

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: P952834

Luminaire Tested: **GALN-SB6C-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952834
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-SB6C-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40163 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

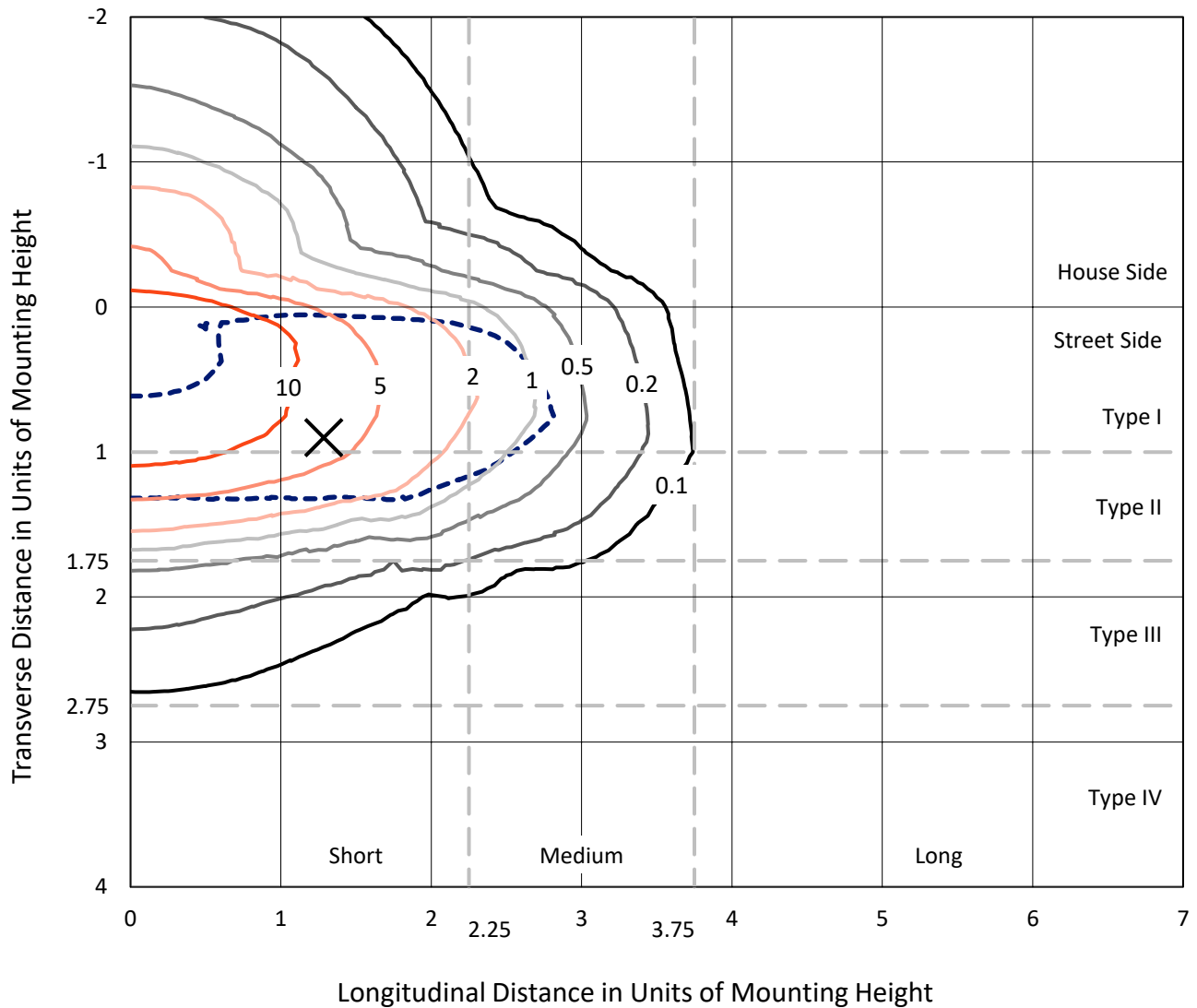
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952834
 CATALOG NUMBER: GALN-SB6C-827-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

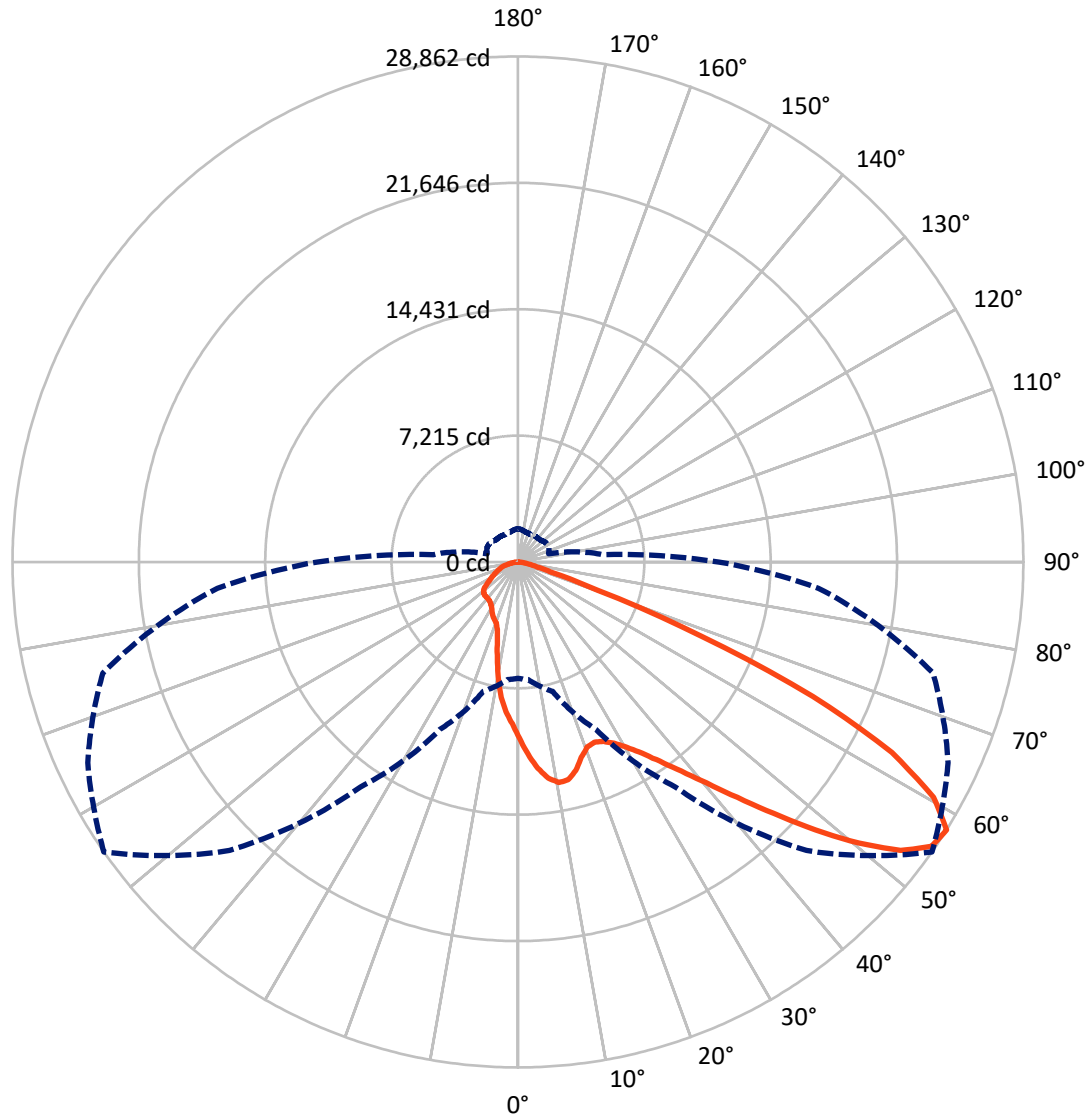
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - N/A

REPORT NUMBER: P952834
CATALOG NUMBER: GALN-SB6C-827-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P952834

CATALOG NUMBER: GALN-SB6C-827-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7267.3	0.0	7267.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32895.7	0.0	32895.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	40163.0	0.0	40163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.8	2.3
10°-20°	2357.0	5.9
20°-30°	3761.2	9.4
30°-40°	5954.9	14.8
40°-50°	9114.5	22.7
50°-60°	9762.5	24.3
60°-70°	6141.7	15.3
70°-80°	1816.2	4.5
80°-90°	321.1	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°	40163.0	100.0
0°-180°	40163.0	100.0

Coefficient of Utilization



REPORT NUMBER: P952834

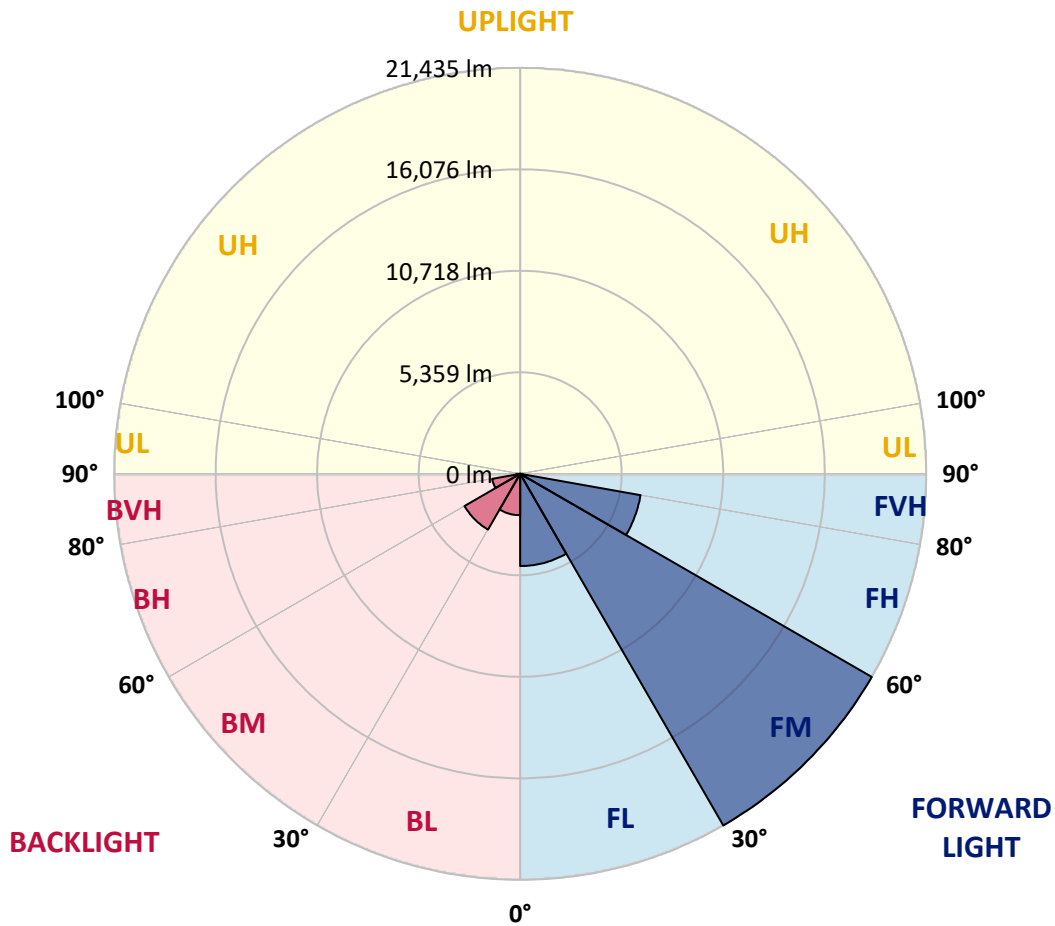
CATALOG NUMBER: GALN-SB6C-827-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4867.8	12.1			
FM (30°-60°)	21435.3	53.4			
FH (60°-80°)	6457.0	16.1			G3/7500
FVH (80°-90°)	135.7	0.3			G2/225
BL (0°-30°)	2184.3	5.4	B3/2500		
BM (30°-60°)	3396.7	8.5	B3/5000		
BH (60°-80°)	1500.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	185.4	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: P952834

CATALOG NUMBER: GALN-SB6C-827-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5
2.5°	11546.0	11537.7	11583.4	11427.6	11321.7	11178.5	10989.5	10748.7	10489.2	10215.1
5°	12586.2	12513.5	12561.3	12445.0	12328.7	12112.8	11832.5	11440.1	10960.5	10414.4
7.5°	12422.2	12372.3	12494.8	12598.6	12685.8	12658.8	12453.3	12042.2	11423.5	10630.4
10°	11099.6	11043.5	11215.9	11575.0	12102.4	12561.3	12810.4	12555.0	11896.9	10867.0
12.5°	9932.7	9905.7	10019.9	10310.6	10896.1	11776.4	12764.7	13003.5	12388.9	11147.3
15°	9434.4	9401.2	9473.9	9621.3	9995.0	10815.1	12349.5	13310.8	12872.7	11471.2
17.5°	9324.4	9287.0	9318.2	9395.0	9635.8	10260.8	11722.5	13462.4	13377.2	11832.5
20°	9527.9	9496.7	9500.9	9496.7	9664.9	10161.1	11286.5	13404.2	13817.4	12164.7
22.5°	10019.9	9968.0	9970.1	9860.1	9951.4	10335.5	11172.3	13248.5	14209.8	12455.4
25°	10821.4	10727.9	10746.6	10466.3	10441.4	10725.9	11350.8	13128.1	14600.1	12687.9
27.5°	11917.6	11811.7	11755.7	11338.4	11139.0	11280.2	11714.2	13169.6	14969.7	12889.3
30°	13287.9	13159.2	13045.0	12453.3	12092.0	12040.1	12278.9	13443.7	15405.7	13101.1
32.5°	14967.6	14818.1	14610.5	13825.7	13317.0	13045.0	13009.7	13931.6	15916.5	13371.0
35°	16967.0	16771.9	16477.1	15461.8	14818.1	14261.7	13973.1	14635.4	16616.2	13777.9
37.5°	19026.7	18806.6	18536.7	17328.3	16537.3	15717.2	15148.3	15590.5	17548.4	14330.2
40°	20926.4	20679.4	20428.1	19352.7	18503.5	17515.2	16587.1	16798.9	18688.3	14990.5
42.5°	22047.6	21864.9	21769.4	21188.0	20532.0	19529.1	18376.8	18231.5	19969.3	15750.4
45°	21997.8	21923.0	22217.9	22458.7	22303.0	21746.6	20473.8	19815.7	21254.5	16408.5
47.5°	20822.6	20872.5	21530.6	22884.3	23480.2	23770.9	22861.5	21370.8	22371.5	16900.6
50°	17625.2	17666.7	19190.7	22109.9	23783.4	25421.5	25230.5	22888.5	23237.3	17201.7
52.5°	15094.3	15121.3	15775.3	19813.6	22782.6	26252.0	27364.9	24319.0	23870.6	17284.7
55°	11369.5	11462.9	12195.8	15544.8	20179.0	25593.8	28664.6	25793.2	24271.3	17293.0
57.5°	6641.9	6743.6	7648.9	10551.5	15683.9	23299.6	28861.8	27101.2	24543.3	17226.6
60°	3253.5	3297.1	3691.6	5545.6	9671.1	18879.3	27275.6	27734.4	24694.8	17191.3
62.5°	2192.5	2186.3	2202.9	2736.5	4765.0	12129.4	23970.2	26625.7	24613.8	17056.3
65°	1885.2	1862.4	1800.1	1920.5	2468.7	5547.7	18520.1	23316.2	23997.2	16717.9
67.5°	1629.8	1631.9	1634.0	1596.6	1762.7	2560.0	11317.6	18366.4	21783.9	15115.0
70°	1349.6	1368.2	1376.5	1376.5	1436.8	1679.7	4831.4	12588.3	17183.0	11851.2
72.5°	1229.1	1189.7	1193.8	1173.1	1173.1	1279.0	1945.4	7136.0	10825.5	6666.8
75°	1002.8	1027.7	1031.9	1017.4	969.6	975.8	1154.4	2993.9	4632.1	2765.6
77.5°	865.8	865.8	874.1	863.7	826.3	730.8	770.3	1160.6	1575.9	1133.6
80°	695.5	693.5	728.8	749.5	691.4	539.8	492.1	641.6	699.7	498.3
82.5°	338.4	359.2	500.4	571.0	525.3	390.3	301.1	398.6	373.7	220.1
85°	197.2	186.9	224.2	317.7	301.1	215.9	145.3	207.6	195.2	112.1
87.5°	62.3	58.1	45.7	108.0	87.2	60.2	39.4	60.2	54.0	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952834
 CATALOG NUMBER: GALN-SB6C-827-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
10063.5	0°	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5	10063.5
10096.8	2.5°	9949.4	9704.4	9461.4	9239.3	9104.3	9017.1	8929.9	8832.3	8795.0	8738.9
10123.8	5°	9849.7	9376.3	8954.8	8591.5	8261.4	8001.8	7740.2	7528.5	7432.9	7497.3
10208.9	7.5°	9791.6	9106.4	8456.5	7790.1	7148.5	6635.7	6189.3	5875.8	5734.6	5769.9
10291.9	10°	9739.7	8801.2	7810.8	6758.2	5836.3	5201.0	4744.2	4505.4	4416.2	4434.9
10404.0	12.5°	9691.9	8458.6	7032.2	5647.4	4667.4	4248.0	4117.2	4119.3	4135.9	4148.3
10582.6	15°	9683.6	8045.4	6162.3	4675.7	4036.2	4009.2	4150.4	4239.7	4287.4	4302.0
10732.1	17.5°	9671.1	7551.3	5275.7	4013.4	3882.6	4065.3	4196.1	4254.2	4291.6	4293.7
10877.4	20°	9621.3	6924.3	4457.7	3697.8	3849.4	4007.1	4088.1	4133.8	4164.9	4175.3
10987.5	22.5°	9467.7	6226.6	3820.3	3556.6	3716.5	3843.1	3938.6	3990.5	4009.2	4021.7
11008.2	25°	9191.5	5446.0	3380.1	3421.6	3531.7	3691.6	3768.4	3778.8	3772.5	3791.2
10956.3	27.5°	8830.3	4609.3	3106.1	3238.9	3380.1	3517.2	3558.7	3552.4	3540.0	3560.8
10867.0	30°	8394.2	3857.7	2931.7	3033.4	3226.5	3351.1	3388.4	3373.9	3349.0	3371.8
10821.4	32.5°	7933.3	3243.1	2788.4	2890.1	3099.8	3222.3	3259.7	3245.2	3226.5	3245.2
10873.3	35°	7503.5	2813.3	2655.5	2794.6	3000.2	3120.6	3168.3	3170.4	3170.4	3193.3
11010.3	37.5°	7109.1	2562.1	2545.5	2734.4	2931.7	3039.6	3108.1	3112.3	3023.0	3029.2
11242.8	40°	6743.6	2456.2	2495.6	2695.0	2865.2	2969.0	2973.2	2740.6	2576.6	2572.5
11508.6	42.5°	6444.7	2435.4	2510.2	2690.8	2817.5	2821.6	2528.9	2348.2	2302.6	2304.6
11753.6	45°	6164.4	2429.2	2543.4	2690.8	2746.9	2437.5	2240.3	2192.5	2196.7	2213.3
11863.6	47.5°	5850.8	2404.3	2549.6	2653.4	2543.4	2167.6	2109.5	2088.7	2080.4	2084.5
11838.7	50°	5508.3	2315.0	2470.7	2578.7	2194.6	2051.3	1978.7	1972.4	1982.8	1989.0
11699.6	52.5°	5147.0	2169.7	2335.8	2443.7	2034.7	1949.6	1868.6	1883.2	1928.8	1943.4
11554.3	55°	4910.3	1999.4	2157.2	2173.8	1922.6	1854.1	1785.6	1818.8	1903.9	1930.9
11467.1	57.5°	4848.0	1818.8	1953.7	1935.1	1779.3	1771.0	1729.5	1758.6	1866.5	1906.0
11462.9	60°	4829.3	1656.8	1754.4	1739.9	1640.2	1679.7	1669.3	1683.8	1721.2	1733.7
11421.4	62.5°	4684.0	1528.1	1575.9	1555.1	1515.7	1584.2	1609.1	1577.9	1607.0	1621.5
11137.0	65°	4314.4	1424.3	1401.5	1386.9	1403.5	1465.8	1515.7	1453.4	1480.4	1521.9
10040.7	67.5°	3704.0	1283.1	1220.8	1237.4	1289.3	1322.6	1386.9	1316.3	1339.2	1409.8
8087.0	70°	2996.0	1104.6	1048.5	1096.3	1146.1	1214.6	1225.0	1177.2	1231.2	1310.1
4935.2	72.5°	2119.8	923.9	884.5	982.1	998.7	1088.0	1065.1	1042.3	1117.0	1144.0
2439.6	75°	1470.0	745.4	722.5	797.3	857.5	934.3	917.7	944.7	1102.5	1114.9
1218.8	77.5°	930.2	579.3	564.7	612.5	695.5	780.7	807.7	1114.9	1883.2	1957.9
633.3	80°	539.8	431.9	415.2	452.6	525.3	604.2	778.6	1368.2	1241.6	1227.1
284.4	82.5°	301.1	296.9	276.1	286.5	350.9	436.0	1100.4	963.4	782.7	807.7
114.2	85°	141.2	174.4	149.5	143.3	197.2	510.8	735.0	550.2	365.4	357.1
24.9	87.5°	37.4	33.2	33.2	37.4	83.0	440.2	292.8	234.6	139.1	135.0
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

