

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: P944979

Luminaire Tested: **GALN-SB1A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944979
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-SB1A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3327 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

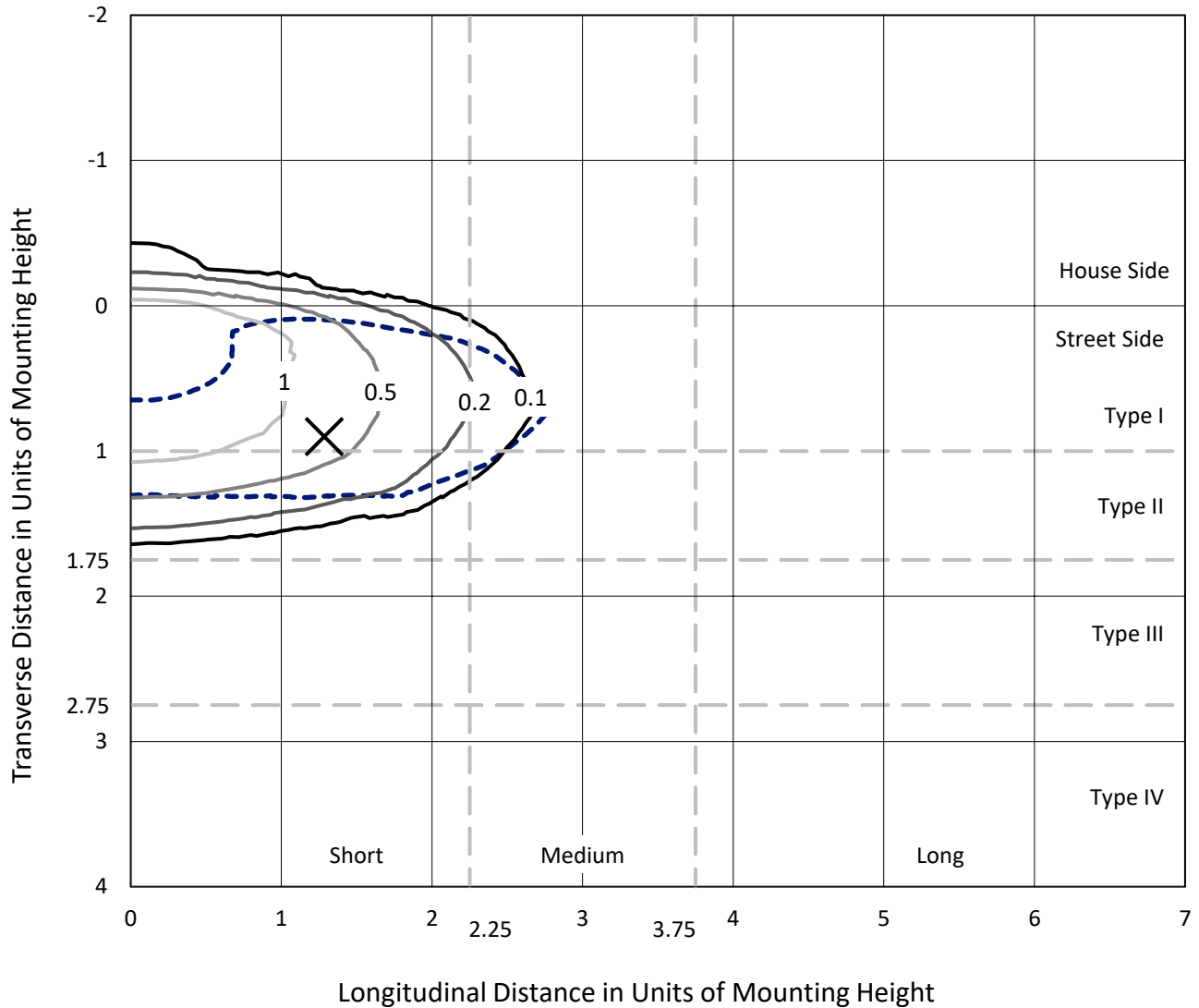
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944979
 CATALOG NUMBER: GALN-SB1A-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

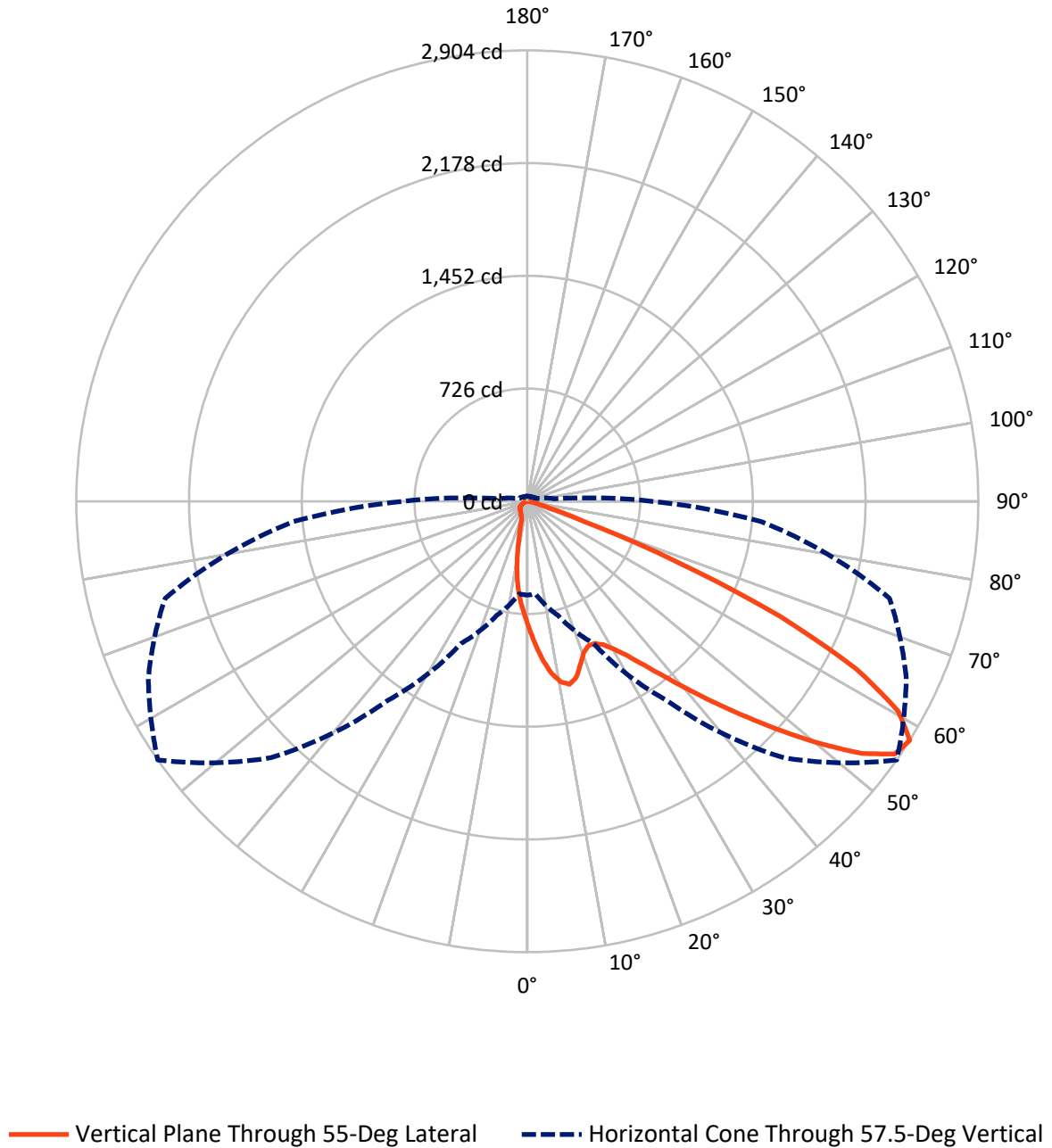
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

REPORT NUMBER: P944979
CATALOG NUMBER: GALN-SB1A-827-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944979
 CATALOG NUMBER: GALN-SB1A-827-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	259.8	0.0	259.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	3067.2	0.0	3067.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	3327.0	0.0	3327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	2.2
10°-20°	180.2	5.4
20°-30°	288.3	8.7
30°-40°	488.0	14.7
40°-50°	801.1	24.1
50°-60°	880.5	26.5
60°-70°	505.1	15.2
70°-80°	103.2	3.1
80°-90°	6.1	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°	3327.0	100.0
0°-180°	3327.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944979

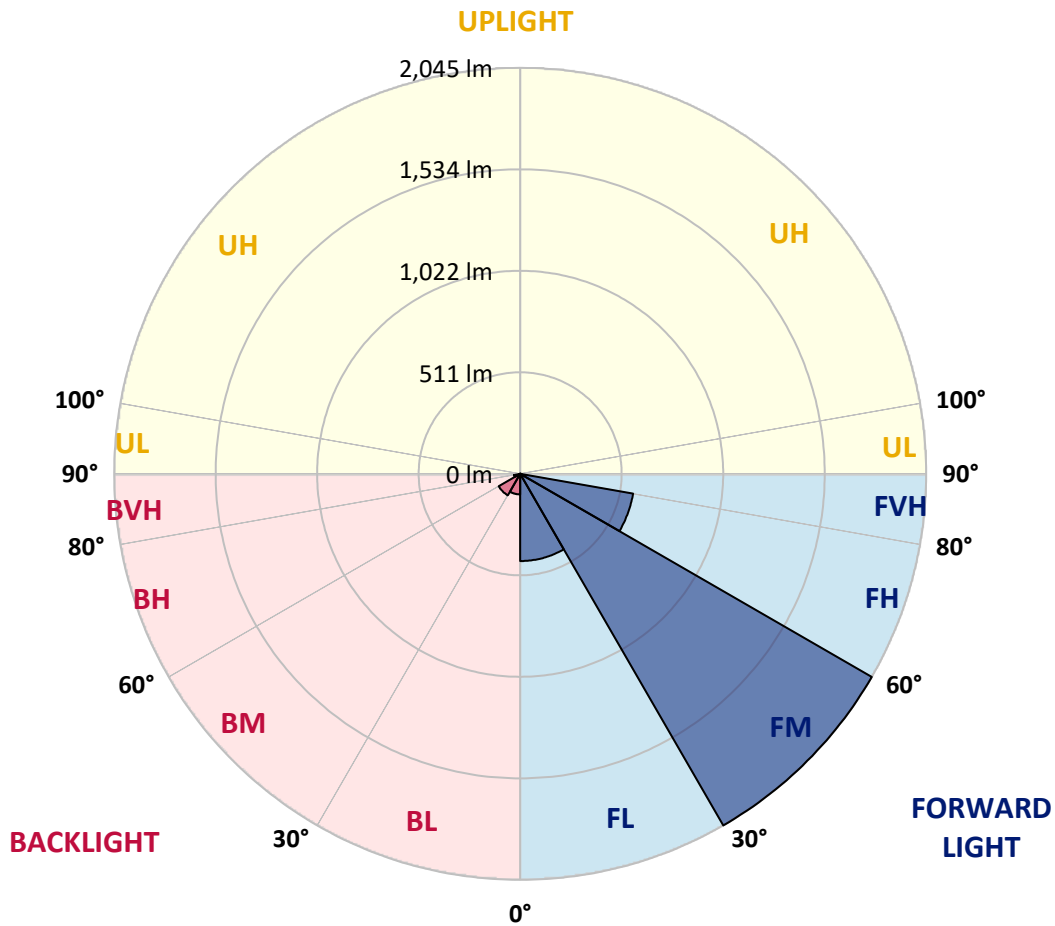
CATALOG NUMBER: GALN-SB1A-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.4	13.2			
FM	(30°-60°)	2044.8	61.5			
FH	(60°-80°)	577.4	17.4			G0/660
FVH	(80°-90°)	5.7	0.2			G0/10
BL	(0°-30°)	103.7	3.1	B0/110		
BM	(30°-60°)	124.8	3.8	B0/220		
BH	(60°-80°)	30.9	0.9	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short



REPORT NUMBER: P944979

CATALOG NUMBER: GALN-SB1A-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7
2.5°	994.8	982.3	980.4	977.9	954.2	936.3	910.5	882.1	850.3	817.9
5°	1149.2	1139.4	1137.6	1126.1	1099.0	1068.6	1022.7	964.6	905.3	835.6
7.5°	1179.2	1177.4	1185.8	1185.4	1181.7	1157.7	1118.9	1049.8	960.7	857.3
10°	1045.6	1050.4	1075.4	1097.3	1156.6	1191.1	1182.7	1125.7	1017.7	882.1
12.5°	924.0	918.5	936.3	961.1	1030.1	1132.6	1209.2	1189.0	1083.0	910.2
15°	847.7	845.4	855.5	867.0	919.5	1022.9	1178.4	1240.5	1145.8	943.5
17.5°	823.3	821.4	824.5	827.4	861.4	941.4	1105.1	1272.1	1205.9	981.4
20°	843.2	840.7	840.3	838.0	852.2	906.8	1038.9	1274.4	1259.8	1015.9
22.5°	901.2	898.4	888.3	879.3	880.5	911.5	1009.3	1251.8	1300.4	1048.1
25°	1006.5	1001.7	980.8	950.5	931.2	944.3	1013.8	1222.1	1339.2	1073.3
27.5°	1138.2	1132.0	1105.1	1060.0	1015.9	999.9	1046.5	1201.6	1371.4	1092.6
30°	1267.2	1259.2	1232.7	1197.7	1133.2	1082.8	1105.3	1210.6	1409.8	1112.7
32.5°	1406.5	1398.9	1363.8	1320.3	1267.0	1199.1	1186.0	1254.7	1456.8	1140.8
35°	1582.7	1570.8	1521.0	1461.7	1405.1	1336.3	1295.1	1330.8	1519.3	1183.7
37.5°	1783.4	1767.4	1713.6	1631.8	1557.9	1481.0	1428.0	1435.4	1611.0	1241.2
40°	1972.5	1957.9	1908.3	1831.2	1738.4	1645.1	1588.7	1572.3	1737.6	1311.1
42.5°	2086.0	2072.8	2051.9	2019.3	1941.1	1845.9	1774.8	1739.3	1887.4	1394.8
45°	2092.3	2080.8	2108.9	2146.9	2131.5	2068.1	1981.3	1916.3	2037.8	1473.4
47.5°	1990.6	1982.8	2068.1	2200.6	2266.7	2293.4	2213.4	2078.6	2161.9	1529.8
50°	1713.2	1710.3	1885.9	2129.2	2318.2	2490.7	2458.1	2229.6	2258.1	1558.9
52.5°	1485.5	1475.0	1577.4	1900.7	2243.3	2594.5	2697.3	2377.7	2325.4	1564.5
55°	1126.7	1117.5	1245.9	1518.3	2001.9	2557.6	2872.3	2530.5	2373.6	1550.3
57.5°	604.4	598.6	760.9	1010.6	1564.9	2336.0	2903.9	2692.2	2414.2	1512.8
60°	235.3	234.3	295.0	490.3	951.1	1900.5	2744.5	2789.2	2439.6	1466.6
62.5°	142.4	145.5	155.3	220.1	420.1	1180.6	2377.1	2678.8	2456.7	1424.4
65°	117.8	118.0	119.2	151.2	201.3	494.0	1789.5	2315.7	2414.6	1349.1
67.5°	100.9	102.8	107.5	120.0	142.0	216.6	1030.3	1793.8	2158.8	1173.9
70°	79.6	82.1	88.0	98.7	109.5	135.6	380.8	1193.6	1649.2	884.8
72.5°	67.1	66.9	70.0	80.2	87.0	95.4	146.5	668.8	958.5	422.4
75°	51.9	54.0	57.9	67.1	71.2	69.1	79.4	244.3	343.4	128.0
77.5°	40.6	42.3	45.7	54.8	58.9	49.0	45.7	87.4	110.4	46.0
80°	18.3	19.7	31.2	40.4	48.0	33.8	24.8	44.7	49.0	20.9
82.5°	3.3	5.5	18.3	21.3	24.6	22.0	12.9	23.2	24.0	8.4
85°	0.2	0.4	6.4	7.8	9.8	7.2	3.9	9.2	8.0	2.9
87.5°	0.0	0.0	0.0	0.2	0.2	1.0	1.2	1.6	1.2	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944979
 CATALOG NUMBER: GALN-SB1A-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
801.7	0°	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7	801.7
803.6	2.5°	788.8	759.7	731.4	708.2	694.6	671.7	656.5	654.0	647.7	653.2
805.6	5°	773.6	721.5	668.8	621.6	582.8	532.8	495.4	479.6	465.9	470.6
811.0	7.5°	766.4	684.2	602.1	521.5	438.6	358.6	299.1	274.3	255.4	258.1
816.9	10°	756.8	645.4	516.8	393.7	282.7	203.7	162.7	147.5	139.1	139.3
825.7	12.5°	749.4	599.0	417.7	266.9	172.1	130.1	117.3	113.7	111.2	111.4
839.1	15°	745.7	544.5	319.8	177.9	123.1	110.2	107.1	105.4	103.8	103.6
853.8	17.5°	739.6	483.7	234.1	129.9	107.7	103.2	100.5	98.7	96.6	96.2
866.6	20°	730.3	414.8	171.1	109.8	100.9	97.4	93.8	91.3	88.8	88.4
874.6	22.5°	713.3	342.0	131.5	101.5	96.0	92.1	87.6	84.7	82.3	81.9
870.7	25°	681.7	273.7	110.8	96.4	91.7	87.0	82.1	78.2	75.9	75.5
862.2	27.5°	641.7	215.0	100.5	91.7	86.2	81.9	76.3	72.6	70.6	70.2
851.2	30°	594.5	165.6	94.6	86.4	79.6	75.9	71.0	67.9	66.7	66.7
843.4	32.5°	543.6	132.3	92.1	81.0	73.9	69.8	65.9	64.6	64.2	64.0
847.7	35°	495.8	114.9	90.9	76.7	68.7	64.8	63.2	63.4	64.2	64.2
861.0	37.5°	453.4	109.3	90.3	73.6	64.2	60.7	61.8	63.6	62.8	62.8
884.4	40°	415.0	110.0	89.9	71.4	60.5	58.5	60.5	59.1	57.0	56.8
912.9	42.5°	385.7	115.1	89.0	69.5	58.3	56.8	56.0	53.7	53.5	54.0
942.5	45°	364.3	119.6	88.8	68.7	55.8	53.1	52.1	49.9	54.0	55.0
954.6	47.5°	339.1	119.6	88.8	65.9	51.7	50.7	49.0	46.6	50.7	51.7
943.1	50°	306.5	112.0	85.3	62.6	48.4	47.8	44.9	41.9	41.0	41.6
916.2	52.5°	265.3	98.3	76.5	58.1	45.1	43.9	40.4	38.2	37.5	37.5
868.0	55°	218.3	82.3	64.6	51.5	41.6	39.4	36.9	35.9	35.3	34.9
800.5	57.5°	177.5	67.5	51.9	45.7	38.4	35.5	34.7	33.4	32.4	31.8
744.1	60°	145.7	53.1	42.9	40.6	35.1	32.4	32.2	30.6	27.9	27.5
697.5	62.5°	112.4	39.0	36.1	35.3	31.8	29.5	29.1	25.8	21.7	20.9
631.5	65°	79.4	30.4	29.1	31.0	28.3	26.3	25.2	20.3	16.0	15.4
528.5	67.5°	55.8	25.4	23.0	27.1	24.6	22.0	21.3	17.2	13.3	12.9
399.6	70°	39.8	20.7	18.9	23.2	19.7	19.3	18.1	14.4	10.9	10.5
197.8	72.5°	28.1	15.8	14.6	20.1	13.5	16.6	14.8	11.1	8.2	7.8
67.3	75°	20.7	11.3	10.3	11.7	9.8	12.5	10.5	7.4	5.1	4.9
30.4	77.5°	15.2	7.2	6.2	5.7	5.7	7.8	5.7	3.1	2.3	2.1
15.4	80°	10.7	3.3	2.9	2.5	2.3	1.8	0.8	0.4	0.2	0.2
5.3	82.5°	6.4	1.4	1.4	1.0	0.6	0.0	0.0	0.0	0.0	0.0
2.1	85°	1.4	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.8	87.5°	0.2	0.2	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

