

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: P950184

Luminaire Tested: **GALN-SB4C-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20839 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

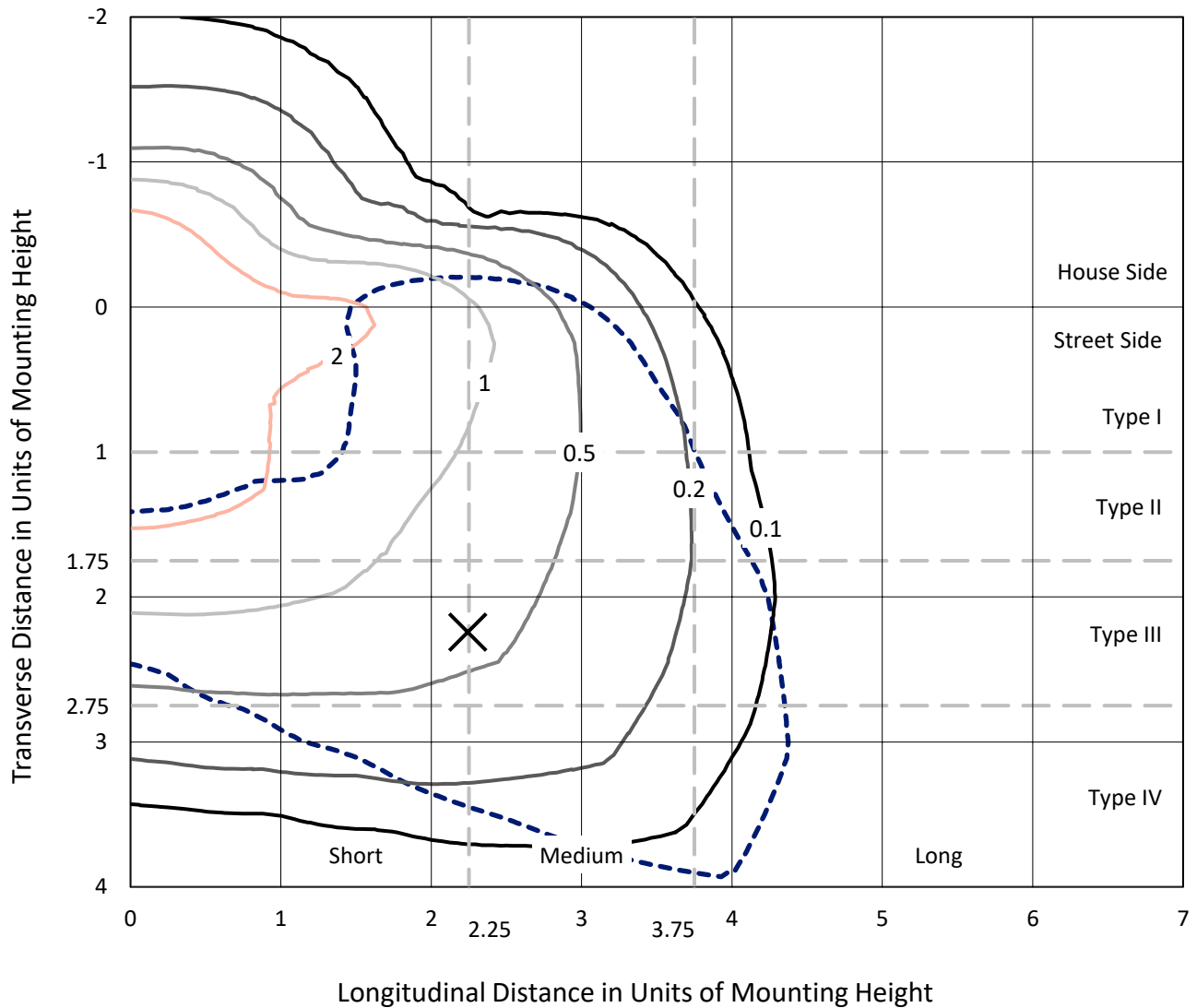
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

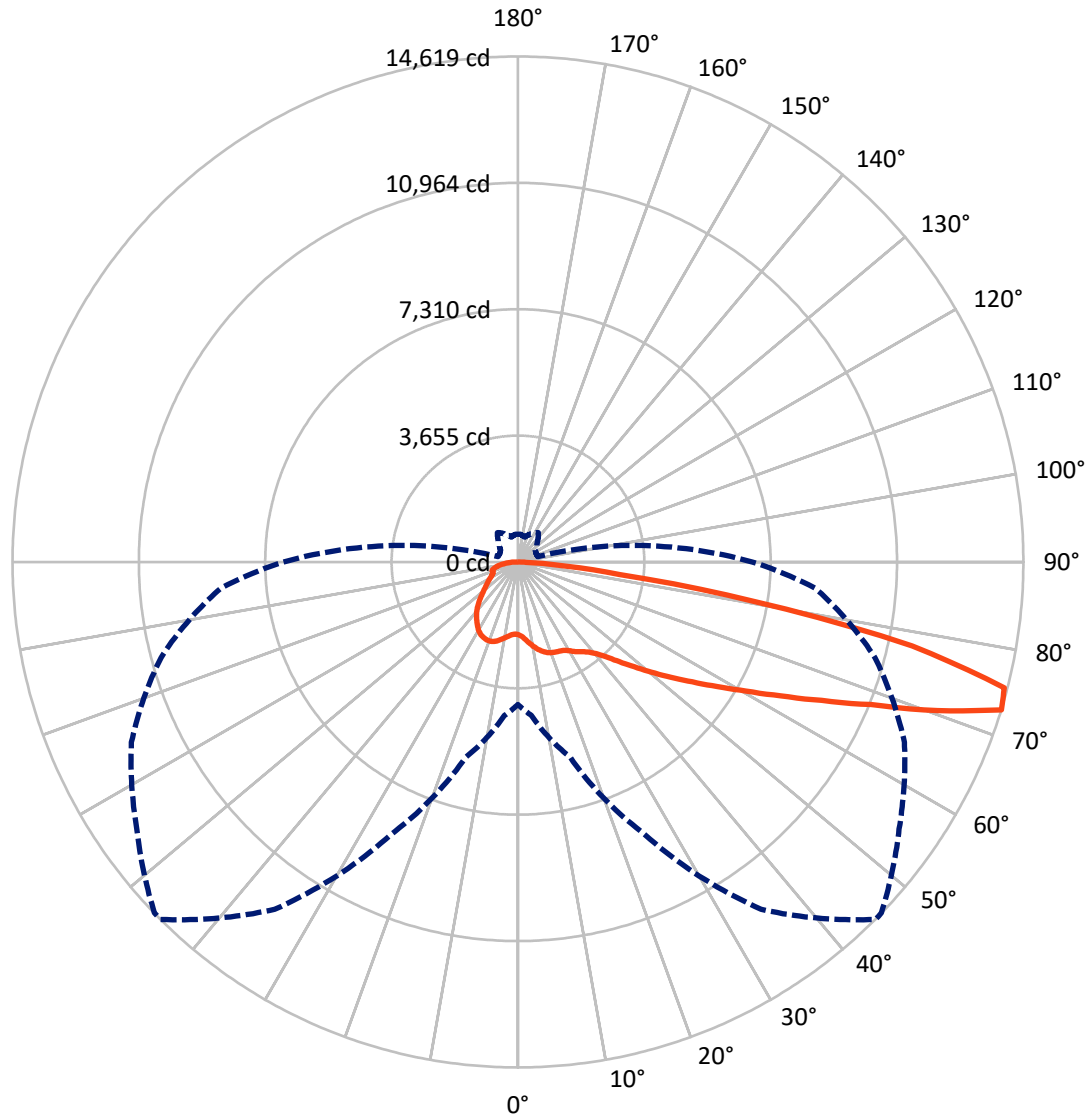
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4711.0	0.0	4711.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16128.0	0.0	16128.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	20839.0	0.0	20839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	1.0
10°-20°	713.4	3.4
20°-30°	1241.0	6.0
30°-40°	1779.0	8.5
40°-50°	2505.0	12.0
50°-60°	3836.9	18.4
60°-70°	5558.3	26.7
70°-80°	4438.6	21.3
80°-90°	552.8	2.7
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°	20839.0	100.0
0°-180°	20839.0	100.0

Coefficient of Utilization



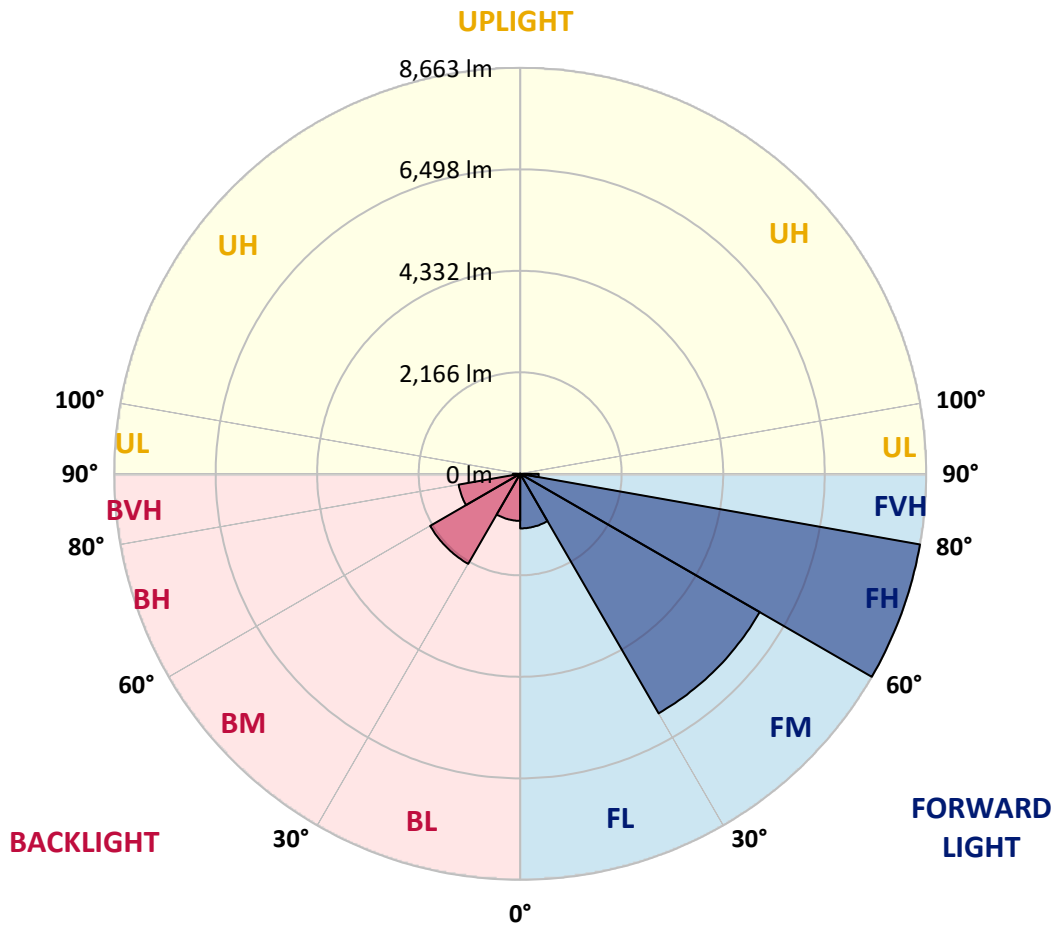
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1165.3	5.6			
FM (30°-60°)	5902.7	28.3			
FH (60°-80°)	8663.4	41.6			G4/12000
FVH (80°-90°)	396.6	1.9			G3/500
BL (0°-30°)	1003.0	4.8	B3/2500		
BM (30°-60°)	2218.2	10.6	B2/2500		
BH (60°-80°)	1333.6	6.4	B3/2500		G3/2500
BVH (80°-90°)	156.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2
2.5°	2184.6	2198.9	2185.7	2173.6	2168.1	2153.8	2152.7	2144.0	2138.5	2123.1
5°	2337.2	2355.8	2333.9	2309.7	2287.8	2252.6	2248.3	2223.0	2194.5	2161.5
7.5°	2509.5	2526.0	2500.7	2464.5	2426.1	2367.9	2366.8	2320.7	2275.7	2219.7
10°	2659.9	2681.9	2647.8	2598.4	2550.1	2484.3	2476.6	2423.9	2366.8	2294.4
12.5°	2792.8	2808.1	2775.2	2714.8	2658.8	2593.0	2583.1	2524.9	2461.2	2378.9
15°	2898.1	2917.9	2874.0	2809.2	2749.9	2685.2	2676.4	2623.7	2560.0	2473.3
17.5°	2967.3	2983.8	2938.8	2866.3	2809.2	2755.4	2748.8	2704.9	2648.9	2561.1
20°	2993.6	3011.2	2964.0	2890.5	2837.8	2796.0	2792.8	2760.9	2722.5	2642.4
22.5°	3020.0	3036.5	2975.0	2898.1	2852.0	2825.7	2824.6	2803.7	2788.4	2722.5
25°	3126.5	3130.9	3048.5	2937.7	2871.8	2848.7	2847.6	2846.5	2853.1	2801.5
27.5°	3218.7	3217.6	3147.3	3043.0	2941.0	2892.7	2891.6	2902.5	2923.4	2880.6
30°	3353.7	3341.6	3258.2	3149.5	3056.2	2981.6	2975.0	2965.1	2981.6	2947.5
32.5°	3640.2	3601.8	3466.8	3273.6	3151.7	3094.6	3085.9	3024.4	3031.0	3010.1
35°	4050.8	4000.3	3820.3	3508.5	3270.3	3189.1	3184.7	3106.7	3093.5	3074.9
37.5°	4539.3	4476.7	4267.1	3848.8	3474.5	3298.8	3292.2	3222.0	3168.2	3148.4
40°	5030.0	4951.0	4777.5	4263.8	3775.3	3482.2	3461.3	3354.8	3293.3	3260.4
42.5°	5506.5	5440.6	5292.4	4729.2	4146.3	3750.0	3703.9	3521.7	3475.6	3444.8
45°	5928.0	5868.7	5760.1	5226.5	4581.0	4114.5	4069.5	3772.0	3757.7	3757.7
47.5°	6270.5	6257.3	6142.1	5733.7	5093.7	4529.4	4451.5	4120.0	4158.4	4217.7
50°	6650.4	6614.1	6491.2	6233.2	5696.4	5004.8	4941.1	4547.0	4690.8	4853.3
52.5°	6999.4	7019.2	6882.0	6753.5	6377.0	5535.0	5423.0	5050.9	5361.6	5630.5
55°	7358.4	7359.5	7321.1	7303.5	7090.6	6121.2	5998.3	5656.9	6150.9	6484.6
57.5°	7695.4	7697.6	7754.7	7909.5	7918.3	6797.5	6658.0	6401.2	7028.0	7368.3
60°	7996.2	8011.6	8167.5	8529.8	8646.1	7572.5	7440.8	7280.5	7934.8	8277.3
62.5°	8097.2	8153.2	8500.1	9015.0	9365.2	8523.2	8393.6	8298.1	8887.6	9206.0
65°	7926.0	8054.4	8725.2	9415.7	10105.1	9652.8	9524.3	9420.1	9877.8	10177.5
67.5°	7505.5	7671.3	8712.0	9836.1	11003.1	11011.8	10892.2	10647.4	10939.4	11054.6
70°	6397.9	6646.0	7944.6	9993.1	12033.9	12870.4	12755.1	12125.0	11998.7	11441.1
72.5°	4122.2	4455.9	5850.1	8701.0	12263.3	14619.1	14612.6	13458.8	12333.6	10690.2
75°	1504.0	1708.1	2718.1	5461.5	10293.9	14530.2	14573.0	13230.4	11258.8	8257.5
77.5°	547.8	599.4	887.0	2099.0	6330.9	11658.4	11747.3	10577.1	8013.8	4144.1
80°	287.6	316.2	454.5	814.6	2712.6	6923.7	7063.1	6285.9	3766.5	1248.2
82.5°	159.2	172.4	254.7	442.4	1221.8	2960.7	3044.1	2483.2	1325.0	529.1
85°	85.6	91.1	119.7	241.5	597.2	1026.4	1049.5	742.1	528.0	310.7
87.5°	25.2	30.7	39.5	76.8	233.8	230.5	236.0	147.1	208.6	157.0
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°
2102.2	0°	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2	2102.2
2118.7	2.5°	2112.1	2108.8	2096.8	2091.3	2084.7	2083.6	2089.1	2090.2	2091.3	2092.4
2142.9	5°	2131.9	2120.9	2109.9	2103.3	2105.5	2106.6	2117.6	2125.3	2130.8	2135.2
2187.9	7.5°	2170.3	2161.5	2142.9	2141.8	2145.1	2154.9	2169.2	2186.8	2196.7	2204.3
2246.1	10°	2227.4	2210.9	2189.0	2192.3	2198.9	2213.1	2242.8	2257.0	2273.5	2287.8
2317.4	12.5°	2285.6	2271.3	2246.1	2248.3	2259.2	2284.5	2313.0	2330.6	2341.6	2352.5
2394.3	15°	2361.3	2336.1	2308.6	2308.6	2328.4	2355.8	2369.0	2383.3	2389.9	2401.9
2476.6	17.5°	2439.3	2406.3	2370.1	2367.9	2392.1	2405.2	2412.9	2415.1	2417.3	2430.5
2556.7	20°	2517.2	2481.0	2429.4	2425.0	2430.5	2428.3	2427.2	2425.0	2428.3	2444.8
2639.1	22.5°	2594.1	2552.3	2481.0	2461.2	2445.9	2425.0	2423.9	2422.8	2425.0	2441.5
2728.0	25°	2684.1	2633.6	2538.1	2478.8	2427.2	2398.7	2401.9	2403.0	2405.2	2418.4
2820.2	27.5°	2781.8	2725.8	2590.8	2473.3	2380.0	2360.2	2354.7	2358.0	2365.7	2386.6
2912.4	30°	2879.5	2813.6	2639.1	2451.3	2320.7	2293.3	2275.7	2283.4	2307.5	2328.4
2992.5	32.5°	2968.4	2902.5	2677.5	2403.0	2245.0	2202.1	2179.1	2189.0	2213.1	2220.8
3081.5	35°	3072.7	2998.0	2694.0	2326.2	2162.6	2096.8	2066.0	2051.8	2063.8	2056.1
3185.8	37.5°	3189.1	3111.1	2691.8	2225.2	2066.0	1990.3	1947.5	1893.7	1868.4	1842.1
3339.4	40°	3361.4	3249.4	2665.4	2103.3	1946.4	1877.2	1800.4	1709.2	1652.2	1600.6
3587.5	42.5°	3596.3	3441.5	2617.1	1969.4	1811.3	1746.6	1642.3	1535.8	1445.8	1360.1
3964.1	45°	3946.5	3692.9	2556.7	1826.7	1665.3	1601.7	1488.6	1368.9	1266.8	1157.1
4498.7	47.5°	4451.5	4031.0	2499.6	1664.2	1511.6	1453.5	1351.4	1240.5	1119.7	1013.3
5271.5	50°	5145.3	4516.3	2447.0	1506.2	1360.1	1316.2	1235.0	1121.9	1000.1	914.5
6177.2	52.5°	6027.9	5176.0	2425.0	1353.6	1218.5	1202.1	1137.3	1031.9	916.6	844.2
7233.3	55°	7041.2	5965.3	2425.0	1207.6	1094.5	1100.0	1055.0	957.3	857.4	792.6
8322.3	57.5°	8075.3	6764.5	2381.1	1072.5	989.1	1012.2	983.6	898.0	808.0	741.0
9467.3	60°	9028.1	7434.2	2203.2	949.6	895.8	932.0	913.4	839.8	730.0	674.0
10424.5	62.5°	9760.4	7811.8	1860.7	851.9	818.9	860.7	850.8	763.0	715.8	692.7
11210.5	65°	10127.0	7750.3	1422.7	765.2	754.2	818.9	798.1	794.8	757.5	731.1
11466.3	67.5°	9902.0	7221.2	1031.9	701.5	716.9	780.5	860.7	873.8	804.7	753.1
10746.2	70°	8915.1	6263.9	768.4	641.1	669.6	781.6	981.4	914.5	789.3	728.9
8618.7	72.5°	6782.1	4671.1	596.1	577.4	608.2	787.1	1035.2	895.8	745.4	805.8
5369.2	75°	3878.5	2564.4	478.6	499.5	531.3	735.5	1007.8	847.5	711.4	739.9
2127.5	77.5°	1478.7	985.8	395.2	422.6	427.0	642.2	963.9	844.2	677.3	660.9
637.8	80°	512.7	385.3	327.1	335.9	330.4	570.8	924.3	734.4	554.4	496.2
263.5	82.5°	209.7	192.1	259.1	248.1	234.9	443.5	746.5	600.5	453.4	400.7
127.3	85°	91.1	121.9	171.3	150.4	136.1	307.4	598.3	508.3	383.1	330.4
41.7	87.5°	18.7	46.1	72.5	68.1	70.3	205.3	424.8	361.2	271.2	203.1
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>
2102.2
2096.8
2137.4
2206.5
2284.5
2356.9
2406.3
2434.9
2451.3
2452.4
2436.0
2407.4
2351.4
2248.3
2080.3
1858.5
1603.9
1352.5
1143.9
1001.2
909.0
838.7
786.0
730.0
665.3
685.0
722.3
744.3
719.0
799.2
739.9
602.7
479.7
396.3
329.3
159.2
0.0

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