

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: P944308

Luminaire Tested: **GALN-SB9A-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

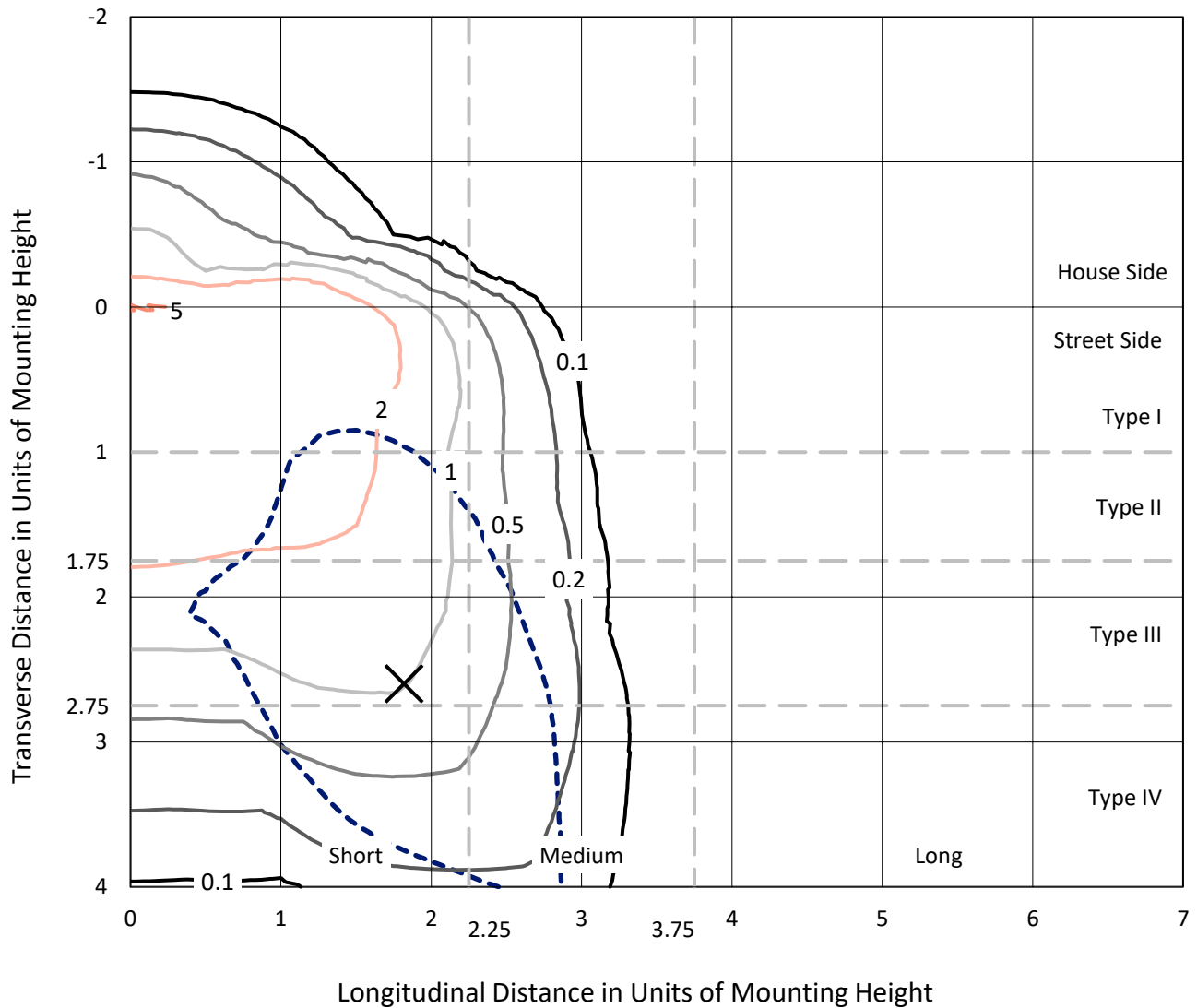
Lumens per Lamp: N/A  
Luminaire Lumens: 22417 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

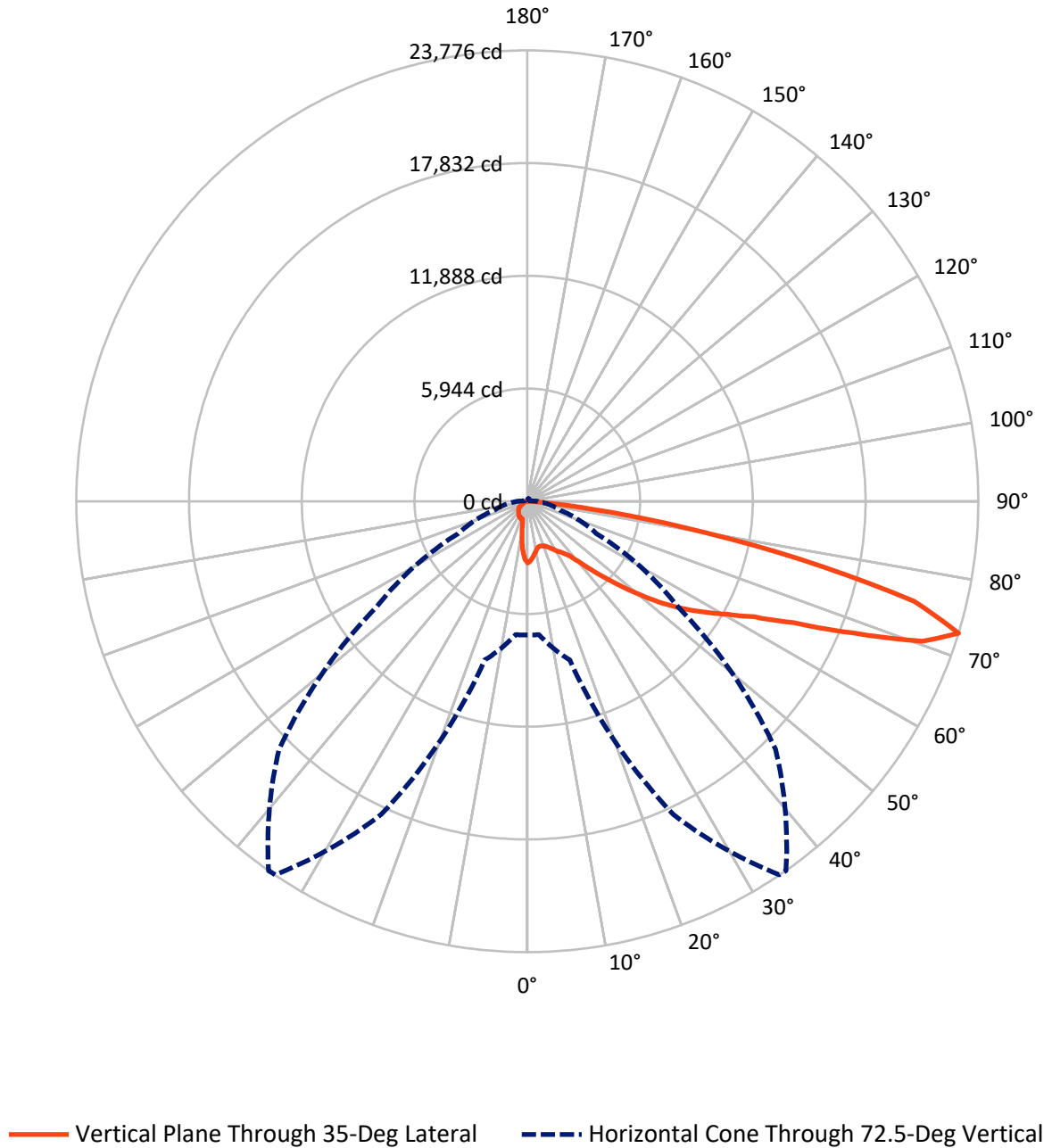
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2522.9	0.0	2522.9
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	19894.1	0.0	19894.1
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	22417.0	0.0	22417.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.0	1.2
10°-20°	624.6	2.8
20°-30°	1014.6	4.5
30°-40°	1692.8	7.6
40°-50°	3202.9	14.3
50°-60°	5089.4	22.7
60°-70°	6295.9	28.1
70°-80°	3913.6	17.5
80°-90°	316.3	1.4
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°	22417.0	100.0
0°-180°	22417.0	100.0

**Coefficient of Utilization**



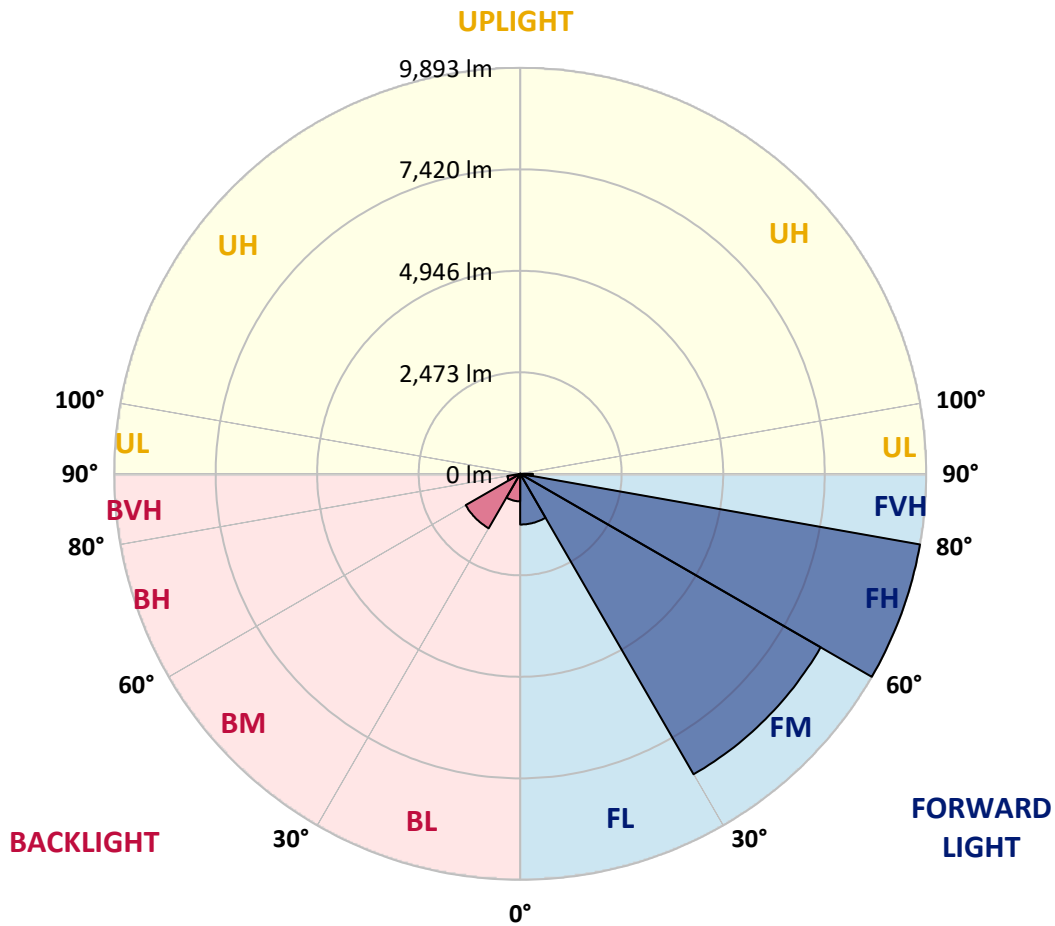
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.7	5.5			
FM (30°-60°)	8453.5	37.7			
FH (60°-80°)	9892.9	44.1			G4/12000
FVH (80°-90°)	312.0	1.4			G3/500
BL (0°-30°)	670.4	3.0	B2/1000		
BM (30°-60°)	1531.6	6.8	B2/2500		
BH (60°-80°)	316.6	1.4	B1/500		G1/500
BVH (80°-90°)	4.3	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-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0
2.5°	3104.4	3130.7	3135.6	3143.9	3143.9	3153.7	3170.1	3193.1	3230.9	3250.6
5°	2861.3	2881.0	2905.7	2925.4	2963.2	2968.1	3032.2	3094.6	3181.6	3247.3
7.5°	2616.6	2639.6	2672.4	2720.1	2769.3	2784.1	2881.0	2986.2	3124.1	3247.3
10°	2444.1	2445.8	2475.3	2523.0	2601.8	2619.9	2738.1	2887.6	3060.1	3227.6
12.5°	2347.2	2358.7	2371.9	2408.0	2483.5	2495.0	2621.5	2797.3	2996.0	3216.1
15°	2347.2	2355.4	2363.6	2381.7	2442.5	2452.3	2564.0	2739.8	2963.2	3221.1
17.5°	2371.9	2385.0	2378.4	2399.8	2463.8	2470.4	2569.0	2723.4	2961.5	3252.3
20°	2431.0	2440.8	2427.7	2440.8	2504.9	2518.0	2619.9	2754.6	2989.5	3306.5
22.5°	2524.6	2529.5	2498.3	2508.2	2573.9	2590.3	2708.6	2843.3	3056.8	3393.5
25°	2642.9	2652.7	2605.1	2616.6	2679.0	2698.7	2835.1	2976.3	3163.6	3513.4
27.5°	2779.2	2784.1	2743.1	2741.4	2821.9	2849.8	2987.8	3140.6	3306.5	3664.5
30°	2935.2	2950.0	2910.6	2904.0	3005.9	3028.9	3165.2	3342.6	3516.7	3891.2
32.5°	3058.4	3069.9	3046.9	3063.4	3166.8	3184.9	3380.4	3628.4	3846.9	4213.2
35°	3235.8	3242.4	3189.8	3219.4	3337.7	3383.7	3674.4	4029.2	4262.4	4617.2
37.5°	3878.1	3878.1	3654.7	3508.5	3621.8	3662.9	4076.8	4533.5	4774.9	5159.3
40°	4766.7	4751.9	4425.0	4126.1	4111.3	4191.8	4650.1	5169.1	5436.9	5809.7
42.5°	5714.5	5691.5	5246.3	4950.7	4901.4	4929.3	5312.0	5952.6	6225.3	6603.1
45°	6555.4	6548.9	6141.5	5744.0	5655.3	5744.0	6138.2	6869.2	7064.6	7462.1
47.5°	7260.1	7260.1	6962.8	6703.3	6657.3	6709.8	7256.8	7885.9	7867.8	8377.0
50°	8071.5	8064.9	7782.4	7670.7	7718.4	7792.3	8544.6	8956.9	8699.0	9275.5
52.5°	8639.8	8679.3	8582.4	8564.3	8807.4	8935.5	9852.0	10004.8	9443.1	10128.0
55°	9089.9	9135.9	9247.6	9374.1	9842.2	10009.7	11118.5	10998.6	10065.6	10867.1
57.5°	9727.2	9661.5	9834.0	10083.6	10840.9	11042.9	12345.4	11936.5	10566.6	11466.7
60°	10500.9	10510.7	10540.3	10855.6	11837.9	12097.4	13554.4	12823.4	10888.5	11834.6
62.5°	11430.5	11445.3	11506.1	11990.7	13176.6	13421.3	14842.1	13549.4	11036.3	11731.1
65°	11366.5	11428.9	12107.3	13764.6	15211.7	15453.2	16345.1	14058.6	10812.9	10785.0
67.5°	10354.7	10456.5	11591.5	15883.5	18280.0	18549.4	18161.7	14158.8	9848.8	8386.9
70°	9027.5	9063.6	10428.6	17788.9	21832.8	22105.5	19787.9	13056.7	7473.6	4678.0
72.5°	7049.8	7058.1	8659.6	18230.7	23761.2	23776.0	18511.6	9692.7	4019.3	1797.0
75°	5036.1	4986.8	5799.9	14784.6	20904.8	21072.3	13878.0	4546.6	1535.8	849.2
77.5°	2700.4	2754.6	3281.8	8768.0	14441.3	14727.2	7572.2	1310.8	781.9	578.2
80°	834.4	880.4	1345.3	4014.4	8179.9	8352.4	2807.1	583.1	545.3	412.3
82.5°	262.8	272.7	627.5	1686.9	3395.2	3474.0	813.1	330.2	372.9	272.7
85°	75.6	77.2	279.2	629.1	839.3	855.8	228.3	128.1	213.5	169.2
87.5°	8.2	26.3	105.1	105.1	73.9	72.3	24.6	27.9	60.8	21.4
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°
3249.0	0°	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0	3249.0
3263.8	2.5°	3255.5	3257.2	3235.8	3199.7	3160.3	3127.4	3086.4	3053.5	3030.5	3023.9
3293.3	5°	3278.5	3267.0	3206.3	3096.2	2964.8	2851.5	2725.0	2624.8	2559.1	2531.2
3324.5	7.5°	3313.0	3280.2	3147.1	2930.3	2679.0	2455.6	2228.9	2053.2	1941.5	1885.7
3354.1	10°	3342.6	3276.9	3048.6	2690.5	2306.1	1967.8	1662.3	1450.4	1332.1	1276.3
3388.6	12.5°	3370.5	3275.3	2920.5	2406.3	1885.7	1471.7	1187.6	1082.4	1049.6	1038.1
3444.4	15°	3423.1	3280.2	2759.5	2081.1	1466.8	1112.0	1008.5	1006.9	1013.5	1010.2
3529.9	17.5°	3495.4	3285.1	2577.2	1736.2	1131.7	980.6	975.7	990.5	1000.3	995.4
3636.6	20°	3589.0	3304.8	2383.3	1394.5	972.4	947.8	959.3	972.4	980.6	972.4
3779.5	22.5°	3720.4	3339.3	2171.5	1120.2	921.5	928.0	937.9	952.7	960.9	949.4
3961.8	25°	3881.4	3393.5	1962.9	974.0	896.8	905.0	919.8	936.3	946.1	934.6
4191.8	27.5°	4090.0	3480.6	1770.7	941.2	872.2	877.1	898.5	923.1	936.3	921.5
4518.7	30°	4392.2	3623.5	1604.8	956.0	857.4	845.9	875.5	910.0	924.8	911.6
4963.8	32.5°	4793.0	3825.5	1502.9	979.0	850.8	809.8	837.7	882.1	906.7	898.5
5545.3	35°	5318.6	4132.7	1463.5	1005.2	845.9	772.0	791.7	839.3	882.1	890.3
6277.8	37.5°	5955.9	4559.7	1475.0	1016.7	831.1	740.8	750.6	791.7	847.6	873.8
7102.4	40°	6680.3	5057.4	1540.7	1005.2	814.7	714.5	716.2	747.4	796.6	836.1
7989.4	42.5°	7427.6	5638.9	1662.3	962.5	799.9	691.5	686.6	707.9	740.8	768.7
8874.7	45°	8138.9	6236.8	1782.2	903.4	781.9	668.5	657.0	665.2	671.8	683.3
9737.1	47.5°	8759.7	6657.3	1747.7	849.2	757.2	642.2	622.5	619.2	599.5	597.9
10507.4	50°	9188.5	6749.3	1552.2	795.0	721.1	612.7	581.5	561.8	527.3	510.8
11084.0	52.5°	9324.8	6386.3	1268.1	740.8	661.9	573.3	528.9	497.7	455.0	440.2
11415.8	55°	9144.1	5675.0	1013.5	675.1	579.8	520.7	471.4	430.3	395.9	377.8
11451.9	57.5°	8702.3	4770.0	801.6	597.9	492.8	461.6	412.3	371.2	341.7	323.6
11051.1	60°	7969.7	3787.7	634.0	505.9	420.5	397.5	346.6	320.3	294.0	272.7
10016.3	62.5°	6857.7	2703.6	497.7	400.8	351.5	325.2	295.7	275.9	244.7	215.2
8155.3	65°	5351.4	1654.1	384.4	294.0	282.5	269.4	251.3	233.2	195.5	165.9
5320.2	67.5°	3375.5	783.5	274.3	221.7	223.4	216.8	208.6	193.8	165.9	139.6
2383.3	70°	1486.5	379.4	180.7	169.2	165.9	165.9	172.5	167.5	141.3	116.6
827.8	72.5°	505.9	203.7	134.7	128.1	119.9	118.3	144.5	139.6	113.3	90.3
412.3	75°	264.5	136.3	98.6	92.0	72.3	87.1	115.0	108.4	80.5	59.1
272.7	77.5°	172.5	96.9	67.3	59.1	41.1	57.5	85.4	75.6	47.6	29.6
179.0	80°	108.4	64.1	39.4	27.9	19.7	31.2	46.0	32.9	18.1	6.6
105.1	82.5°	57.5	32.9	14.8	9.9	8.2	9.9	11.5	8.2	3.3	0.0
54.2	85°	23.0	11.5	4.9	3.3	1.6	0.0	3.3	1.6	0.0	0.0
9.9	87.5°	8.2	1.6	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 O

<u>180°</u>
3249.0
3035.4
2541.0
1893.9
1277.9
1034.8
1008.5
993.7
970.8
947.8
933.0
921.5
910.0
898.5
890.3
880.4
849.2
780.2
689.9
596.2
512.5
438.6
377.8
320.3
267.7
210.2
161.0
136.3
111.7
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54.2
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