

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: P949998

Luminaire Tested: **GALN-SB4C-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949998
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-SB4C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 22995 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

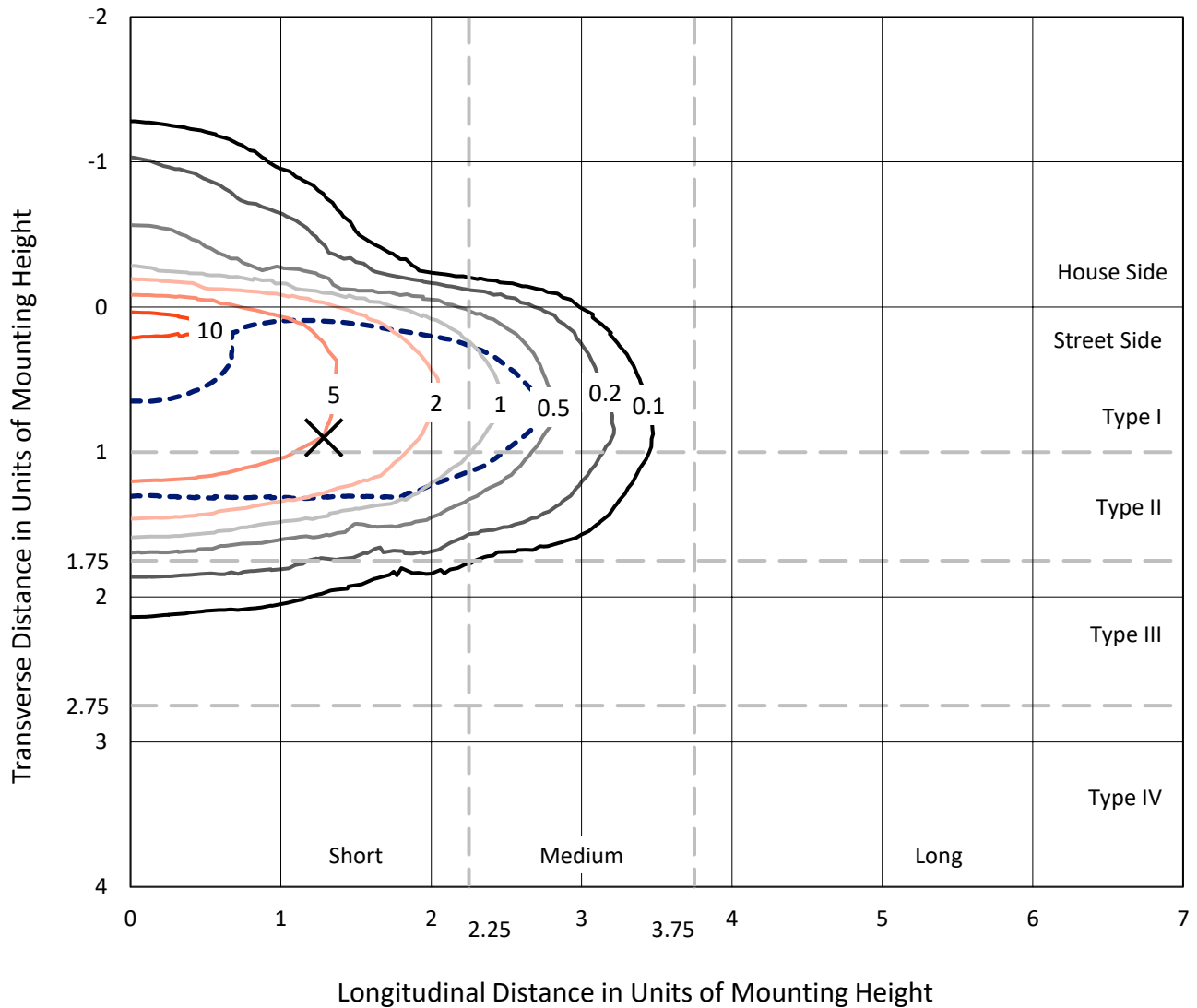
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949998
 CATALOG NUMBER: GALN-SB4C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

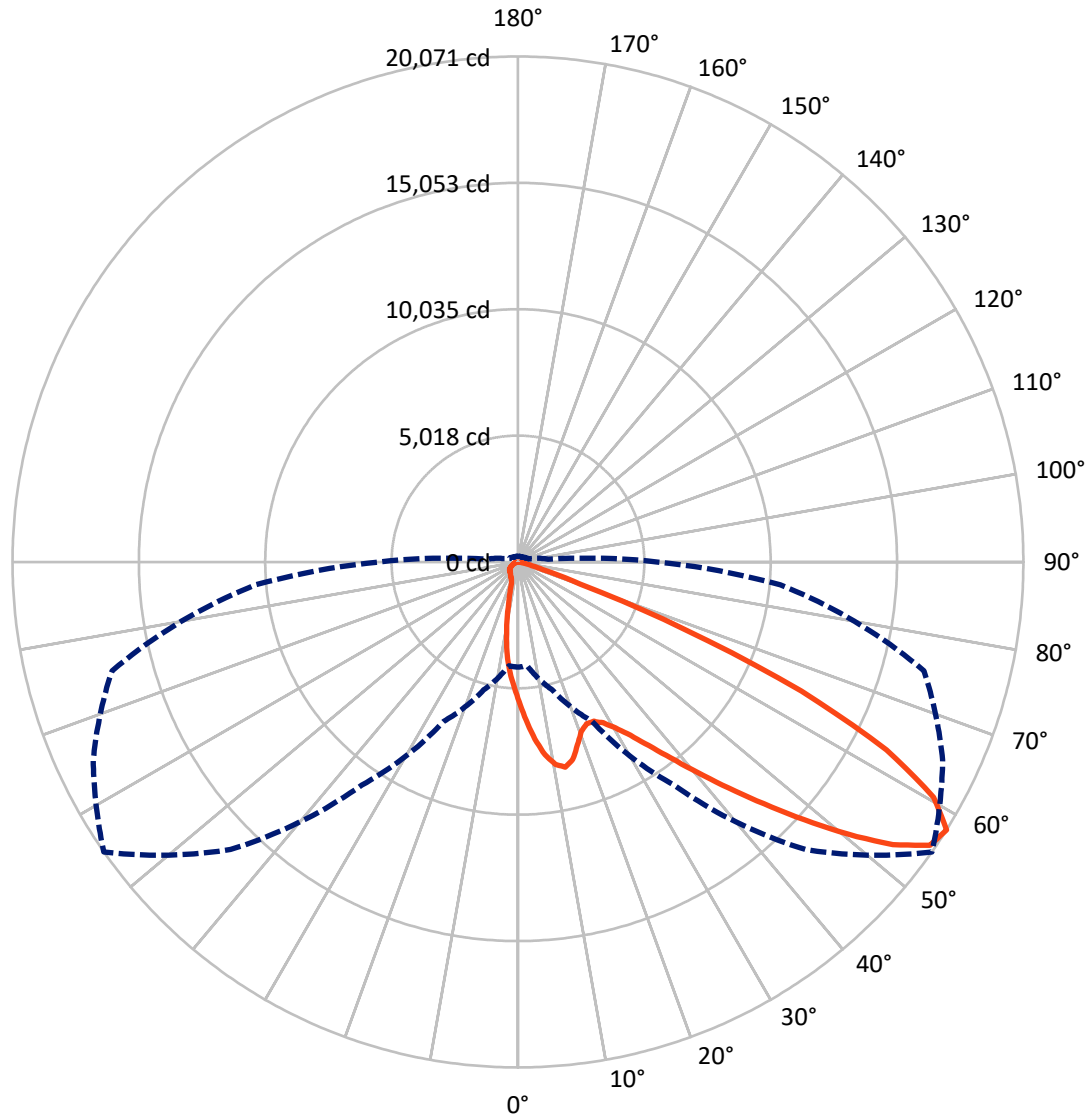
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

REPORT NUMBER: P949998
CATALOG NUMBER: GALN-SB4C-830-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P949998
 CATALOG NUMBER: GALN-SB4C-830-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1795.8	0.0	1795.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	21199.2	0.0	21199.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	22995.0	0.0	22995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.6	2.2
10°-20°	1245.4	5.4
20°-30°	1992.6	8.7
30°-40°	3372.6	14.7
40°-50°	5537.1	24.1
50°-60°	6085.7	26.5
60°-70°	3490.7	15.2
70°-80°	713.3	3.1
80°-90°	42.1	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°	22995.0	100.0
0°-180°	22995.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949998

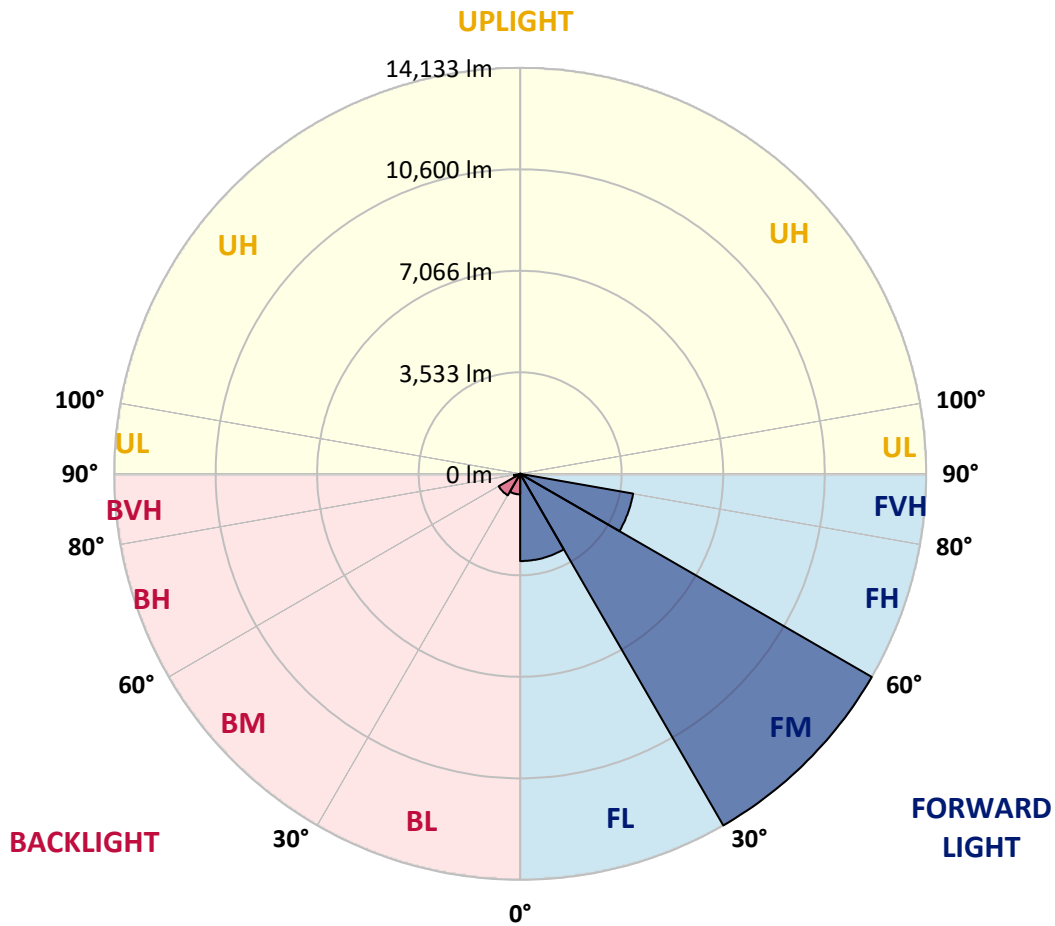
CATALOG NUMBER: GALN-SB4C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3036.6	13.2			
FM (30°-60°)	14132.9	61.5			
FH (60°-80°)	3990.4	17.4			G2/5000
FVH (80°-90°)	39.2	0.2			G1/100
BL (0°-30°)	716.9	3.1	B2/1000		
BM (30°-60°)	862.5	3.8	B1/1000		
BH (60°-80°)	213.6	0.9	B1/500		G1/500
BVH (80°-90°)	2.8	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: P949998

CATALOG NUMBER: GALN-SB4C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2
2.5°	6875.5	6789.0	6776.2	6759.2	6594.7	6471.4	6292.7	6097.1	5877.3	5653.2
5°	7943.2	7875.1	7862.4	7783.0	7595.8	7385.9	7068.3	6667.1	6257.3	5775.2
7.5°	8150.2	8137.4	8195.6	8192.7	8167.2	8001.3	7733.3	7255.5	6640.1	5925.5
10°	7227.1	7259.7	7432.7	7584.4	7994.2	8232.4	8174.3	7780.1	7034.3	6097.1
12.5°	6386.3	6348.0	6471.4	6643.0	7119.4	7828.3	8357.2	8218.3	7485.2	6291.3
15°	5858.8	5843.2	5912.7	5992.1	6355.1	7069.7	8144.5	8574.2	7919.1	6521.0
17.5°	5690.1	5677.3	5698.6	5718.5	5953.8	6506.8	7638.3	8792.5	8334.5	6783.3
20°	5827.6	5810.6	5807.8	5792.2	5890.0	6267.2	7180.3	8808.1	8707.4	7021.5
22.5°	6228.9	6209.1	6139.6	6077.2	6085.7	6299.8	6976.2	8652.1	8988.2	7244.1
25°	6956.3	6923.7	6779.1	6569.2	6435.9	6526.7	7007.4	8446.5	9256.2	7418.6
27.5°	7866.6	7824.1	7638.3	7326.4	7021.5	6910.9	7232.8	8304.8	9478.8	7551.8
30°	8758.5	8703.2	8520.3	8277.8	7832.6	7483.8	7639.7	8367.1	9743.9	7690.8
32.5°	9721.3	9668.8	9426.3	9125.7	8757.1	8287.7	8197.0	8672.0	10068.6	7885.0
35°	10939.2	10857.0	10512.5	10102.7	9711.3	9236.3	8951.3	9198.0	10501.1	8181.4
37.5°	12326.0	12215.4	11843.9	11278.1	10767.7	10236.0	9870.1	9921.2	11134.9	8578.4
40°	13633.3	13532.6	13189.5	12656.3	12015.4	11370.3	10980.4	10866.9	12009.8	9061.9
42.5°	14417.4	14326.7	14182.0	13956.6	13416.4	12758.4	12266.4	12021.1	13044.9	9640.4
45°	14461.4	14382.0	14576.2	14838.5	14732.2	14294.0	13694.3	13244.8	14084.2	10183.5
47.5°	13758.1	13704.2	14294.0	15210.0	15666.6	15850.9	15297.9	14366.4	14942.0	10573.4
50°	11841.0	11821.2	13034.9	14716.6	16022.5	17215.0	16989.5	15409.9	15607.0	10774.8
52.5°	10267.2	10194.8	10902.4	13137.0	15504.9	17932.4	18642.8	16433.7	16072.1	10813.1
55°	7787.2	7723.4	8611.0	10494.0	13836.1	17677.2	19852.3	17490.0	16405.3	10715.2
57.5°	4177.2	4137.5	5259.1	6984.7	10815.9	16145.8	20070.6	18607.4	16686.1	10455.7
60°	1626.4	1619.3	2039.0	3388.8	6573.5	13135.6	18968.9	19278.0	16861.9	10136.7
62.5°	984.0	1005.3	1073.4	1521.4	2903.9	8160.1	16429.4	18515.2	16979.6	9844.6
65°	813.9	815.3	823.8	1045.0	1391.0	3414.3	12368.5	16005.5	16688.9	9324.2
67.5°	697.6	710.4	743.0	829.5	981.2	1497.3	7120.8	12398.3	14920.8	8113.3
70°	550.2	567.2	608.3	682.0	757.2	937.2	2631.7	8249.5	11398.7	6115.5
72.5°	463.7	462.2	483.5	554.4	601.2	659.3	1012.4	4622.4	6624.5	2919.5
75°	358.7	372.9	399.9	463.7	492.0	477.8	548.7	1688.7	2373.6	884.8
77.5°	280.7	292.1	316.2	378.6	406.9	338.9	316.2	604.0	762.8	317.6
80°	126.2	136.1	215.5	279.3	331.8	234.0	171.6	309.1	338.9	144.6
82.5°	22.7	38.3	126.2	147.5	170.2	151.7	89.3	160.2	165.9	58.1
85°	1.4	2.8	44.0	53.9	68.1	49.6	26.9	63.8	55.3	19.9
87.5°	0.0	0.0	0.0	1.4	1.4	7.1	8.5	11.3	8.5	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949998
 CATALOG NUMBER: GALN-SB4C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5541.2	0°	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2	5541.2
5554.0	2.5°	5451.9	5250.6	5054.9	4894.7	4801.1	4642.3	4537.3	4520.3	4476.4	4514.7
5568.2	5°	5347.0	4986.8	4622.4	4296.3	4028.3	3682.3	3424.3	3315.1	3220.1	3252.7
5605.0	7.5°	5297.3	4728.8	4161.6	3604.4	3031.5	2478.5	2067.3	1895.8	1765.3	1783.7
5646.2	10°	5230.7	4460.8	3571.7	2721.0	1953.9	1408.0	1124.4	1019.5	961.3	962.8
5707.1	12.5°	5179.7	4140.3	2886.9	1844.7	1189.6	899.0	811.0	785.5	768.5	769.9
5799.3	15°	5154.1	3763.2	2210.5	1229.3	850.8	761.4	740.2	728.8	717.5	716.0
5901.4	17.5°	5111.6	3343.5	1617.8	897.5	744.4	713.2	694.8	682.0	667.8	665.0
5989.3	20°	5047.8	2867.0	1182.5	758.6	697.6	673.5	648.0	631.0	614.0	611.1
6044.6	22.5°	4930.1	2363.7	908.9	701.9	663.6	636.6	605.5	585.6	568.6	565.7
6017.6	25°	4711.7	1891.5	765.7	666.4	633.8	601.2	567.2	540.2	524.6	521.8
5959.5	27.5°	4435.3	1486.0	694.8	633.8	595.5	565.7	527.5	501.9	487.8	484.9
5882.9	30°	4109.1	1144.3	653.7	596.9	550.2	524.6	490.6	469.3	460.8	460.8
5829.1	32.5°	3757.5	914.6	636.6	560.1	510.5	482.1	455.2	446.6	443.8	442.4
5858.8	35°	3427.1	794.0	628.1	530.3	475.0	448.1	436.7	438.1	443.8	443.8
5951.0	37.5°	3133.6	755.8	623.9	509.0	443.8	419.7	426.8	439.6	433.9	433.9
6112.6	40°	2868.5	760.0	621.0	493.4	418.3	404.1	418.3	408.4	394.2	392.8
6309.7	42.5°	2665.7	795.5	615.4	480.7	402.7	392.8	387.1	371.5	370.1	372.9
6513.9	45°	2518.2	826.6	614.0	475.0	385.7	367.2	360.2	344.6	372.9	380.0
6597.6	47.5°	2343.8	826.6	614.0	455.2	357.3	350.2	338.9	321.9	350.2	357.3
6518.2	50°	2118.4	774.2	589.9	432.5	334.6	330.4	310.5	289.3	283.6	287.8
6332.4	52.5°	1833.4	679.2	528.9	401.3	311.9	303.4	279.3	263.7	259.5	259.5
5999.2	55°	1508.7	568.6	446.6	355.9	287.8	272.2	255.2	248.1	243.9	241.0
5532.7	57.5°	1226.5	466.5	358.7	316.2	265.2	245.3	239.6	231.1	224.0	219.8
5142.8	60°	1006.7	367.2	296.3	280.7	242.5	224.0	222.6	211.3	192.8	190.0
4820.9	62.5°	777.0	269.4	249.6	243.9	219.8	204.2	201.3	178.7	150.3	144.6
4364.4	65°	548.7	209.9	201.3	214.1	195.7	181.5	174.4	140.4	110.6	106.3
3652.6	67.5°	385.7	175.8	158.8	187.2	170.2	151.7	147.5	119.1	92.2	89.3
2762.1	70°	275.1	143.2	130.4	160.2	136.1	133.3	124.8	99.3	75.1	72.3
1366.9	72.5°	194.3	109.2	100.7	139.0	93.6	114.9	102.1	76.6	56.7	53.9
465.1	75°	143.2	78.0	70.9	80.8	68.1	86.5	72.3	51.0	35.4	34.0
209.9	77.5°	104.9	49.6	42.5	39.7	39.7	53.9	39.7	21.3	15.6	14.2
106.3	80°	73.7	22.7	19.9	17.0	15.6	12.8	5.7	2.8	1.4	1.4
36.9	82.5°	44.0	9.9	9.9	7.1	4.3	0.0	0.0	0.0	0.0	0.0
14.2	85°	9.9	4.3	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5.7	87.5°	1.4	1.4	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

