

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: P951783

Luminaire Tested: **GALN-SB5D-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951783
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-SB5D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 39382 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

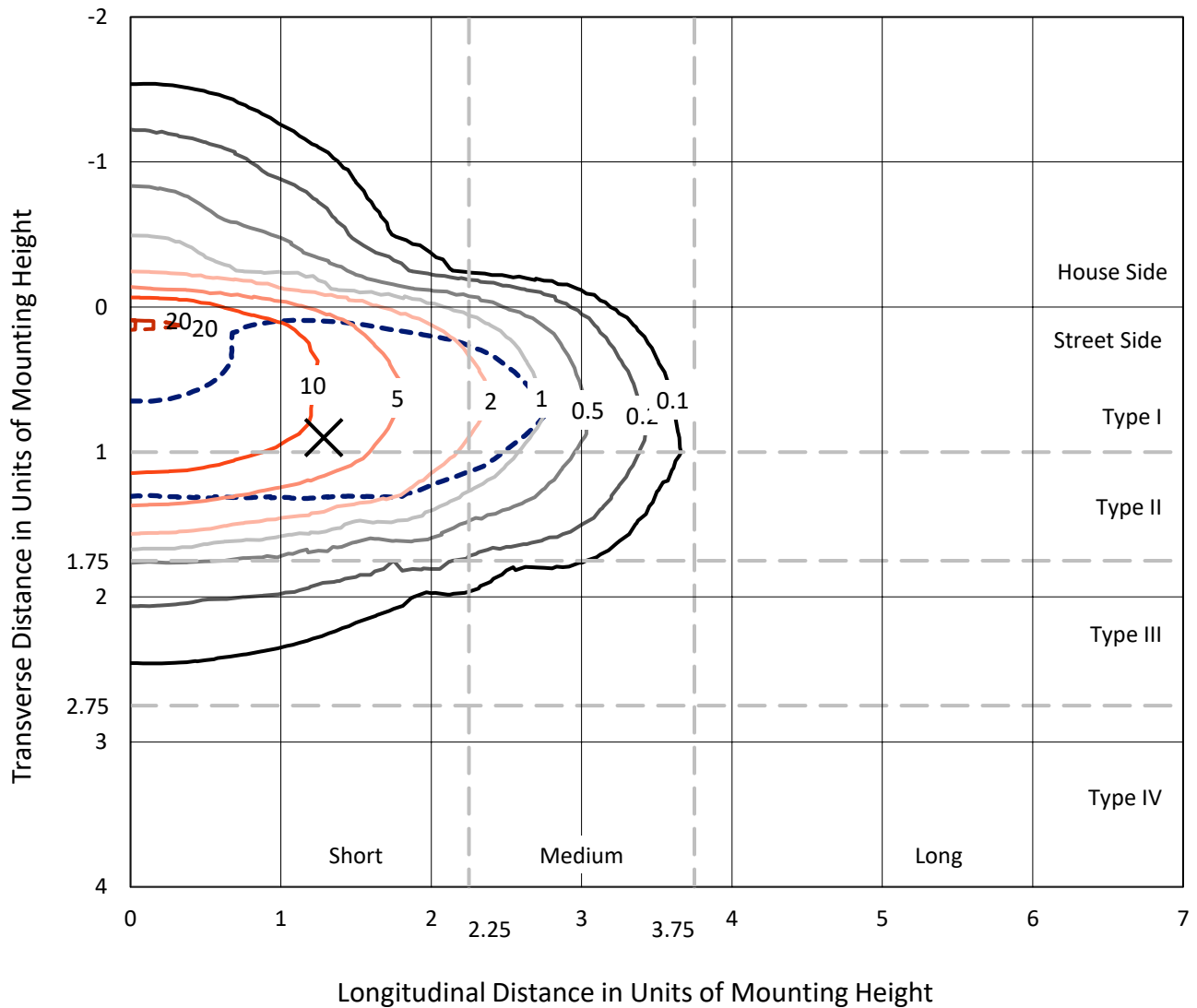
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951783
 CATALOG NUMBER: GALN-SB5D-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

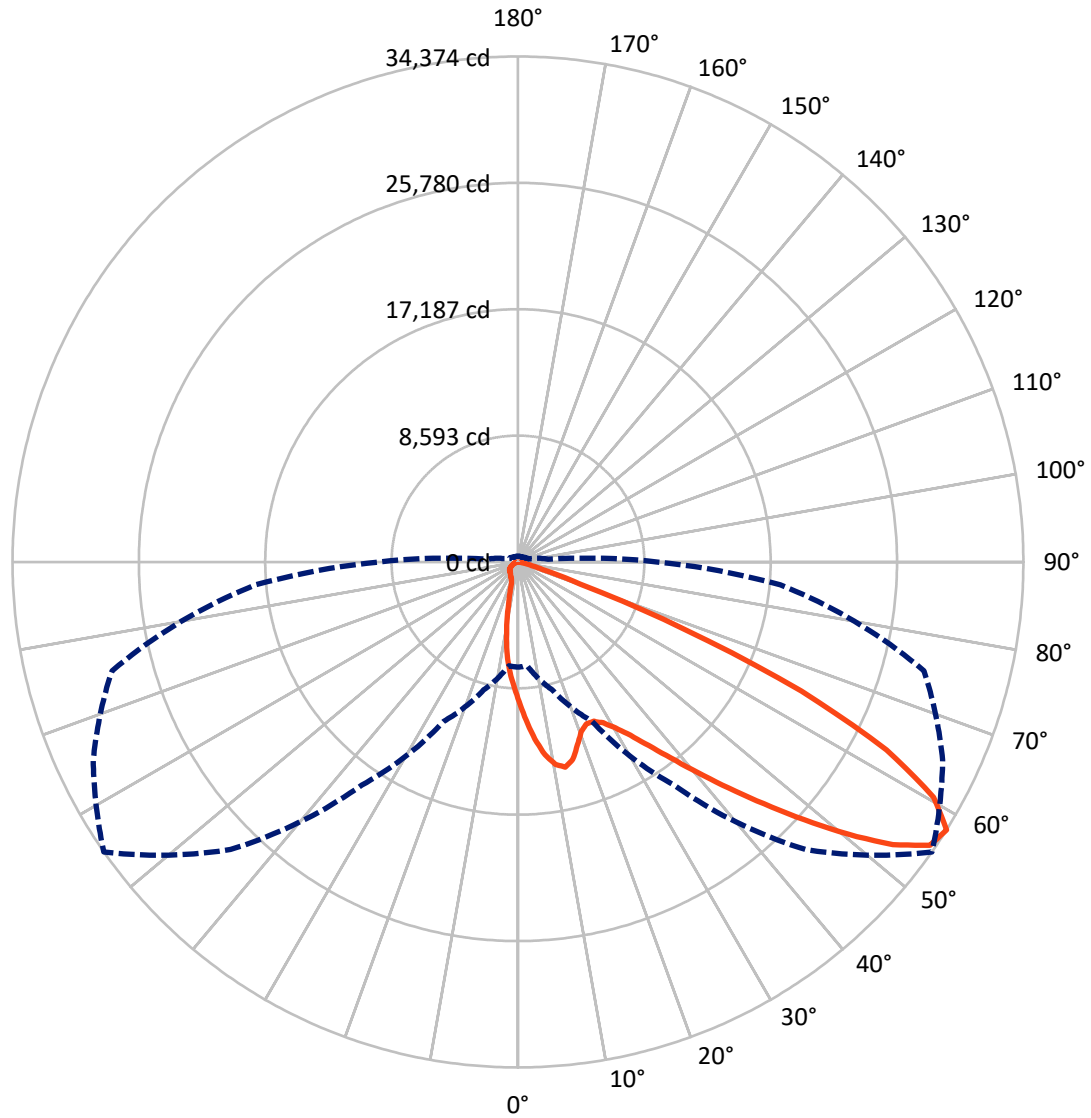
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc
 Type II - Short - N/A

REPORT NUMBER: P951783
CATALOG NUMBER: GALN-SB5D-830-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951783
 CATALOG NUMBER: GALN-SB5D-830-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3075.6	0.0	3075.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	36306.4	0.0	36306.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	39382.0	0.0	39382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.0	2.2
10°-20°	2132.9	5.4
20°-30°	3412.6	8.7
30°-40°	5776.0	14.7
40°-50°	9483.0	24.1
50°-60°	10422.5	26.5
60°-70°	5978.3	15.2
70°-80°	1221.6	3.1
80°-90°	72.1	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°	39382.0	100.0
0°-180°	39382.0	100.0

Coefficient of Utilization



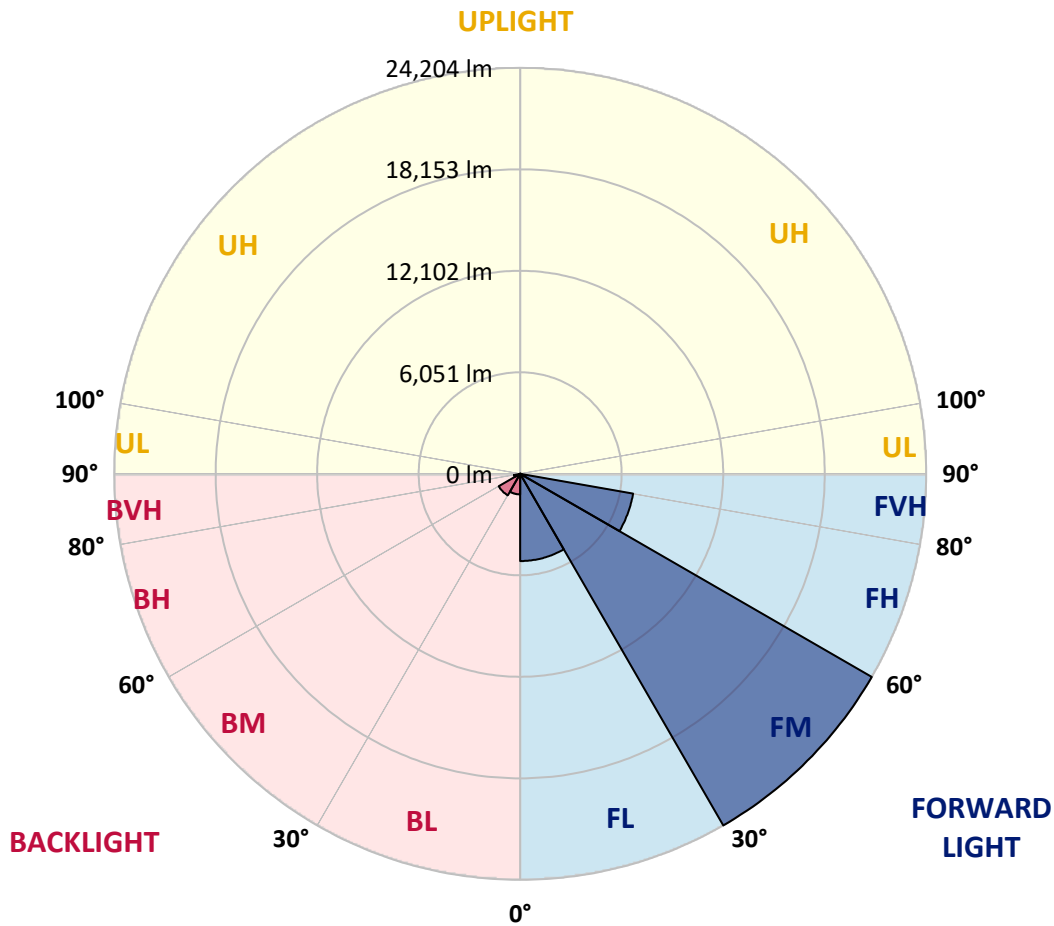
REPORT NUMBER: P951783
 CATALOG NUMBER: GALN-SB5D-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5200.6	13.2			
FM (30°-60°)	24204.5	61.5			
FH (60°-80°)	6834.1	17.4			G3/7500
FVH (80°-90°)	67.2	0.2			G1/100
BL (0°-30°)	1227.9	3.1	B3/2500		
BM (30°-60°)	1477.1	3.8	B2/2500		
BH (60°-80°)	365.8	0.9	B1/500		G1/500
BVH (80°-90°)	4.9	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-G3

Type II Short



REPORT NUMBER: P951783
 CATALOG NUMBER: GALN-SB5D-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1
2.5°	11775.2	11627.1	11605.2	11576.1	11294.4	11083.1	10777.1	10442.0	10065.6	9681.9
5°	13603.8	13487.2	13465.3	13329.4	13008.8	12649.4	12105.5	11418.2	10716.4	9890.8
7.5°	13958.3	13936.4	14036.0	14031.2	13987.4	13703.3	13244.4	12426.0	11372.1	10148.2
10°	12377.4	12433.3	12729.5	12989.4	13691.2	14099.1	13999.6	13324.5	12047.2	10442.0
12.5°	10937.4	10871.8	11083.1	11376.9	12192.9	13407.1	14312.8	14074.9	12819.4	10774.7
15°	10034.0	10007.3	10126.3	10262.3	10884.0	12107.9	13948.6	14684.4	13562.5	11168.1
17.5°	9745.1	9723.2	9759.6	9793.6	10196.7	11143.8	13081.7	15058.4	14274.0	11617.3
20°	9980.6	9951.5	9946.6	9919.9	10087.5	10733.4	12297.3	15085.1	14912.7	12025.3
22.5°	10667.9	10633.9	10514.9	10408.0	10422.6	10789.3	11947.6	14817.9	15393.5	12406.6
25°	11913.6	11857.8	11610.1	11250.7	11022.4	11177.8	12001.0	14465.8	15852.4	12705.3
27.5°	13472.6	13399.8	13081.7	12547.4	12025.3	11835.9	12387.1	14223.0	16233.7	12933.5
30°	15000.1	14905.4	14592.1	14176.9	13414.3	12817.0	13084.1	14329.8	16687.8	13171.5
32.5°	16648.9	16559.1	16143.8	15629.0	14997.6	14193.9	14038.4	14851.9	17243.9	13504.2
35°	18734.9	18594.1	18004.0	17302.2	16631.9	15818.4	15330.3	15752.9	17984.5	14011.7
37.5°	21109.9	20920.5	20284.2	19315.3	18441.1	17530.4	16903.9	16991.3	19070.0	14691.7
40°	23348.8	23176.4	22588.7	21675.7	20578.1	19473.1	18805.3	18611.1	20568.3	15519.7
42.5°	24691.7	24536.3	24288.6	23902.5	22977.3	21850.5	21007.9	20587.8	22341.1	16510.5
45°	24767.0	24631.0	24963.7	25412.9	25230.8	24480.5	23453.3	22683.5	24121.1	17440.6
47.5°	23562.5	23470.2	24480.5	26049.2	26831.1	27146.8	26199.7	24604.3	25590.2	18108.4
50°	20279.4	20245.4	22324.1	25204.1	27440.6	29482.9	29096.8	26391.6	26729.1	18453.2
52.5°	17583.9	17460.0	18671.8	22498.9	26554.3	30711.7	31928.3	28144.9	27525.6	18518.8
55°	13336.6	13227.4	14747.5	17972.4	23696.1	30274.6	33999.7	29954.0	28096.3	18351.2
57.5°	7154.0	7086.0	9006.8	11962.2	18523.6	27651.9	34373.7	31867.6	28577.1	17906.8
60°	2785.3	2773.2	3492.0	5803.8	11257.9	22496.5	32486.8	33016.2	28878.2	17360.5
62.5°	1685.3	1721.7	1838.3	2605.6	4973.3	13975.3	28137.6	31709.7	29079.8	16860.2
65°	1393.9	1396.3	1410.9	1789.7	2382.2	5847.5	21182.7	27411.5	28582.0	15969.0
67.5°	1194.8	1216.6	1272.5	1420.6	1680.4	2564.4	12195.3	21233.7	25553.8	13895.2
70°	942.2	971.4	1041.8	1168.0	1296.8	1605.2	4507.1	14128.3	19521.7	10473.6
72.5°	794.1	791.7	828.1	949.5	1029.6	1129.2	1733.9	7916.5	11345.4	5000.0
75°	614.4	638.7	684.8	794.1	842.6	818.4	939.8	2892.2	4065.1	1515.3
77.5°	480.8	500.2	541.5	648.4	696.9	580.4	541.5	1034.5	1306.5	544.0
80°	216.1	233.1	369.1	478.4	568.2	400.7	293.8	529.4	580.4	247.7
82.5°	38.9	65.6	216.1	252.6	291.4	259.8	153.0	274.4	284.1	99.6
85°	2.4	4.9	75.3	92.3	116.6	85.0	46.1	109.3	94.7	34.0
87.5°	0.0	0.0	0.0	2.4	2.4	12.1	14.6	19.4	14.6	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951783
 CATALOG NUMBER: GALN-SB5D-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
9490.1	0°	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1	9490.1
9511.9	2.5°	9337.1	8992.3	8657.2	8382.8	8222.5	7950.5	7770.8	7741.7	7666.4	7731.9
9536.2	5°	9157.4	8540.6	7916.5	7358.0	6899.0	6306.5	5864.5	5677.5	5514.8	5570.7
9599.4	7.5°	9072.4	8098.6	7127.3	6172.9	5191.9	4244.8	3540.6	3246.7	3023.3	3054.9
9669.8	10°	8958.3	7639.7	6117.1	4660.1	3346.3	2411.4	1925.7	1746.0	1646.4	1648.9
9774.2	12.5°	8870.9	7090.9	4944.2	3159.3	2037.4	1539.6	1389.0	1345.3	1316.2	1318.6
9932.1	15°	8827.1	6444.9	3785.8	2105.4	1457.0	1304.0	1267.6	1248.2	1228.8	1226.3
10106.9	17.5°	8754.3	5726.1	2770.8	1537.2	1274.9	1221.5	1189.9	1168.0	1143.8	1138.9
10257.5	20°	8645.0	4910.2	2025.3	1299.2	1194.8	1153.5	1109.8	1080.6	1051.5	1046.6
10352.2	22.5°	8443.5	4048.1	1556.6	1202.0	1136.5	1090.3	1036.9	1002.9	973.8	968.9
10306.0	25°	8069.5	3239.5	1311.3	1141.3	1085.5	1029.6	971.4	925.2	898.5	893.6
10206.5	27.5°	7596.0	2544.9	1189.9	1085.5	1019.9	968.9	903.4	859.6	835.4	830.5
10075.3	30°	7037.4	1959.7	1119.5	1022.3	942.2	898.5	840.2	803.8	789.2	789.2
9983.1	32.5°	6435.2	1566.3	1090.3	959.2	874.2	825.6	779.5	764.9	760.1	757.7
10034.0	35°	5869.4	1359.9	1075.8	908.2	813.5	767.4	747.9	750.4	760.1	760.1
10191.9	37.5°	5366.7	1294.3	1068.5	871.8	760.1	718.8	730.9	752.8	743.1	743.1
10468.7	40°	4912.6	1301.6	1063.6	845.1	716.4	692.1	716.4	699.4	675.1	672.7
10806.3	42.5°	4565.3	1362.3	1053.9	823.2	689.7	672.7	662.9	636.2	633.8	638.7
11156.0	45°	4312.8	1415.7	1051.5	813.5	660.5	628.9	616.8	590.1	638.7	650.8
11299.2	47.5°	4014.1	1415.7	1051.5	779.5	612.0	599.8	580.4	551.2	599.8	612.0
11163.2	50°	3628.0	1325.9	1010.2	740.7	573.1	565.8	531.8	495.4	485.7	493.0
10845.1	52.5°	3139.9	1163.2	905.8	687.2	534.2	519.7	478.4	451.7	444.4	444.4
10274.5	55°	2583.8	973.8	764.9	609.5	493.0	466.2	437.1	425.0	417.7	412.8
9475.5	57.5°	2100.5	798.9	614.4	541.5	454.1	420.1	410.4	395.8	383.7	376.4
8807.7	60°	1724.1	628.9	507.5	480.8	415.3	383.7	381.3	361.8	330.3	325.4
8256.5	62.5°	1330.7	461.4	427.4	417.7	376.4	349.7	344.8	306.0	257.4	247.7
7474.5	65°	939.8	359.4	344.8	366.7	335.1	310.8	298.7	240.4	189.4	182.1
6255.5	67.5°	660.5	301.1	272.0	320.5	291.4	259.8	252.6	204.0	157.8	153.0
4730.5	70°	471.1	245.3	223.4	274.4	233.1	228.3	213.7	170.0	128.7	123.8
2341.0	72.5°	332.7	187.0	172.4	238.0	160.3	196.7	174.8	131.1	97.1	92.3
796.5	75°	245.3	133.6	121.4	138.4	116.6	148.1	123.8	87.4	60.7	58.3
359.4	77.5°	179.7	85.0	72.9	68.0	68.0	92.3	68.0	36.4	26.7	24.3
182.1	80°	126.3	38.9	34.0	29.1	26.7	21.9	9.7	4.9	2.4	2.4
63.1	82.5°	75.3	17.0	17.0	12.1	7.3	0.0	0.0	0.0	0.0	0.0
24.3	85°	17.0	7.3	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0
9.7	87.5°	2.4	2.4	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

