

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: P950334

Luminaire Tested: **GALN-SB4D-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950334
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-SB4D-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA 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: 30237 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

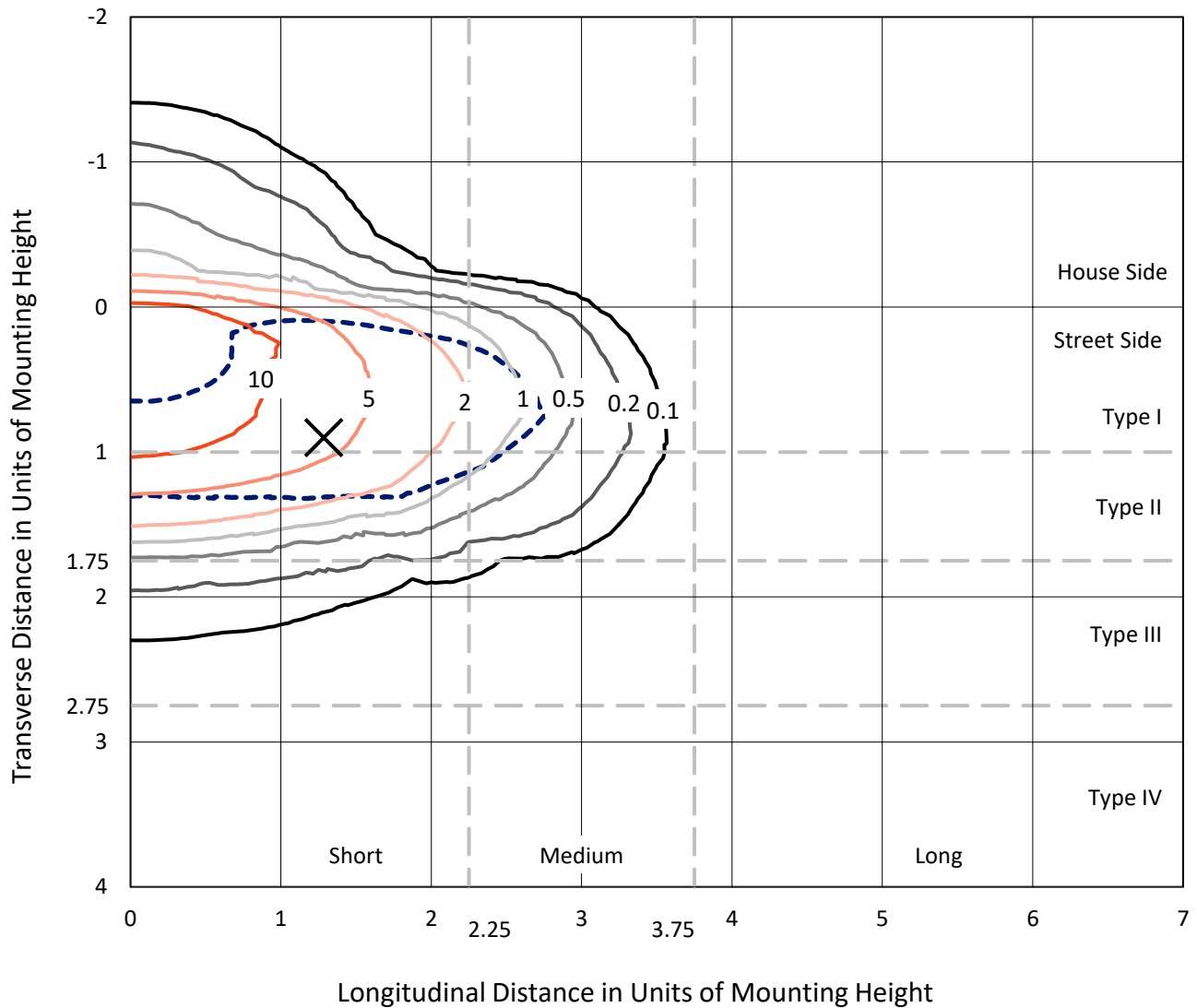
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950334
 CATALOG NUMBER: GALN-SB4D-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

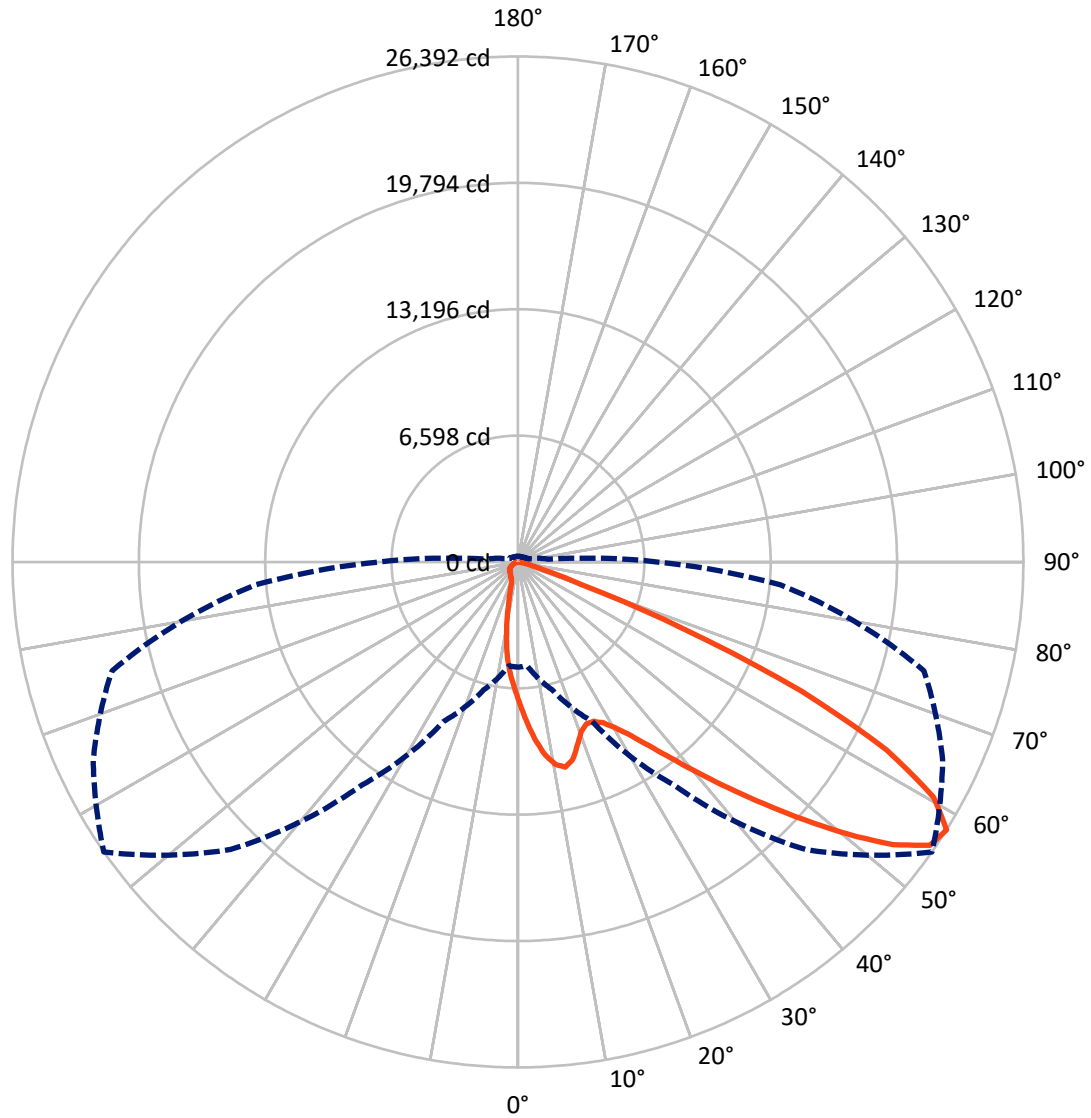
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

REPORT NUMBER: P950334
CATALOG NUMBER: GALN-SB4D-827-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P950334
 CATALOG NUMBER: GALN-SB4D-827-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2361.4	0.0	2361.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	27875.6	0.0	27875.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	30237.0	0.0	30237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.0	2.2
10°-20°	1637.6	5.4
20°-30°	2620.1	8.7
30°-40°	4434.8	14.7
40°-50°	7280.9	24.1
50°-60°	8002.3	26.5
60°-70°	4590.1	15.2
70°-80°	937.9	3.1
80°-90°	55.3	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°	30237.0	100.0
0°-180°	30237.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950334

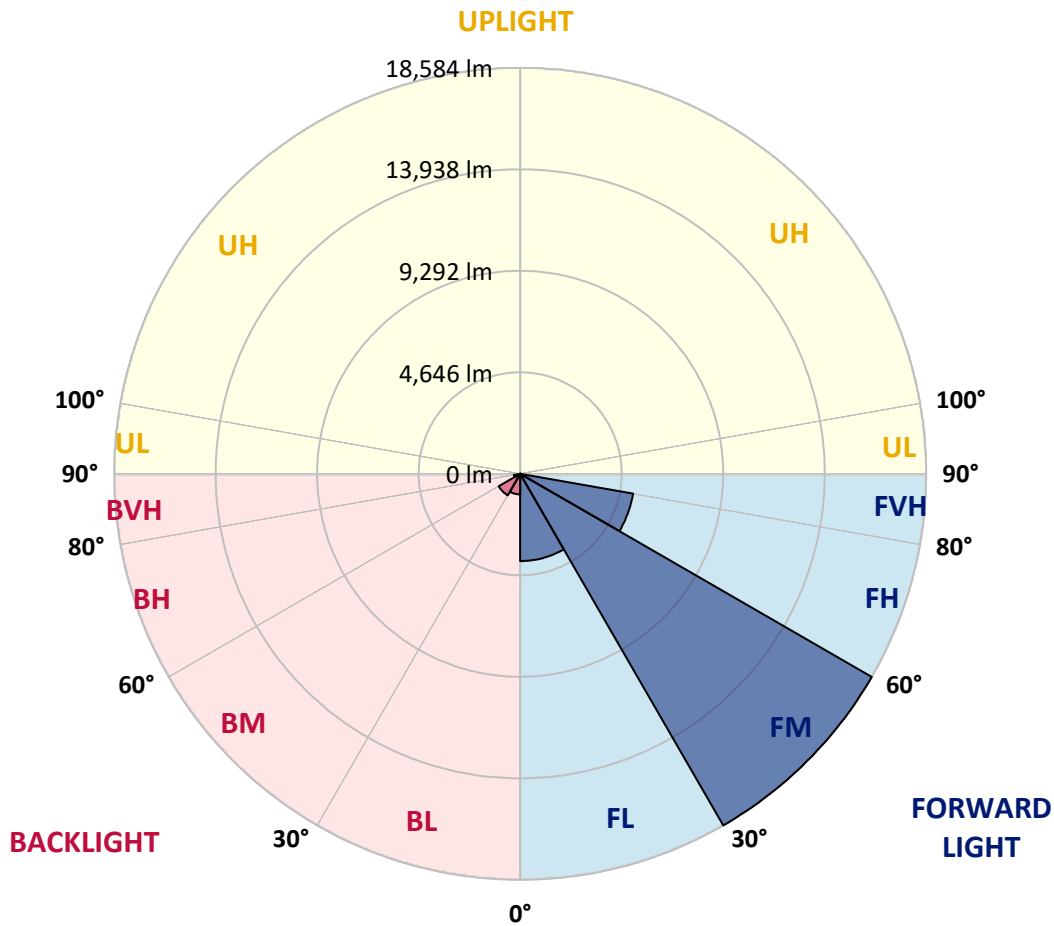
CATALOG NUMBER: GALN-SB4D-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3993.0	13.2			
FM (30°-60°)	18583.9	61.5			
FH (60°-80°)	5247.2	17.4			G3/7500
FVH (80°-90°)	51.6	0.2			G1/100
BL (0°-30°)	942.7	3.1	B2/1000		
BM (30°-60°)	1134.1	3.8	B2/2500		
BH (60°-80°)	280.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.7	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-G3

Type II Short



REPORT NUMBER: P950334

CATALOG NUMBER: GALN-SB4D-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4
2.5°	9040.8	8927.1	8910.3	8888.0	8671.7	8509.5	8274.5	8017.2	7728.3	7433.7
5°	10444.8	10355.3	10338.5	10234.1	9988.0	9712.1	9294.4	8766.8	8227.9	7594.0
7.5°	10717.0	10700.2	10776.7	10772.9	10739.4	10521.2	10168.9	9540.5	8731.3	7791.6
10°	9503.2	9546.1	9773.6	9973.1	10511.9	10825.1	10748.7	10230.4	9249.7	8017.2
12.5°	8397.6	8347.3	8509.5	8735.1	9361.5	10293.8	10989.2	10806.5	9842.6	8272.7
15°	7704.0	7683.5	7774.9	7879.3	8356.6	9296.3	10709.5	11274.5	10413.1	8574.7
17.5°	7482.1	7465.4	7493.3	7519.4	7828.9	8556.1	10043.9	11561.6	10959.4	8919.7
20°	7663.0	7640.6	7636.9	7616.4	7745.0	8241.0	9441.7	11582.1	11449.7	9232.9
22.5°	8190.6	8164.5	8073.2	7991.1	8002.3	8283.9	9173.2	11377.0	11818.9	9525.6
25°	9147.1	9104.2	8914.1	8638.1	8462.9	8582.2	9214.2	11106.7	12171.3	9754.9
27.5°	10344.1	10288.2	10043.9	9633.7	9232.9	9087.5	9510.7	10920.2	12464.0	9930.2
30°	11516.9	11444.2	11203.6	10884.8	10299.4	9840.7	10045.8	11002.3	12812.7	10112.9
32.5°	12782.8	12713.9	12395.0	11999.8	11515.0	10897.9	10778.5	11403.1	13239.6	10368.4
35°	14384.4	14276.3	13823.2	13284.4	12769.8	12145.2	11770.4	12094.9	13808.3	10758.0
37.5°	16207.9	16062.5	15574.0	14830.0	14158.8	13459.7	12978.6	13045.7	14641.7	11280.1
40°	17926.9	17794.6	17343.4	16642.3	15799.6	14951.2	14438.5	14289.3	15792.1	11915.9
42.5°	18958.0	18838.7	18648.5	18352.0	17641.7	16776.6	16129.6	15807.0	17153.2	12676.6
45°	19015.8	18911.4	19166.8	19511.7	19371.9	18795.8	18007.1	17416.1	18519.8	13390.7
47.5°	18091.0	18020.2	18795.8	20000.2	20600.6	20843.0	20115.8	18890.9	19647.8	13903.4
50°	15570.2	15544.1	17140.1	19351.4	21068.6	22636.6	22340.2	20263.1	20522.3	14168.2
52.5°	13500.7	13405.6	14336.0	17274.4	20388.0	23580.0	24514.1	21609.3	21133.8	14218.5
55°	10239.7	10155.8	11323.0	13799.0	18193.6	23244.4	26104.5	22998.3	21572.0	14089.8
57.5°	5492.7	5440.5	6915.3	9184.4	14222.2	21230.8	26391.7	24467.5	21941.2	13748.6
60°	2138.6	2129.2	2681.1	4456.1	8643.7	17272.5	24943.0	25349.4	22172.3	13329.1
62.5°	1293.9	1321.9	1411.4	2000.6	3818.4	10730.1	21603.7	24346.3	22327.1	12945.1
65°	1070.2	1072.1	1083.3	1374.1	1829.1	4489.7	16263.8	21046.2	21944.9	12260.8
67.5°	917.3	934.1	977.0	1090.7	1290.2	1968.9	9363.4	16303.0	19619.9	10668.5
70°	723.4	745.8	799.9	896.8	995.6	1232.4	3460.5	10847.5	14988.5	8041.5
72.5°	609.7	607.8	635.8	729.0	790.5	867.0	1331.2	6078.2	8710.8	3839.0
75°	471.7	490.4	525.8	609.7	647.0	628.3	721.6	2220.6	3121.1	1163.4
77.5°	369.2	384.1	415.8	497.8	535.1	445.6	415.8	794.3	1003.1	417.6
80°	165.9	179.0	283.4	367.3	436.3	307.6	225.6	406.5	445.6	190.2
82.5°	29.8	50.3	165.9	193.9	223.7	199.5	117.5	210.7	218.1	76.4
85°	1.9	3.7	57.8	70.9	89.5	65.3	35.4	83.9	72.7	26.1
87.5°	0.0	0.0	0.0	1.9	1.9	9.3	11.2	14.9	11.2	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950334
 CATALOG NUMBER: GALN-SB4D-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
7286.4	0°	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4	7286.4
7303.2	2.5°	7168.9	6904.2	6646.9	6436.2	6313.1	6104.3	5966.3	5943.9	5886.2	5936.5
7321.8	5°	7030.9	6557.4	6078.2	5649.4	5297.0	4842.0	4502.7	4359.1	4234.2	4277.1
7370.3	7.5°	6965.7	6218.0	5472.2	4739.5	3986.2	3259.1	2718.4	2492.8	2321.3	2345.5
7424.3	10°	6878.1	5865.6	4696.6	3577.9	2569.2	1851.4	1478.5	1340.6	1264.1	1266.0
7504.5	12.5°	6810.9	5444.3	3796.1	2425.7	1564.3	1182.1	1066.5	1032.9	1010.5	1012.4
7625.7	15°	6777.4	4948.3	2906.7	1616.5	1118.7	1001.2	973.3	958.3	943.4	941.6
7759.9	17.5°	6721.4	4396.4	2127.4	1180.2	978.8	937.8	913.6	896.8	878.2	874.4
7875.5	20°	6637.5	3770.0	1555.0	997.5	917.3	885.6	852.1	829.7	807.3	803.6
7948.3	22.5°	6482.8	3108.1	1195.1	922.9	872.6	837.1	796.1	770.0	747.7	743.9
7912.8	25°	6195.7	2487.2	1006.8	876.3	833.4	790.5	745.8	710.4	689.9	686.1
7836.4	27.5°	5832.1	1954.0	913.6	833.4	783.1	743.9	693.6	660.0	641.4	637.7
7735.7	30°	5403.3	1504.6	859.5	784.9	723.4	689.9	645.1	617.1	606.0	606.0
7664.9	32.5°	4940.9	1202.6	837.1	736.5	671.2	633.9	598.5	587.3	583.6	581.7
7704.0	35°	4506.4	1044.1	826.0	697.3	624.6	589.2	574.3	576.1	583.6	583.6
7825.2	37.5°	4120.5	993.8	820.4	669.3	583.6	551.9	561.2	578.0	570.5	570.5
8037.8	40°	3771.8	999.4	816.6	648.8	550.0	531.4	550.0	537.0	518.3	516.5
8296.9	42.5°	3505.2	1046.0	809.2	632.1	529.5	516.5	509.0	488.5	486.6	490.4
8565.4	45°	3311.3	1087.0	807.3	624.6	507.1	482.9	473.6	453.1	490.4	499.7
8675.4	47.5°	3082.0	1087.0	807.3	598.5	469.8	460.5	445.6	423.2	460.5	469.8
8571.0	50°	2785.5	1018.0	775.6	568.7	440.0	434.4	408.3	380.4	372.9	378.5
8326.7	52.5°	2410.8	893.1	695.4	527.6	410.2	399.0	367.3	346.8	341.2	341.2
7888.6	55°	1983.8	747.7	587.3	468.0	378.5	358.0	335.6	326.3	320.7	317.0
7275.2	57.5°	1612.8	613.4	471.7	415.8	348.7	322.6	315.1	303.9	294.6	289.0
6762.5	60°	1323.8	482.9	389.7	369.2	318.8	294.6	292.7	277.8	253.6	249.8
6339.2	62.5°	1021.7	354.3	328.1	320.7	289.0	268.5	264.8	234.9	197.6	190.2
5738.9	65°	721.6	275.9	264.8	281.5	257.3	238.7	229.3	184.6	145.4	139.8
4802.9	67.5°	507.1	231.2	208.8	246.1	223.7	199.5	193.9	156.6	121.2	117.5
3632.0	70°	361.7	188.3	171.5	210.7	179.0	175.3	164.1	130.5	98.8	95.1
1797.4	72.5°	255.4	143.6	132.4	182.7	123.1	151.0	134.2	100.7	74.6	70.9
611.5	75°	188.3	102.5	93.2	106.3	89.5	113.7	95.1	67.1	46.6	44.7
275.9	77.5°	138.0	65.3	55.9	52.2	52.2	70.9	52.2	28.0	20.5	18.6
139.8	80°	97.0	29.8	26.1	22.4	20.5	16.8	7.5	3.7	1.9	1.9
48.5	82.5°	57.8	13.1	13.1	9.3	5.6	0.0	0.0	0.0	0.0	0.0
18.6	85°	13.1	5.6	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	1.9	1.9	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

