

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: P946869

Luminaire Tested: **GALN-SB2B-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946869
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-SB2B-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 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: 5844 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

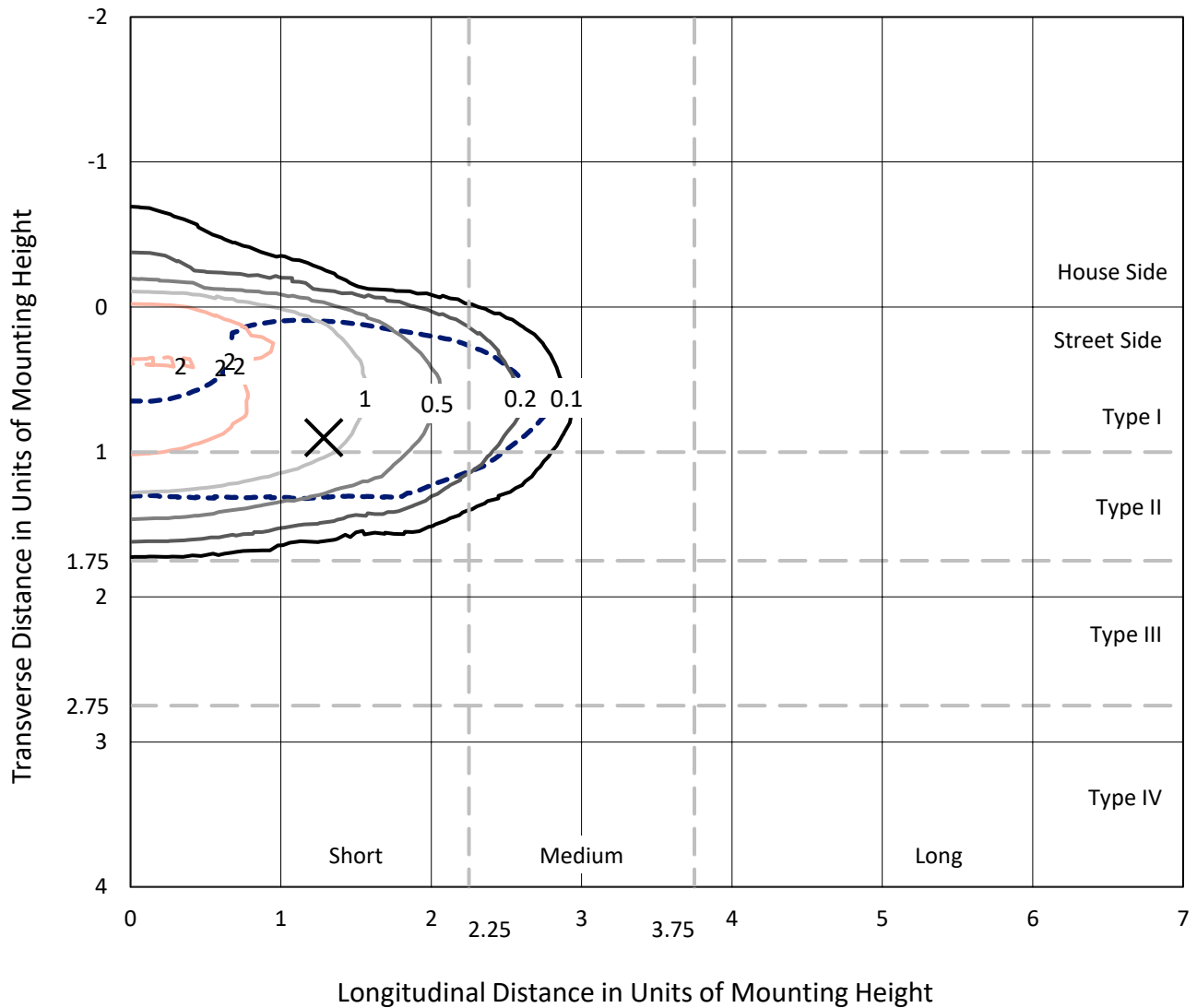
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946869
 CATALOG NUMBER: GALN-SB2B-927-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

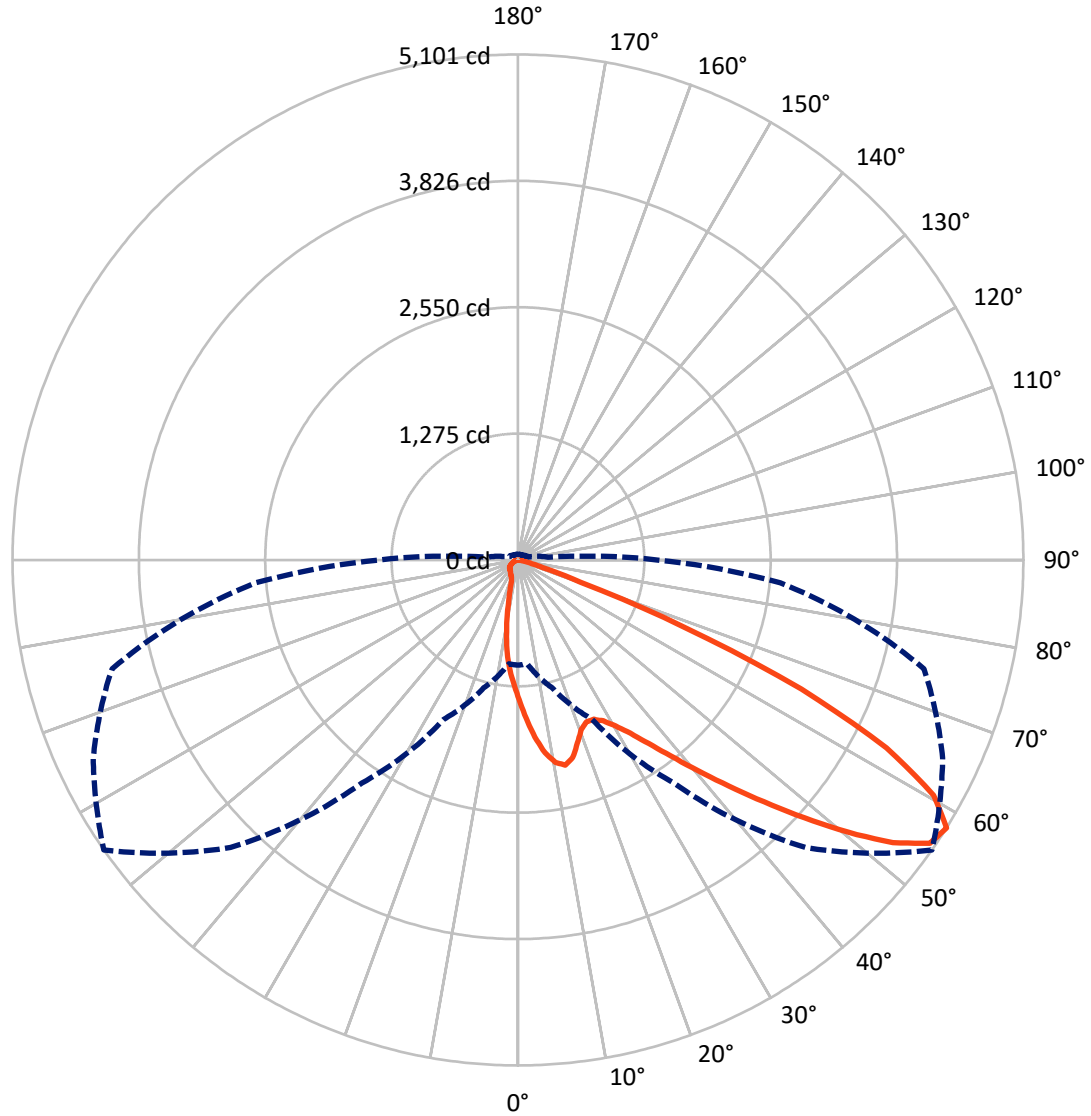
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

REPORT NUMBER: P946869
CATALOG NUMBER: GALN-SB2B-927-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P946869
 CATALOG NUMBER: GALN-SB2B-927-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	456.4	0.0	456.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	5387.6	0.0	5387.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	5844.0	0.0	5844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	2.2
10°-20°	316.5	5.4
20°-30°	506.4	8.7
30°-40°	857.1	14.7
40°-50°	1407.2	24.1
50°-60°	1546.6	26.5
60°-70°	887.1	15.2
70°-80°	181.3	3.1
80°-90°	10.7	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°	5844.0	100.0
0°-180°	5844.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946869

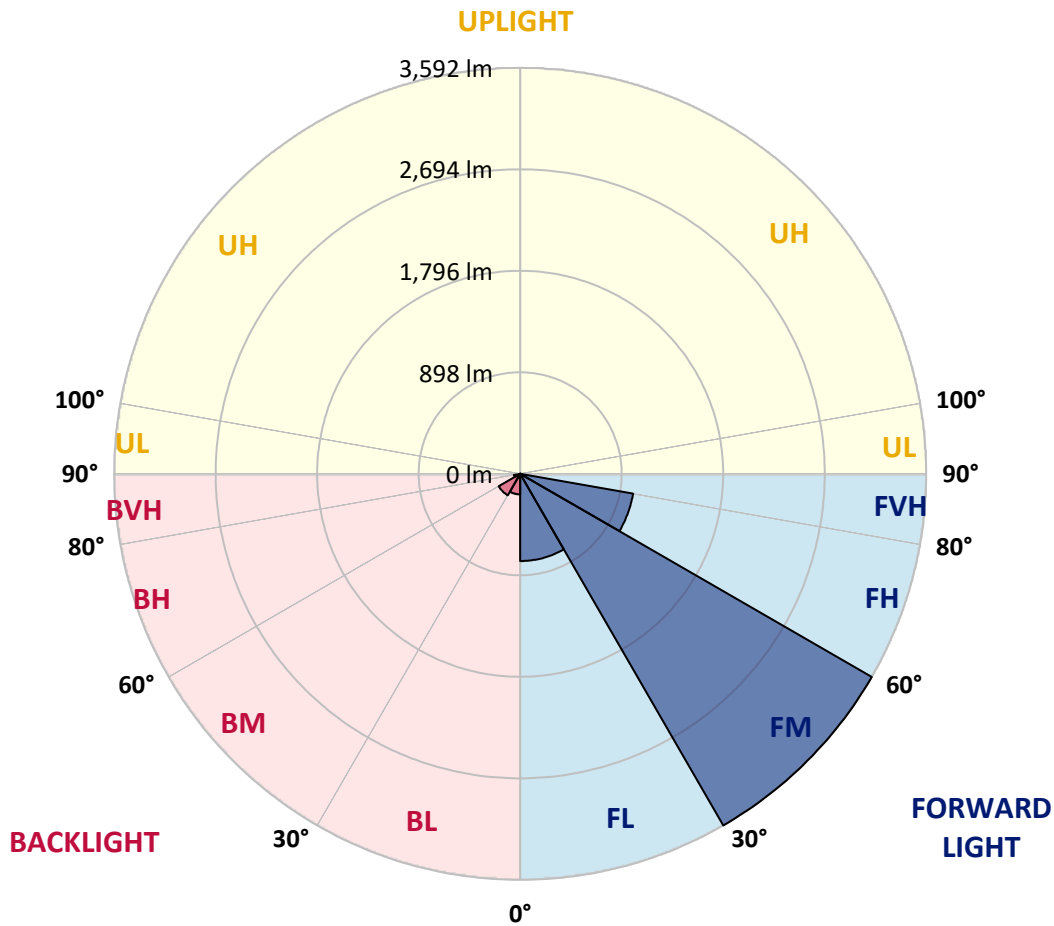
CATALOG NUMBER: GALN-SB2B-927-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.7	13.2			
FM (30°-60°)	3591.8	61.5			
FH (60°-80°)	1014.1	17.4			G1/1800
FVH (80°-90°)	10.0	0.2			G0/10
BL (0°-30°)	182.2	3.1	B1/500		
BM (30°-60°)	219.2	3.8	B0/220		
BH (60°-80°)	54.3	0.9	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
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: P946869

CATALOG NUMBER: GALN-SB2B-927-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1747.4	1725.4	1722.1	1717.8	1676.0	1644.7	1599.2	1549.5	1493.7	1436.7
5°	2018.7	2001.4	1998.2	1978.0	1930.4	1877.1	1796.4	1694.4	1590.2	1467.7
7.5°	2071.3	2068.1	2082.8	2082.1	2075.6	2033.5	1965.4	1843.9	1687.5	1505.9
10°	1836.7	1845.0	1889.0	1927.5	2031.7	2092.2	2077.4	1977.3	1787.7	1549.5
12.5°	1623.0	1613.3	1644.7	1688.3	1809.3	1989.5	2123.9	2088.6	1902.3	1598.9
15°	1489.0	1485.0	1502.7	1522.9	1615.1	1796.7	2069.9	2179.1	2012.6	1657.3
17.5°	1446.1	1442.9	1448.3	1453.3	1513.1	1653.7	1941.2	2234.5	2118.2	1723.9
20°	1481.1	1476.7	1476.0	1472.0	1496.9	1592.8	1824.8	2238.5	2212.9	1784.5
22.5°	1583.0	1578.0	1560.3	1544.5	1546.6	1601.0	1772.9	2198.9	2284.3	1841.0
25°	1767.9	1759.6	1722.8	1669.5	1635.6	1658.7	1780.9	2146.6	2352.4	1885.4
27.5°	1999.2	1988.4	1941.2	1861.9	1784.5	1756.4	1838.2	2110.6	2409.0	1919.2
30°	2225.9	2211.8	2165.4	2103.7	1990.6	1901.9	1941.6	2126.4	2476.3	1954.6
32.5°	2470.6	2457.2	2395.6	2319.2	2225.5	2106.3	2083.2	2203.9	2558.9	2003.9
35°	2780.1	2759.2	2671.7	2567.5	2468.1	2347.3	2274.9	2337.6	2668.8	2079.2
37.5°	3132.5	3104.4	3010.0	2866.2	2736.5	2601.4	2508.4	2521.4	2829.9	2180.1
40°	3464.8	3439.2	3352.0	3216.5	3053.6	2889.7	2790.6	2761.7	3052.2	2303.0
42.5°	3664.1	3641.0	3604.3	3547.0	3409.7	3242.5	3117.4	3055.1	3315.2	2450.0
45°	3675.2	3655.1	3704.4	3771.1	3744.1	3632.7	3480.3	3366.1	3579.4	2588.1
47.5°	3496.5	3482.8	3632.7	3865.5	3981.5	4028.4	3887.8	3651.1	3797.4	2687.2
50°	3009.3	3004.3	3312.7	3740.1	4072.0	4375.0	4317.8	3916.3	3966.4	2738.3
52.5°	2609.3	2590.9	2770.8	3338.7	3940.5	4557.4	4737.9	4176.5	4084.6	2748.1
55°	1979.1	1962.8	2188.4	2667.0	3516.3	4492.5	5045.3	4445.0	4169.3	2723.2
57.5°	1061.6	1051.5	1336.5	1775.1	2748.8	4103.3	5100.8	4728.9	4240.6	2657.2
60°	413.3	411.5	518.2	861.2	1670.6	3338.3	4820.8	4899.4	4285.3	2576.2
62.5°	250.1	255.5	272.8	386.7	738.0	2073.8	4175.4	4705.5	4315.2	2501.9
65°	206.8	207.2	209.4	265.6	353.5	867.7	3143.4	4067.7	4241.4	2369.7
67.5°	177.3	180.5	188.8	210.8	249.4	380.5	1809.7	3150.9	3792.0	2061.9
70°	139.8	144.1	154.6	173.3	192.4	238.2	668.8	2096.5	2896.9	1554.2
72.5°	117.8	117.5	122.9	140.9	152.8	167.6	257.3	1174.8	1683.6	742.0
75°	91.2	94.8	101.6	117.8	125.0	121.4	139.5	429.2	603.2	224.9
77.5°	71.3	74.2	80.4	96.2	103.4	86.1	80.4	153.5	193.9	80.7
80°	32.1	34.6	54.8	71.0	84.3	59.5	43.6	78.6	86.1	36.8
82.5°	5.8	9.7	32.1	37.5	43.2	38.6	22.7	40.7	42.2	14.8
85°	0.4	0.7	11.2	13.7	17.3	12.6	6.8	16.2	14.1	5.0
87.5°	0.0	0.0	0.0	0.4	0.4	1.8	2.2	2.9	2.2	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946869
 CATALOG NUMBER: GALN-SB2B-927-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1408.3	0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
1411.5	2.5°	1385.6	1334.4	1284.7	1243.9	1220.2	1179.8	1153.1	1148.8	1137.6	1147.4
1415.1	5°	1358.9	1267.4	1174.8	1091.9	1023.8	935.8	870.3	842.5	818.4	826.7
1424.5	7.5°	1346.3	1201.8	1057.6	916.0	770.4	629.9	525.4	481.8	448.6	453.3
1434.9	10°	1329.3	1133.7	907.7	691.5	496.6	357.8	285.8	259.1	244.3	244.7
1450.4	12.5°	1316.4	1052.2	733.7	468.8	302.3	228.5	206.1	199.6	195.3	195.7
1473.8	15°	1309.9	956.4	561.8	312.4	216.2	193.5	188.1	185.2	182.3	182.0
1499.8	17.5°	1299.1	849.7	411.2	228.1	189.2	181.3	176.6	173.3	169.7	169.0
1522.1	20°	1282.9	728.6	300.5	192.8	177.3	171.2	164.7	160.4	156.0	155.3
1536.2	22.5°	1252.9	600.7	231.0	178.4	168.6	161.8	153.9	148.8	144.5	143.8
1529.3	25°	1197.5	480.7	194.6	169.4	161.1	152.8	144.1	137.3	133.3	132.6
1514.6	27.5°	1127.2	377.7	176.6	161.1	151.3	143.8	134.1	127.6	124.0	123.2
1495.1	30°	1044.3	290.8	166.1	151.7	139.8	133.3	124.7	119.3	117.1	117.1
1481.4	32.5°	954.9	232.4	161.8	142.3	129.7	122.5	115.7	113.5	112.8	112.4
1489.0	35°	871.0	201.8	159.6	134.8	120.7	113.9	111.0	111.3	112.8	112.8
1512.4	37.5°	796.4	192.1	158.6	129.4	112.8	106.7	108.5	111.7	110.3	110.3
1553.5	40°	729.0	193.1	157.8	125.4	106.3	102.7	106.3	103.8	100.2	99.8
1603.6	42.5°	677.5	202.2	156.4	122.2	102.3	99.8	98.4	94.4	94.1	94.8
1655.5	45°	640.0	210.1	156.0	120.7	98.0	93.3	91.5	87.6	94.8	96.6
1676.7	47.5°	595.7	210.1	156.0	115.7	90.8	89.0	86.1	81.8	89.0	90.8
1656.5	50°	538.4	196.8	149.9	109.9	85.0	84.0	78.9	73.5	72.1	73.2
1609.3	52.5°	465.9	172.6	134.4	102.0	79.3	77.1	71.0	67.0	65.9	65.9
1524.7	55°	383.4	144.5	113.5	90.4	73.2	69.2	64.9	63.1	62.0	61.3
1406.1	57.5°	311.7	118.6	91.2	80.4	67.4	62.3	60.9	58.7	56.9	55.9
1307.0	60°	255.9	93.3	75.3	71.3	61.6	56.9	56.6	53.7	49.0	48.3
1225.2	62.5°	197.5	68.5	63.4	62.0	55.9	51.9	51.2	45.4	38.2	36.8
1109.2	65°	139.5	53.3	51.2	54.4	49.7	46.1	44.3	35.7	28.1	27.0
928.3	67.5°	98.0	44.7	40.4	47.6	43.2	38.6	37.5	30.3	23.4	22.7
702.0	70°	69.9	36.4	33.2	40.7	34.6	33.9	31.7	25.2	19.1	18.4
347.4	72.5°	49.4	27.7	25.6	35.3	23.8	29.2	25.9	19.5	14.4	13.7
118.2	75°	36.4	19.8	18.0	20.5	17.3	22.0	18.4	13.0	9.0	8.6
53.3	77.5°	26.7	12.6	10.8	10.1	10.1	13.7	10.1	5.4	4.0	3.6
27.0	80°	18.7	5.8	5.0	4.3	4.0	3.2	1.4	0.7	0.4	0.4
9.4	82.5°	11.2	2.5	2.5	1.8	1.1	0.0	0.0	0.0	0.0	0.0
3.6	85°	2.5	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
1.4	87.5°	0.4	0.4	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

