

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: P948651

Luminaire Tested: **GALN-SB3C-850-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948651  
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-SB3C-850-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

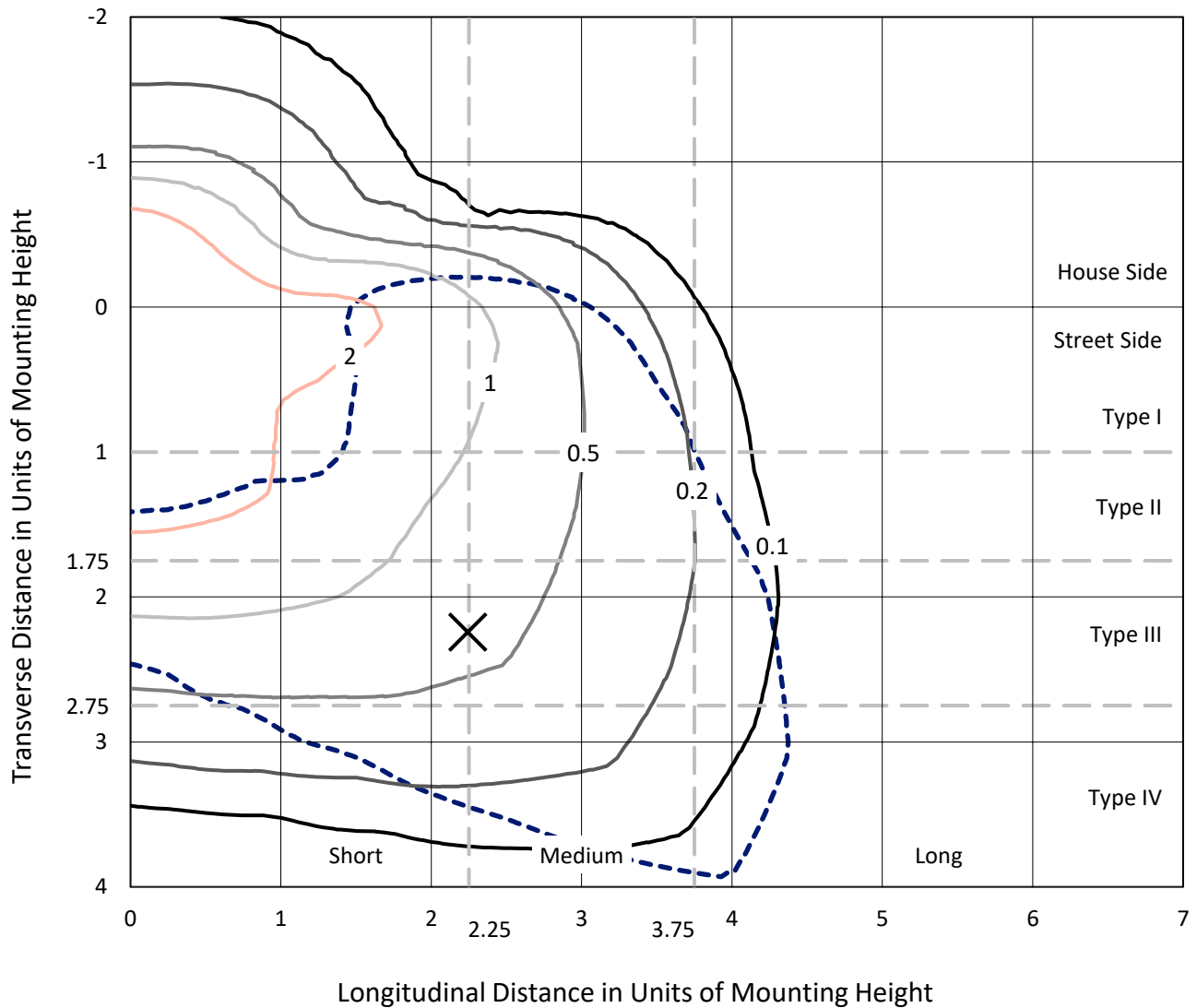
Lumens per Lamp: N/A  
Luminaire Lumens: 21451 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

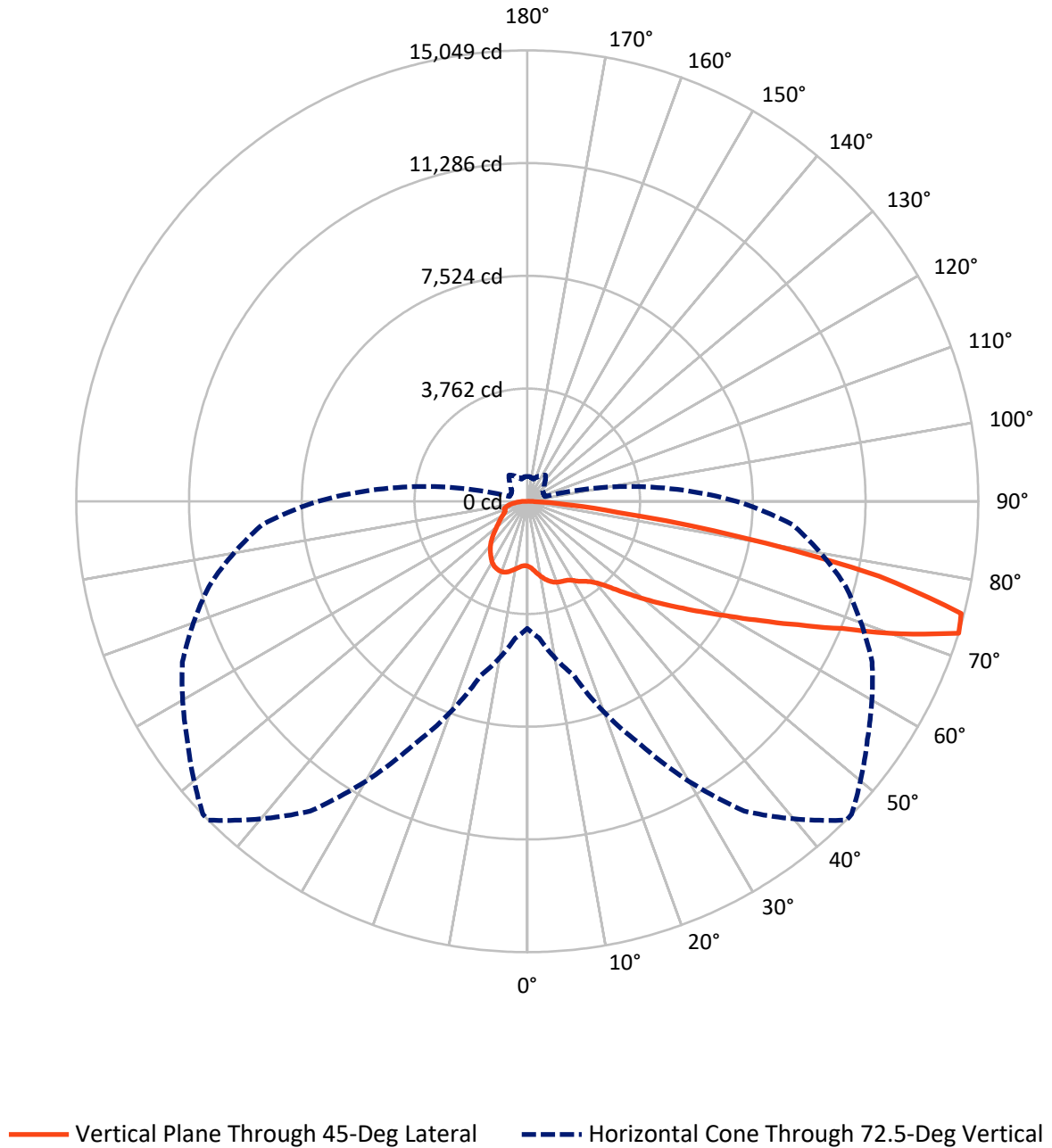
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	4849.3	0.0	4849.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	16601.7	0.0	16601.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	21451.0	0.0	21451.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.3	1.0
10°-20°	734.3	3.4
20°-30°	1277.4	6.0
30°-40°	1831.3	8.5
40°-50°	2578.5	12.0
50°-60°	3949.6	18.4
60°-70°	5721.5	26.7
70°-80°	4569.0	21.3
80°-90°	569.0	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°	21451.0	100.0
0°-180°	21451.0	100.0

**Coefficient of Utilization**



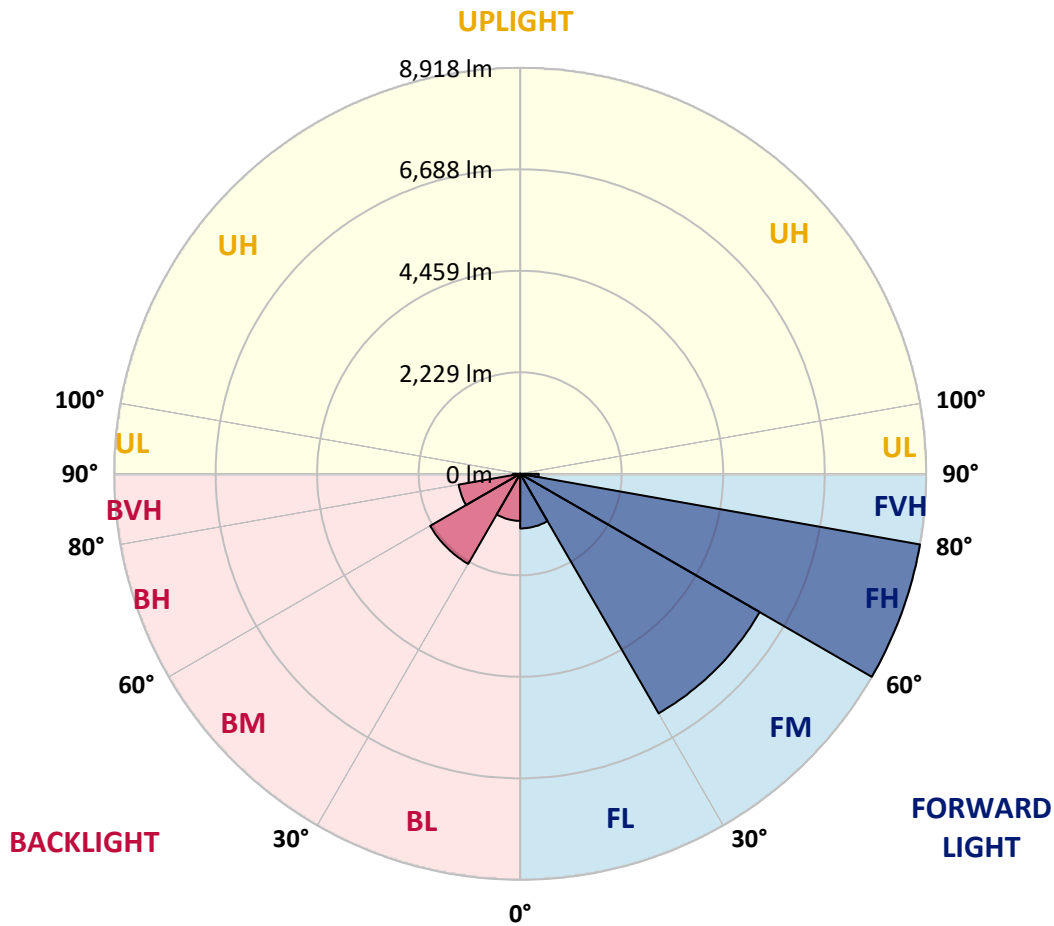
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.6	5.6			
FM (30°-60°)	6076.0	28.3			
FH (60°-80°)	8917.8	41.6			G4/12000
FVH (80°-90°)	408.2	1.9			G3/500
BL (0°-30°)	1032.5	4.8	B3/2500		
BM (30°-60°)	2283.3	10.6	B2/2500		
BH (60°-80°)	1372.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	160.8	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°	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0
2.5°	2248.7	2263.4	2249.9	2237.4	2231.8	2217.1	2216.0	2206.9	2201.3	2185.5
5°	2405.8	2425.0	2402.4	2377.6	2355.0	2318.8	2314.3	2288.3	2258.9	2225.0
7.5°	2583.2	2600.2	2574.2	2536.9	2497.3	2437.5	2436.3	2388.9	2342.5	2284.9
10°	2738.0	2760.6	2725.6	2674.8	2625.0	2557.2	2549.3	2495.1	2436.3	2361.7
12.5°	2874.8	2890.6	2856.7	2794.5	2736.9	2669.1	2658.9	2599.0	2533.5	2448.8
15°	2983.3	3003.6	2958.4	2891.7	2830.7	2764.0	2755.0	2700.7	2635.2	2545.9
17.5°	3054.4	3071.4	3025.1	2950.5	2891.7	2836.4	2829.6	2784.4	2726.7	2636.3
20°	3081.6	3099.6	3051.1	2975.3	2921.1	2878.2	2874.8	2842.0	2802.4	2720.0
22.5°	3108.7	3125.6	3062.4	2983.3	2935.8	2908.7	2907.5	2886.1	2870.3	2802.4
25°	3218.3	3222.8	3138.1	3023.9	2956.1	2932.4	2931.3	2930.1	2936.9	2883.8
27.5°	3313.2	3312.1	3239.8	3132.4	3027.3	2977.6	2976.5	2987.8	3009.2	2965.2
30°	3452.2	3439.8	3353.9	3242.0	3146.0	3069.1	3062.4	3052.2	3069.1	3034.1
32.5°	3747.1	3707.6	3568.6	3369.7	3244.3	3185.5	3176.5	3113.2	3120.0	3098.5
35°	4169.8	4117.8	3932.5	3611.5	3366.3	3282.7	3278.2	3198.0	3184.4	3165.2
37.5°	4672.6	4608.2	4392.4	3961.9	3576.5	3395.7	3388.9	3316.6	3261.2	3240.9
40°	5177.8	5096.4	4917.8	4389.0	3886.1	3584.4	3563.0	3453.3	3390.1	3356.2
42.5°	5668.2	5600.4	5447.8	4868.1	4268.1	3860.1	3812.7	3625.1	3577.6	3546.0
45°	6102.1	6041.1	5929.2	5380.0	4715.6	4235.3	4189.0	3882.7	3868.1	3868.1
47.5°	6454.7	6441.1	6322.5	5902.1	5243.3	4662.5	4582.2	4241.0	4280.5	4341.5
50°	6845.7	6808.4	6681.8	6416.3	5863.7	5151.8	5086.2	4680.5	4828.6	4995.8
52.5°	7205.0	7225.3	7084.1	6951.9	6564.3	5697.6	5582.3	5199.2	5519.0	5795.9
55°	7574.5	7575.7	7536.1	7518.0	7298.8	6301.0	6174.4	5823.0	6331.5	6675.0
57.5°	7921.4	7923.7	7982.5	8141.8	8150.8	6997.1	6853.6	6589.1	7234.4	7584.7
60°	8231.1	8246.9	8407.3	8780.3	8900.0	7794.9	7659.3	7494.3	8167.8	8520.4
62.5°	8335.0	8392.7	8749.7	9279.7	9640.2	8773.5	8640.1	8541.8	9148.6	9476.3
65°	8158.7	8291.0	8981.4	9692.2	10401.8	9936.3	9804.1	9696.7	10167.9	10476.4
67.5°	7725.9	7896.6	8967.8	10125.0	11326.2	11335.2	11212.1	10960.1	11260.6	11379.3
70°	6585.8	6841.1	8178.0	10286.6	12387.3	13248.4	13129.7	12481.1	12351.1	11777.1
72.5°	4243.2	4586.8	6021.9	8956.5	12623.5	15048.5	15041.7	13854.0	12695.8	11004.1
75°	1548.1	1758.3	2797.9	5621.8	10596.2	14956.9	15001.0	13619.0	11589.5	8500.0
77.5°	563.9	617.0	913.1	2160.6	6516.8	12000.8	12092.3	10887.7	8249.1	4265.8
80°	296.1	325.4	467.8	838.5	2792.3	7127.0	7270.5	6470.5	3877.1	1284.8
82.5°	163.9	177.4	262.2	455.4	1257.7	3047.7	3133.5	2556.1	1363.9	544.7
85°	88.1	93.8	123.2	248.6	614.7	1056.6	1080.3	763.9	543.5	319.8
87.5°	26.0	31.6	40.7	79.1	240.7	237.3	243.0	151.4	214.7	161.6
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°
2164.0	0°	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0
2180.9	2.5°	2174.2	2170.8	2158.3	2152.7	2145.9	2144.8	2150.4	2151.6	2152.7	2153.8
2205.8	5°	2194.5	2183.2	2171.9	2165.1	2167.4	2168.5	2179.8	2187.7	2193.4	2197.9
2252.1	7.5°	2234.0	2225.0	2205.8	2204.7	2208.1	2218.2	2232.9	2251.0	2261.2	2269.1
2312.0	10°	2292.8	2275.9	2253.3	2256.7	2263.4	2278.1	2308.6	2323.3	2340.3	2355.0
2385.5	12.5°	2352.7	2338.0	2312.0	2314.3	2325.6	2351.6	2381.0	2399.0	2410.3	2421.6
2464.6	15°	2430.7	2404.7	2376.4	2376.4	2396.8	2425.0	2438.6	2453.3	2460.1	2472.5
2549.3	17.5°	2510.9	2477.0	2439.7	2437.5	2462.3	2475.9	2483.8	2486.0	2488.3	2501.9
2631.8	20°	2591.1	2553.8	2500.7	2496.2	2501.9	2499.6	2498.5	2496.2	2499.6	2516.6
2716.6	22.5°	2670.2	2627.3	2553.8	2533.5	2517.7	2496.2	2495.1	2494.0	2496.2	2513.2
2808.1	25°	2762.9	2710.9	2612.6	2551.6	2498.5	2469.1	2472.5	2473.6	2475.9	2489.4
2903.0	27.5°	2863.5	2805.8	2666.8	2545.9	2449.9	2429.5	2423.9	2427.3	2435.2	2456.7
2997.9	30°	2964.0	2896.2	2716.6	2523.3	2388.9	2360.6	2342.5	2350.4	2375.3	2396.8
3080.4	32.5°	3055.6	2987.8	2756.1	2473.6	2310.9	2266.8	2243.1	2253.3	2278.1	2286.0
3172.0	35°	3162.9	3086.1	2773.1	2394.5	2226.1	2158.3	2126.7	2112.0	2124.4	2116.5
3279.3	37.5°	3282.7	3202.5	2770.8	2290.6	2126.7	2048.7	2004.7	1949.3	1923.3	1896.2
3437.5	40°	3460.1	3344.9	2743.7	2165.1	2003.5	1932.3	1853.2	1759.4	1700.7	1647.6
3692.9	42.5°	3701.9	3542.6	2694.0	2027.3	1864.5	1797.9	1690.5	1580.9	1488.2	1400.1
4080.5	45°	4062.4	3801.4	2631.8	1880.4	1714.2	1648.7	1532.3	1409.1	1304.0	1191.0
4630.8	47.5°	4582.2	4149.4	2573.1	1713.1	1556.0	1496.1	1391.1	1276.9	1152.6	1043.0
5426.4	50°	5296.4	4648.9	2518.8	1550.4	1400.1	1354.9	1271.3	1154.9	1029.4	941.3
6358.6	52.5°	6204.9	5328.0	2496.2	1393.3	1254.3	1237.4	1170.7	1062.2	943.6	869.0
7445.7	55°	7247.9	6140.5	2496.2	1243.0	1126.6	1132.3	1085.9	985.4	882.5	815.9
8566.7	57.5°	8312.4	6963.2	2451.0	1104.0	1018.1	1041.9	1012.5	924.4	831.7	762.8
9745.3	60°	9293.3	7652.5	2268.0	977.5	922.1	959.4	940.2	864.5	751.5	693.8
10730.7	62.5°	10047.0	8041.2	1915.4	876.9	843.0	885.9	875.8	785.4	736.8	713.0
11539.8	65°	10424.4	7977.9	1464.5	787.6	776.3	843.0	821.5	818.1	779.7	752.6
11803.1	67.5°	10192.8	7433.3	1062.2	722.1	737.9	803.4	885.9	899.5	828.3	775.2
11061.8	70°	9176.9	6447.9	791.0	659.9	689.3	804.6	1010.2	941.3	812.5	750.3
8871.8	72.5°	6981.3	4808.2	613.6	594.4	626.0	810.2	1065.6	922.1	767.3	829.4
5526.9	75°	3992.4	2639.7	492.7	514.2	546.9	757.1	1037.4	872.4	732.3	761.6
2190.0	77.5°	1522.1	1014.8	406.8	435.1	439.6	661.1	992.2	869.0	697.2	680.3
656.5	80°	527.7	396.6	336.7	345.8	340.1	587.6	951.5	756.0	570.7	510.8
271.2	82.5°	215.8	197.8	266.7	255.4	241.8	456.5	768.4	618.1	466.7	412.5
131.1	85°	93.8	125.4	176.3	154.8	140.1	316.4	615.9	523.2	394.4	340.1
42.9	87.5°	19.2	47.5	74.6	70.1	72.3	211.3	437.3	371.8	279.1	209.1
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>
2164.0
2158.3
2200.1
2271.3
2351.6
2426.2
2477.0
2506.4
2523.3
2524.5
2507.5
2478.1
2420.5
2314.3
2141.4
1913.1
1651.0
1392.2
1177.5
1030.6
935.7
863.3
809.1
751.5
684.8
705.1
743.6
766.2
740.2
822.7
761.6
620.4
493.8
407.9
339.0
163.9
0.0

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