

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: P949977

Luminaire Tested: **GALN-SB4C-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949977
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-SB4C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 22253 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

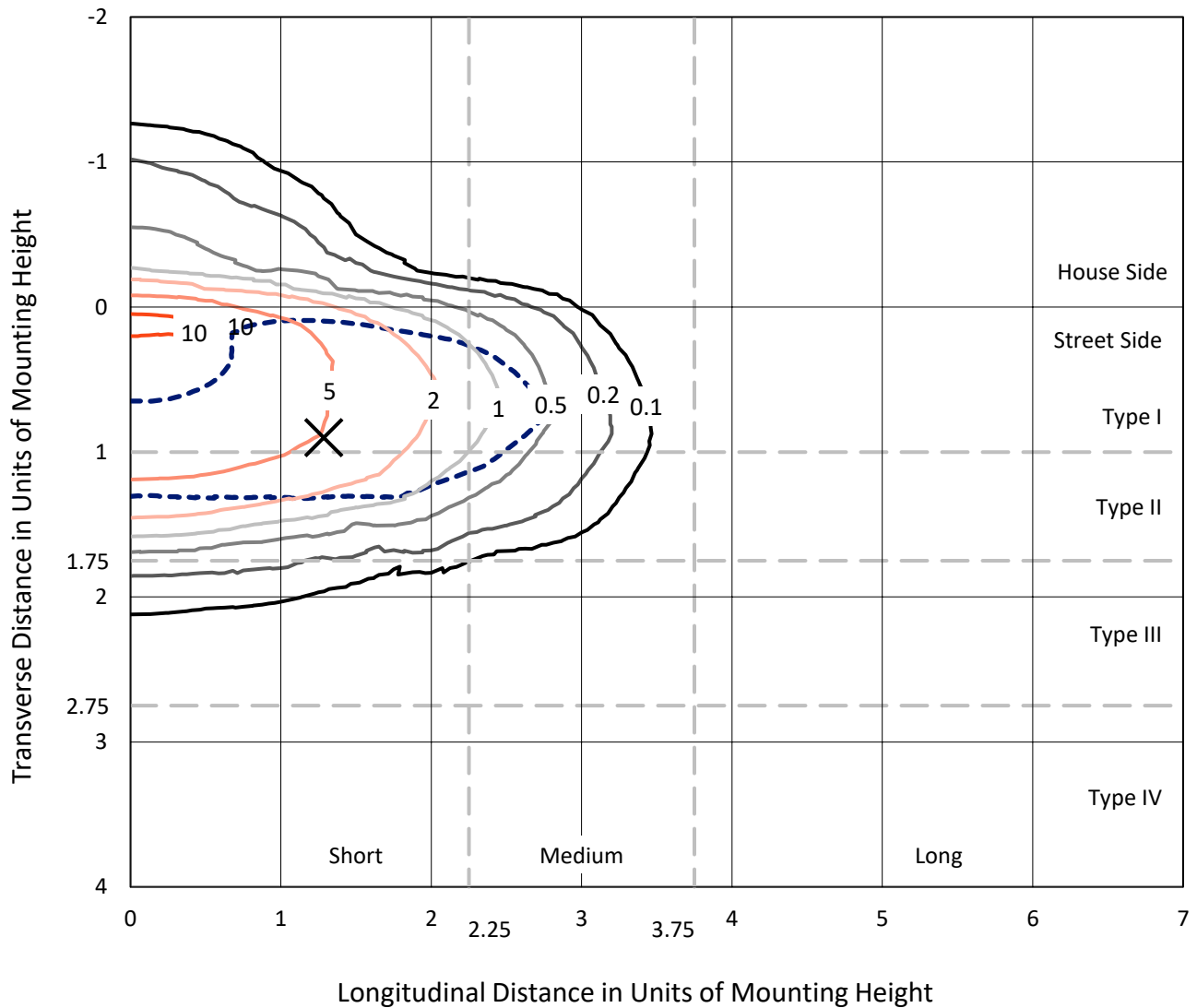
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949977
 CATALOG NUMBER: GALN-SB4C-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

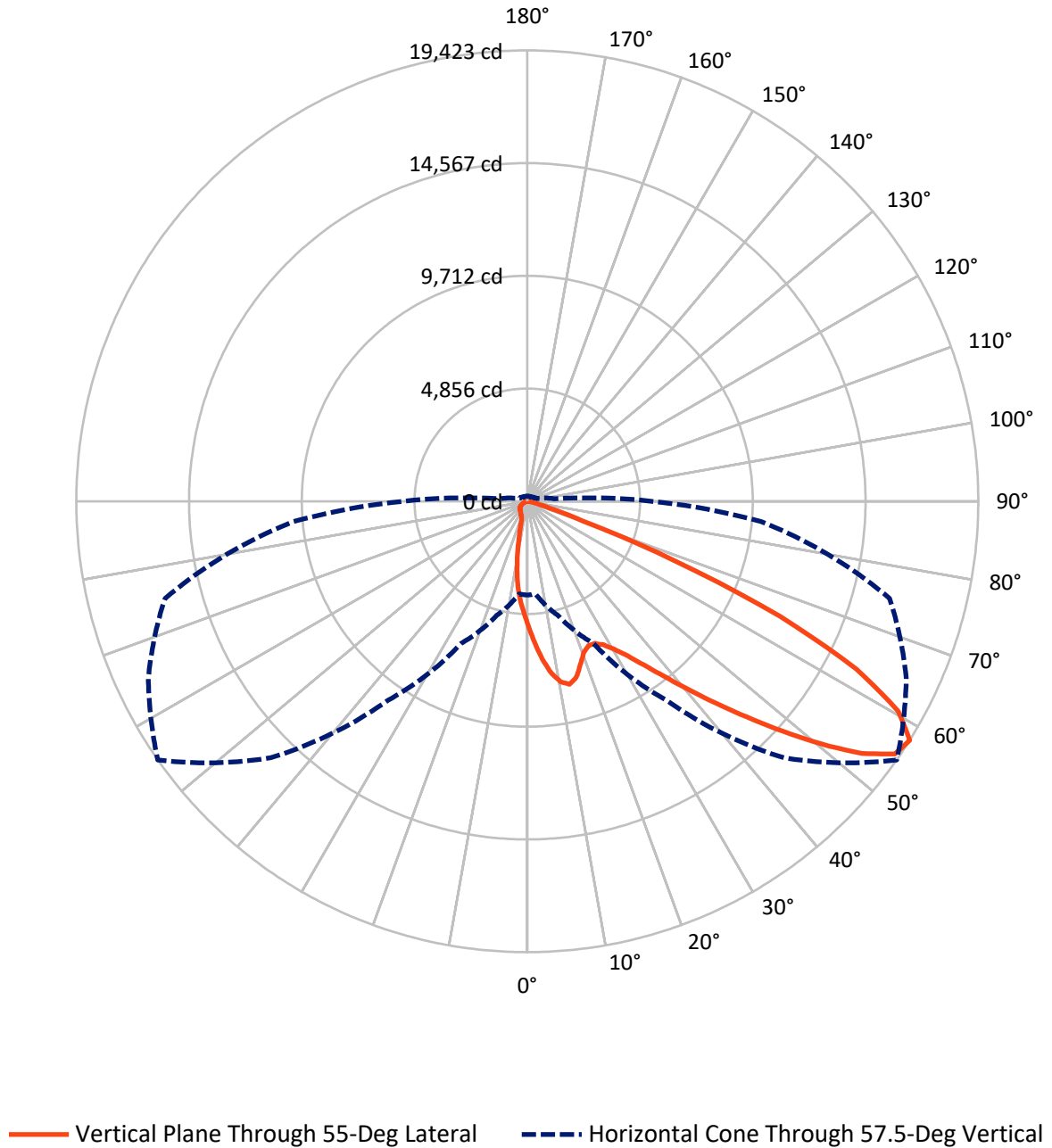
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P949977
CATALOG NUMBER: GALN-SB4C-827-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949977
 CATALOG NUMBER: GALN-SB4C-827-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1737.9	0.0	1737.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	20515.1	0.0	20515.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	22253.0	0.0	22253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.9	2.2
10°-20°	1205.2	5.4
20°-30°	1928.3	8.7
30°-40°	3263.8	14.7
40°-50°	5358.4	24.1
50°-60°	5889.3	26.5
60°-70°	3378.1	15.2
70°-80°	690.2	3.1
80°-90°	40.7	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°	22253.0	100.0
0°-180°	22253.0	100.0

Coefficient of Utilization



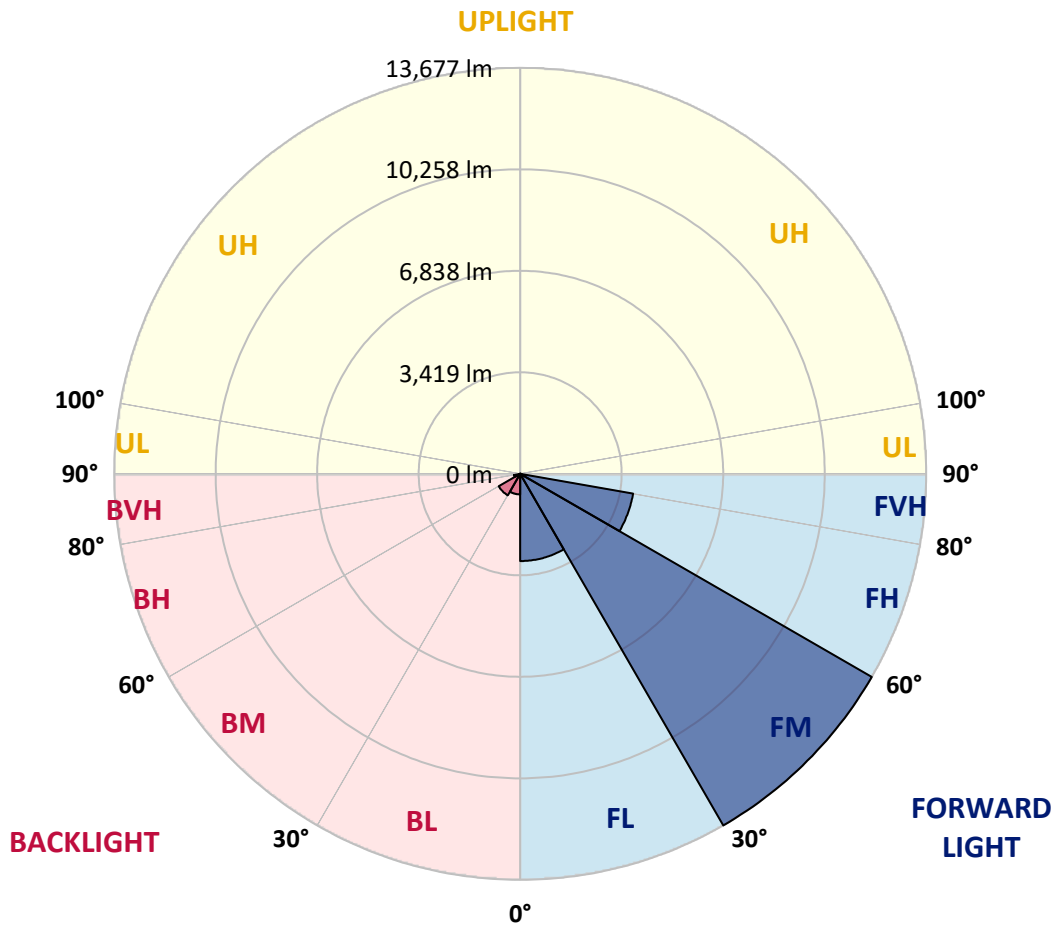
REPORT NUMBER: P949977
 CATALOG NUMBER: GALN-SB4C-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2938.6	13.2			
FM (30°-60°)	13676.9	61.5			
FH (60°-80°)	3861.7	17.4			G2/5000
FVH (80°-90°)	38.0	0.2			G1/100
BL (0°-30°)	693.8	3.1	B2/1000		
BM (30°-60°)	834.6	3.8	B1/1000		
BH (60°-80°)	206.7	0.9	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P949977
 CATALOG NUMBER: GALN-SB4C-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4
2.5°	6653.6	6569.9	6557.6	6541.1	6381.9	6262.6	6089.7	5900.3	5687.6	5470.8
5°	7686.9	7621.0	7608.7	7531.8	7350.7	7147.6	6840.2	6451.9	6055.4	5588.8
7.5°	7887.2	7874.9	7931.1	7928.4	7903.7	7743.1	7483.8	7021.4	6425.9	5734.3
10°	6993.9	7025.5	7192.9	7339.7	7736.3	7966.8	7910.5	7529.1	6807.3	5900.3
12.5°	6180.2	6143.2	6262.6	6428.6	6889.6	7575.7	8087.5	7953.1	7243.7	6088.3
15°	5669.8	5654.7	5721.9	5798.8	6150.0	6841.6	7881.7	8297.5	7663.5	6310.6
17.5°	5506.5	5494.2	5514.7	5533.9	5761.7	6296.9	7391.9	8508.8	8065.6	6564.4
20°	5639.6	5623.1	5620.4	5605.3	5700.0	6065.0	6948.6	8523.9	8426.5	6795.0
22.5°	6027.9	6008.7	5941.5	5881.1	5889.3	6096.5	6751.1	8373.0	8698.2	7010.4
25°	6731.8	6700.3	6560.3	6357.2	6228.3	6316.1	6781.2	8174.0	8957.5	7179.2
27.5°	7612.8	7571.6	7391.9	7090.0	6795.0	6687.9	6999.4	8036.8	9172.9	7308.2
30°	8475.9	8422.4	8245.3	8010.7	7579.8	7242.3	7393.2	8097.2	9429.5	7442.6
32.5°	9407.6	9356.8	9122.2	8831.3	8474.5	8020.3	7932.5	8392.2	9743.8	7630.6
35°	10586.3	10506.7	10173.2	9776.7	9398.0	8938.3	8662.5	8901.2	10162.3	7917.4
37.5°	11928.2	11821.2	11461.7	10914.2	10420.2	9905.7	9551.6	9601.0	10775.6	8301.6
40°	13193.4	13096.0	12763.9	12248.0	11627.7	11003.4	10626.1	10516.3	11622.2	8769.5
42.5°	13952.2	13864.4	13724.4	13506.2	12983.4	12346.7	11870.6	11633.2	12623.9	9329.4
45°	13994.7	13917.9	14105.9	14359.7	14256.8	13832.8	13252.4	12817.4	13629.7	9854.9
47.5°	13314.1	13262.0	13832.8	14719.2	15161.1	15339.4	14804.3	13902.8	14459.9	10232.2
50°	11459.0	11439.7	12614.3	14241.7	15505.5	16659.5	16441.3	14912.7	15103.4	10427.1
52.5°	9935.9	9865.9	10550.6	12713.1	15004.6	17353.8	18041.2	15903.4	15553.5	10464.1
55°	7535.9	7474.2	8333.2	10155.4	13389.6	17106.8	19211.7	16925.7	15876.0	10369.5
57.5°	4042.4	4004.0	5089.4	6759.3	10466.9	15624.9	19423.0	18006.9	16147.6	10118.4
60°	1573.9	1567.0	1973.2	3279.5	6361.4	12711.7	18356.8	18656.0	16317.8	9809.6
62.5°	952.3	972.9	1038.7	1472.3	2810.2	7896.8	15899.3	17917.7	16431.7	9526.9
65°	787.6	789.0	797.2	1011.3	1346.1	3304.2	11969.4	15489.0	16150.4	9023.4
67.5°	675.1	687.5	719.0	802.7	949.5	1449.0	6891.0	11998.2	14439.3	7851.5
70°	532.4	548.9	588.7	660.0	732.7	907.0	2546.7	7983.3	11030.8	5918.2
72.5°	448.7	447.3	467.9	536.5	581.8	638.1	979.7	4473.3	6410.8	2825.3
75°	347.2	360.9	387.0	448.7	476.1	462.4	531.0	1634.2	2297.0	856.2
77.5°	271.7	282.7	306.0	366.4	393.8	327.9	306.0	584.5	738.2	307.4
80°	122.1	131.7	208.6	270.3	321.1	226.4	166.0	299.1	327.9	140.0
82.5°	22.0	37.0	122.1	142.7	164.7	146.8	86.4	155.1	160.5	56.3
85°	1.4	2.7	42.5	52.1	65.9	48.0	26.1	61.7	53.5	19.2
87.5°	0.0	0.0	0.0	1.4	1.4	6.9	8.2	11.0	8.2	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949977
 CATALOG NUMBER: GALN-SB4C-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5362.4	0°	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4	5362.4
5374.8	2.5°	5276.0	5081.1	4891.8	4736.7	4646.2	4492.5	4390.9	4374.5	4331.9	4369.0
5388.5	5°	5174.4	4825.9	4473.3	4157.7	3898.3	3563.5	3313.8	3208.1	3116.2	3147.7
5424.2	7.5°	5126.4	4576.2	4027.3	3488.0	2933.7	2398.5	2000.6	1834.6	1708.3	1726.2
5464.0	10°	5061.9	4316.8	3456.5	2633.2	1890.8	1362.6	1088.1	986.6	930.3	931.7
5523.0	12.5°	5012.5	4006.7	2793.7	1785.2	1151.2	870.0	784.9	760.2	743.7	745.1
5612.2	15°	4987.8	3641.7	2139.2	1189.7	823.3	736.9	716.3	705.3	694.3	692.9
5711.0	17.5°	4946.7	3235.6	1565.6	868.6	720.4	690.2	672.4	660.0	646.3	643.5
5796.0	20°	4884.9	2774.5	1144.4	734.1	675.1	651.8	627.1	610.6	594.1	591.4
5849.5	22.5°	4771.0	2287.4	879.6	679.2	642.2	616.1	585.9	566.7	550.2	547.5
5823.5	25°	4559.7	1830.5	741.0	644.9	613.4	581.8	548.9	522.8	507.7	505.0
5767.2	27.5°	4292.1	1438.0	672.4	613.4	576.3	547.5	510.4	485.7	472.0	469.3
5693.1	30°	3976.5	1107.3	632.6	577.7	532.4	507.7	474.8	454.2	446.0	446.0
5641.0	32.5°	3636.2	885.0	616.1	542.0	494.0	466.5	440.5	432.2	429.5	428.1
5669.8	35°	3316.5	768.4	607.9	513.2	459.7	433.6	422.6	424.0	429.5	429.5
5759.0	37.5°	3032.5	731.4	603.8	492.6	429.5	406.2	413.0	425.4	419.9	419.9
5915.4	40°	2775.9	735.5	601.0	477.5	404.8	391.1	404.8	395.2	381.5	380.1
6106.1	42.5°	2579.7	769.8	595.5	465.2	389.7	380.1	374.6	359.5	358.1	360.9
6303.7	45°	2437.0	800.0	594.1	459.7	373.2	355.4	348.5	333.4	360.9	367.7
6384.7	47.5°	2268.2	800.0	594.1	440.5	345.8	338.9	327.9	311.5	338.9	345.8
6307.8	50°	2050.0	749.2	570.8	418.5	323.8	319.7	300.5	279.9	274.4	278.5
6128.1	52.5°	1774.2	657.3	511.8	388.3	301.9	293.6	270.3	255.2	251.1	251.1
5805.6	55°	1460.0	550.2	432.2	344.4	278.5	263.5	247.0	240.1	236.0	233.3
5354.2	57.5°	1186.9	451.4	347.2	306.0	256.6	237.4	231.9	223.7	216.8	212.7
4976.8	60°	974.2	355.4	286.8	271.7	234.6	216.8	215.4	204.5	186.6	183.9
4665.4	62.5°	751.9	260.7	241.5	236.0	212.7	197.6	194.8	172.9	145.4	140.0
4223.5	65°	531.0	203.1	194.8	207.2	189.4	175.6	168.8	135.8	107.0	102.9
3534.7	67.5°	373.2	170.1	153.7	181.1	164.7	146.8	142.7	115.3	89.2	86.4
2673.0	70°	266.2	138.6	126.2	155.1	131.7	129.0	120.8	96.1	72.7	70.0
1322.8	72.5°	188.0	105.7	97.4	134.5	90.6	111.1	98.8	74.1	54.9	52.1
450.1	75°	138.6	75.5	68.6	78.2	65.9	83.7	70.0	49.4	34.3	32.9
203.1	77.5°	101.5	48.0	41.2	38.4	38.4	52.1	38.4	20.6	15.1	13.7
102.9	80°	71.4	22.0	19.2	16.5	15.1	12.3	5.5	2.7	1.4	1.4
35.7	82.5°	42.5	9.6	9.6	6.9	4.1	0.0	0.0	0.0	0.0	0.0
13.7	85°	9.6	4.1	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5.5	87.5°	1.4	1.4	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

