

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: P951868

Luminaire Tested: **GALN-SB5D-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31822 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

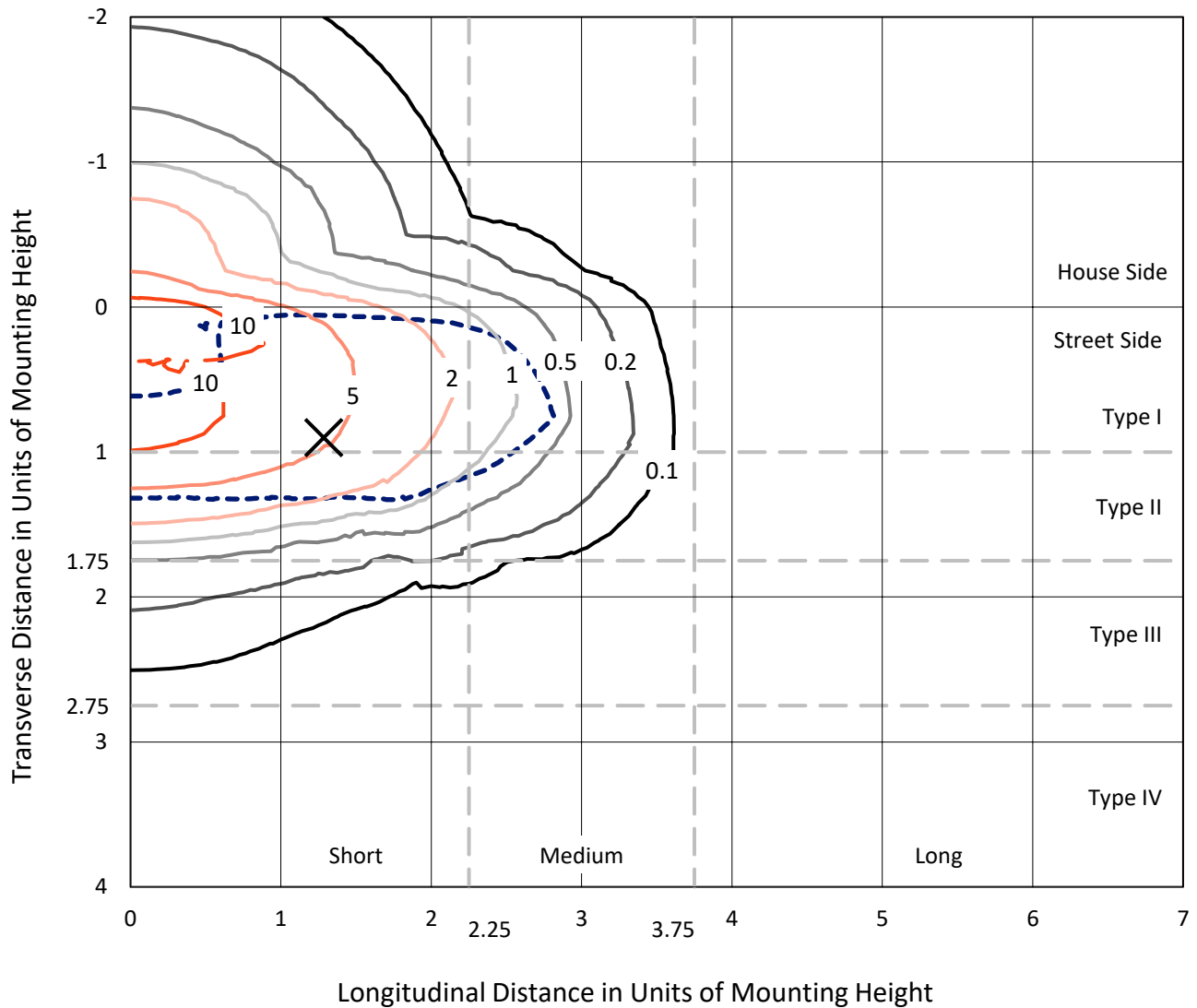
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951868
 CATALOG NUMBER: GALN-SB5D-927-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

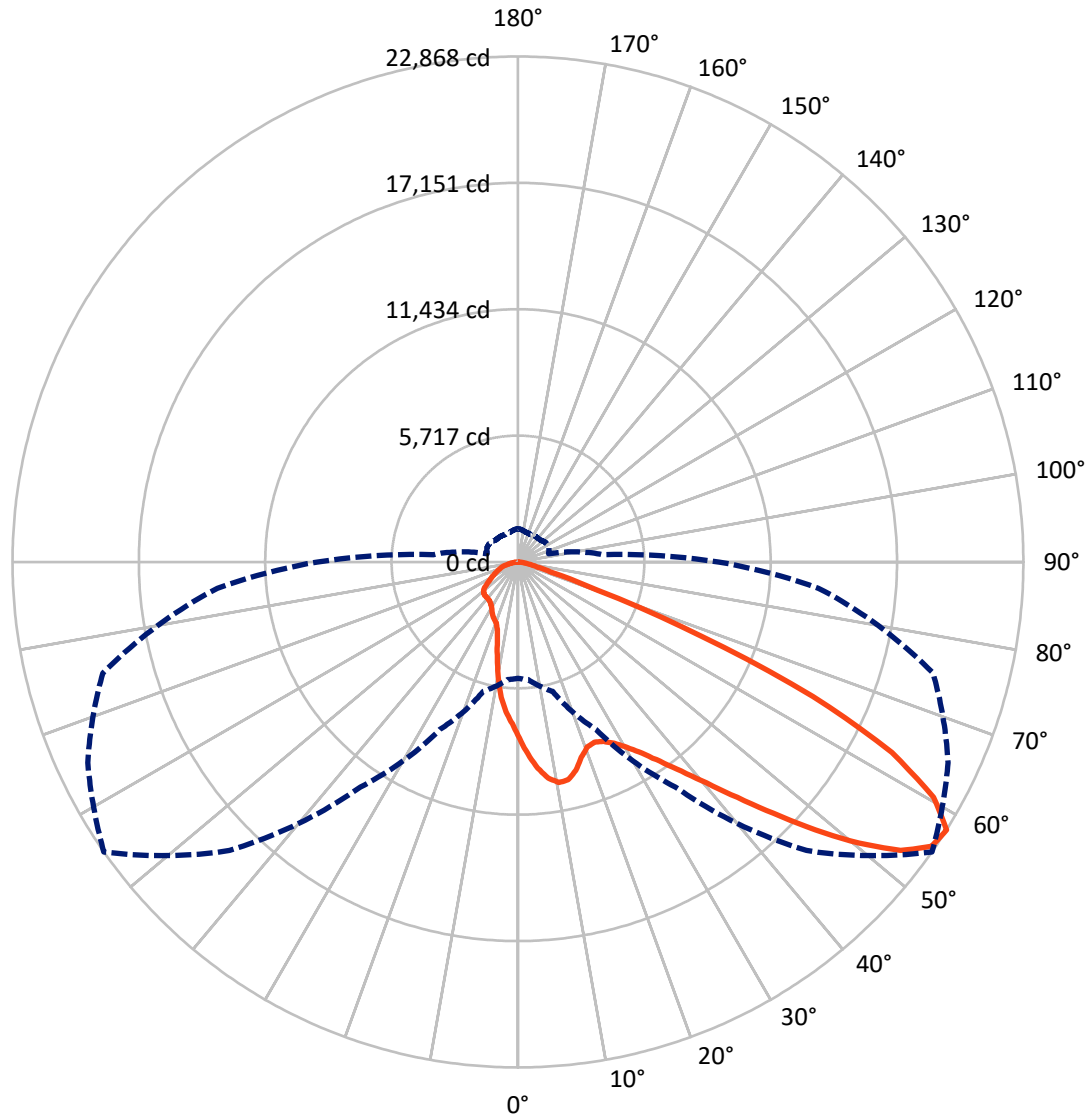
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

REPORT NUMBER: P951868
CATALOG NUMBER: GALN-SB5D-927-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951868
 CATALOG NUMBER: GALN-SB5D-927-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5758.0	0.0	5758.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26064.0	0.0	26064.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	31822.0	0.0	31822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.9	2.3
10°-20°	1867.5	5.9
20°-30°	2980.1	9.4
30°-40°	4718.2	14.8
40°-50°	7221.6	22.7
50°-60°	7735.1	24.3
60°-70°	4866.2	15.3
70°-80°	1439.0	4.5
80°-90°	254.4	0.8
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°	31822.0	100.0
0°-180°	31822.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951868

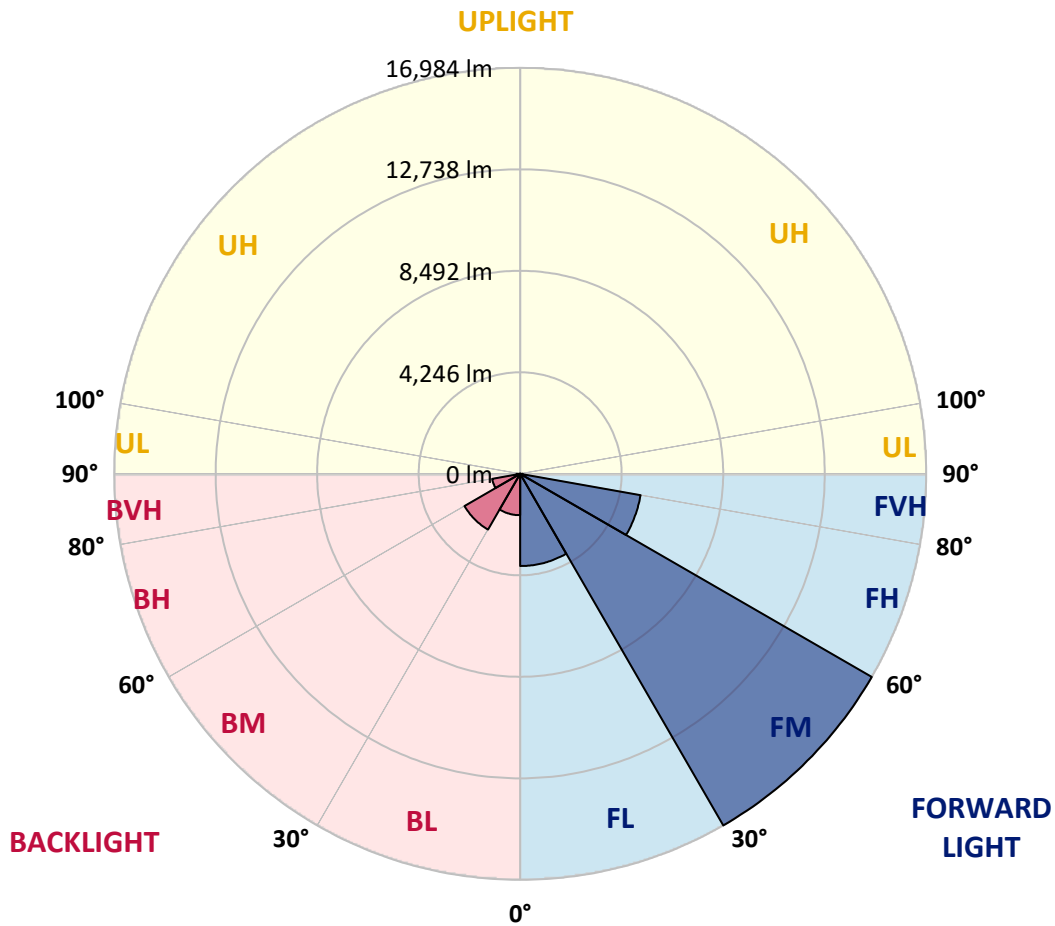
CATALOG NUMBER: GALN-SB5D-927-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3856.8	12.1			
FM (30°-60°)	16983.6	53.4			
FH (60°-80°)	5116.0	16.1			G3/7500
FVH (80°-90°)	107.5	0.3			G2/225
BL (0°-30°)	1730.7	5.4	B3/2500		
BM (30°-60°)	2691.3	8.5	B3/5000		
BH (60°-80°)	1189.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	146.9	0.5			G2/225
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: P951868
 CATALOG NUMBER: GALN-SB5D-927-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6
2.5°	9148.1	9141.5	9177.7	9054.4	8970.5	8857.0	8707.3	8516.4	8310.8	8093.6
5°	9972.3	9914.7	9952.6	9860.4	9768.3	9597.2	9375.1	9064.2	8684.2	8251.6
7.5°	9842.3	9802.9	9899.9	9982.2	10051.3	10029.9	9867.0	9541.3	9051.1	8422.7
10°	8794.4	8750.0	8886.6	9171.2	9589.0	9952.6	10150.0	9947.6	9426.1	8610.2
12.5°	7869.9	7848.5	7939.0	8169.3	8633.2	9330.7	10113.8	10303.0	9816.0	8832.3
15°	7475.1	7448.8	7506.4	7623.2	7919.3	8569.1	9784.8	10546.4	10199.3	9088.9
17.5°	7387.9	7358.3	7383.0	7443.9	7634.7	8129.8	9288.0	10666.5	10599.1	9375.1
20°	7549.1	7524.5	7527.8	7524.5	7657.7	8050.9	8942.5	10620.4	10947.8	9638.4
22.5°	7939.0	7897.9	7899.5	7812.3	7884.7	8189.1	8852.0	10497.1	11258.7	9868.7
25°	8574.0	8500.0	8514.8	8292.7	8273.0	8498.3	8993.5	10401.7	11568.0	10052.9
27.5°	9442.6	9358.7	9314.3	8983.6	8825.7	8937.6	9281.4	10434.6	11860.8	10212.5
30°	10528.3	10426.3	10335.9	9867.0	9580.8	9539.6	9728.8	10651.7	12206.3	10380.3
32.5°	11859.2	11740.7	11576.2	10954.4	10551.4	10335.9	10307.9	11038.3	12611.0	10594.1
35°	13443.4	13288.7	13055.1	12250.7	11740.7	11299.9	11071.2	11596.0	13165.3	10916.6
37.5°	15075.2	14900.9	14687.0	13729.6	13102.8	12453.0	12002.3	12352.7	13904.0	11354.1
40°	16580.5	16384.7	16185.7	15333.5	14660.7	13877.6	13142.3	13310.1	14807.1	11877.3
42.5°	17468.8	17324.0	17248.4	16787.7	16267.9	15473.3	14560.3	14445.2	15822.1	12479.4
45°	17429.3	17370.1	17603.7	17794.5	17671.1	17230.3	16221.8	15700.4	16840.4	13000.8
47.5°	16498.2	16537.7	17059.2	18131.7	18603.9	18834.2	18113.7	16932.5	17725.4	13390.7
50°	13964.8	13997.7	15205.2	17518.1	18844.1	20142.0	19990.7	18135.0	18411.4	13629.2
52.5°	11959.5	11980.9	12499.1	15698.7	18051.1	20800.0	21681.8	19268.5	18913.1	13695.0
55°	9008.3	9082.3	9663.0	12316.5	15988.2	20278.5	22711.6	20436.5	19230.6	13701.6
57.5°	5262.5	5343.1	6060.4	8360.1	12426.7	18460.8	22867.8	21472.8	19446.1	13649.0
60°	2577.8	2612.3	2924.9	4393.9	7662.6	14958.4	21611.0	21974.6	19566.2	13621.0
62.5°	1737.2	1732.2	1745.4	2168.2	3775.4	9610.4	18992.1	21096.1	19502.1	13514.1
65°	1493.7	1475.6	1426.3	1521.7	1956.0	4395.6	14673.9	18473.9	19013.5	13245.9
67.5°	1291.4	1293.0	1294.7	1265.0	1396.6	2028.3	8967.2	14552.1	17259.9	11976.0
70°	1069.3	1084.1	1090.7	1090.7	1138.4	1330.8	3828.0	9973.9	13614.4	9389.9
72.5°	973.9	942.6	945.9	929.5	929.5	1013.4	1541.4	5654.0	8577.3	5282.3
75°	794.6	814.3	817.6	806.1	768.2	773.2	914.6	2372.2	3670.1	2191.2
77.5°	686.0	686.0	692.6	684.3	654.7	579.1	610.3	919.6	1248.6	898.2
80°	551.1	549.4	577.4	593.9	547.8	427.7	389.9	508.3	554.4	394.8
82.5°	268.1	284.6	396.5	452.4	416.2	309.3	238.5	315.8	296.1	174.4
85°	156.3	148.1	177.7	251.7	238.5	171.1	115.2	164.5	154.6	88.8
87.5°	49.4	46.1	36.2	85.5	69.1	47.7	31.3	47.7	42.8	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951868
 CATALOG NUMBER: GALN-SB5D-927-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
7973.6	0°	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6	7973.6
7999.9	2.5°	7883.1	7689.0	7496.5	7320.5	7213.5	7144.5	7075.4	6998.0	6968.4	6924.0
8021.3	5°	7804.1	7429.0	7095.1	6807.2	6545.7	6340.0	6132.7	5965.0	5889.3	5940.3
8088.7	7.5°	7758.1	7215.2	6700.3	6172.2	5663.9	5257.6	4903.9	4655.5	4543.6	4571.6
8154.5	10°	7716.9	6973.4	6188.7	5354.6	4624.2	4120.9	3758.9	3569.8	3499.0	3513.8
8243.3	12.5°	7679.1	6701.9	5571.8	4474.5	3698.1	3365.8	3262.1	3263.8	3276.9	3286.8
8384.8	15°	7672.5	6374.6	4882.5	3704.7	3198.0	3176.6	3288.5	3359.2	3397.0	3408.5
8503.3	17.5°	7662.6	5983.0	4180.1	3179.9	3076.2	3221.0	3324.6	3370.7	3400.3	3402.0
8618.4	20°	7623.2	5486.2	3531.9	2929.8	3049.9	3174.9	3239.1	3275.3	3300.0	3308.2
8705.6	22.5°	7501.4	4933.5	3026.9	2818.0	2944.6	3045.0	3120.7	3161.8	3176.6	3186.5
8722.1	25°	7282.6	4315.0	2678.1	2711.0	2798.2	2924.9	2985.8	2994.0	2989.1	3003.9
8680.9	27.5°	6996.4	3652.0	2461.0	2566.3	2678.1	2786.7	2819.6	2814.7	2804.8	2821.3
8610.2	30°	6650.9	3056.5	2322.8	2403.4	2556.4	2655.1	2684.7	2673.2	2653.5	2671.6
8574.0	32.5°	6285.7	2569.6	2209.3	2289.9	2456.1	2553.1	2582.7	2571.2	2556.4	2571.2
8615.1	35°	5945.2	2229.0	2104.0	2214.2	2377.1	2472.5	2510.3	2512.0	2512.0	2530.1
8723.7	37.5°	5632.7	2030.0	2016.8	2166.5	2322.8	2408.4	2462.6	2465.9	2395.2	2400.1
8907.9	40°	5343.1	1946.1	1977.4	2135.3	2270.2	2352.4	2355.7	2171.5	2041.5	2038.2
9118.5	42.5°	5106.2	1929.6	1988.9	2132.0	2232.3	2235.6	2003.7	1860.6	1824.4	1826.0
9312.6	45°	4884.2	1924.7	2015.2	2132.0	2176.4	1931.3	1775.0	1737.2	1740.5	1753.6
9399.8	47.5°	4635.8	1905.0	2020.1	2102.4	2015.2	1717.4	1671.4	1654.9	1648.3	1651.6
9380.1	50°	4364.3	1834.2	1957.6	2043.2	1738.8	1625.3	1567.7	1562.8	1571.0	1576.0
9269.9	52.5°	4078.1	1719.1	1850.7	1936.2	1612.1	1544.7	1480.5	1492.1	1528.3	1539.8
9154.7	55°	3890.5	1584.2	1709.2	1722.4	1523.3	1469.0	1414.7	1441.1	1508.5	1529.9
9085.6	57.5°	3841.2	1441.1	1548.0	1533.2	1409.8	1403.2	1370.3	1393.4	1478.9	1510.2
9082.3	60°	3826.4	1312.8	1390.1	1378.6	1299.6	1330.8	1322.6	1334.1	1363.7	1373.6
9049.4	62.5°	3711.2	1210.8	1248.6	1232.1	1200.9	1255.2	1274.9	1250.2	1273.3	1284.8
8824.1	65°	3418.4	1128.5	1110.4	1098.9	1112.1	1161.4	1200.9	1151.5	1172.9	1205.8
7955.5	67.5°	2934.8	1016.6	967.3	980.5	1021.6	1047.9	1098.9	1043.0	1061.1	1117.0
6407.5	70°	2373.8	875.2	830.8	868.6	908.1	962.4	970.6	932.7	975.5	1038.0
3910.3	72.5°	1679.6	732.0	700.8	778.1	791.3	862.0	843.9	825.8	885.0	906.4
1932.9	75°	1164.7	590.6	572.5	631.7	679.4	740.3	727.1	748.5	873.5	883.4
965.6	77.5°	737.0	459.0	447.5	485.3	551.1	618.5	639.9	883.4	1492.1	1551.3
501.7	80°	427.7	342.2	329.0	358.6	416.2	478.7	616.9	1084.1	983.7	972.2
225.4	82.5°	238.5	235.2	218.8	227.0	278.0	345.5	871.9	763.3	620.2	639.9
90.5	85°	111.9	138.2	118.4	113.5	156.3	404.7	582.3	435.9	289.5	282.9
19.7	87.5°	29.6	26.3	26.3	29.6	65.8	348.8	232.0	185.9	110.2	106.9
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

