

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: P953926

Luminaire Tested: **GALN-SB7B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953926
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-SB7B-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36596 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

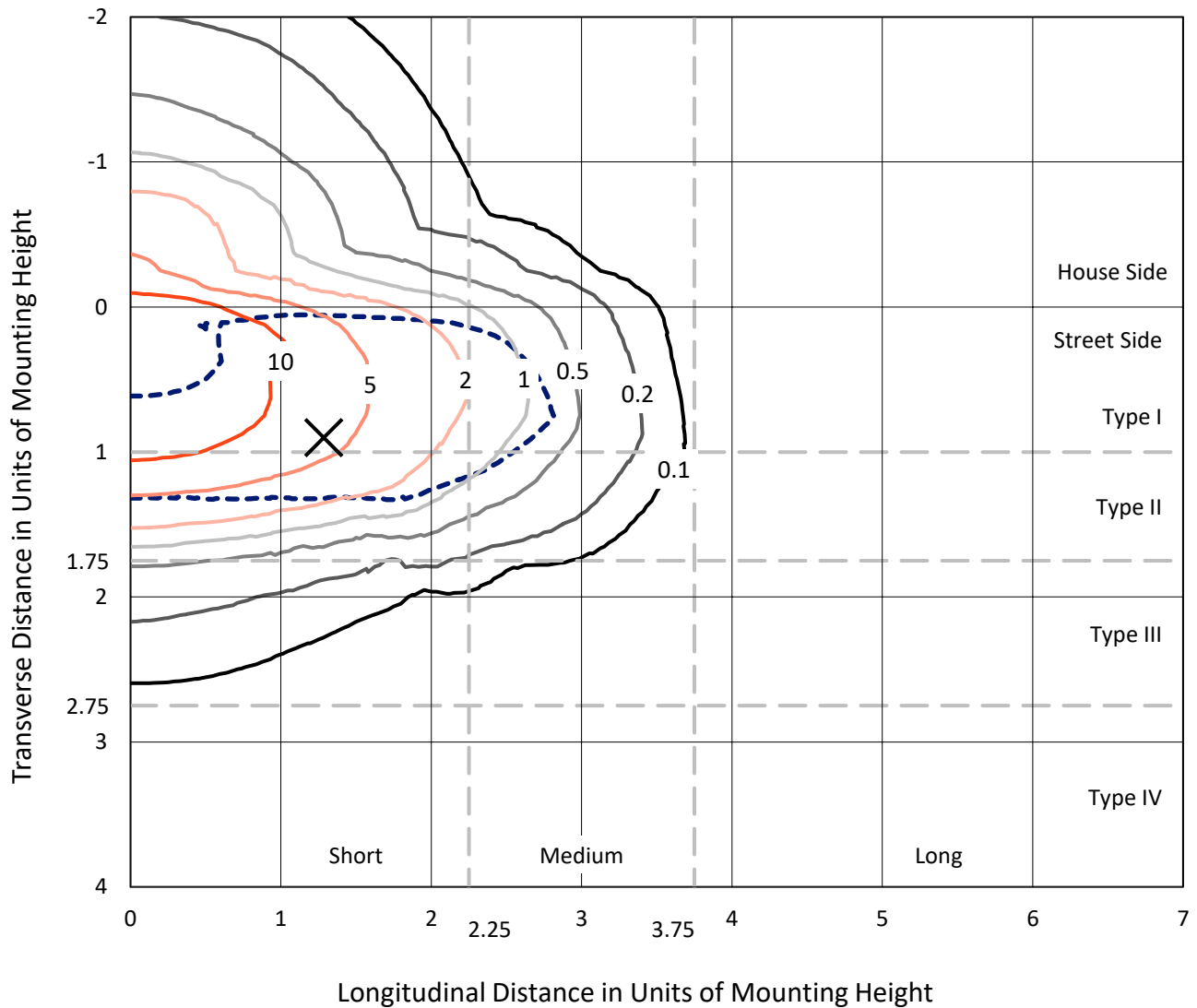
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953926
 CATALOG NUMBER: GALN-SB7B-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

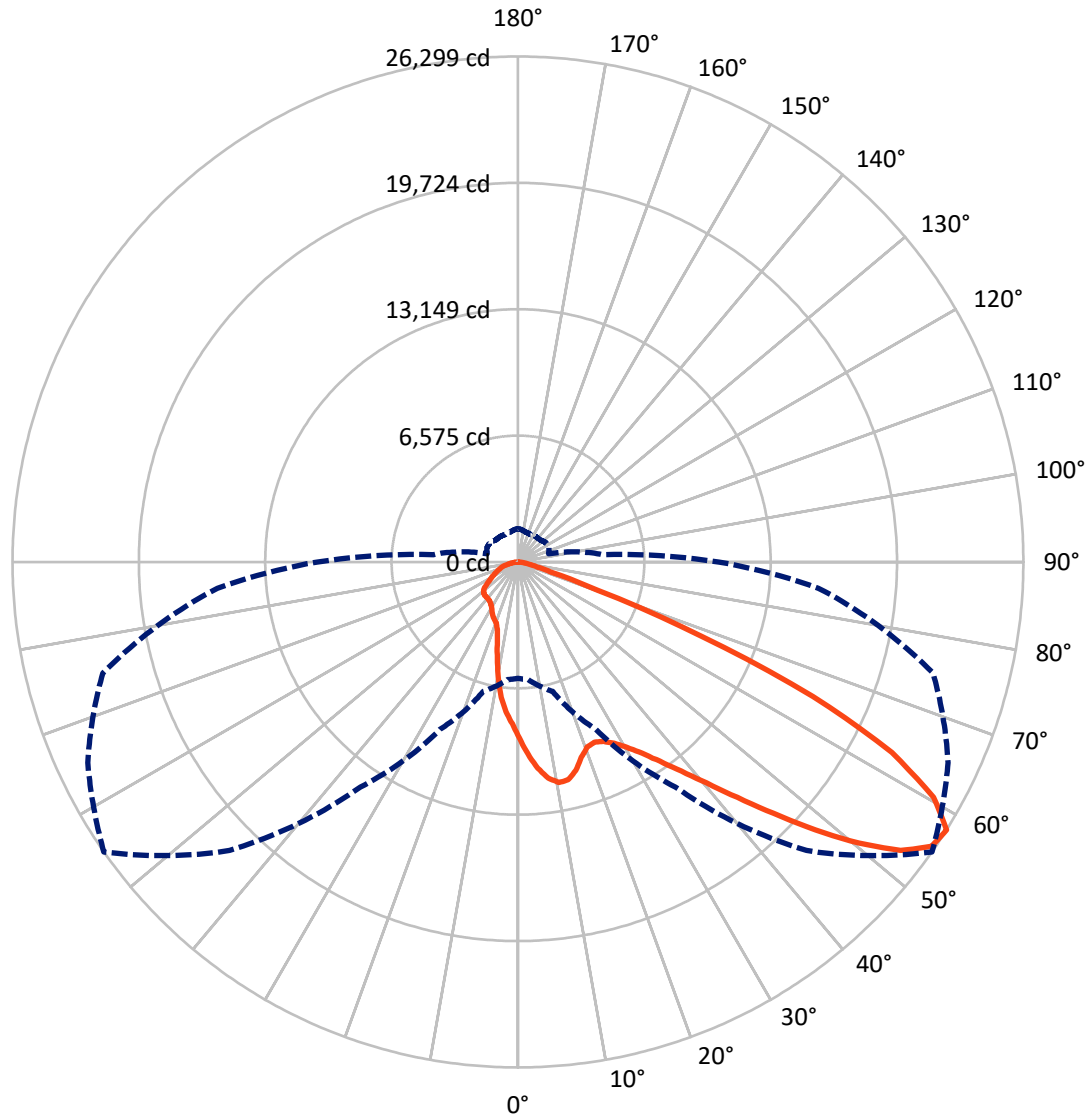
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - N/A

REPORT NUMBER: P953926
CATALOG NUMBER: GALN-SB7B-830-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P953926
 CATALOG NUMBER: GALN-SB7B-830-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6621.9	0.0	6621.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29974.1	0.0	29974.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	36596.0	0.0	36596.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.9	2.3
10°-20°	2147.7	5.9
20°-30°	3427.1	9.4
30°-40°	5426.0	14.8
40°-50°	8305.1	22.7
50°-60°	8895.5	24.3
60°-70°	5596.2	15.3
70°-80°	1654.9	4.5
80°-90°	292.6	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°	36596.0	100.0
0°-180°	36596.0	100.0



REPORT NUMBER: P953926

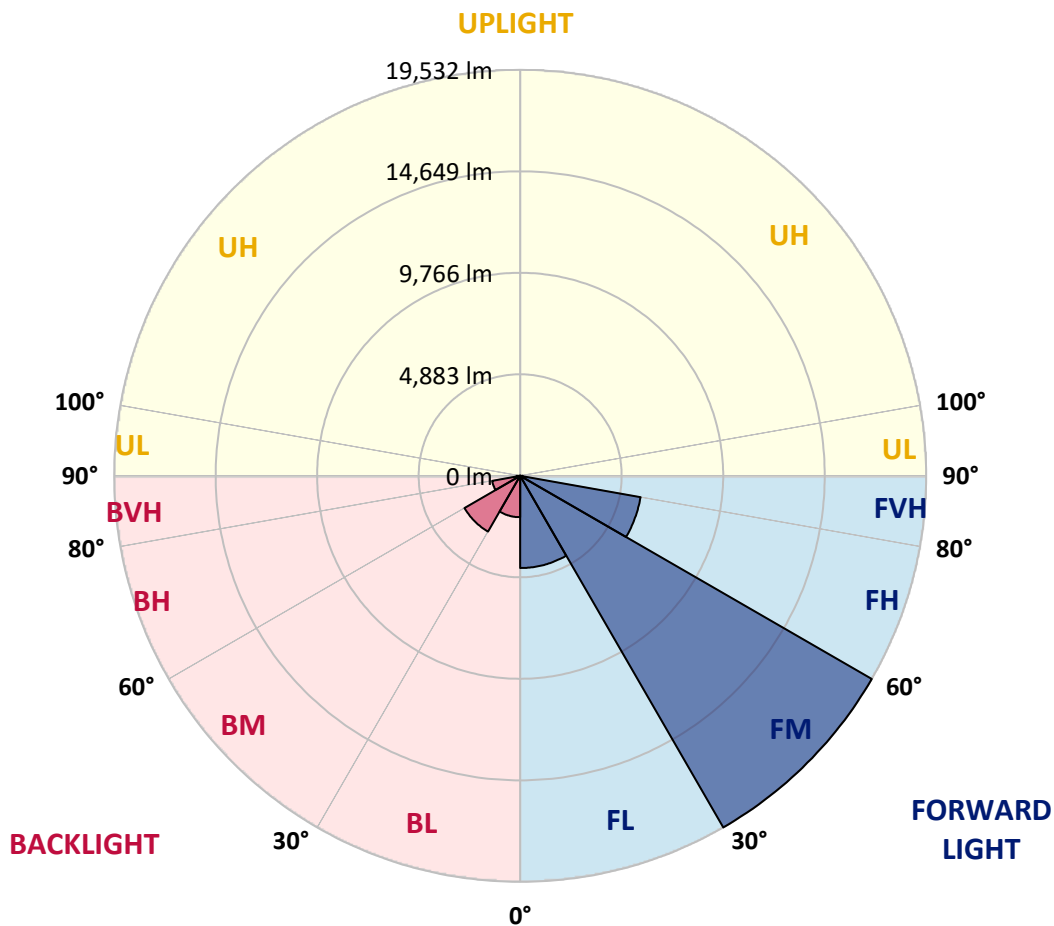
CATALOG NUMBER: GALN-SB7B-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4435.4	12.1			
FM (30°-60°)	19531.6	53.4			
FH (60°-80°)	5883.5	16.1			G3/7500
FVH (80°-90°)	123.6	0.3			G2/225
BL (0°-30°)	1990.3	5.4	B3/2500		
BM (30°-60°)	3095.0	8.5	B3/5000		
BH (60°-80°)	1367.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	169.0	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: P953926
 CATALOG NUMBER: GALN-SB7B-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8
2.5°	10520.5	10513.0	10554.6	10412.7	10316.2	10185.7	10013.5	9794.1	9557.6	9307.9
5°	11468.4	11402.1	11445.7	11339.7	11233.8	11037.0	10781.6	10424.1	9987.0	9489.5
7.5°	11318.9	11273.5	11385.1	11479.7	11559.2	11534.6	11347.3	10972.7	10408.9	9686.2
10°	10113.8	10062.7	10219.7	10547.0	11027.6	11445.7	11672.7	11440.0	10840.3	9901.9
12.5°	9050.6	9026.0	9130.0	9394.9	9928.4	10730.5	11631.1	11848.6	11288.6	10157.3
15°	8596.5	8566.3	8632.5	8766.8	9107.3	9854.6	11252.7	12128.6	11729.4	10452.4
17.5°	8496.3	8462.2	8490.6	8560.6	8780.0	9349.5	10681.4	12266.7	12189.2	10781.6
20°	8681.7	8653.3	8657.1	8653.3	8806.5	9258.7	10284.1	12213.7	12590.2	11084.3
22.5°	9130.0	9082.7	9084.6	8984.4	9067.6	9417.6	10180.0	12071.9	12947.8	11349.2
25°	9860.3	9775.2	9792.2	9536.8	9514.1	9773.3	10342.7	11962.1	13303.4	11561.1
27.5°	10859.2	10762.7	10711.6	10331.4	10149.7	10278.4	10673.8	12000.0	13640.2	11744.6
30°	12107.8	11990.5	11886.5	11347.3	11018.1	10970.8	11188.4	12249.7	14037.5	11937.5
32.5°	13638.3	13502.1	13312.9	12597.8	12134.3	11886.5	11854.3	12694.3	14502.9	12183.5
35°	15460.2	15282.3	15013.7	14088.6	13502.1	12995.1	12732.1	13335.6	15140.4	12554.3
37.5°	17336.9	17136.3	16890.4	15789.3	15068.5	14321.3	13802.9	14205.9	15989.9	13057.5
40°	19067.9	18842.8	18613.9	17633.9	16860.1	15959.6	15113.9	15306.9	17028.5	13659.1
42.5°	20089.5	19923.0	19836.0	19306.3	18708.4	17794.7	16744.7	16612.3	18195.8	14351.5
45°	20044.1	19976.0	20244.6	20464.1	20322.2	19815.2	18655.5	18055.8	19366.8	14951.2
47.5°	18973.3	19018.7	19618.4	20851.9	21394.9	21659.7	20831.1	19472.8	20384.6	15399.6
50°	16059.9	16097.7	17486.3	20146.3	21671.1	23163.7	22989.7	20855.7	21173.5	15673.9
52.5°	13753.7	13778.3	14374.2	18053.9	20759.2	23920.5	24934.5	22159.2	21750.5	15749.6
55°	10359.7	10444.9	11112.7	14164.2	18386.8	23320.8	26118.8	23502.4	22115.7	15757.2
57.5°	6052.0	6144.7	6969.6	9614.4	14291.0	21230.3	26298.5	24694.2	22363.5	15696.6
60°	2964.5	3004.2	3363.7	5053.1	8812.2	17202.5	24853.2	25271.3	22501.6	15664.5
62.5°	1997.8	1992.1	2007.2	2493.5	4341.8	11052.2	21841.3	24261.0	22427.8	15541.5
65°	1717.8	1697.0	1640.2	1750.0	2249.4	5055.0	16875.3	21245.4	21865.9	15233.1
67.5°	1485.1	1487.0	1488.9	1454.8	1606.2	2332.6	10312.4	16735.3	19849.2	13772.6
70°	1229.7	1246.7	1254.3	1254.3	1309.2	1530.5	4402.3	11470.3	15656.9	10798.6
72.5°	1120.0	1084.0	1087.8	1068.9	1068.9	1165.4	1772.7	6502.3	9864.1	6074.7
75°	913.8	936.5	940.2	927.0	883.5	889.2	1051.9	2728.0	4220.7	2519.9
77.5°	788.9	788.9	796.5	787.0	753.0	665.9	701.9	1057.5	1435.9	1032.9
80°	633.8	631.9	664.0	683.0	630.0	491.9	448.4	584.6	637.6	454.0
82.5°	308.4	327.3	455.9	520.3	478.6	355.7	274.3	363.2	340.5	200.5
85°	179.7	170.3	204.3	289.5	274.3	196.8	132.4	189.2	177.8	102.2
87.5°	56.8	53.0	41.6	98.4	79.5	54.9	35.9	54.9	49.2	22.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953926
 CATALOG NUMBER: GALN-SB7B-830-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
9169.8	0°	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8	9169.8
9200.0	2.5°	9065.7	8842.5	8621.1	8418.7	8295.7	8216.3	8136.8	8047.9	8013.9	7962.8
9224.6	5°	8974.9	8543.6	8159.5	7828.5	7527.6	7291.2	7052.8	6859.8	6772.8	6831.5
9302.2	7.5°	8921.9	8297.6	7705.5	7098.2	6513.6	6046.3	5639.6	5353.9	5225.3	5257.4
9377.9	10°	8874.6	8019.5	7117.1	6158.0	5318.0	4739.1	4322.9	4105.3	4024.0	4041.0
9480.0	12.5°	8831.1	7707.4	6407.7	5145.8	4252.9	3870.7	3751.5	3753.4	3768.6	3779.9
9642.7	15°	8823.6	7330.9	5615.0	4260.4	3677.7	3653.2	3781.8	3863.1	3906.7	3919.9
9778.9	17.5°	8812.2	6880.6	4807.2	3656.9	3537.7	3704.2	3823.4	3876.4	3910.4	3912.3
9911.4	20°	8766.8	6309.3	4061.8	3369.4	3507.5	3651.3	3725.0	3766.7	3795.0	3804.5
10011.6	22.5°	8626.8	5673.6	3481.0	3240.7	3386.4	3501.8	3588.8	3636.1	3653.2	3664.5
10030.6	25°	8375.2	4962.3	3079.9	3117.8	3218.0	3363.7	3433.7	3443.2	3437.5	3454.5
9983.3	27.5°	8046.0	4199.9	2830.2	2951.3	3079.9	3204.8	3242.6	3236.9	3225.6	3244.5
9901.9	30°	7648.7	3515.0	2671.3	2764.0	2939.9	3053.4	3087.5	3074.2	3051.5	3072.4
9860.3	32.5°	7228.7	2955.1	2540.7	2633.4	2824.5	2936.1	2970.2	2957.0	2939.9	2957.0
9907.6	35°	6837.1	2563.4	2419.7	2546.4	2733.7	2843.4	2887.0	2888.8	2888.8	2909.7
10032.5	37.5°	6477.7	2334.5	2319.4	2491.6	2671.3	2769.7	2832.1	2835.9	2754.5	2760.2
10244.3	40°	6144.7	2238.1	2274.0	2455.6	2610.7	2705.3	2709.1	2497.2	2347.8	2344.0
10486.5	42.5°	5872.3	2219.1	2287.2	2451.8	2567.2	2571.0	2304.3	2139.7	2098.1	2099.9
10709.7	45°	5616.9	2213.5	2317.5	2451.8	2502.9	2221.0	2041.3	1997.8	2001.6	2016.7
10810.0	47.5°	5331.2	2190.8	2323.2	2417.8	2317.5	1975.1	1922.1	1903.2	1895.6	1899.4
10787.3	50°	5019.1	2109.4	2251.3	2349.7	1999.7	1869.1	1802.9	1797.3	1806.7	1812.4
10660.5	52.5°	4689.9	1977.0	2128.3	2226.7	1854.0	1776.4	1702.7	1715.9	1757.5	1770.8
10528.1	55°	4474.2	1821.8	1965.6	1980.8	1751.8	1689.4	1627.0	1657.3	1734.8	1759.4
10448.7	57.5°	4417.5	1657.3	1780.2	1763.2	1621.3	1613.7	1575.9	1602.4	1700.8	1736.7
10444.9	60°	4400.4	1509.7	1598.6	1585.4	1494.6	1530.5	1521.0	1534.3	1568.3	1579.7
10407.0	62.5°	4268.0	1392.4	1435.9	1417.0	1381.0	1443.5	1466.2	1437.8	1464.3	1477.5
10147.9	65°	3931.3	1297.8	1277.0	1263.8	1278.9	1335.6	1381.0	1324.3	1348.9	1386.7
9149.0	67.5°	3375.1	1169.2	1112.4	1127.5	1174.8	1205.1	1263.8	1199.4	1220.2	1284.6
7368.7	70°	2729.9	1006.5	955.4	998.9	1044.3	1106.7	1116.2	1072.7	1121.9	1193.8
4496.9	72.5°	1931.6	841.9	805.9	894.8	910.0	991.3	970.5	949.7	1017.8	1042.4
2222.9	75°	1339.4	679.2	658.4	726.5	781.3	851.3	836.2	860.8	1004.6	1015.9
1110.5	77.5°	847.5	527.8	514.6	558.1	633.8	711.3	735.9	1015.9	1715.9	1784.0
577.0	80°	491.9	393.5	378.4	412.4	478.6	550.5	709.4	1246.7	1131.3	1118.1
259.2	82.5°	274.3	270.5	251.6	261.1	319.7	397.3	1002.7	877.8	713.2	735.9
104.1	85°	128.6	158.9	136.2	130.5	179.7	465.4	669.7	501.3	333.0	325.4
22.7	87.5°	34.1	30.3	30.3	34.1	75.7	401.1	266.8	213.8	126.8	123.0
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

