

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: P946135

Luminaire Tested: **GALN-SB1D-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946135
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-SB1D-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9903 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

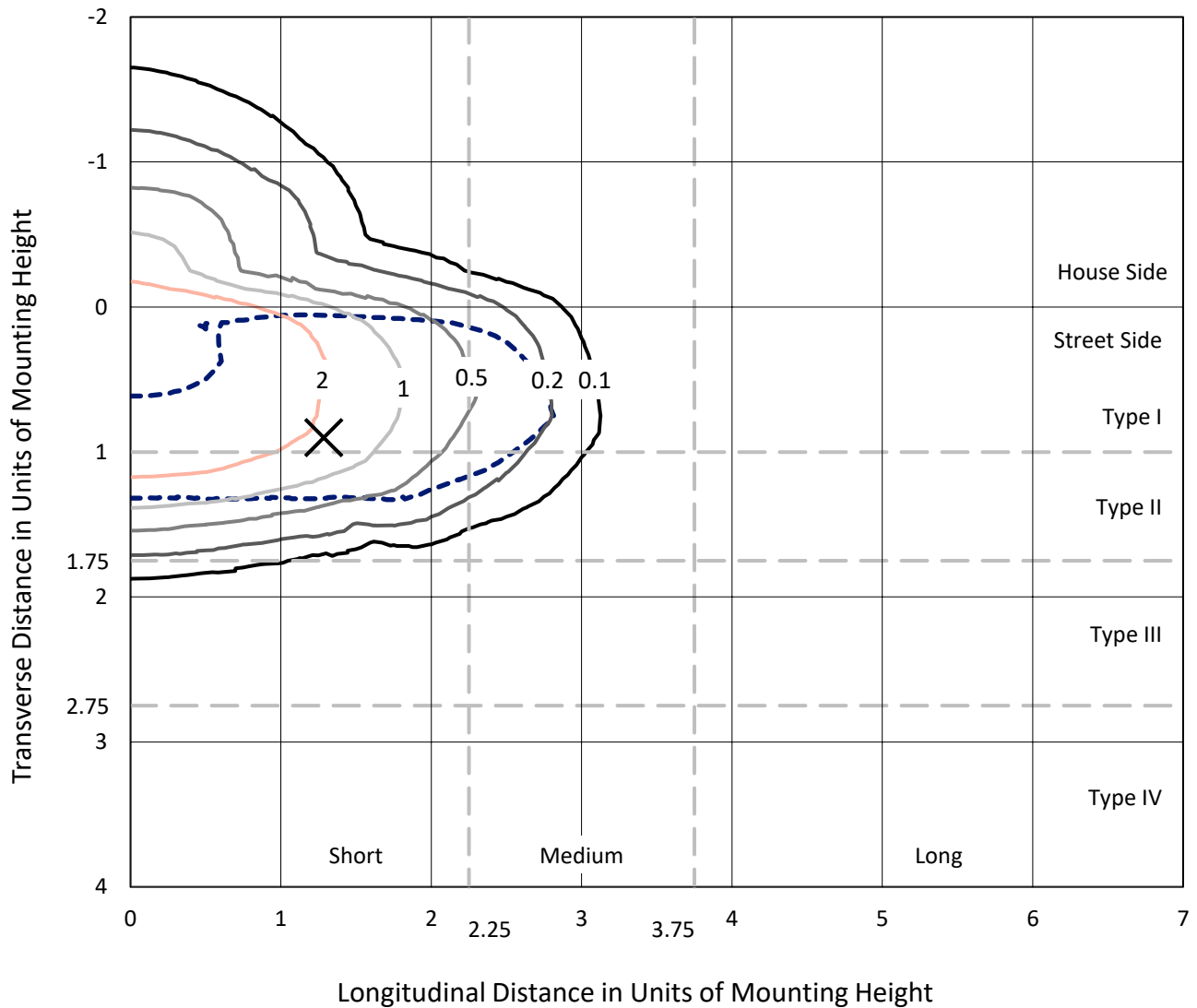
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946135
 CATALOG NUMBER: GALN-SB1D-850-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

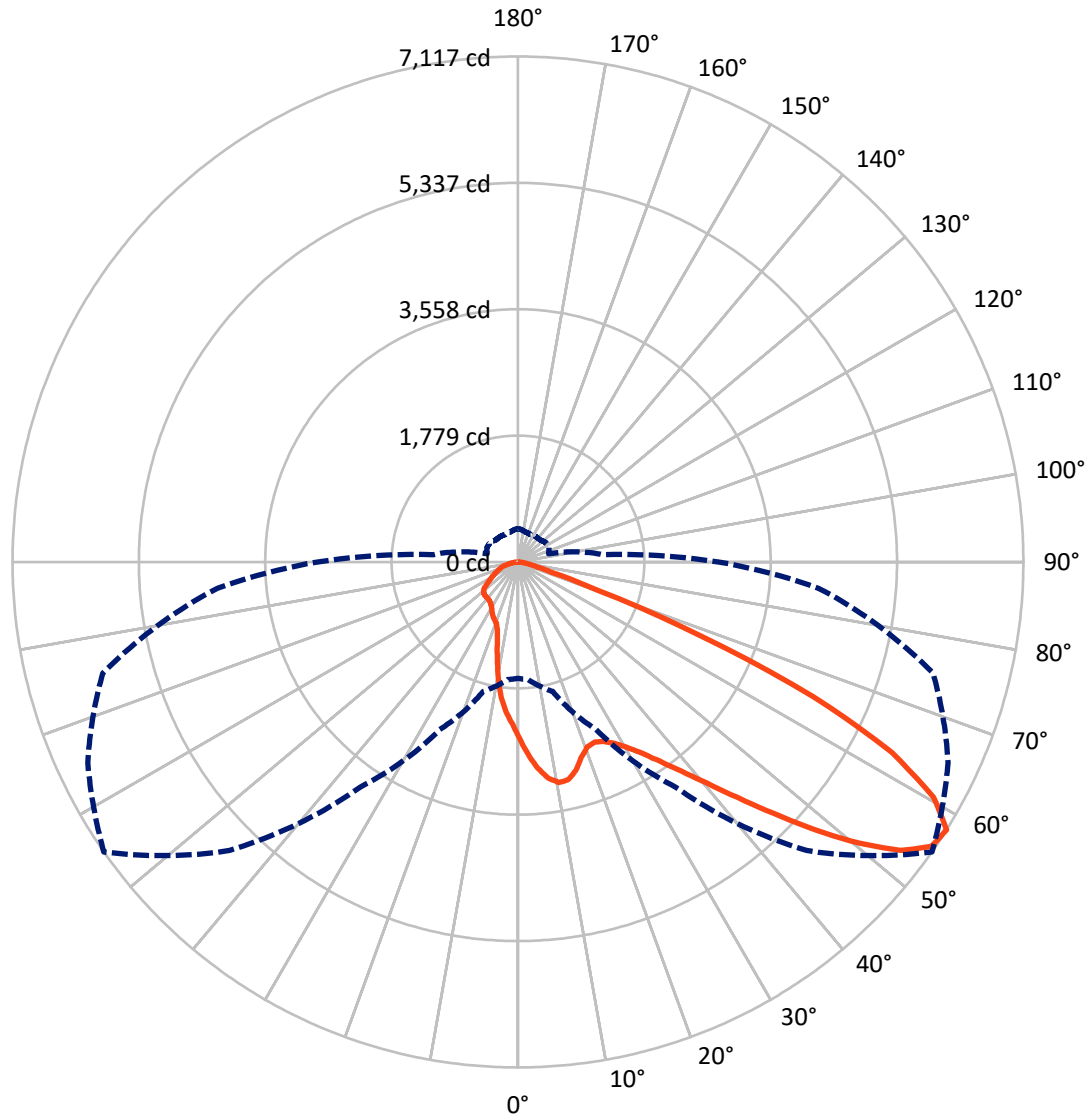
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

REPORT NUMBER: P946135
CATALOG NUMBER: GALN-SB1D-850-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P946135
 CATALOG NUMBER: GALN-SB1D-850-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1791.9	0.0	1791.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8111.1	0.0	8111.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	9903.0	0.0	9903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	2.3
10°-20°	581.2	5.9
20°-30°	927.4	9.4
30°-40°	1468.3	14.8
40°-50°	2247.4	22.7
50°-60°	2407.1	24.3
60°-70°	1514.4	15.3
70°-80°	447.8	4.5
80°-90°	79.2	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°	9903.0	100.0
0°-180°	9903.0	100.0

Coefficient of Utilization



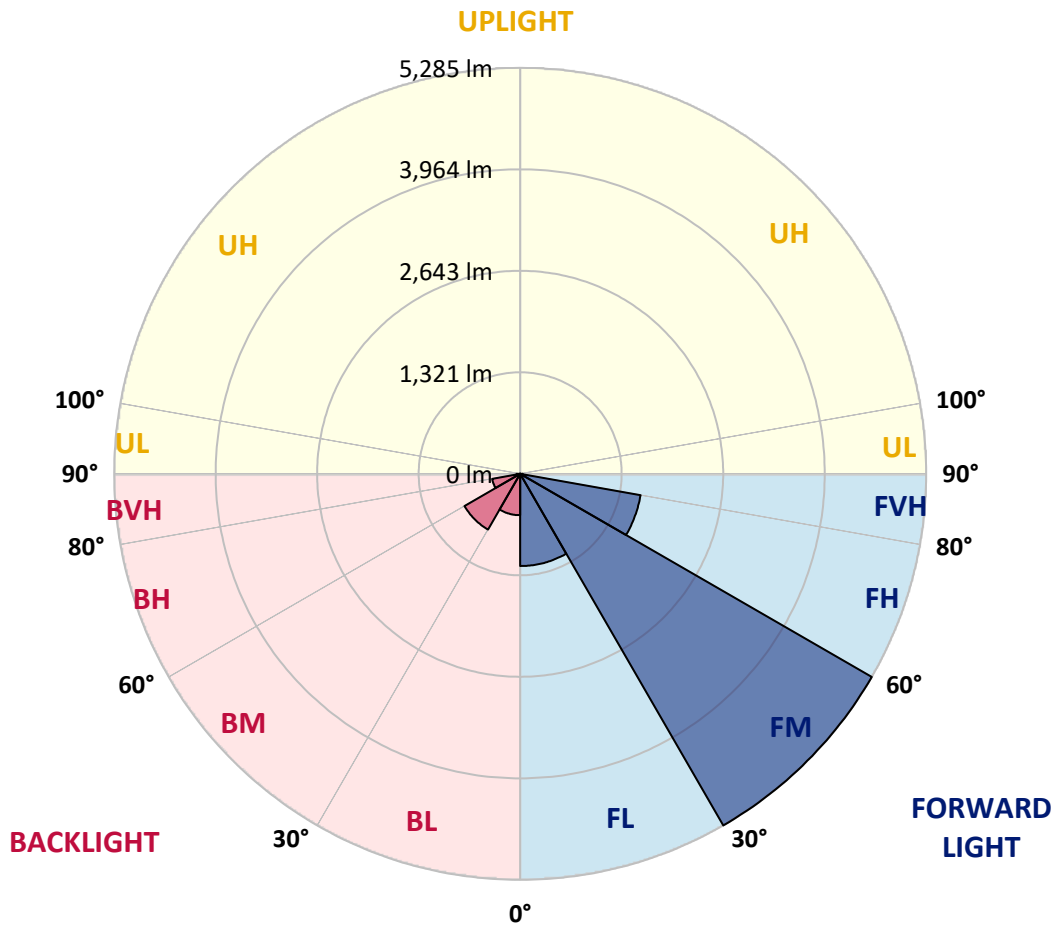
REPORT NUMBER: P946135
 CATALOG NUMBER: GALN-SB1D-850-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1200.2	12.1			
FM (30°-60°)	5285.3	53.4			
FH (60°-80°)	1592.1	16.1			G1/1800
FVH (80°-90°)	33.4	0.3			G1/100
BL (0°-30°)	538.6	5.4	B2/1000		
BM (30°-60°)	837.5	8.5	B1/1000		
BH (60°-80°)	370.1	3.7	B1/500		G1/500
BVH (80°-90°)	45.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



REPORT NUMBER: P946135

CATALOG NUMBER: GALN-SB1D-850-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4
2.5°	2846.9	2844.8	2856.1	2817.7	2791.6	2756.3	2709.7	2650.3	2586.3	2518.7
5°	3103.4	3085.5	3097.2	3068.6	3039.9	2986.7	2917.5	2820.8	2702.5	2567.9
7.5°	3062.9	3050.6	3080.9	3106.4	3127.9	3121.3	3070.6	2969.2	2816.7	2621.1
10°	2736.8	2723.0	2765.5	2854.1	2984.1	3097.2	3158.7	3095.7	2933.4	2679.5
12.5°	2449.1	2442.5	2470.6	2542.3	2686.7	2903.7	3147.4	3206.3	3054.7	2748.6
15°	2326.3	2318.1	2336.0	2372.3	2464.5	2666.7	3045.0	3282.0	3174.0	2828.5
17.5°	2299.1	2289.9	2297.6	2316.5	2375.9	2530.0	2890.4	3319.4	3298.4	2917.5
20°	2349.3	2341.6	2342.6	2341.6	2383.1	2505.4	2782.9	3305.1	3407.0	2999.5
22.5°	2470.6	2457.8	2458.3	2431.2	2453.7	2548.4	2754.7	3266.7	3503.7	3071.1
25°	2668.2	2645.2	2649.8	2580.7	2574.5	2644.7	2798.8	3237.0	3600.0	3128.5
27.5°	2938.5	2912.4	2898.6	2795.7	2746.6	2781.4	2888.4	3247.2	3691.1	3178.1
30°	3276.4	3244.7	3216.5	3070.6	2981.5	2968.7	3027.6	3314.8	3798.6	3230.3
32.5°	3690.6	3653.7	3602.5	3409.0	3283.6	3216.5	3207.8	3435.1	3924.5	3296.9
35°	4183.6	4135.4	4062.8	3812.4	3653.7	3516.5	3445.4	3608.7	4097.1	3397.2
37.5°	4691.4	4637.1	4570.6	4272.6	4077.6	3875.4	3735.1	3844.2	4326.9	3533.4
40°	5159.8	5098.9	5037.0	4771.8	4562.4	4318.7	4089.9	4142.1	4608.0	3696.2
42.5°	5436.3	5391.2	5367.7	5224.3	5062.6	4815.3	4531.2	4495.3	4923.8	3883.6
45°	5424.0	5405.6	5478.3	5537.6	5499.3	5362.1	5048.2	4885.9	5240.7	4045.9
47.5°	5134.2	5146.5	5308.8	5642.6	5789.5	5861.2	5637.0	5269.4	5516.1	4167.2
50°	4345.9	4356.1	4731.9	5451.6	5864.3	6268.2	6221.1	5643.6	5729.6	4241.4
52.5°	3721.8	3728.5	3889.7	4885.4	5617.5	6473.0	6747.4	5996.3	5885.8	4261.9
55°	2803.4	2826.4	3007.1	3832.9	4975.5	6310.7	7067.8	6359.8	5984.6	4263.9
57.5°	1637.7	1662.8	1886.0	2601.7	3867.2	5745.0	7116.5	6682.3	6051.6	4247.6
60°	802.2	813.0	910.2	1367.4	2384.6	4655.1	6725.3	6838.5	6089.0	4238.9
62.5°	540.6	539.1	543.2	674.7	1174.9	2990.8	5910.3	6565.1	6069.0	4205.6
65°	464.8	459.2	443.9	473.5	608.7	1367.9	4566.5	5749.1	5917.0	4122.1
67.5°	401.9	402.4	402.9	393.7	434.6	631.2	2790.6	4528.6	5371.3	3726.9
70°	332.8	337.4	339.4	339.4	354.3	414.2	1191.3	3103.9	4236.8	2922.2
72.5°	303.1	293.3	294.4	289.2	289.2	315.4	479.7	1759.5	2669.3	1643.8
75°	247.3	253.4	254.4	250.9	239.1	240.6	284.6	738.2	1142.1	681.9
77.5°	213.5	213.5	215.5	213.0	203.8	180.2	189.9	286.2	388.6	279.5
80°	171.5	171.0	179.7	184.8	170.5	133.1	121.3	158.2	172.5	122.9
82.5°	83.4	88.6	123.4	140.8	129.5	96.2	74.2	98.3	92.1	54.3
85°	48.6	46.1	55.3	78.3	74.2	53.2	35.8	51.2	48.1	27.6
87.5°	15.4	14.3	11.3	26.6	21.5	14.8	9.7	14.8	13.3	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946135
 CATALOG NUMBER: GALN-SB1D-850-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2481.4	0°	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4
2489.6	2.5°	2453.2	2392.8	2332.9	2278.1	2244.9	2223.4	2201.9	2177.8	2168.6	2154.8
2496.2	5°	2428.6	2311.9	2208.0	2118.4	2037.0	1973.0	1908.5	1856.3	1832.7	1848.6
2517.2	7.5°	2414.3	2245.4	2085.1	1920.8	1762.6	1636.2	1526.1	1448.8	1414.0	1422.7
2537.7	10°	2401.5	2170.1	1925.9	1666.4	1439.1	1282.4	1169.8	1110.9	1088.9	1093.5
2565.3	12.5°	2389.7	2085.6	1733.9	1392.5	1150.8	1047.4	1015.2	1015.7	1019.8	1022.9
2609.4	15°	2387.7	1983.8	1519.4	1152.9	995.2	988.6	1023.4	1045.4	1057.2	1060.7
2646.2	17.5°	2384.6	1861.9	1300.8	989.6	957.3	1002.4	1034.6	1049.0	1058.2	1058.7
2682.1	20°	2372.3	1707.3	1099.1	911.8	949.1	988.0	1008.0	1019.3	1027.0	1029.5
2709.2	22.5°	2334.4	1535.3	942.0	877.0	916.4	947.6	971.1	983.9	988.6	991.6
2714.3	25°	2266.4	1342.8	833.4	843.7	870.8	910.2	929.2	931.7	930.2	934.8
2701.5	27.5°	2177.3	1136.5	765.9	798.6	833.4	867.2	877.5	875.9	872.9	878.0
2679.5	30°	2069.8	951.2	722.9	747.9	795.6	826.3	835.5	831.9	825.8	831.4
2668.2	32.5°	1956.1	799.6	687.5	712.6	764.3	794.5	803.7	800.2	795.6	800.2
2681.0	35°	1850.1	693.7	654.8	689.1	739.8	769.4	781.2	781.7	781.7	787.4
2714.8	37.5°	1752.9	631.7	627.6	674.2	722.9	749.5	766.4	767.4	745.4	746.9
2772.2	40°	1662.8	605.6	615.4	664.5	706.5	732.1	733.1	675.8	635.3	634.3
2837.7	42.5°	1589.1	600.5	618.9	663.5	694.7	695.7	623.5	579.0	567.7	568.3
2898.1	45°	1519.9	599.0	627.1	663.5	677.3	601.0	552.4	540.6	541.6	545.7
2925.2	47.5°	1442.6	592.8	628.7	654.3	627.1	534.5	520.1	515.0	513.0	514.0
2919.1	50°	1358.2	570.8	609.2	635.8	541.1	505.8	487.9	486.3	488.9	490.4
2884.8	52.5°	1269.1	535.0	575.9	602.6	501.7	480.7	460.7	464.3	475.6	479.2
2848.9	55°	1210.7	493.0	531.9	536.0	474.1	457.2	440.3	448.5	469.4	476.1
2827.4	57.5°	1195.4	448.5	481.7	477.1	438.7	436.7	426.4	433.6	460.2	470.0
2826.4	60°	1190.8	408.5	432.6	429.0	404.4	414.2	411.6	415.2	424.4	427.5
2816.2	62.5°	1154.9	376.8	388.6	383.4	373.7	390.6	396.8	389.1	396.2	399.8
2746.0	65°	1063.8	351.2	345.6	342.0	346.1	361.4	373.7	358.4	365.0	375.3
2475.7	67.5°	913.3	316.4	301.0	305.1	317.9	326.1	342.0	324.6	330.2	347.6
1994.0	70°	738.7	272.4	258.5	270.3	282.6	299.5	302.0	290.3	303.6	323.0
1216.9	72.5°	522.7	227.8	218.1	242.1	246.2	268.3	262.6	257.0	275.4	282.1
601.5	75°	362.5	183.8	178.2	196.6	211.4	230.4	226.3	232.9	271.8	274.9
300.5	77.5°	229.3	142.8	139.2	151.0	171.5	192.5	199.1	274.9	464.3	482.8
156.1	80°	133.1	106.5	102.4	111.6	129.5	149.0	192.0	337.4	306.1	302.6
70.1	82.5°	74.2	73.2	68.1	70.6	86.5	107.5	271.3	237.5	193.0	199.1
28.2	85°	34.8	43.0	36.9	35.3	48.6	125.9	181.2	135.7	90.1	88.1
6.1	87.5°	9.2	8.2	8.2	9.2	20.5	108.5	72.2	57.8	34.3	33.3
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

