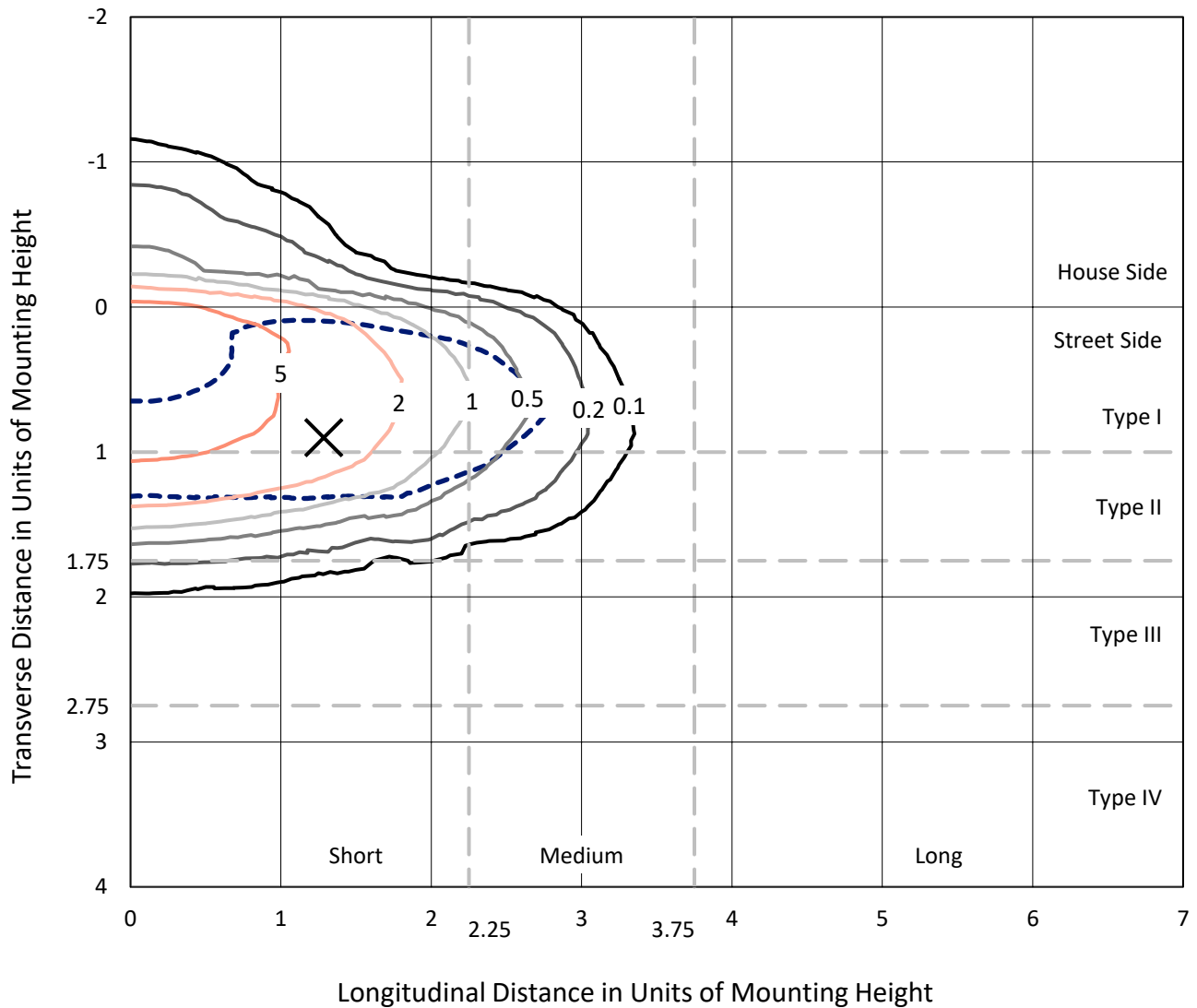
Lumens per Lamp: N/A  
Luminaire Lumens: 16094 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P947520  
 CATALOG NUMBER: GALN-SB2D-835-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

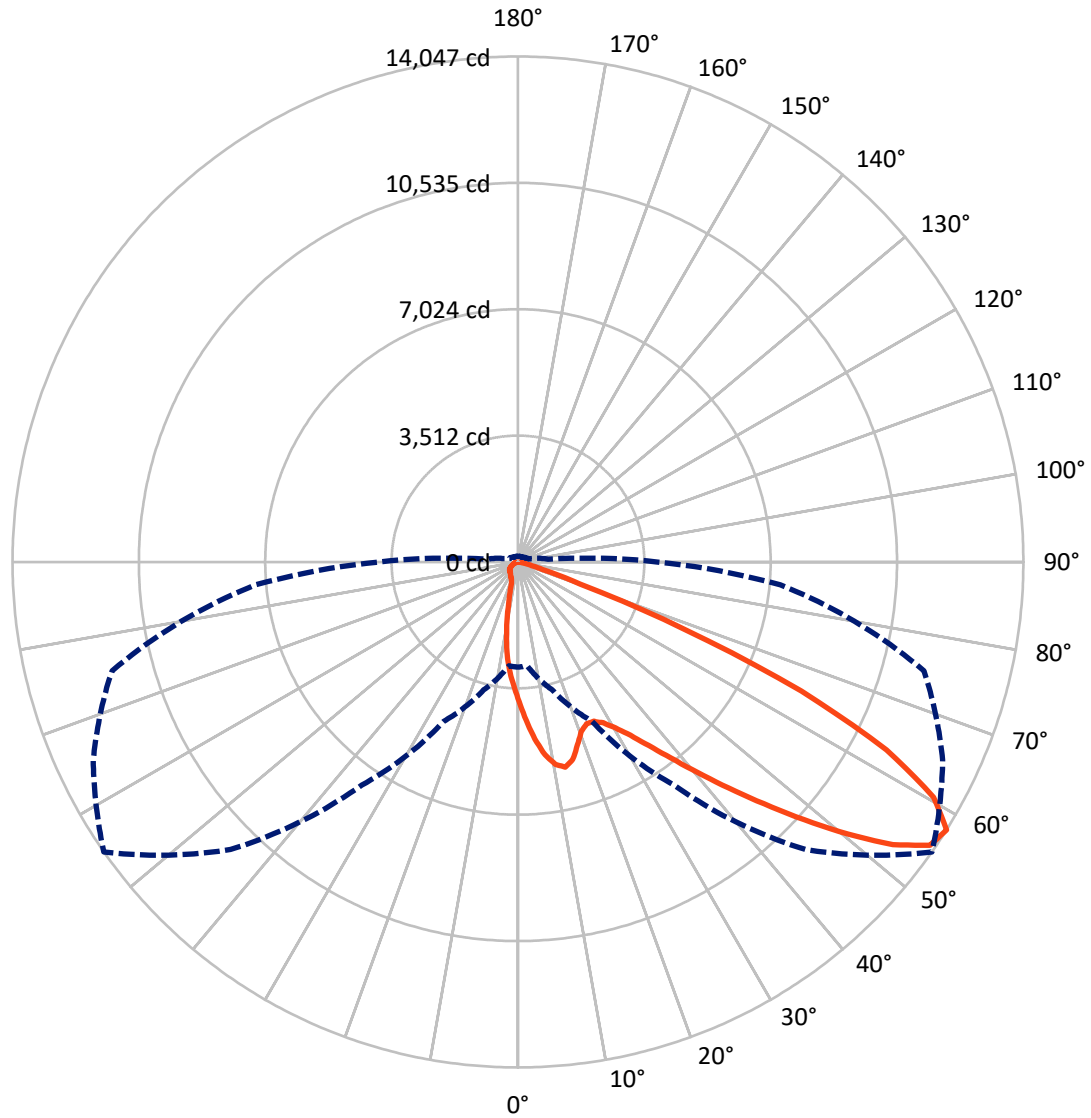
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P947520  
CATALOG NUMBER: GALN-SB2D-835-U-AFL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P947520  
 CATALOG NUMBER: GALN-SB2D-835-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1256.9	0.0	1256.9
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	14837.1	0.0	14837.1
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	16094.0	0.0	16094.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.8	2.2
10°-20°	871.6	5.4
20°-30°	1394.6	8.7
30°-40°	2360.5	14.7
40°-50°	3875.4	24.1
50°-60°	4259.3	26.5
60°-70°	2443.1	15.2
70°-80°	499.2	3.1
80°-90°	29.4	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°	16094.0	100.0
0°-180°	16094.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947520

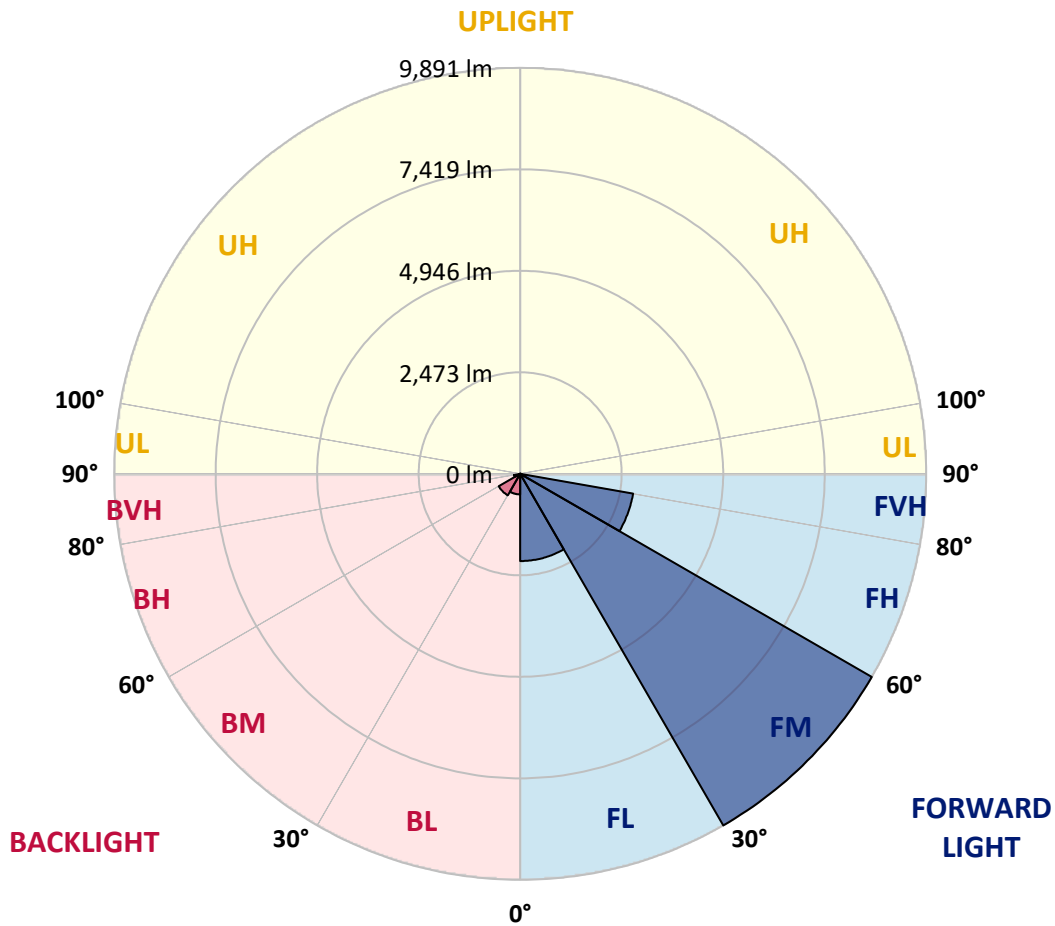
CATALOG NUMBER: GALN-SB2D-835-U-AFL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2125.3	13.2			
FM (30°-60°)	9891.5	61.5			
FH (60°-80°)	2792.9	17.4			G2/5000
FVH (80°-90°)	27.5	0.2			G1/100
BL (0°-30°)	501.8	3.1	B2/1000		
BM (30°-60°)	603.6	3.8	B1/1000		
BH (60°-80°)	149.5	0.9	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



REPORT NUMBER: P947520

CATALOG NUMBER: GALN-SB2D-835-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3
2.5°	4812.1	4751.6	4742.6	4730.7	4615.6	4529.3	4404.2	4267.3	4113.5	3956.7
5°	5559.4	5511.7	5502.8	5447.2	5316.2	5169.4	4947.1	4666.2	4379.4	4042.0
7.5°	5704.3	5695.3	5736.0	5734.0	5716.2	5600.1	5412.5	5078.1	4647.4	4147.2
10°	5058.2	5081.0	5202.1	5308.3	5595.1	5761.8	5721.1	5445.2	4923.2	4267.3
12.5°	4469.7	4442.9	4529.3	4649.3	4982.8	5479.0	5849.1	5751.9	5238.8	4403.2
15°	4100.6	4089.6	4138.3	4193.8	4447.9	4948.1	5700.3	6001.0	5542.5	4564.0
17.5°	3982.5	3973.5	3988.4	4002.3	4167.0	4554.1	5346.0	6153.8	5833.3	4747.6
20°	4078.7	4066.8	4064.8	4053.9	4122.4	4386.4	5025.5	6164.7	6094.3	4914.3
22.5°	4359.6	4345.7	4297.0	4253.4	4259.3	4409.2	4882.6	6055.6	6290.8	5070.1
25°	4868.7	4845.8	4744.6	4597.7	4504.5	4568.0	4904.4	5911.7	6478.3	5192.2
27.5°	5505.8	5476.0	5346.0	5127.7	4914.3	4836.9	5062.2	5812.4	6634.1	5285.5
30°	6130.0	6091.3	5963.3	5793.6	5482.0	5237.8	5347.0	5856.1	6819.7	5382.7
32.5°	6803.8	6767.1	6597.4	6387.0	6129.0	5800.5	5737.0	6069.5	7047.0	5518.7
35°	7656.3	7598.7	7357.6	7070.8	6796.9	6464.4	6265.0	6437.6	7349.6	5726.1
37.5°	8626.8	8549.4	8289.4	7893.5	7536.2	7164.1	6908.0	6943.7	7793.2	6004.0
40°	9541.8	9471.4	9231.2	8858.1	8409.5	7958.0	7685.1	7605.7	8405.5	6342.4
42.5°	10090.6	10027.1	9925.9	9768.1	9390.0	8929.5	8585.2	8413.5	9130.0	6747.3
45°	10121.4	10065.8	10201.8	10385.4	10310.9	10004.3	9584.5	9269.9	9857.4	7127.3
47.5°	9629.2	9591.4	10004.3	10645.4	10964.9	11093.9	10706.9	10054.9	10457.8	7400.2
50°	8287.4	8273.5	9123.0	10300.0	11214.0	12048.6	11890.8	10785.3	10923.2	7541.2
52.5°	7185.9	7135.3	7630.5	9194.5	10851.8	12550.7	13047.9	11501.8	11248.7	7568.0
55°	5450.2	5405.5	6026.8	7344.7	9683.7	12372.1	13894.4	12241.1	11481.9	7499.5
57.5°	2923.6	2895.8	3680.8	4888.5	7569.9	11300.3	14047.3	13023.1	11678.4	7317.9
60°	1138.3	1133.3	1427.1	2371.8	4600.7	9193.5	13276.2	13492.5	11801.5	7094.6
62.5°	688.7	703.6	751.2	1064.8	2032.4	5711.2	11498.8	12958.6	11883.9	6890.2
65°	569.6	570.6	576.6	731.4	973.5	2389.7	8656.6	11202.1	11680.4	6526.0
67.5°	488.3	497.2	520.0	580.5	686.7	1048.0	4983.8	8677.5	10442.9	5678.5
70°	385.0	397.0	425.7	477.3	529.9	656.0	1841.9	5773.7	7977.8	4280.2
72.5°	324.5	323.5	338.4	388.0	420.8	461.5	708.6	3235.2	4636.4	2043.3
75°	251.1	261.0	279.9	324.5	344.4	334.4	384.1	1181.9	1661.3	619.3
77.5°	196.5	204.4	221.3	265.0	284.8	237.2	221.3	422.8	533.9	222.3
80°	88.3	95.3	150.8	195.5	232.2	163.7	120.1	216.3	237.2	101.2
82.5°	15.9	26.8	88.3	103.2	119.1	106.2	62.5	112.1	116.1	40.7
85°	1.0	2.0	30.8	37.7	47.6	34.7	18.9	44.7	38.7	13.9
87.5°	0.0	0.0	0.0	1.0	1.0	5.0	6.0	7.9	6.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947520  
 CATALOG NUMBER: GALN-SB2D-835-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3878.3	0°	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3	3878.3
3887.2	2.5°	3815.7	3674.8	3537.9	3425.7	3360.2	3249.1	3175.6	3163.7	3133.0	3159.8
3897.1	5°	3742.3	3490.2	3235.2	3006.9	2819.4	2577.2	2396.6	2320.2	2253.7	2276.5
3922.9	7.5°	3707.6	3309.6	2912.7	2522.7	2121.7	1734.7	1446.9	1326.8	1235.5	1248.4
3951.7	10°	3660.9	3122.1	2499.8	1904.4	1367.5	985.4	787.0	713.5	672.8	673.8
3994.4	12.5°	3625.2	2897.8	2020.5	1291.1	832.6	629.2	567.6	549.8	537.9	538.9
4058.9	15°	3607.3	2633.8	1547.1	860.4	595.4	532.9	518.0	510.1	502.1	501.2
4130.3	17.5°	3577.6	2340.1	1132.3	628.2	521.0	499.2	486.3	477.3	467.4	465.4
4191.9	20°	3532.9	2006.6	827.7	530.9	488.3	471.4	453.5	441.6	429.7	427.7
4230.6	22.5°	3450.5	1654.3	636.1	491.2	464.4	445.6	423.8	409.9	397.9	396.0
4211.7	25°	3297.7	1323.8	535.9	466.4	443.6	420.8	397.0	378.1	367.2	365.2
4171.0	27.5°	3104.2	1040.0	486.3	443.6	416.8	396.0	369.2	351.3	341.4	339.4
4117.4	30°	2875.9	800.9	457.5	417.8	385.0	367.2	343.4	328.5	322.5	322.5
4079.7	32.5°	2629.8	640.1	445.6	392.0	357.3	337.4	318.6	312.6	310.6	309.6
4100.6	35°	2398.6	555.7	439.6	371.2	332.5	313.6	305.7	306.6	310.6	310.6
4165.1	37.5°	2193.2	528.9	436.7	356.3	310.6	293.7	298.7	307.6	303.7	303.7
4278.2	40°	2007.6	531.9	434.7	345.4	292.8	282.8	292.8	285.8	275.9	274.9
4416.1	42.5°	1865.7	556.7	430.7	336.4	281.8	274.9	270.9	260.0	259.0	261.0
4559.0	45°	1762.5	578.6	429.7	332.5	269.9	257.0	252.1	241.2	261.0	266.0
4617.6	47.5°	1640.4	578.6	429.7	318.6	250.1	245.1	237.2	225.3	245.1	250.1
4562.0	50°	1482.6	541.8	412.8	302.7	234.2	231.2	217.3	202.4	198.5	201.5
4432.0	52.5°	1283.2	475.4	370.2	280.8	218.3	212.4	195.5	184.6	181.6	181.6
4198.8	55°	1055.9	397.9	312.6	249.1	201.5	190.5	178.6	173.7	170.7	168.7
3872.3	57.5°	858.4	326.5	251.1	221.3	185.6	171.7	167.7	161.8	156.8	153.8
3599.4	60°	704.6	257.0	207.4	196.5	169.7	156.8	155.8	147.9	135.0	133.0
3374.1	62.5°	543.8	188.6	174.7	170.7	153.8	142.9	140.9	125.0	105.2	101.2
3054.6	65°	384.1	146.9	140.9	149.9	136.9	127.0	122.1	98.2	77.4	74.4
2556.4	67.5°	269.9	123.1	111.1	131.0	119.1	106.2	103.2	83.4	64.5	62.5
1933.2	70°	192.5	100.2	91.3	112.1	95.3	93.3	87.3	69.5	52.6	50.6
956.7	72.5°	136.0	76.4	70.5	97.3	65.5	80.4	71.5	53.6	39.7	37.7
325.5	75°	100.2	54.6	49.6	56.6	47.6	60.5	50.6	35.7	24.8	23.8
146.9	77.5°	73.4	34.7	29.8	27.8	27.8	37.7	27.8	14.9	10.9	9.9
74.4	80°	51.6	15.9	13.9	11.9	10.9	8.9	4.0	2.0	1.0	1.0
25.8	82.5°	30.8	6.9	6.9	5.0	3.0	0.0	0.0	0.0	0.0	0.0
9.9	85°	6.9	3.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4.0	87.5°	1.0	1.0	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

