

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: P956676

Luminaire Tested: **GALN-SB9B-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956676  
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-SB9B-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

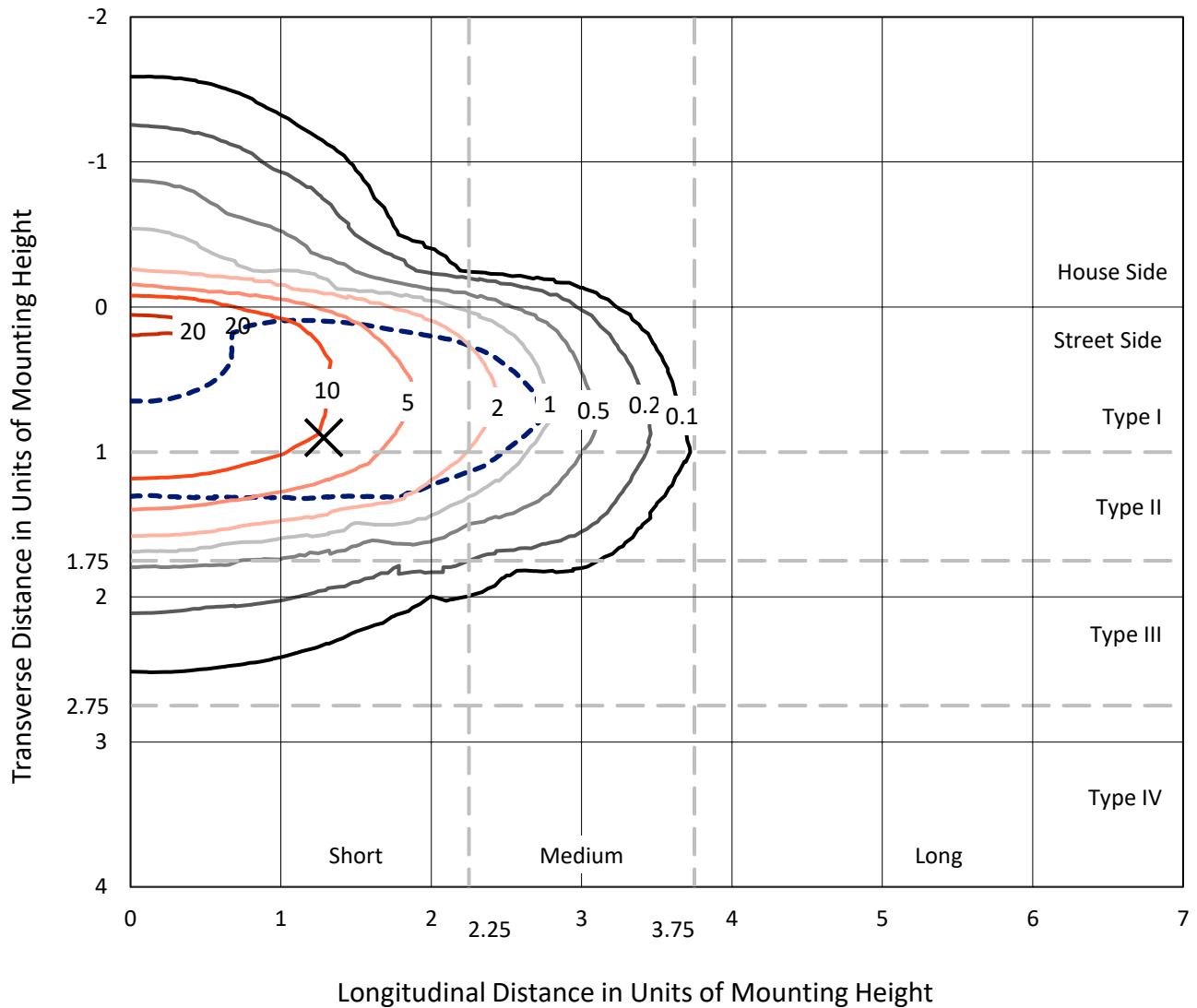
Lumens per Lamp: N/A  
Luminaire Lumens: 43731 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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: P956676  
 CATALOG NUMBER: GALN-SB9B-735-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

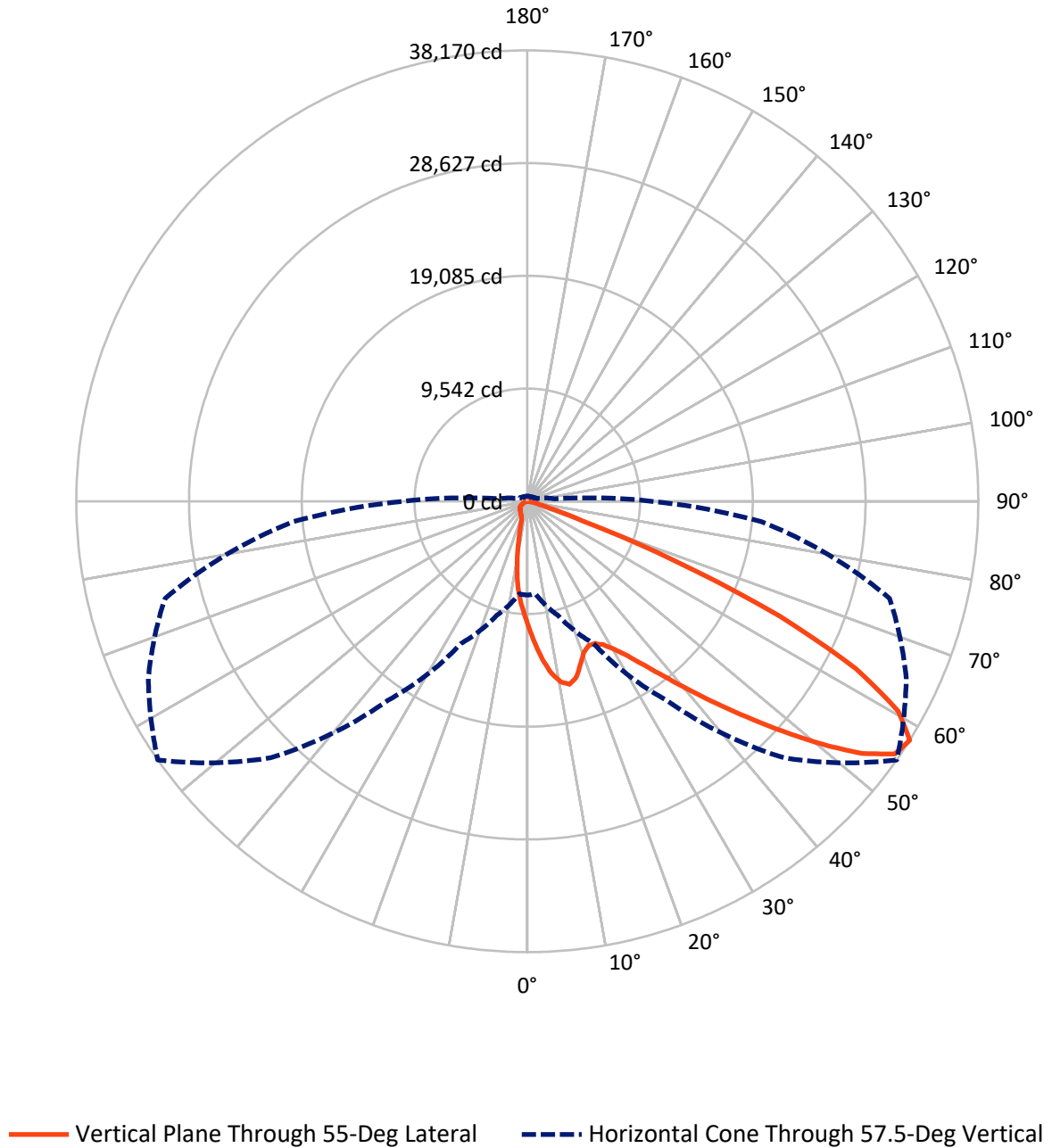
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P956676  
CATALOG NUMBER: GALN-SB9B-735-U-AFL-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P956676  
 CATALOG NUMBER: GALN-SB9B-735-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3415.2	0.0	3415.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	40315.8	0.0	40315.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	43731.0	0.0	43731.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	980.5	2.2
10°-20°	2368.4	5.4
20°-30°	3789.5	8.7
30°-40°	6413.9	14.7
40°-50°	10530.2	24.1
50°-60°	11573.5	26.5
60°-70°	6638.6	15.2
70°-80°	1356.5	3.1
80°-90°	80.0	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°	43731.0	100.0
0°-180°	43731.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P956676

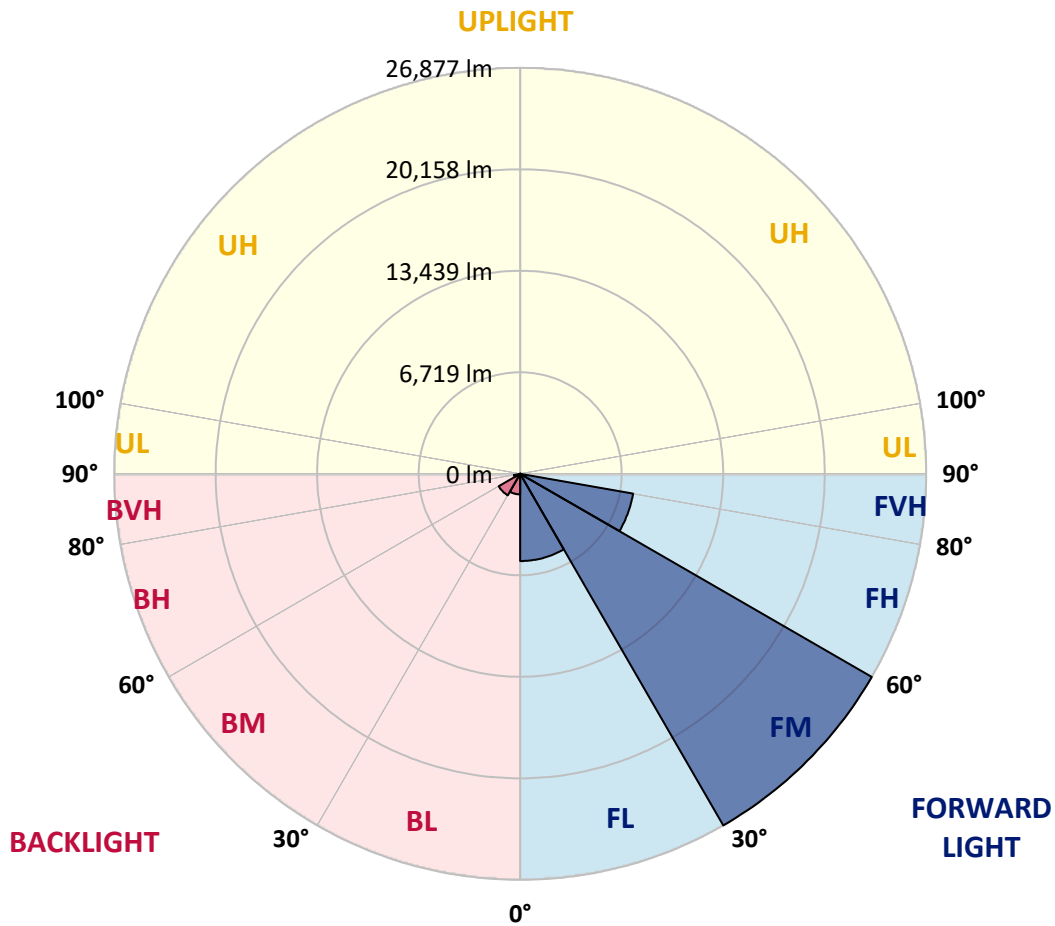
CATALOG NUMBER: GALN-SB9B-735-U-AFL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5774.9	13.2			
FM (30°-60°)	26877.4	61.5			
FH (60°-80°)	7588.8	17.4			G4/12000
FVH (80°-90°)	74.6	0.2			G1/100
BL (0°-30°)	1363.4	3.1	B3/2500		
BM (30°-60°)	1640.2	3.8	B2/2500		
BH (60°-80°)	406.2	0.9	B1/500		G1/500
BVH (80°-90°)	5.4	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: P956676

CATALOG NUMBER: GALN-SB9B-735-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1
2.5°	13075.5	12911.1	12886.8	12854.4	12541.6	12307.0	11967.3	11595.1	11177.2	10751.1
5°	15106.0	14976.6	14952.3	14801.3	14445.4	14046.3	13442.3	12679.1	11899.8	10983.0
7.5°	15499.7	15475.5	15586.0	15580.6	15532.1	15216.6	14706.9	13798.2	12627.9	11268.9
10°	13744.3	13806.3	14135.3	14423.8	15203.1	15656.1	15545.6	14795.9	13377.6	11595.1
12.5°	12145.2	12072.4	12307.0	12633.3	13539.3	14887.6	15893.4	15629.2	14235.1	11964.6
15°	11142.1	11112.5	11244.6	11395.6	12085.9	13445.0	15488.9	16306.0	15060.2	12401.4
17.5°	10821.2	10797.0	10837.4	10875.2	11322.8	12374.4	14526.3	16721.3	15850.3	12900.3
20°	11082.8	11050.4	11045.0	11015.4	11201.4	11918.7	13655.3	16750.9	16559.5	13353.3
22.5°	11845.9	11808.2	11676.0	11557.4	11573.6	11980.7	13267.0	16454.3	17093.4	13776.6
25°	13229.2	13167.2	12892.2	12493.1	12239.6	12412.2	13326.3	16063.3	17603.0	14108.3
27.5°	14960.4	14879.5	14526.3	13933.0	13353.3	13143.0	13755.1	15793.7	18026.4	14361.8
30°	16656.6	16551.4	16203.5	15742.4	14895.7	14232.4	14529.0	15912.3	18530.6	14626.1
32.5°	18487.5	18387.7	17926.6	17355.0	16653.9	15761.3	15588.7	16492.1	19148.2	14995.5
35°	20803.8	20647.4	19992.2	19212.9	18468.6	17565.3	17023.3	17492.5	19970.6	15559.1
37.5°	23441.1	23230.7	22524.2	21448.3	20477.6	19466.3	18770.6	18867.7	21176.0	16314.1
40°	25927.3	25735.8	25083.3	24069.4	22850.5	21623.6	20882.0	20666.3	22839.7	17233.6
42.5°	27418.5	27245.9	26970.8	26542.1	25514.7	24263.5	23327.8	22861.3	24808.2	18333.8
45°	27502.1	27351.0	27720.5	28219.3	28017.1	27183.9	26043.2	25188.4	26784.8	19366.6
47.5°	26164.6	26062.1	27183.9	28925.8	29794.1	30144.7	29093.0	27321.4	28416.2	20108.1
50°	22518.8	22481.1	24789.3	27987.4	30470.9	32738.7	32310.0	29306.0	29680.9	20491.0
52.5°	19525.7	19388.2	20733.7	24983.5	29486.7	34103.2	35454.2	31252.9	30565.3	20563.8
55°	14809.4	14688.1	16376.1	19957.1	26312.9	33617.8	37754.3	33261.9	31199.0	20377.8
57.5°	7944.0	7868.5	10001.5	13283.2	20569.2	30705.5	38169.6	35386.7	31732.9	19884.3
60°	3092.9	3079.5	3877.6	6444.7	12501.2	24980.8	36074.4	36662.2	32067.3	19277.6
62.5°	1871.4	1911.8	2041.3	2893.4	5522.5	15518.6	31244.9	35211.5	32291.1	18722.1
65°	1547.8	1550.5	1566.7	1987.4	2645.3	6493.3	23522.0	30438.6	31738.3	17732.5
67.5°	1326.7	1351.0	1413.0	1577.5	1866.0	2847.6	13542.0	23578.6	28375.7	15429.6
70°	1046.3	1078.6	1156.8	1297.0	1440.0	1782.4	5004.8	15688.5	21677.5	11630.2
72.5°	881.8	879.1	919.5	1054.3	1143.3	1253.9	1925.3	8790.7	12598.3	5552.2
75°	682.2	709.2	760.4	881.8	935.7	908.7	1043.6	3211.6	4514.0	1682.6
77.5°	533.9	555.5	601.3	720.0	773.9	644.5	601.3	1148.7	1450.7	604.0
80°	240.0	258.9	409.9	531.2	631.0	444.9	326.3	587.8	644.5	275.0
82.5°	43.1	72.8	240.0	280.4	323.6	288.5	169.9	304.7	315.5	110.6
85°	2.7	5.4	83.6	102.5	129.4	94.4	51.2	121.3	105.2	37.8
87.5°	0.0	0.0	0.0	2.7	2.7	13.5	16.2	21.6	16.2	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956676  
 CATALOG NUMBER: GALN-SB9B-735-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
10538.1	0°	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1	10538.1
10562.4	2.5°	10368.2	9985.3	9613.2	9308.5	9130.5	8828.5	8628.9	8596.6	8513.0	8585.8
10589.3	5°	10168.7	9483.7	8790.7	8170.5	7660.9	7002.9	6512.2	6304.5	6123.9	6185.9
10659.4	7.5°	10074.3	8993.0	7914.4	6854.6	5765.2	4713.6	3931.6	3605.3	3357.2	3392.3
10737.6	10°	9947.6	8483.3	6792.6	5174.7	3715.8	2677.7	2138.4	1938.8	1828.3	1831.0
10853.6	12.5°	9850.5	7873.9	5490.2	3508.2	2262.4	1709.6	1542.4	1493.9	1461.5	1464.2
11028.9	15°	9801.9	7156.6	4203.9	2337.9	1617.9	1448.0	1407.6	1386.0	1364.5	1361.8
11223.0	17.5°	9721.0	6358.5	3076.8	1706.9	1415.7	1356.4	1321.3	1297.0	1270.1	1264.7
11390.2	20°	9599.7	5452.4	2248.9	1442.7	1326.7	1280.9	1232.3	1200.0	1167.6	1162.2
11495.4	22.5°	9375.9	4495.1	1728.5	1334.8	1262.0	1210.7	1151.4	1113.7	1081.3	1075.9
11444.1	25°	8960.6	3597.2	1456.1	1267.4	1205.4	1143.3	1078.6	1027.4	997.7	992.3
11333.6	27.5°	8434.8	2826.0	1321.3	1205.4	1132.5	1075.9	1003.1	954.6	927.6	922.2
11188.0	30°	7814.6	2176.1	1243.1	1135.2	1046.3	997.7	933.0	892.6	876.4	876.4
11085.5	32.5°	7145.8	1739.3	1210.7	1065.1	970.8	916.8	865.6	849.4	844.0	841.3
11142.1	35°	6517.5	1510.1	1194.6	1008.5	903.3	852.1	830.5	833.2	844.0	844.0
11317.4	37.5°	5959.4	1437.3	1186.5	968.1	844.0	798.2	811.7	835.9	825.1	825.1
11624.8	40°	5455.1	1445.3	1181.1	938.4	795.5	768.5	795.5	776.6	749.6	746.9
11999.6	42.5°	5069.5	1512.8	1170.3	914.1	765.8	746.9	736.2	706.5	703.8	709.2
12387.9	45°	4789.1	1572.1	1167.6	903.3	733.5	698.4	684.9	655.3	709.2	722.7
12547.0	47.5°	4457.4	1572.1	1167.6	865.6	679.5	666.0	644.5	612.1	666.0	679.5
12396.0	50°	4028.6	1472.3	1121.8	822.4	636.4	628.3	590.5	550.1	539.3	547.4
12042.8	52.5°	3486.6	1291.6	1005.8	763.1	593.2	577.1	531.2	501.6	493.5	493.5
11409.1	55°	2869.1	1081.3	849.4	676.8	547.4	517.7	485.4	471.9	463.8	458.4
10521.9	57.5°	2332.5	887.2	682.2	601.3	504.3	466.5	455.7	439.5	426.1	418.0
9780.4	60°	1914.5	698.4	563.6	533.9	461.1	426.1	423.4	401.8	366.7	361.3
9168.2	62.5°	1477.7	512.3	474.6	463.8	418.0	388.3	382.9	339.8	285.8	275.0
8300.0	65°	1043.6	399.1	382.9	407.2	372.1	345.2	331.7	267.0	210.3	202.2
6946.3	67.5°	733.5	334.4	302.0	355.9	323.6	288.5	280.4	226.5	175.3	169.9
5252.9	70°	523.1	272.4	248.1	304.7	258.9	253.5	237.3	188.8	142.9	137.5
2599.5	72.5°	369.4	207.6	191.5	264.3	178.0	218.4	194.2	145.6	107.9	102.5
884.5	75°	272.4	148.3	134.8	153.7	129.4	164.5	137.5	97.1	67.4	64.7
399.1	77.5°	199.5	94.4	80.9	75.5	75.5	102.5	75.5	40.4	29.7	27.0
202.2	80°	140.2	43.1	37.8	32.4	29.7	24.3	10.8	5.4	2.7	2.7
70.1	82.5°	83.6	18.9	18.9	13.5	8.1	0.0	0.0	0.0	0.0	0.0
27.0	85°	18.9	8.1	8.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
10.8	87.5°	2.7	2.7	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

