

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: P951216

Luminaire Tested: **GALN-SB5B-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951216
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-SB5B-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA 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: 17574 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

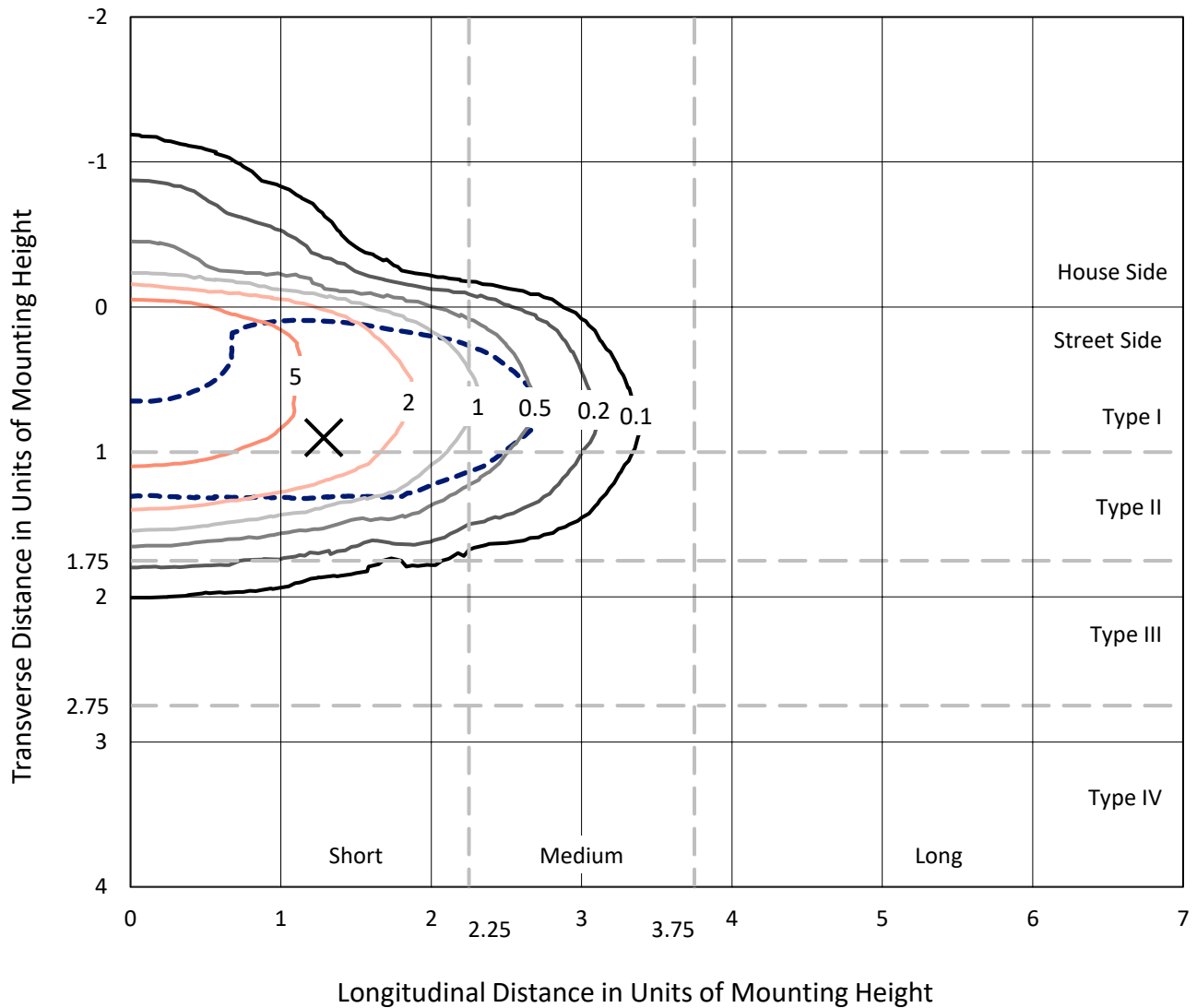
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951216
 CATALOG NUMBER: GALN-SB5B-940-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

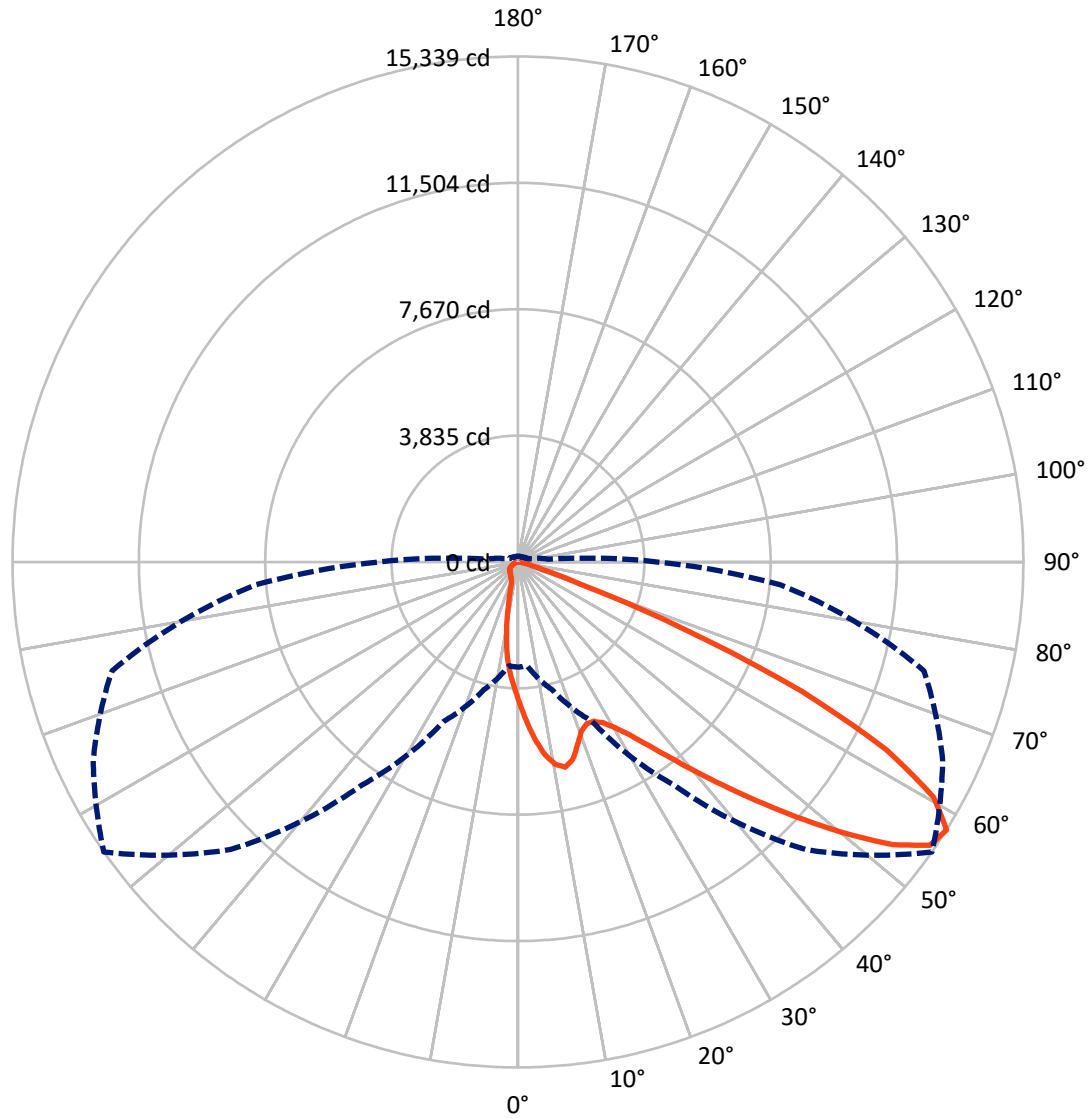
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P951216
CATALOG NUMBER: GALN-SB5B-940-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951216
 CATALOG NUMBER: GALN-SB5B-940-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1372.5	0.0	1372.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16201.5	0.0	16201.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	17574.0	0.0	17574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.0	2.2
10°-20°	951.8	5.4
20°-30°	1522.9	8.7
30°-40°	2577.5	14.7
40°-50°	4231.7	24.1
50°-60°	4651.0	26.5
60°-70°	2667.8	15.2
70°-80°	545.1	3.1
80°-90°	32.2	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°	17574.0	100.0
0°-180°	17574.0	100.0

Coefficient of Utilization



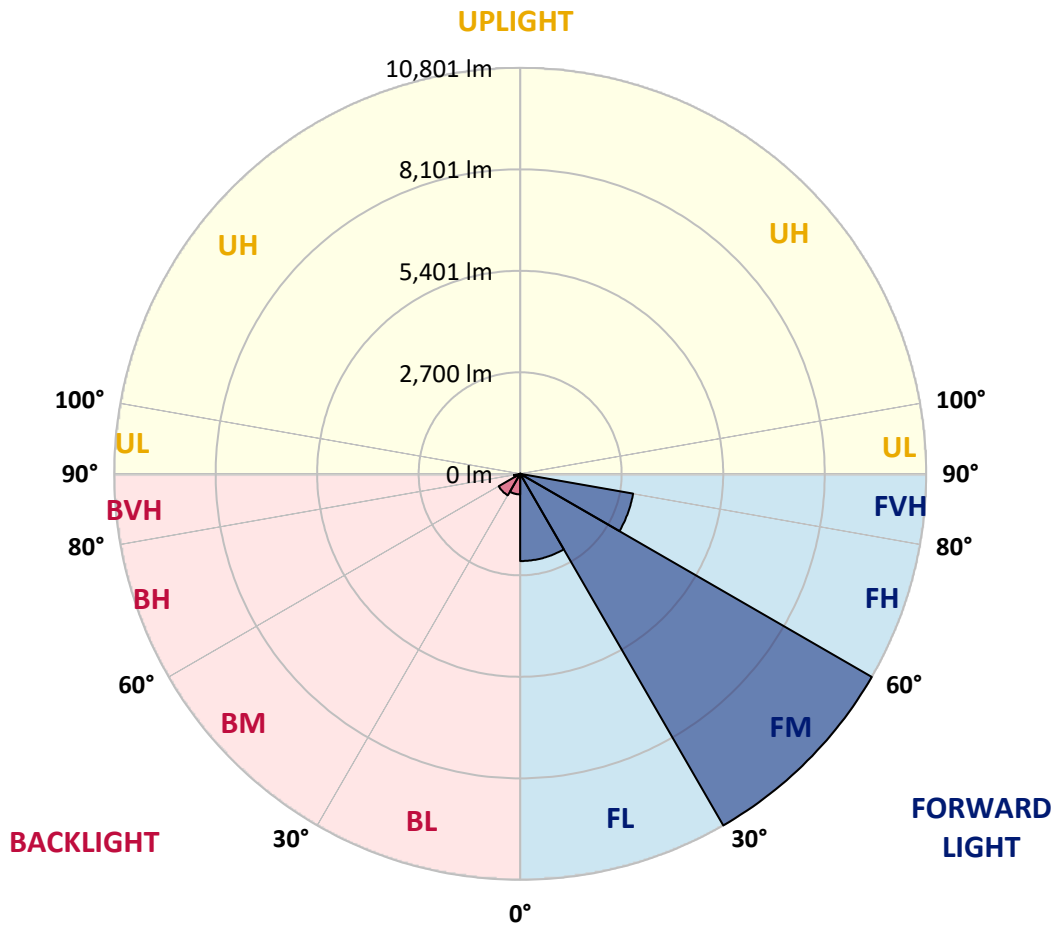
REPORT NUMBER: P951216
 CATALOG NUMBER: GALN-SB5B-940-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.8	13.2			
FM (30°-60°)	10801.1	61.5			
FH (60°-80°)	3049.7	17.4			G2/5000
FVH (80°-90°)	30.0	0.2			G1/100
BL (0°-30°)	547.9	3.1	B2/1000		
BM (30°-60°)	659.1	3.8	B1/1000		
BH (60°-80°)	163.2	0.9	B1/500		G1/500
BVH (80°-90°)	2.2	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: P951216
 CATALOG NUMBER: GALN-SB5B-940-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9
2.5°	5254.6	5188.5	5178.8	5165.8	5040.1	4945.8	4809.2	4659.7	4491.7	4320.5
5°	6070.6	6018.6	6008.8	5948.2	5805.1	5644.7	5402.0	5095.3	4782.1	4413.7
7.5°	6228.8	6219.1	6263.5	6261.3	6241.8	6115.0	5910.2	5545.0	5074.7	4528.6
10°	5523.4	5548.3	5680.5	5796.4	6109.6	6291.7	6247.2	5946.0	5376.0	4659.7
12.5°	4880.8	4851.5	4945.8	5076.9	5441.0	5982.8	6387.0	6280.8	5720.6	4808.2
15°	4477.6	4465.7	4518.8	4579.5	4856.9	5403.1	6224.5	6552.8	6052.2	4983.7
17.5°	4348.7	4338.9	4355.2	4370.4	4550.2	4972.9	5837.6	6719.7	6369.7	5184.2
20°	4453.8	4440.8	4438.6	4426.7	4501.5	4789.7	5487.6	6731.6	6654.7	5366.2
22.5°	4760.5	4745.3	4692.2	4644.5	4651.0	4814.7	5331.6	6612.4	6869.3	5536.4
25°	5316.4	5291.5	5180.9	5020.5	4918.7	4988.0	5355.4	6455.3	7074.1	5669.7
27.5°	6012.1	5979.6	5837.6	5599.2	5366.2	5281.7	5527.7	6346.9	7244.2	5771.5
30°	6693.7	6651.4	6511.6	6326.3	5986.1	5719.5	5838.7	6394.6	7446.8	5877.7
32.5°	7429.5	7389.4	7204.1	6974.4	6692.6	6333.9	6264.6	6627.6	7695.0	6026.2
35°	8360.4	8297.5	8034.2	7721.0	7421.9	7058.9	6841.1	7029.6	8025.5	6252.7
37.5°	9420.2	9335.6	9051.7	8619.3	8229.2	7822.9	7543.3	7582.3	8509.9	6556.1
40°	10419.3	10342.3	10080.1	9672.7	9182.8	8689.8	8391.8	8305.1	9178.5	6925.6
42.5°	11018.5	10949.2	10838.7	10666.4	10253.5	9750.7	9374.6	9187.2	9969.6	7367.7
45°	11052.1	10991.5	11139.9	11340.4	11259.1	10924.3	10465.9	10122.4	10763.9	7782.8
47.5°	10514.6	10473.5	10924.3	11624.3	11973.2	12114.1	11691.5	10979.5	11419.5	8080.8
50°	9049.6	9034.4	9962.0	11247.2	12245.2	13156.6	12984.3	11777.1	11927.7	8234.6
52.5°	7846.7	7791.4	8332.2	10040.0	11849.7	13704.9	14247.8	12559.5	12283.2	8263.9
55°	5951.4	5902.6	6581.0	8020.1	10574.2	13509.9	15172.2	13366.8	12537.8	8189.1
57.5°	3192.4	3162.1	4019.3	5338.1	8266.1	12339.5	15339.1	14220.7	12752.4	7990.8
60°	1242.9	1237.5	1558.3	2589.9	5023.8	10038.9	14497.1	14733.3	12886.8	7747.0
62.5°	752.1	768.3	820.3	1162.8	2219.3	6236.4	12556.2	14150.3	12976.7	7523.8
65°	622.0	623.1	629.6	798.6	1063.1	2609.4	9452.7	12232.2	12754.6	7126.1
67.5°	533.2	542.9	567.8	633.9	749.9	1144.3	5442.1	9475.4	11403.2	6200.6
70°	420.5	433.5	464.9	521.2	578.7	716.3	2011.3	6304.7	8711.5	4673.8
72.5°	354.4	353.3	369.5	423.7	459.5	503.9	773.7	3532.7	5062.8	2231.2
75°	274.2	285.0	305.6	354.4	376.0	365.2	419.4	1290.6	1814.0	676.2
77.5°	214.6	223.2	241.7	289.3	311.0	259.0	241.7	461.6	583.0	242.7
80°	96.4	104.0	164.7	213.5	253.6	178.8	131.1	236.2	259.0	110.5
82.5°	17.3	29.3	96.4	112.7	130.0	116.0	68.3	122.5	126.8	44.4
85°	1.1	2.2	33.6	41.2	52.0	37.9	20.6	48.8	42.3	15.2
87.5°	0.0	0.0	0.0	1.1	1.1	5.4	6.5	8.7	6.5	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951216
 CATALOG NUMBER: GALN-SB5B-940-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4234.9	0°	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9	4234.9
4244.7	2.5°	4166.6	4012.8	3863.2	3740.8	3669.2	3547.9	3467.7	3454.7	3421.1	3450.3
4255.5	5°	4086.4	3811.2	3532.7	3283.5	3078.6	2814.2	2617.0	2533.6	2461.0	2485.9
4283.7	7.5°	4048.5	3614.0	3180.5	2754.6	2316.8	1894.2	1580.0	1448.8	1349.1	1363.2
4315.1	10°	3997.6	3409.2	2729.7	2079.5	1493.3	1076.1	859.3	779.1	734.7	735.8
4361.7	12.5°	3958.6	3164.3	2206.3	1409.8	909.2	687.0	619.8	600.3	587.3	588.4
4432.1	15°	3939.1	2876.0	1689.4	939.5	650.2	581.9	565.7	557.0	548.3	547.2
4510.1	17.5°	3906.6	2555.2	1236.4	685.9	568.9	545.1	531.0	521.2	510.4	508.2
4577.3	20°	3857.8	2191.1	903.8	579.8	533.2	514.7	495.2	482.2	469.2	467.1
4619.6	22.5°	3767.8	1806.4	694.6	536.4	507.1	486.6	462.7	447.5	434.5	432.4
4599.0	25°	3601.0	1445.6	585.2	509.3	484.4	459.5	433.5	412.9	401.0	398.8
4554.6	27.5°	3389.7	1135.7	531.0	484.4	455.1	432.4	403.1	383.6	372.8	370.6
4496.1	30°	3140.4	874.5	499.6	456.2	420.5	401.0	374.9	358.7	352.2	352.2
4454.9	32.5°	2871.7	699.0	486.6	428.0	390.1	368.4	347.9	341.3	339.2	338.1
4477.6	35°	2619.2	606.8	480.1	405.3	363.0	342.4	333.8	334.8	339.2	339.2
4548.1	37.5°	2394.9	577.6	476.8	389.0	339.2	320.8	326.2	335.9	331.6	331.6
4671.6	40°	2192.2	580.8	474.6	377.1	319.7	308.8	319.7	312.1	301.3	300.2
4822.2	42.5°	2037.3	607.9	470.3	367.4	307.8	300.2	295.8	283.9	282.8	285.0
4978.3	45°	1924.6	631.8	469.2	363.0	294.8	280.7	275.2	263.3	285.0	290.4
5042.2	47.5°	1791.3	631.8	469.2	347.9	273.1	267.7	259.0	246.0	267.7	273.1
4981.5	50°	1619.0	591.7	450.8	330.5	255.7	252.5	237.3	221.1	216.7	220.0
4839.6	52.5°	1401.2	519.1	404.2	306.7	238.4	231.9	213.5	201.6	198.3	198.3
4584.9	55°	1153.0	434.5	341.3	272.0	220.0	208.1	195.1	189.6	186.4	184.2
4228.4	57.5°	937.4	356.5	274.2	241.7	202.6	187.5	183.1	176.6	171.2	168.0
3930.4	60°	769.4	280.7	226.5	214.6	185.3	171.2	170.1	161.5	147.4	145.2
3684.4	62.5°	593.8	205.9	190.7	186.4	168.0	156.0	153.9	136.5	114.9	110.5
3335.5	65°	419.4	160.4	153.9	163.6	149.5	138.7	133.3	107.3	84.5	81.3
2791.5	67.5°	294.8	134.4	121.4	143.0	130.0	116.0	112.7	91.0	70.4	68.3
2110.9	70°	210.2	109.4	99.7	122.5	104.0	101.9	95.4	75.9	57.4	55.3
1044.6	72.5°	148.5	83.4	76.9	106.2	71.5	87.8	78.0	58.5	43.3	41.2
355.4	75°	109.4	59.6	54.2	61.8	52.0	66.1	55.3	39.0	27.1	26.0
160.4	77.5°	80.2	37.9	32.5	30.3	30.3	41.2	30.3	16.3	11.9	10.8
81.3	80°	56.3	17.3	15.2	13.0	11.9	9.8	4.3	2.2	1.1	1.1
28.2	82.5°	33.6	7.6	7.6	5.4	3.3	0.0	0.0	0.0	0.0	0.0
10.8	85°	7.6	3.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	1.1	1.1	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

