

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: P944316

Luminaire Tested: **GALN-SB9A-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22291 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

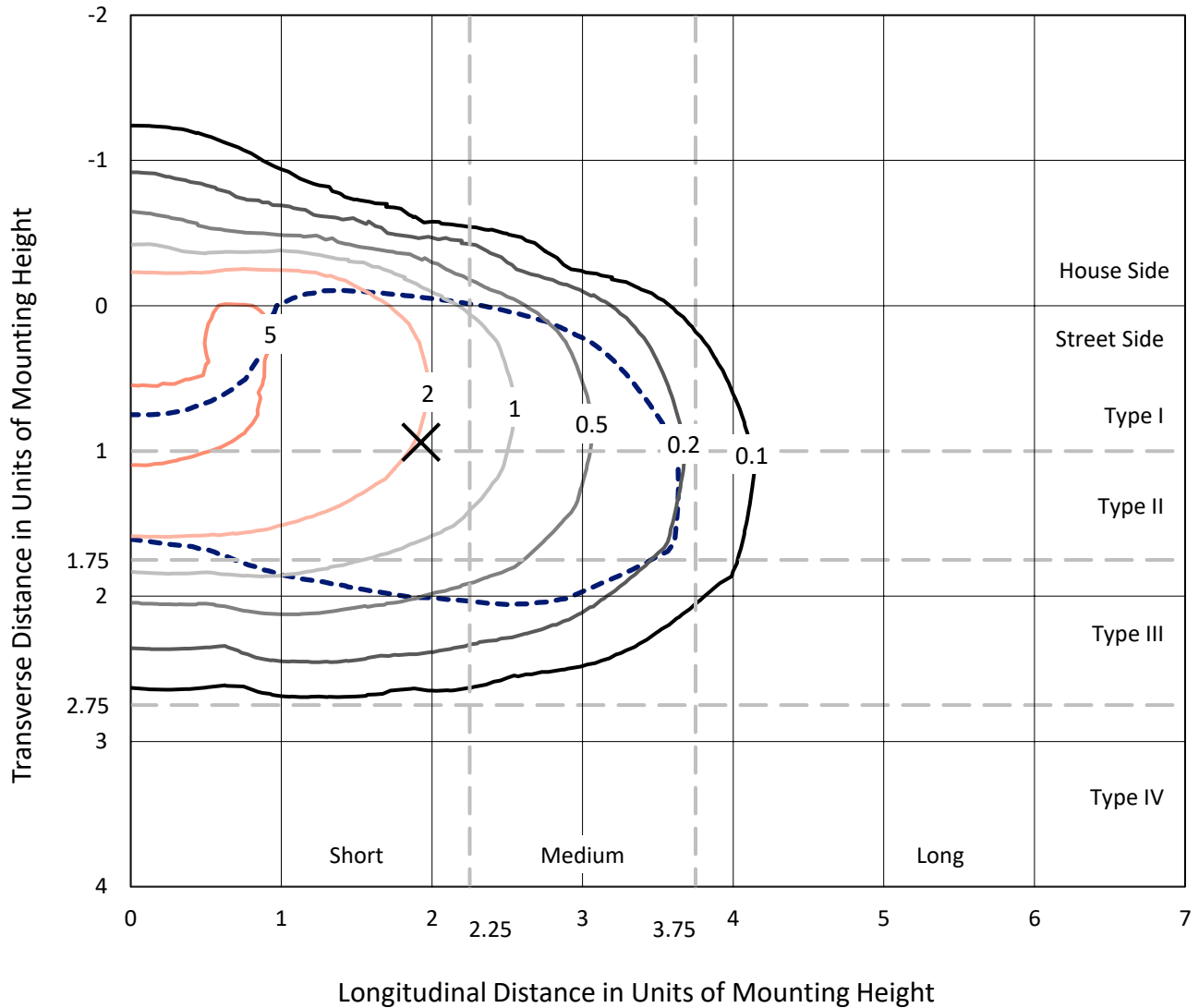
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

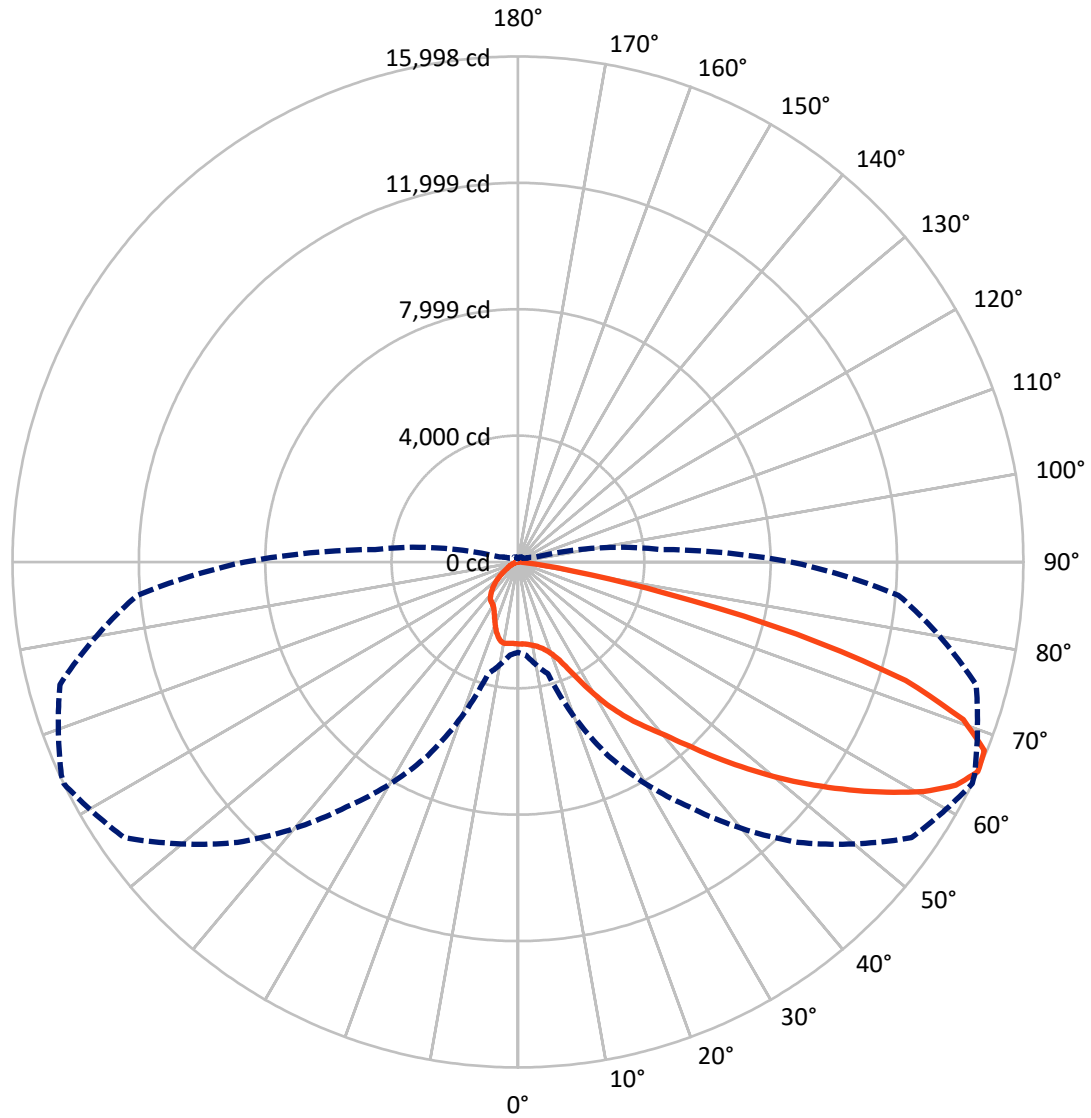
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2981.0	0.0	2981.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19310.0	0.0	19310.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	22291.0	0.0	22291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	1.1
10°-20°	648.8	2.9
20°-30°	1229.4	5.5
30°-40°	2487.7	11.2
40°-50°	4237.8	19.0
50°-60°	5763.1	25.9
60°-70°	5411.8	24.3
70°-80°	2168.2	9.7
80°-90°	105.0	0.5
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°	22291.0	100.0
0°-180°	22291.0	100.0

Coefficient of Utilization



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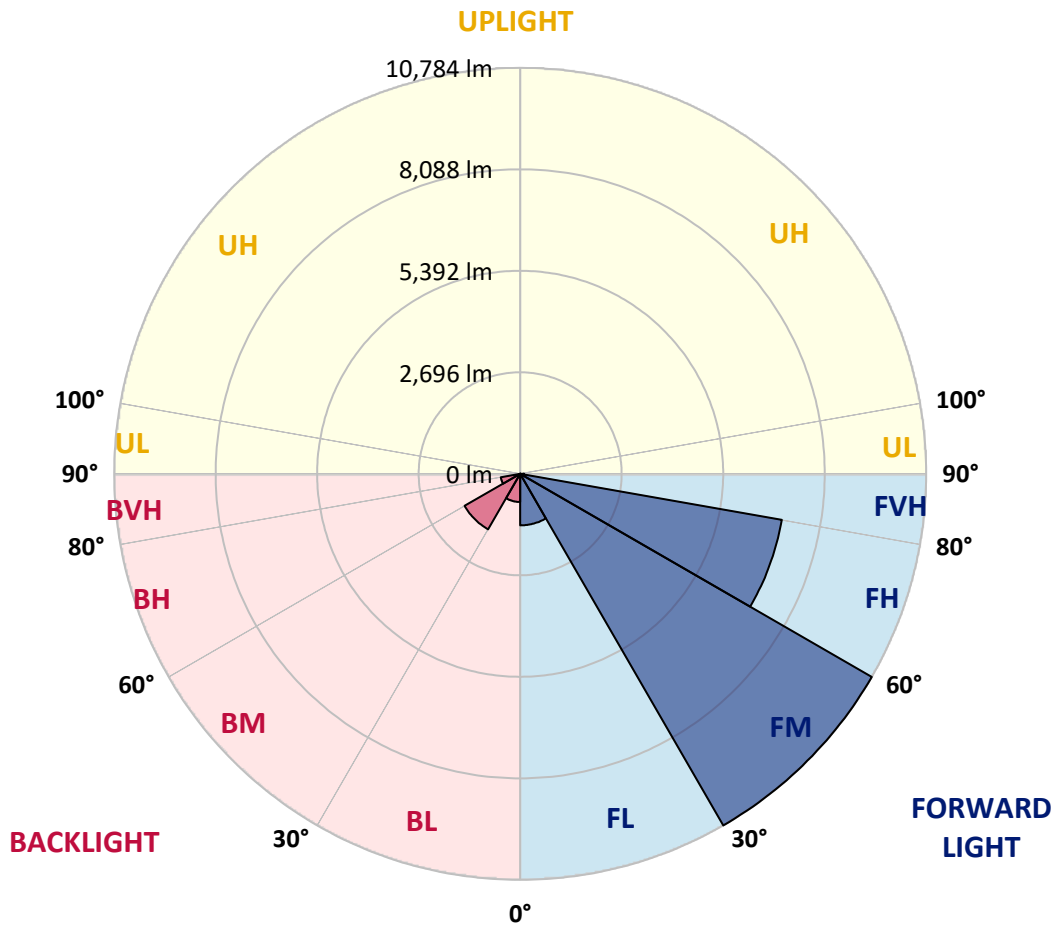
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1368.9	6.1			
FM (30°-60°)	10784.4	48.4			
FH (60°-80°)	7056.8	31.7			G3/7500
FVH (80°-90°)	99.9	0.4			G1/100
BL (0°-30°)	748.4	3.4	B2/1000		
BM (30°-60°)	1704.2	7.6	B2/2500		
BH (60°-80°)	523.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.1	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7
2.5°	2583.7	2601.6	2597.2	2592.7	2591.2	2594.2	2595.7	2594.2	2594.2	2594.2
5°	2534.4	2549.3	2549.3	2559.8	2574.7	2592.7	2606.1	2609.1	2612.1	2616.6
7.5°	2440.3	2452.2	2461.2	2495.5	2532.9	2580.7	2621.1	2642.0	2645.0	2661.4
10°	2376.0	2390.9	2405.9	2441.7	2495.5	2567.3	2636.0	2686.8	2694.3	2733.1
12.5°	2373.0	2388.0	2407.4	2446.2	2509.0	2585.2	2668.9	2742.1	2755.6	2812.3
15°	2404.4	2422.3	2440.3	2488.1	2555.3	2648.0	2737.6	2828.8	2842.2	2922.9
17.5°	2468.6	2492.6	2506.0	2553.8	2625.6	2728.7	2846.7	2951.3	2963.3	3057.4
20°	2595.7	2624.1	2628.5	2667.4	2737.6	2848.2	2988.7	3118.7	3133.6	3241.2
22.5°	2858.7	2899.0	2863.1	2882.6	2945.3	3055.9	3208.3	3372.7	3393.6	3516.2
25°	3321.9	3378.7	3286.0	3253.2	3280.1	3395.1	3586.4	3794.1	3818.0	3916.7
27.5°	4232.0	4158.7	4018.3	3880.8	3800.1	3865.8	4081.0	4338.1	4367.9	4463.6
30°	5231.7	5167.4	4977.6	4672.8	4481.5	4471.1	4669.8	4956.7	4991.1	5082.2
32.5°	6232.9	6171.6	5965.4	5590.3	5258.6	5094.2	5231.7	5550.0	5567.9	5626.2
35°	7217.6	7154.9	6948.7	6564.6	6156.7	5783.1	5756.2	6114.8	6120.8	6182.1
37.5°	8208.4	8156.1	7936.4	7559.9	7157.9	6642.3	6392.8	6649.8	6657.3	6717.0
40°	8915.2	8937.6	8786.7	8495.3	8150.1	7586.7	7107.1	7219.1	7174.3	7274.4
42.5°	9521.9	9566.7	9435.2	9288.8	9088.6	8592.4	7991.7	7972.3	7900.6	7954.4
45°	10046.4	10083.8	9965.7	9931.4	9926.9	9578.7	8958.6	8842.0	8741.9	8731.4
47.5°	10239.2	10310.9	10361.7	10476.8	10700.9	10554.5	9958.3	9777.4	9665.4	9583.2
50°	10312.4	10388.6	10562.0	10896.7	11427.2	11490.0	10953.5	10750.3	10612.8	10463.3
52.5°	10213.8	10349.8	10582.9	11146.3	11915.8	12240.1	11908.4	11730.5	11573.6	11330.1
55°	9632.5	9768.5	10245.2	11143.3	12159.4	12766.1	12811.0	12731.8	12555.4	12171.4
57.5°	8407.1	8608.9	9363.5	10763.7	12154.9	13218.9	13695.6	13752.4	13555.1	13005.2
60°	6709.6	6983.0	7903.5	9922.4	11779.9	13464.0	14471.2	14755.1	14545.9	13827.1
62.5°	4681.8	4998.6	5869.8	8604.4	10922.1	13287.6	15037.5	15562.0	15403.6	14562.3
65°	2855.7	2957.3	3659.6	6770.8	9463.6	12549.4	15212.4	15998.4	15946.1	15012.1
67.5°	1902.3	1987.5	2189.2	4642.9	7346.2	11074.5	14793.9	15922.2	15937.1	14938.9
70°	1146.2	1219.4	1350.9	2700.3	4761.0	8765.8	13498.3	14950.8	15037.5	13960.1
72.5°	472.2	521.5	641.1	1223.9	2465.7	5563.4	10748.8	12836.4	13038.1	11738.0
75°	267.5	292.9	376.6	614.2	1069.9	2592.7	6510.8	9112.5	9409.8	8090.3
77.5°	177.8	189.8	243.6	397.5	602.2	884.6	2782.5	4747.5	5315.4	4418.8
80°	119.5	130.0	167.4	266.0	391.5	379.6	886.1	1758.8	2163.8	1518.2
82.5°	80.7	82.2	119.5	174.8	248.1	183.8	261.5	546.9	687.4	439.3
85°	46.3	44.8	88.2	101.6	110.6	76.2	79.2	164.4	215.2	185.3
87.5°	6.0	9.0	34.4	26.9	14.9	16.4	16.4	28.4	41.8	44.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2592.7	0°	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7
2595.7	2.5°	2595.7	2594.2	2589.7	2585.2	2574.7	2568.8	2571.8	2568.8	2567.3	2568.8
2615.1	5°	2615.1	2610.6	2598.7	2583.7	2562.8	2537.4	2520.9	2497.0	2474.6	2461.2
2667.4	7.5°	2667.4	2662.9	2646.5	2604.6	2537.4	2431.3	2334.2	2249.0	2184.7	2147.4
2751.1	10°	2751.1	2743.6	2718.2	2625.6	2449.2	2217.6	2024.8	1864.9	1760.3	1711.0
2849.7	12.5°	2849.7	2840.7	2795.9	2606.1	2281.9	1920.2	1654.2	1476.4	1379.3	1335.9
2963.3	15°	2966.3	2954.3	2866.1	2513.5	2038.3	1591.5	1347.9	1214.9	1152.1	1113.3
3108.2	17.5°	3111.2	3090.3	2918.4	2374.5	1773.8	1340.4	1159.6	1059.5	1004.2	966.8
3298.0	20°	3299.5	3265.1	2960.3	2208.6	1530.2	1182.0	1032.6	948.9	907.1	874.2
3567.0	22.5°	3562.5	3513.2	3011.1	2029.3	1358.4	1072.9	938.4	877.2	842.8	805.4
3942.1	25°	3888.3	3830.0	3073.9	1863.4	1240.3	978.8	869.7	818.9	778.5	735.2
4433.7	27.5°	4344.0	4239.4	3148.6	1727.5	1138.7	898.1	806.9	750.2	703.8	668.0
4991.1	30°	4852.1	4680.3	3214.3	1645.3	1046.0	823.4	724.8	668.0	624.6	599.2
5491.7	32.5°	5333.3	5100.2	3257.7	1609.4	962.4	738.2	635.1	573.8	541.0	533.5
5981.8	35°	5787.6	5479.7	3253.2	1575.0	887.6	653.0	546.9	484.2	458.8	463.2
6509.3	37.5°	6310.6	5884.7	3221.8	1521.2	826.4	575.3	470.7	415.4	393.0	394.5
7150.4	40°	6918.8	6352.4	3202.4	1419.6	759.1	503.6	408.0	363.1	346.7	340.7
7825.8	42.5°	7567.3	6805.2	3205.4	1304.6	675.4	439.3	364.6	327.3	312.3	307.8
8577.5	45°	8218.9	7237.1	3209.8	1185.0	587.3	390.0	333.2	301.9	292.9	286.9
9339.6	47.5°	8831.5	7604.7	3126.2	1056.5	500.6	352.7	307.8	286.9	279.4	272.0
10104.7	50°	9402.4	7849.8	2924.4	907.1	431.9	322.8	288.4	273.5	266.0	258.5
10798.1	52.5°	9846.2	7888.6	2591.2	753.1	384.0	300.4	276.5	263.0	254.0	246.6
11358.5	55°	10043.4	7645.0	2117.5	609.7	346.7	280.9	264.5	251.0	240.6	233.1
11799.3	57.5°	9992.6	7132.5	1651.2	490.1	310.8	261.5	249.6	240.6	228.6	216.7
12156.4	60°	9743.1	6446.6	1244.8	408.0	277.9	240.6	233.1	225.6	209.2	191.3
12293.9	62.5°	9311.2	5584.3	887.6	337.7	242.1	216.7	213.7	207.7	183.8	150.9
12090.7	65°	8650.7	4536.8	597.7	280.9	207.7	189.8	191.3	180.8	149.4	112.1
11346.5	67.5°	7685.4	3317.4	382.6	230.1	173.3	158.4	159.9	153.9	127.0	95.6
9935.8	70°	6455.5	2196.7	249.6	174.8	139.0	122.5	131.5	133.0	107.6	77.7
7625.6	72.5°	4732.6	1297.1	174.8	130.0	101.6	85.2	107.6	110.6	86.7	58.3
4587.6	75°	2697.3	615.7	131.5	94.1	62.8	59.8	83.7	83.7	59.8	38.9
1986.0	77.5°	1132.7	257.0	92.6	61.3	35.9	34.4	56.8	52.3	29.9	17.9
484.2	80°	327.3	115.1	49.3	29.9	14.9	13.4	22.4	16.4	7.5	3.0
183.8	82.5°	128.5	50.8	19.4	12.0	6.0	6.0	3.0	0.0	0.0	0.0
104.6	85°	76.2	20.9	9.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
22.4	87.5°	19.4	4.5	3.0	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 O

180°
2592.7
2574.7
2464.2
2148.9
1706.5
1331.5
1114.8
963.8
868.2
799.5
730.7
660.5
594.7
538.0
463.2
400.5
339.2
306.3
286.9
272.0
258.5
245.1
231.6
215.2
188.3
147.9
109.1
91.2
74.7
55.3
35.9
17.9
3.0
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