

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: P942948

Luminaire Tested: **GALN-SB7A-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942948
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-SB7A-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 17503 lumens
Efficiency: N/A
Efficacy: 87.9 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

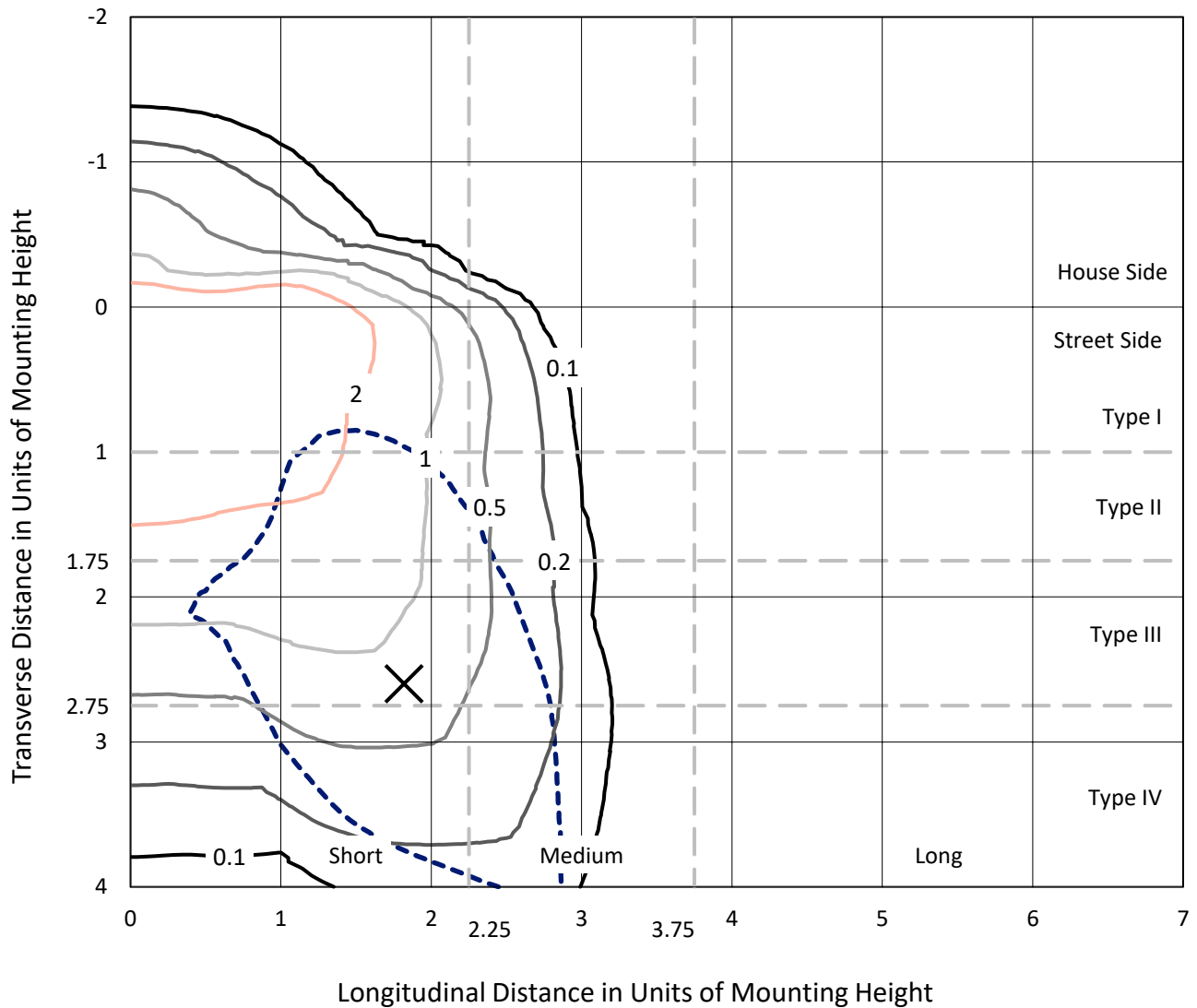
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

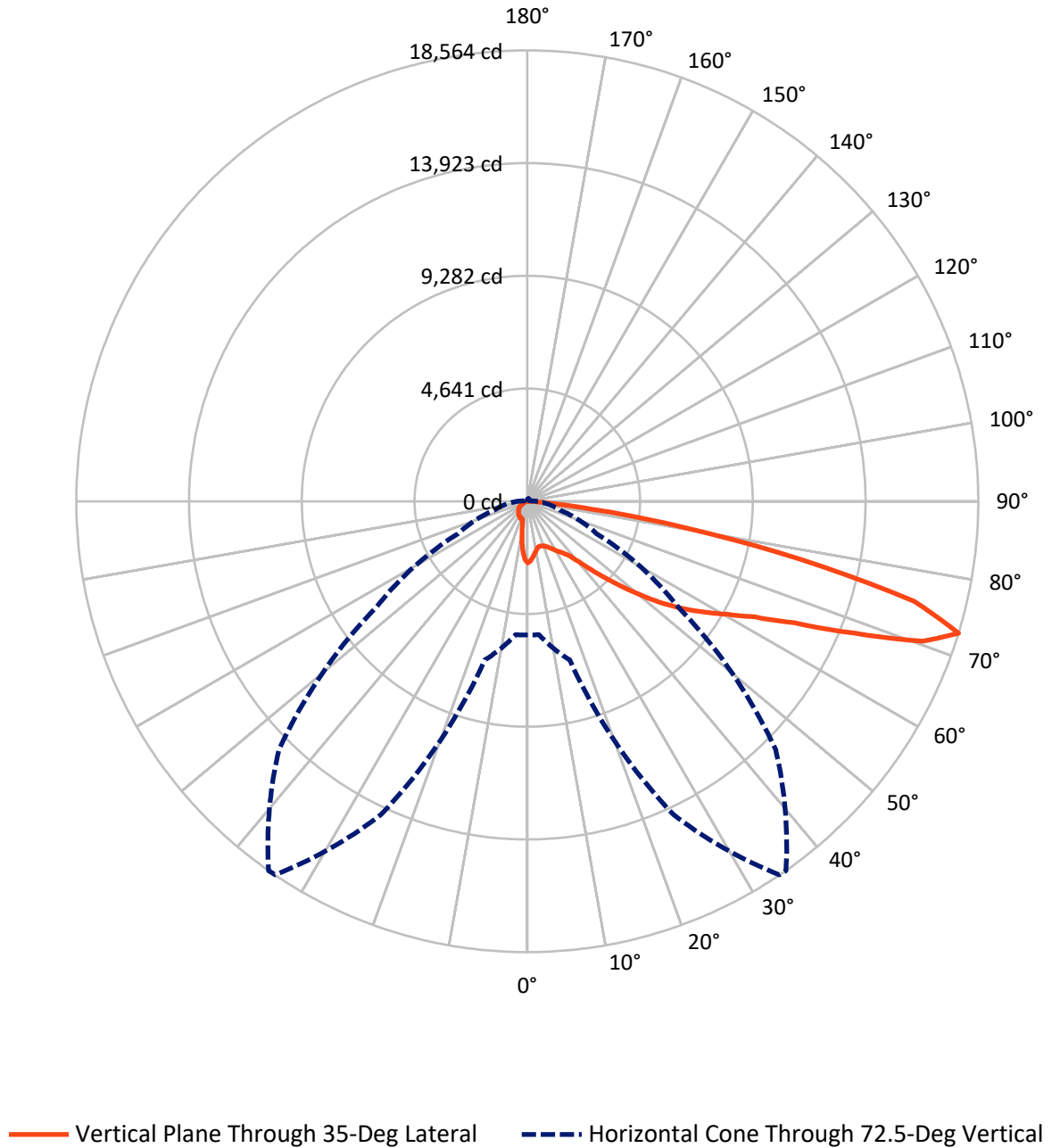
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1969.9	0.0	1969.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	15533.1	0.0	15533.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	17503.0	0.0	17503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	1.2
10°-20°	487.7	2.8
20°-30°	792.2	4.5
30°-40°	1321.8	7.6
40°-50°	2500.8	14.3
50°-60°	3973.7	22.7
60°-70°	4915.8	28.1
70°-80°	3055.7	17.5
80°-90°	247.0	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°	17503.0	100.0
0°-180°	17503.0	100.0

Coefficient of Utilization



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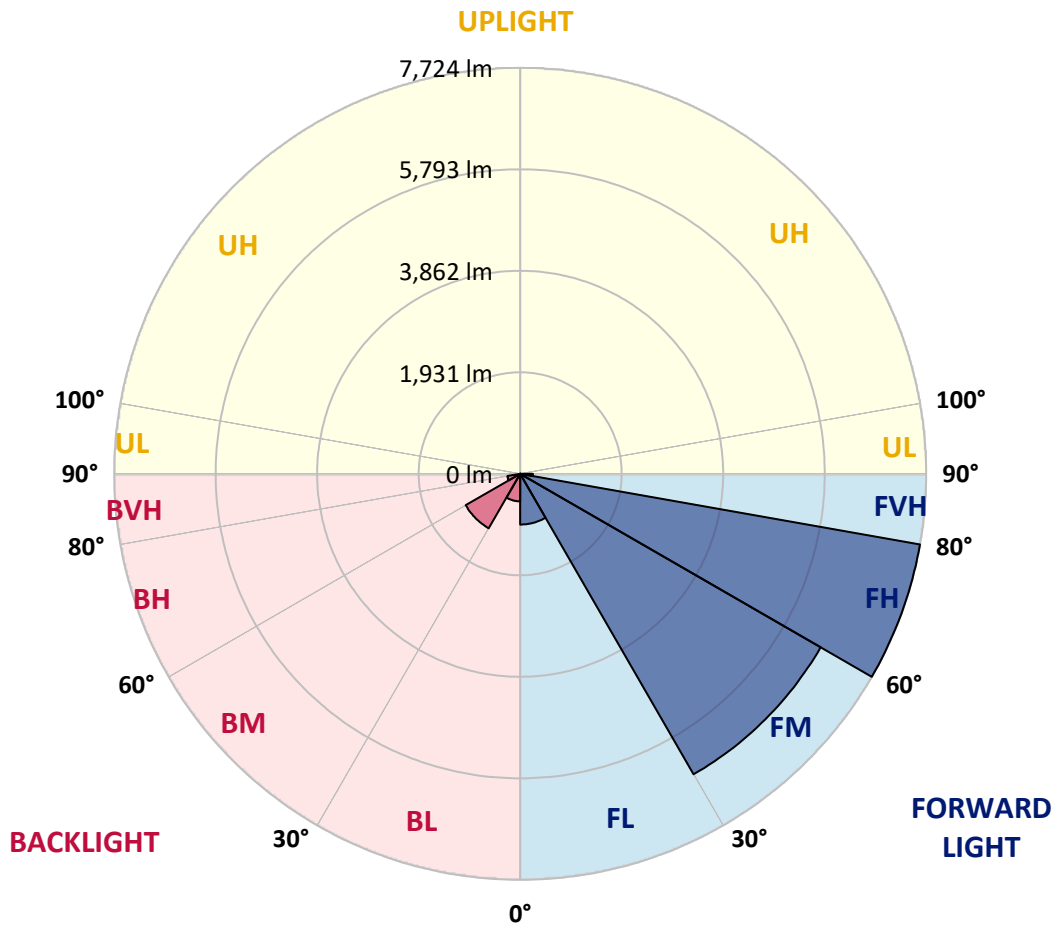
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.9	5.5			
FM (30°-60°)	6600.4	37.7			
FH (60°-80°)	7724.3	44.1			G4/12000
FVH (80°-90°)	243.6	1.4			G3/500
BL (0°-30°)	523.4	3.0	B2/1000		
BM (30°-60°)	1195.9	6.8	B2/2500		
BH (60°-80°)	247.2	1.4	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8
2.5°	2423.9	2444.4	2448.3	2454.7	2454.7	2462.4	2475.2	2493.2	2522.7	2538.1
5°	2234.1	2249.5	2268.7	2284.1	2313.6	2317.5	2367.5	2416.2	2484.2	2535.5
7.5°	2043.0	2061.0	2086.6	2123.8	2162.3	2173.8	2249.5	2331.6	2439.3	2535.5
10°	1908.3	1909.6	1932.7	1969.9	2031.5	2045.6	2137.9	2254.6	2389.3	2520.1
12.5°	1832.7	1841.7	1851.9	1880.1	1939.1	1948.1	2046.9	2184.1	2339.3	2511.1
15°	1832.7	1839.1	1845.5	1859.6	1907.1	1914.8	2002.0	2139.2	2313.6	2515.0
17.5°	1851.9	1862.2	1857.1	1873.7	1923.7	1928.9	2005.8	2126.4	2312.3	2539.3
20°	1898.1	1905.8	1895.5	1905.8	1955.8	1966.1	2045.6	2150.7	2334.1	2581.7
22.5°	1971.2	1975.0	1950.7	1958.4	2009.7	2022.5	2114.8	2220.0	2386.7	2649.6
25°	2063.5	2071.2	2034.0	2043.0	2091.7	2107.1	2213.6	2323.9	2470.1	2743.3
27.5°	2170.0	2173.8	2141.8	2140.5	2203.3	2225.1	2332.9	2452.1	2581.7	2861.2
30°	2291.8	2303.4	2272.6	2267.4	2347.0	2364.9	2471.4	2609.9	2745.8	3038.2
32.5°	2388.0	2397.0	2379.0	2391.8	2472.6	2486.8	2639.4	2833.0	3003.6	3289.6
35°	2526.5	2531.6	2490.6	2513.7	2606.0	2641.9	2868.9	3146.0	3328.1	3605.1
37.5°	3028.0	3028.0	2853.5	2739.4	2827.9	2860.0	3183.1	3539.7	3728.2	4028.3
40°	3721.8	3710.3	3455.0	3221.6	3210.1	3272.9	3630.7	4036.0	4245.1	4536.2
42.5°	4461.8	4443.8	4096.3	3865.4	3827.0	3848.8	4147.6	4647.8	4860.6	5155.6
45°	5118.4	5113.3	4795.2	4484.9	4415.6	4484.9	4792.7	5363.4	5516.0	5826.4
47.5°	5668.6	5668.6	5436.5	5233.9	5197.9	5239.0	5666.1	6157.2	6143.1	6540.7
50°	6302.2	6297.0	6076.5	5989.2	6026.4	6084.1	6671.5	6993.4	6792.1	7242.2
52.5°	6745.9	6776.7	6701.0	6686.9	6876.7	6976.8	7692.4	7811.7	7373.1	7907.9
55°	7097.3	7133.2	7220.4	7319.2	7684.7	7815.5	8681.2	8587.6	7859.1	8485.0
57.5°	7594.9	7543.6	7678.3	7873.2	8464.5	8622.2	9639.2	9319.9	8250.3	8953.1
60°	8199.0	8206.7	8229.8	8476.0	9242.9	9445.6	10583.1	10012.4	8501.6	9240.4
62.5°	8924.9	8936.4	8983.9	9362.2	10288.2	10479.3	11588.6	10579.3	8617.1	9159.6
65°	8874.9	8923.6	9453.3	10747.3	11877.2	12065.7	12762.1	10976.9	8442.7	8420.9
67.5°	8084.8	8164.4	9050.6	12401.7	14272.9	14483.2	14180.5	11055.1	7689.8	6548.4
70°	7048.6	7076.8	8142.5	13889.4	17046.9	17259.8	15450.2	10194.5	5835.3	3652.5
72.5°	5504.5	5510.9	6761.3	14234.4	18552.5	18564.1	14453.7	7568.0	3138.3	1403.0
75°	3932.1	3893.6	4528.5	11543.7	16322.3	16453.1	10835.8	3549.9	1199.1	663.0
77.5°	2108.4	2150.7	2562.4	6845.9	11275.7	11498.8	5912.3	1023.4	610.5	451.4
80°	651.5	687.4	1050.4	3134.4	6386.8	6521.5	2191.8	455.3	425.8	321.9
82.5°	205.2	212.9	489.9	1317.1	2650.9	2712.5	634.8	257.8	291.1	212.9
85°	59.0	60.3	218.0	491.2	655.4	668.2	178.3	100.0	166.7	132.1
87.5°	6.4	20.5	82.1	82.1	57.7	56.4	19.2	21.8	47.5	16.7
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°
2536.8	0°	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8
2548.3	2.5°	2541.9	2543.2	2526.5	2498.3	2467.5	2441.9	2409.8	2384.2	2366.2	2361.1
2571.4	5°	2559.9	2550.9	2503.4	2417.5	2314.9	2226.4	2127.7	2049.4	1998.1	1976.3
2595.8	7.5°	2586.8	2561.1	2457.3	2288.0	2091.7	1917.3	1740.3	1603.1	1515.9	1472.3
2618.9	10°	2609.9	2558.6	2380.3	2100.7	1800.6	1536.4	1297.9	1132.4	1040.1	996.5
2645.8	12.5°	2631.7	2557.3	2280.3	1878.9	1472.3	1149.1	927.2	845.2	819.5	810.5
2689.4	15°	2672.7	2561.1	2154.6	1624.9	1145.3	868.2	787.5	786.2	791.3	788.7
2756.1	17.5°	2729.1	2565.0	2012.2	1355.6	883.6	765.6	761.8	773.3	781.0	777.2
2839.4	20°	2802.2	2580.4	1860.9	1088.8	759.2	740.0	749.0	759.2	765.6	759.2
2951.0	22.5°	2904.8	2607.3	1695.5	874.7	719.5	724.6	732.3	743.8	750.3	741.3
3093.4	25°	3030.5	2649.6	1532.6	760.5	700.2	706.7	718.2	731.0	738.7	729.7
3272.9	27.5°	3193.4	2717.6	1382.5	734.9	681.0	684.9	701.5	720.8	731.0	719.5
3528.1	30°	3429.4	2829.2	1253.0	746.4	669.5	660.5	683.6	710.5	722.0	711.8
3875.7	32.5°	3742.3	2986.9	1173.5	764.4	664.3	632.3	654.1	688.7	707.9	701.5
4329.7	35°	4152.7	3226.8	1142.7	784.9	660.5	602.8	618.2	655.4	688.7	695.1
4901.7	37.5°	4650.3	3560.2	1151.7	793.9	648.9	578.4	586.1	618.2	661.8	682.3
5545.5	40°	5215.9	3948.8	1203.0	784.9	636.1	557.9	559.2	583.5	622.0	652.8
6238.0	42.5°	5799.4	4402.8	1297.9	751.5	624.6	539.9	536.1	552.8	578.4	600.2
6929.3	45°	6354.8	4869.6	1391.5	705.4	610.5	522.0	513.0	519.4	524.5	533.5
7602.6	47.5°	6839.5	5197.9	1364.6	663.0	591.2	501.5	486.1	483.5	468.1	466.8
8204.1	50°	7174.3	5269.8	1212.0	620.7	563.0	478.4	454.0	438.6	411.7	398.9
8654.3	52.5°	7280.7	4986.3	990.1	578.4	516.8	447.6	413.0	388.6	355.3	343.7
8913.3	55°	7139.6	4431.0	791.3	527.1	452.7	406.6	368.1	336.0	309.1	295.0
8941.5	57.5°	6794.6	3724.4	625.9	466.8	384.7	360.4	321.9	289.8	266.8	252.7
8628.6	60°	6222.7	2957.4	495.0	395.0	328.3	310.4	270.6	250.1	229.6	212.9
7820.6	62.5°	5354.4	2111.0	388.6	312.9	274.5	253.9	230.8	215.5	191.1	168.0
6367.6	65°	4178.4	1291.5	300.1	229.6	220.6	210.3	196.2	182.1	152.6	129.5
4154.0	67.5°	2635.5	611.7	214.2	173.1	174.4	169.3	162.9	151.3	129.5	109.0
1860.9	70°	1160.7	296.3	141.1	132.1	129.5	129.5	134.7	130.8	110.3	91.1
646.4	72.5°	395.0	159.0	105.2	100.0	93.6	92.3	112.9	109.0	88.5	70.5
321.9	75°	206.5	106.4	76.9	71.8	56.4	68.0	89.8	84.6	62.8	46.2
212.9	77.5°	134.7	75.7	52.6	46.2	32.1	44.9	66.7	59.0	37.2	23.1
139.8	80°	84.6	50.0	30.8	21.8	15.4	24.4	35.9	25.6	14.1	5.1
82.1	82.5°	44.9	25.6	11.5	7.7	6.4	7.7	9.0	6.4	2.6	0.0
42.3	85°	18.0	9.0	3.8	2.6	1.3	0.0	2.6	1.3	0.0	0.0
7.7	87.5°	6.4	1.3	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

180°
2536.8
2370.0
1984.0
1478.7
997.8
808.0
787.5
775.9
758.0
740.0
728.5
719.5
710.5
701.5
695.1
687.4
663.0
609.2
538.6
465.5
400.1
342.4
295.0
250.1
209.0
164.2
125.7
106.4
87.2
66.7
42.3
20.5
3.8
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