

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: P954198

Luminaire Tested: **GALN-SB7C-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954198
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-SB7C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA 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: 48043 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

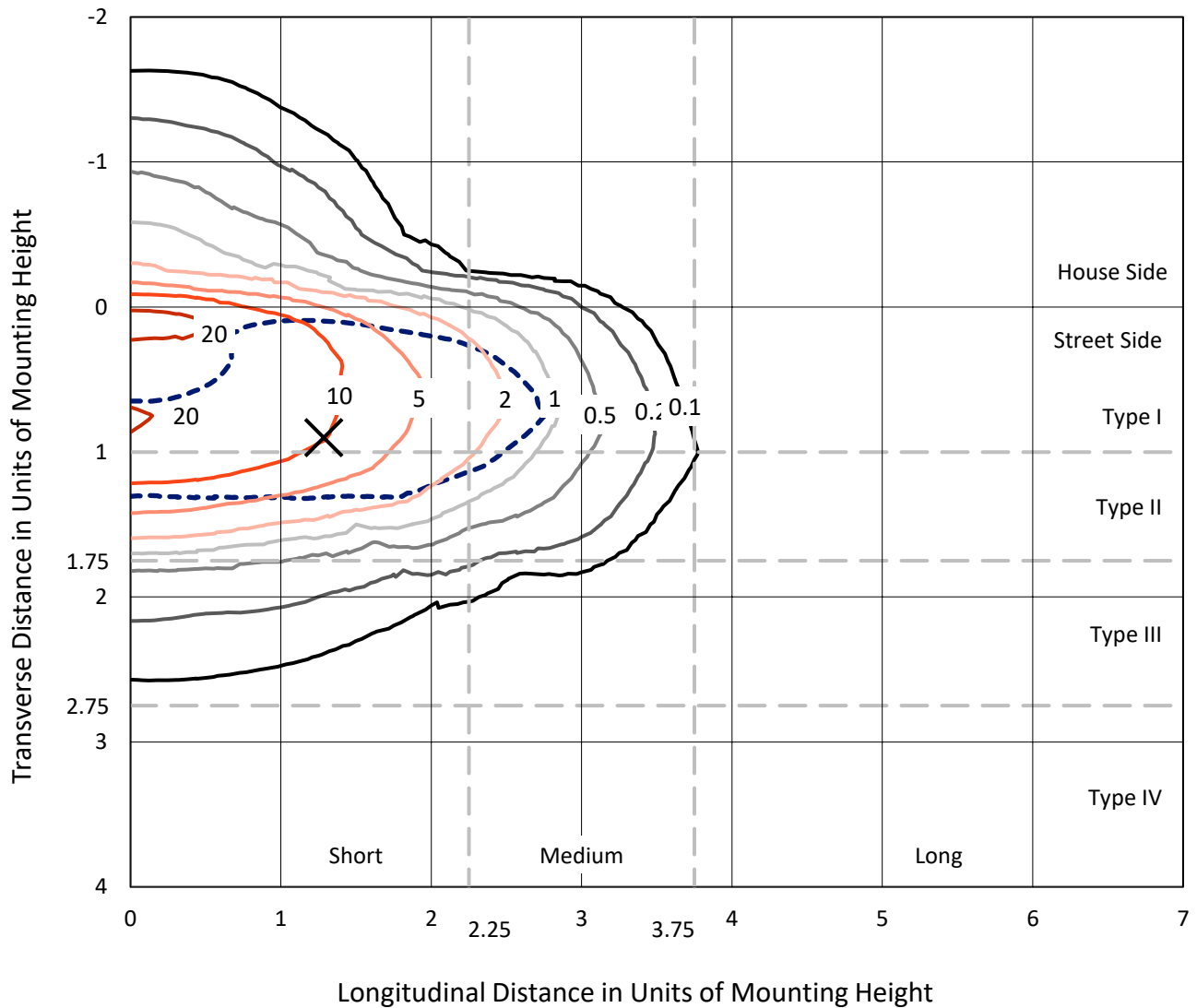
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954198
 CATALOG NUMBER: GALN-SB7C-740-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

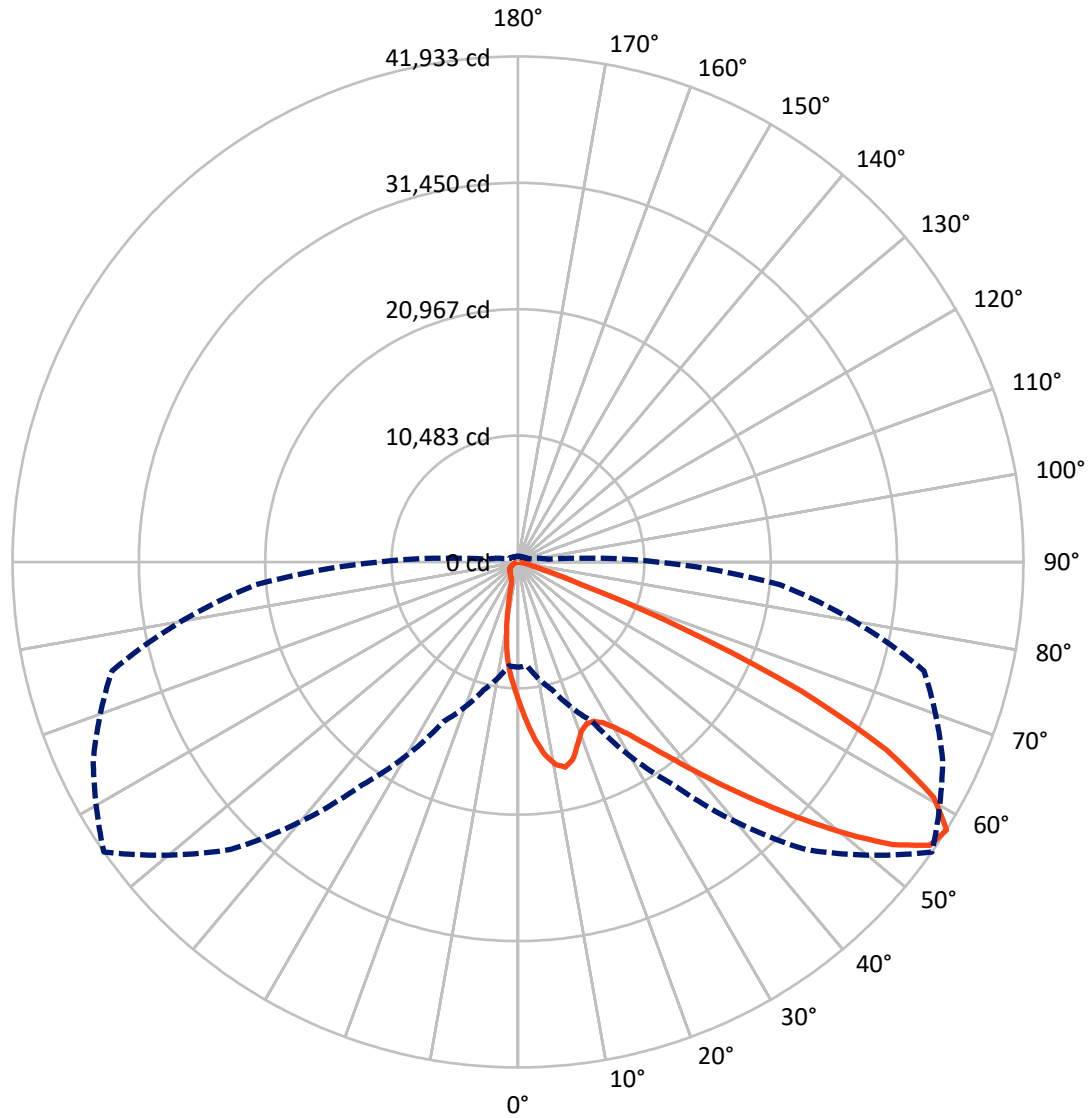
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 fc
 Type II - Short - N/A

REPORT NUMBER: P954198
CATALOG NUMBER: GALN-SB7C-740-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P954198
 CATALOG NUMBER: GALN-SB7C-740-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3752.0	0.0	3752.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	44291.0	0.0	44291.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	48043.0	0.0	48043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.2	2.2
10°-20°	2602.0	5.4
20°-30°	4163.1	8.7
30°-40°	7046.3	14.7
40°-50°	11568.5	24.1
50°-60°	12714.7	26.5
60°-70°	7293.1	15.2
70°-80°	1490.2	3.1
80°-90°	87.9	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°	48043.0	100.0
0°-180°	48043.0	100.0

Coefficient of Utilization



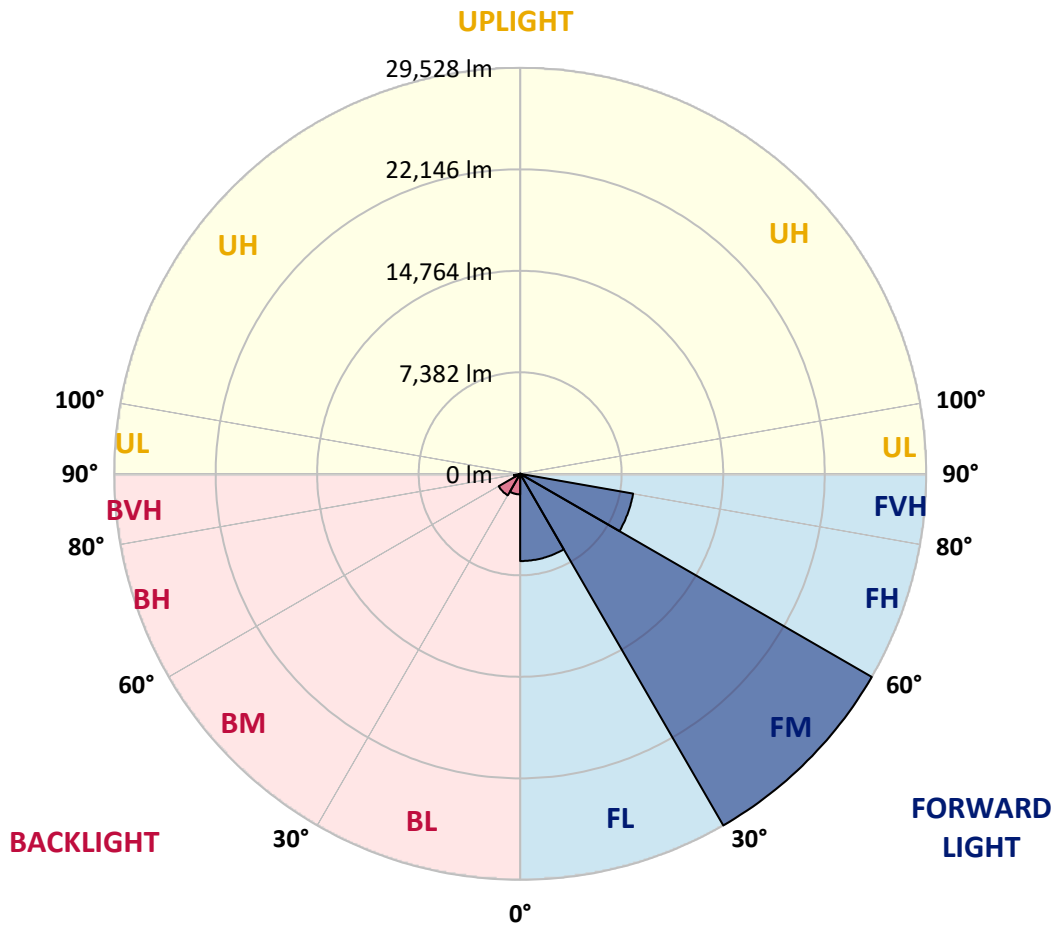
REPORT NUMBER: P954198
 CATALOG NUMBER: GALN-SB7C-740-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6344.4	13.2			
FM (30°-60°)	29527.6	61.5			
FH (60°-80°)	8337.1	17.4			G4/12000
FVH (80°-90°)	82.0	0.2			G1/100
BL (0°-30°)	1497.9	3.1	B3/2500		
BM (30°-60°)	1801.9	3.8	B2/2500		
BH (60°-80°)	446.2	0.9	B1/500		G1/500
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



REPORT NUMBER: P954198
 CATALOG NUMBER: GALN-SB7C-740-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2
2.5°	14364.8	14184.1	14157.5	14121.9	13778.3	13520.5	13147.3	12738.5	12279.3	11811.2
5°	16595.5	16453.3	16426.7	16260.8	15869.7	15431.3	14767.7	13929.3	13073.2	12066.0
7.5°	17028.1	17001.4	17122.8	17116.9	17063.6	16717.0	16157.1	15158.8	13873.1	12380.0
10°	15099.5	15167.6	15529.1	15846.0	16702.2	17199.9	17078.4	16254.9	14696.6	12738.5
12.5°	13342.8	13262.8	13520.5	13879.0	14874.4	16355.6	17460.6	17170.2	15638.7	13144.3
15°	12240.8	12208.2	12353.3	12519.2	13277.6	14770.7	17016.2	17913.8	16545.2	13624.2
17.5°	11888.2	11861.6	11906.0	11947.5	12439.2	13594.6	15958.6	18370.0	17413.2	14172.3
20°	12175.6	12140.0	12134.1	12101.5	12305.9	13093.9	15001.7	18402.6	18192.3	14670.0
22.5°	13014.0	12972.5	12827.3	12697.0	12714.8	13162.1	14575.2	18076.8	18778.8	15135.1
25°	14533.7	14465.5	14163.4	13724.9	13446.5	13636.1	14640.3	17647.2	19338.7	15499.4
27.5°	16435.6	16346.7	15958.6	15306.9	14670.0	14438.9	15111.4	17351.0	19803.8	15777.9
30°	18298.9	18183.4	17801.2	17294.7	16364.5	15635.7	15961.6	17481.3	20357.8	16068.2
32.5°	20310.4	20200.8	19694.2	19066.2	18296.0	17315.4	17125.8	18118.2	21036.2	16474.1
35°	22855.2	22683.3	21963.5	21107.3	20289.7	19297.3	18701.8	19217.3	21939.8	17093.2
37.5°	25752.4	25521.3	24745.2	23563.2	22496.7	21385.8	20621.5	20728.1	23264.0	17922.7
40°	28483.8	28273.4	27556.5	26442.7	25103.6	23755.7	22941.1	22704.1	25091.8	18932.9
42.5°	30122.0	29932.4	29630.2	29159.2	28030.5	26656.0	25628.0	25115.5	27254.4	20141.6
45°	30213.8	30047.9	30453.8	31001.8	30779.7	29864.3	28611.2	27672.1	29425.8	21276.2
47.5°	28744.5	28631.9	29864.3	31778.0	32731.9	33117.0	31961.7	30015.3	31218.1	22090.8
50°	24739.3	24697.8	27233.6	30747.1	33475.5	35966.9	35495.8	32195.7	32607.5	22511.5
52.5°	21451.0	21299.9	22778.1	27446.9	32394.2	37465.9	38950.0	34334.6	33579.2	22591.5
55°	16269.7	16136.4	17990.8	21924.9	28907.4	36932.6	41477.0	36541.6	34275.3	22387.1
57.5°	8727.3	8644.4	10987.7	14592.9	22597.4	33733.2	41933.2	38876.0	34861.9	21845.0
60°	3397.9	3383.1	4260.0	7080.2	13733.8	27444.0	39631.4	40277.2	35229.2	21178.4
62.5°	2055.9	2100.4	2242.6	3178.7	6067.1	17048.8	34325.7	38683.4	35475.1	20568.2
65°	1700.4	1703.4	1721.2	2183.3	2906.1	7133.5	25841.3	33439.9	34867.8	19480.9
67.5°	1457.5	1484.2	1552.3	1733.0	2050.0	3128.3	14877.3	25903.5	31173.7	16951.0
70°	1149.4	1185.0	1270.9	1424.9	1581.9	1958.2	5498.3	17235.4	23815.0	12777.0
72.5°	968.7	965.8	1010.2	1158.3	1256.1	1377.5	2115.2	9657.5	13840.5	6099.6
75°	749.5	779.1	835.4	968.7	1028.0	998.3	1146.5	3528.3	4959.1	1848.6
77.5°	586.6	610.3	660.6	791.0	850.2	708.0	660.6	1262.0	1593.8	663.6
80°	263.7	284.4	450.3	583.6	693.2	488.8	358.5	645.8	708.0	302.2
82.5°	47.4	80.0	263.7	308.1	355.5	317.0	186.6	334.8	346.6	121.5
85°	3.0	5.9	91.8	112.6	142.2	103.7	56.3	133.3	115.5	41.5
87.5°	0.0	0.0	0.0	3.0	3.0	14.8	17.8	23.7	17.8	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954198
 CATALOG NUMBER: GALN-SB7C-740-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
11577.2	0°	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2	11577.2
11603.8	2.5°	11390.5	10969.9	10561.1	10226.3	10030.8	9699.0	9479.8	9444.2	9352.4	9432.4
11633.5	5°	11171.3	10418.9	9657.5	8976.2	8416.3	7693.4	7154.3	6926.2	6727.7	6795.8
11710.5	7.5°	11067.6	9879.7	8694.7	7530.5	6333.7	5178.3	4319.2	3960.8	3688.2	3726.7
11796.4	10°	10928.4	9319.8	7462.4	5684.9	4082.2	2941.7	2349.2	2130.0	2008.5	2011.5
11923.8	12.5°	10821.8	8650.3	6031.5	3854.1	2485.5	1878.2	1694.5	1641.2	1605.6	1608.6
12116.3	15°	10768.4	7862.3	4618.4	2568.4	1777.5	1590.8	1546.4	1522.7	1499.0	1496.0
12329.6	17.5°	10679.6	6985.4	3380.1	1875.2	1555.3	1490.1	1451.6	1424.9	1395.3	1389.4
12513.3	20°	10546.3	5990.0	2470.7	1584.9	1457.5	1407.2	1353.8	1318.3	1282.7	1276.8
12628.8	22.5°	10300.4	4938.4	1898.9	1466.4	1386.4	1330.1	1265.0	1223.5	1187.9	1182.0
12572.6	25°	9844.2	3951.9	1599.7	1392.3	1324.2	1256.1	1185.0	1128.7	1096.1	1090.2
12451.1	27.5°	9266.5	3104.6	1451.6	1324.2	1244.2	1182.0	1102.0	1048.7	1019.1	1013.2
12291.1	30°	8585.1	2390.7	1365.7	1247.2	1149.4	1096.1	1025.0	980.6	962.8	962.8
12178.6	32.5°	7850.4	1910.8	1330.1	1170.2	1066.5	1007.2	950.9	933.2	927.2	924.3
12240.8	35°	7160.2	1659.0	1312.4	1107.9	992.4	936.1	912.4	915.4	927.2	927.2
12433.3	37.5°	6547.0	1579.0	1303.5	1063.5	927.2	876.9	891.7	918.4	906.5	906.5
12771.0	40°	5993.0	1587.9	1297.5	1030.9	873.9	844.3	873.9	853.2	823.6	820.6
13182.8	42.5°	5569.4	1661.9	1285.7	1004.3	841.3	820.6	808.7	776.2	773.2	779.1
13609.4	45°	5261.3	1727.1	1282.7	992.4	805.8	767.3	752.5	719.9	779.1	793.9
13784.2	47.5°	4896.9	1727.1	1282.7	950.9	746.5	731.7	708.0	672.5	731.7	746.5
13618.3	50°	4425.9	1617.5	1232.4	903.5	699.1	690.2	648.8	604.3	592.5	601.4
13230.2	52.5°	3830.4	1419.0	1105.0	838.4	651.7	634.0	583.6	551.0	542.1	542.1
12534.0	55°	3152.0	1187.9	933.2	743.6	601.4	568.8	533.2	518.4	509.5	503.6
11559.4	57.5°	2562.5	974.6	749.5	660.6	554.0	512.5	500.7	482.9	468.1	459.2
10744.7	60°	2103.3	767.3	619.1	586.6	506.6	468.1	465.1	441.4	402.9	397.0
10072.3	62.5°	1623.4	562.9	521.4	509.5	459.2	426.6	420.7	373.3	314.0	302.2
9118.4	65°	1146.5	438.4	420.7	447.3	408.8	379.2	364.4	293.3	231.1	222.2
7631.2	67.5°	805.8	367.3	331.8	391.0	355.5	317.0	308.1	248.8	192.6	186.6
5770.8	70°	574.7	299.2	272.5	334.8	284.4	278.5	260.7	207.4	157.0	151.1
2855.8	72.5°	405.9	228.1	210.3	290.3	195.5	240.0	213.3	160.0	118.5	112.6
971.7	75°	299.2	162.9	148.1	168.9	142.2	180.7	151.1	106.6	74.1	71.1
438.4	77.5°	219.2	103.7	88.9	82.9	82.9	112.6	82.9	44.4	32.6	29.6
222.2	80°	154.0	47.4	41.5	35.5	32.6	26.7	11.8	5.9	3.0	3.0
77.0	82.5°	91.8	20.7	20.7	14.8	8.9	0.0	0.0	0.0	0.0	0.0
29.6	85°	20.7	8.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
11.8	87.5°	3.0	3.0	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

