

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: P950751

Luminaire Tested: **GALN-SB5A-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950751
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-SB5A-835-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20977 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

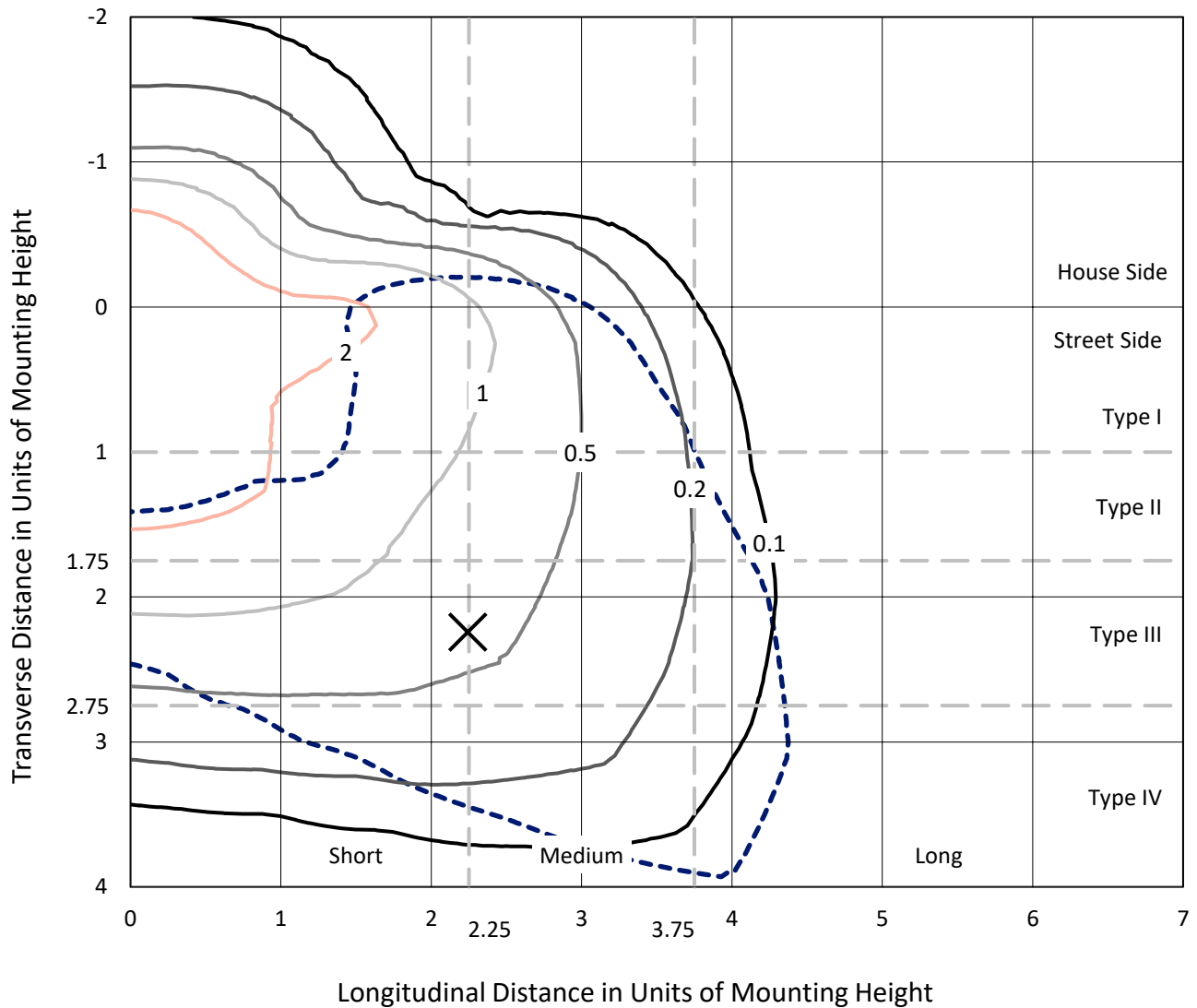
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

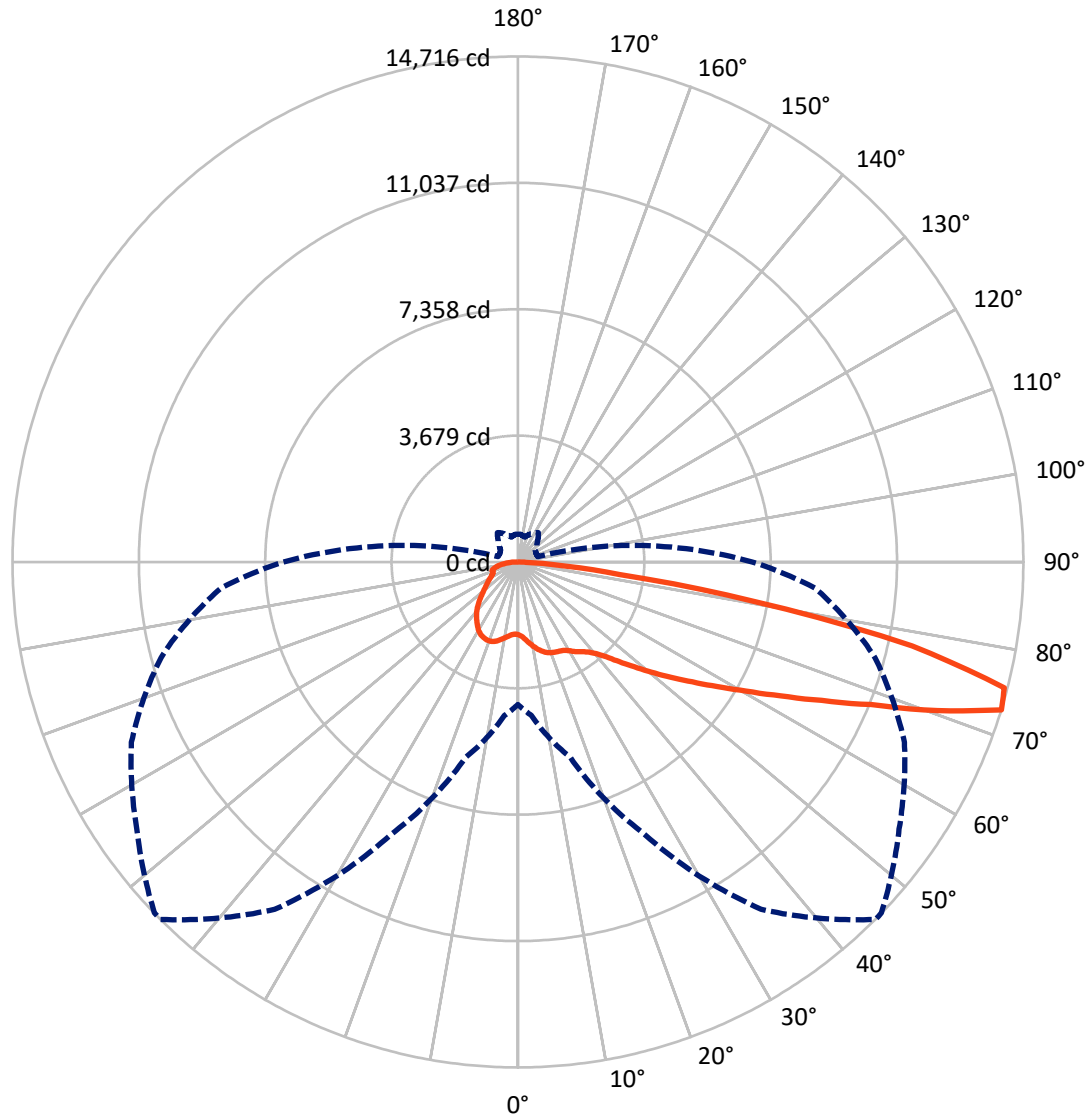
× Max cd
 - - - 1/2 Max cd



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	4742.2	0.0	4742.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16234.8	0.0	16234.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	20977.0	0.0	20977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	1.0
10°-20°	718.1	3.4
20°-30°	1249.2	6.0
30°-40°	1790.8	8.5
40°-50°	2521.6	12.0
50°-60°	3862.3	18.4
60°-70°	5595.1	26.7
70°-80°	4468.0	21.3
80°-90°	556.5	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°	20977.0	100.0
0°-180°	20977.0	100.0



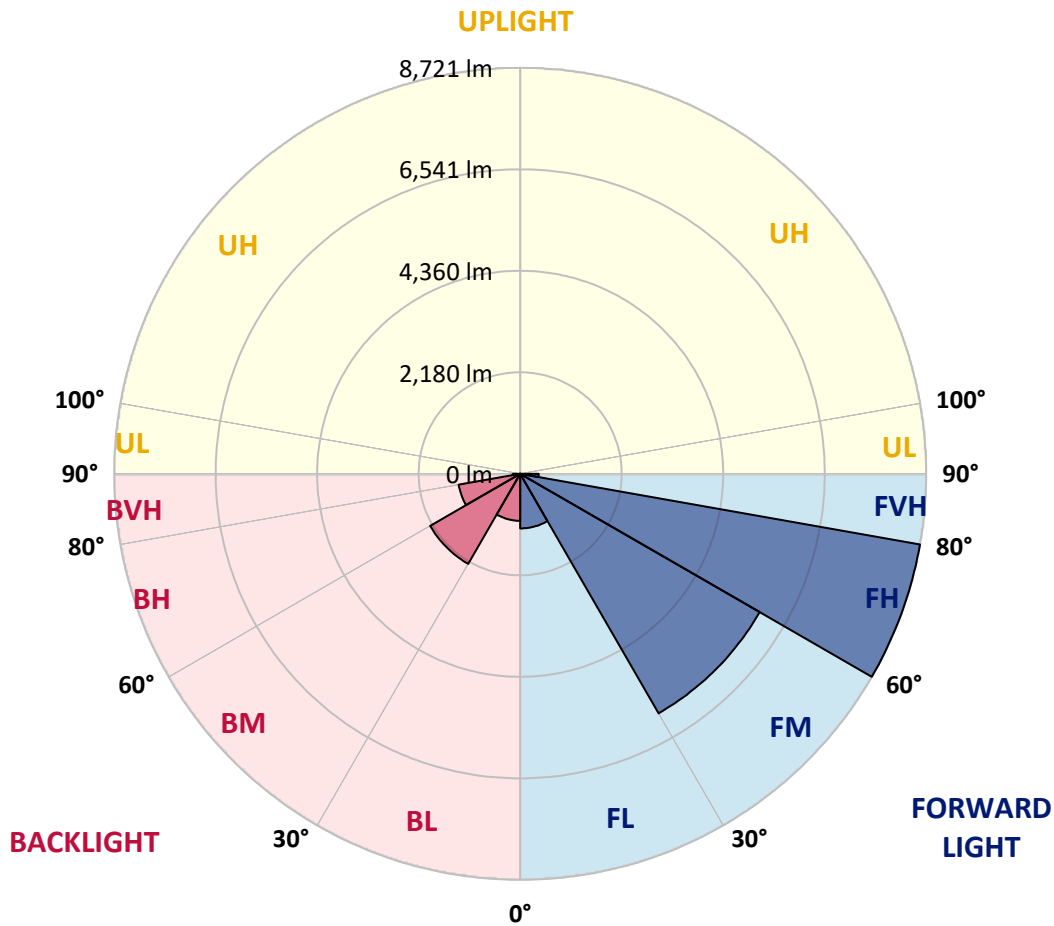
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.1	5.6			
FM (30°-60°)	5941.8	28.3			
FH (60°-80°)	8720.8	41.6			G4/12000
FVH (80°-90°)	399.2	1.9			G3/500
BL (0°-30°)	1009.6	4.8	B3/2500		
BM (30°-60°)	2232.9	10.6	B2/2500		
BH (60°-80°)	1342.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	157.3	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°	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2
2.5°	2199.0	2213.4	2200.2	2188.0	2182.5	2168.1	2167.0	2158.2	2152.6	2137.2
5°	2352.7	2371.4	2349.3	2325.0	2302.9	2267.6	2263.1	2237.7	2209.0	2175.8
7.5°	2526.1	2542.7	2517.3	2480.8	2442.2	2383.6	2382.5	2336.1	2290.8	2234.4
10°	2677.5	2699.6	2665.4	2615.7	2567.0	2500.7	2493.0	2440.0	2382.5	2309.6
12.5°	2811.2	2826.7	2793.6	2732.8	2676.4	2610.1	2600.2	2541.6	2477.5	2394.6
15°	2917.3	2937.2	2893.0	2827.8	2768.2	2703.0	2694.1	2641.1	2577.0	2489.7
17.5°	2987.0	3003.5	2958.2	2885.3	2827.8	2773.7	2767.0	2722.8	2666.5	2578.1
20°	3013.5	3031.2	2983.6	2909.6	2856.6	2814.6	2811.2	2779.2	2740.5	2659.9
22.5°	3040.0	3056.6	2994.7	2917.3	2870.9	2844.4	2843.3	2822.3	2806.8	2740.5
25°	3147.2	3151.6	3068.7	2957.1	2890.8	2867.6	2866.5	2865.4	2872.0	2820.1
27.5°	3240.0	3238.9	3168.2	3063.2	2960.4	2911.8	2910.7	2921.8	2942.7	2899.7
30°	3375.9	3363.8	3279.8	3170.4	3076.5	3001.3	2994.7	2984.7	3001.3	2967.1
32.5°	3664.3	3625.7	3489.7	3295.3	3172.6	3115.1	3106.3	3044.4	3051.0	3030.0
35°	4077.6	4026.8	3845.6	3531.7	3291.9	3210.2	3205.8	3127.3	3114.0	3095.2
37.5°	4569.4	4506.4	4295.3	3874.3	3497.5	3320.7	3314.0	3243.3	3189.2	3169.3
40°	5063.3	4983.8	4809.2	4292.0	3800.3	3505.2	3484.2	3377.0	3315.2	3282.0
42.5°	5542.9	5476.6	5327.4	4760.6	4173.8	3774.9	3728.4	3545.0	3498.6	3467.6
45°	5967.3	5907.6	5798.2	5261.1	4611.4	4141.7	4096.4	3797.0	3782.6	3782.6
47.5°	6312.0	6298.8	6182.8	5771.7	5127.4	4559.4	4481.0	4147.3	4185.9	4245.6
50°	6694.4	6657.9	6534.2	6274.5	5734.1	5037.9	4973.8	4577.1	4721.9	4885.4
52.5°	7045.8	7065.7	6927.6	6798.3	6419.2	5571.7	5458.9	5084.3	5397.1	5667.8
55°	7407.2	7408.3	7369.6	7351.9	7137.5	6161.8	6038.0	5694.3	6191.6	6527.5
57.5°	7746.4	7748.6	7806.1	7961.9	7970.7	6842.5	6702.1	6443.5	7074.5	7417.1
60°	8049.2	8064.7	8221.6	8586.2	8703.4	7622.6	7490.0	7328.7	7987.3	8332.1
62.5°	8150.8	8207.2	8556.4	9074.7	9427.2	8579.6	8449.2	8353.1	8946.5	9267.0
65°	7978.5	8107.8	8782.9	9478.0	10172.0	9716.7	9587.4	9482.4	9943.2	10244.9
67.5°	7555.2	7722.1	8769.7	9901.2	11075.9	11084.8	10964.3	10717.9	11011.8	11127.9
70°	6440.2	6690.0	7997.2	10059.3	12113.6	12955.6	12839.6	12205.3	12078.2	11516.8
72.5°	4149.5	4485.4	5888.8	8758.6	12344.5	14716.0	14709.3	13547.9	12415.2	10761.0
75°	1513.9	1719.5	2736.1	5497.6	10362.1	14626.4	14669.5	13318.1	11333.4	8312.2
77.5°	551.4	603.4	892.9	2112.9	6372.8	11735.6	11825.1	10647.2	8066.9	4171.6
80°	289.5	318.3	457.5	819.9	2730.6	6969.6	7109.9	6327.5	3791.4	1256.4
82.5°	160.2	173.5	256.4	445.3	1229.9	2980.3	3064.3	2499.6	1333.8	532.6
85°	86.2	91.7	120.5	243.1	601.1	1033.2	1056.4	747.0	531.5	312.7
87.5°	25.4	30.9	39.8	77.4	235.4	232.1	237.6	148.1	210.0	158.0
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°
2116.2	0°	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2
2132.7	2.5°	2126.1	2122.8	2110.6	2105.1	2098.5	2097.4	2102.9	2104.0	2105.1	2106.2
2157.1	5°	2146.0	2135.0	2123.9	2117.3	2119.5	2120.6	2131.6	2139.4	2144.9	2149.3
2202.4	7.5°	2184.7	2175.8	2157.1	2156.0	2159.3	2169.2	2183.6	2201.3	2211.2	2218.9
2260.9	10°	2242.1	2225.6	2203.5	2206.8	2213.4	2227.8	2257.6	2272.0	2288.6	2302.9
2332.8	12.5°	2300.7	2286.3	2260.9	2263.1	2274.2	2299.6	2328.3	2346.0	2357.1	2368.1
2410.1	15°	2377.0	2351.5	2323.9	2323.9	2343.8	2371.4	2384.7	2399.1	2405.7	2417.8
2493.0	17.5°	2455.4	2422.3	2385.8	2383.6	2407.9	2421.2	2428.9	2431.1	2433.3	2446.6
2573.7	20°	2533.9	2497.4	2445.5	2441.1	2446.6	2444.4	2443.3	2441.1	2444.4	2460.9
2656.5	22.5°	2611.2	2569.2	2497.4	2477.5	2462.1	2441.1	2440.0	2438.8	2441.1	2457.6
2746.0	25°	2701.8	2651.0	2554.9	2495.2	2443.3	2414.5	2417.8	2419.0	2421.2	2434.4
2838.9	27.5°	2800.2	2743.8	2607.9	2489.7	2395.7	2375.9	2370.3	2373.6	2381.4	2402.4
2931.7	30°	2898.5	2832.2	2656.5	2467.6	2336.1	2308.4	2290.8	2298.5	2322.8	2343.8
3012.4	32.5°	2988.1	2921.8	2695.2	2419.0	2259.8	2216.7	2193.5	2203.5	2227.8	2235.5
3101.9	35°	3093.0	3017.9	2711.8	2341.6	2176.9	2110.6	2079.7	2065.3	2077.5	2069.8
3206.9	37.5°	3210.2	3131.7	2709.6	2239.9	2079.7	2003.5	1960.4	1906.2	1880.8	1854.3
3361.6	40°	3383.7	3270.9	2683.1	2117.3	1959.3	1889.6	1812.3	1720.6	1663.1	1611.2
3611.3	42.5°	3620.1	3464.3	2634.4	1982.5	1823.3	1758.1	1653.2	1546.0	1455.4	1369.2
3990.3	45°	3972.7	3717.4	2573.7	1838.8	1676.4	1612.3	1498.4	1378.0	1275.2	1164.7
4528.5	47.5°	4481.0	4057.7	2516.2	1675.3	1521.7	1463.1	1360.3	1248.7	1127.2	1020.0
5306.5	50°	5179.4	4546.2	2463.2	1516.1	1369.2	1325.0	1243.2	1129.4	1006.7	920.5
6218.1	52.5°	6067.8	5210.3	2441.1	1362.5	1226.6	1210.0	1144.8	1038.7	922.7	849.8
7281.2	55°	7087.8	6004.8	2441.1	1215.6	1101.7	1107.3	1062.0	963.6	863.0	797.8
8377.4	57.5°	8128.7	6809.3	2396.9	1079.6	995.7	1018.9	990.1	903.9	813.3	745.9
9530.0	60°	9087.9	7483.4	2217.8	955.9	901.7	938.2	919.4	845.4	734.9	678.5
10493.6	62.5°	9825.0	7863.5	1873.1	857.5	824.4	866.4	856.4	768.0	720.5	697.3
11284.8	65°	10194.1	7801.7	1432.1	770.2	759.2	824.4	803.4	800.1	762.5	736.0
11542.2	67.5°	9967.6	7269.0	1038.7	706.1	721.6	785.7	866.4	879.6	810.0	758.1
10817.3	70°	8974.1	6305.4	773.5	645.3	674.1	786.8	987.9	920.5	794.5	733.8
8675.7	72.5°	6827.0	4702.0	600.0	581.3	612.2	792.3	1042.1	901.7	750.3	811.1
5404.8	75°	3904.1	2581.4	481.8	502.8	534.8	740.4	1014.4	853.1	716.1	744.8
2141.6	77.5°	1488.5	992.3	397.8	425.4	429.9	646.5	970.2	849.8	681.8	665.2
642.0	80°	516.1	387.9	329.3	338.1	332.6	574.6	930.5	739.3	558.1	499.5
265.2	82.5°	211.1	193.4	260.8	249.7	236.5	446.4	751.4	604.5	456.4	403.3
128.2	85°	91.7	122.7	172.4	151.4	137.0	309.4	602.3	511.6	385.7	332.6
42.0	87.5°	18.8	46.4	72.9	68.5	70.7	206.6	427.7	363.6	272.9	204.4
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°
2116.2
2110.6
2151.5
2221.2
2299.6
2372.5
2422.3
2451.0
2467.6
2468.7
2452.1
2423.4
2367.0
2263.1
2094.1
1870.8
1614.5
1361.4
1151.5
1007.8
915.0
844.3
791.2
734.9
669.7
689.6
727.1
749.2
723.8
804.5
744.8
606.7
482.9
398.9
331.5
160.2
0.0

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