

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: P947433

Luminaire Tested: **GALN-SB2D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947433
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-SB2D-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21488 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

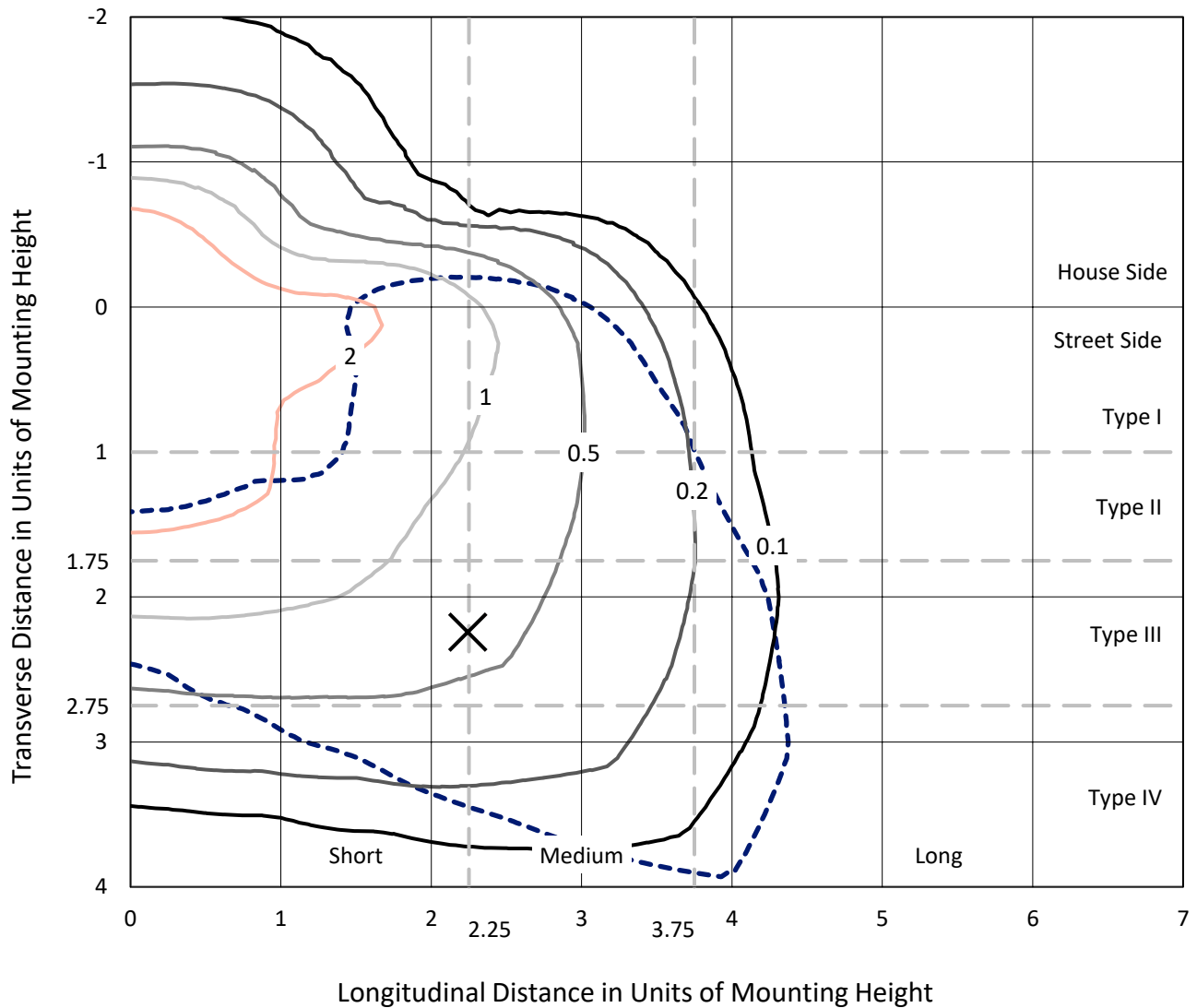
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

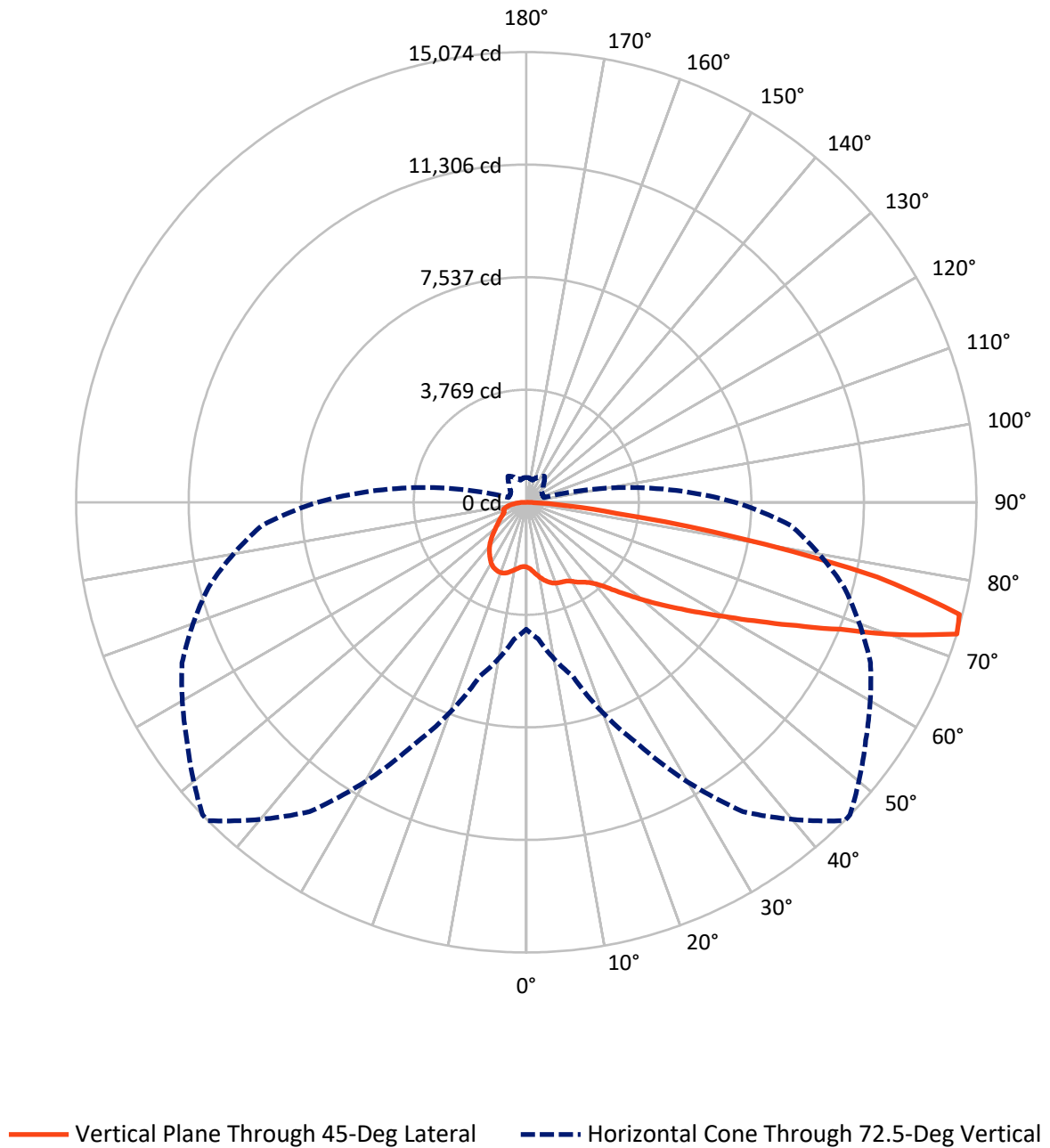
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	4857.7	0.0	4857.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16630.3	0.0	16630.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	21488.0	0.0	21488.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	1.0
10°-20°	735.6	3.4
20°-30°	1279.6	6.0
30°-40°	1834.4	8.5
40°-50°	2583.0	12.0
50°-60°	3956.4	18.4
60°-70°	5731.4	26.7
70°-80°	4576.9	21.3
80°-90°	570.0	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°	21488.0	100.0
0°-180°	21488.0	100.0



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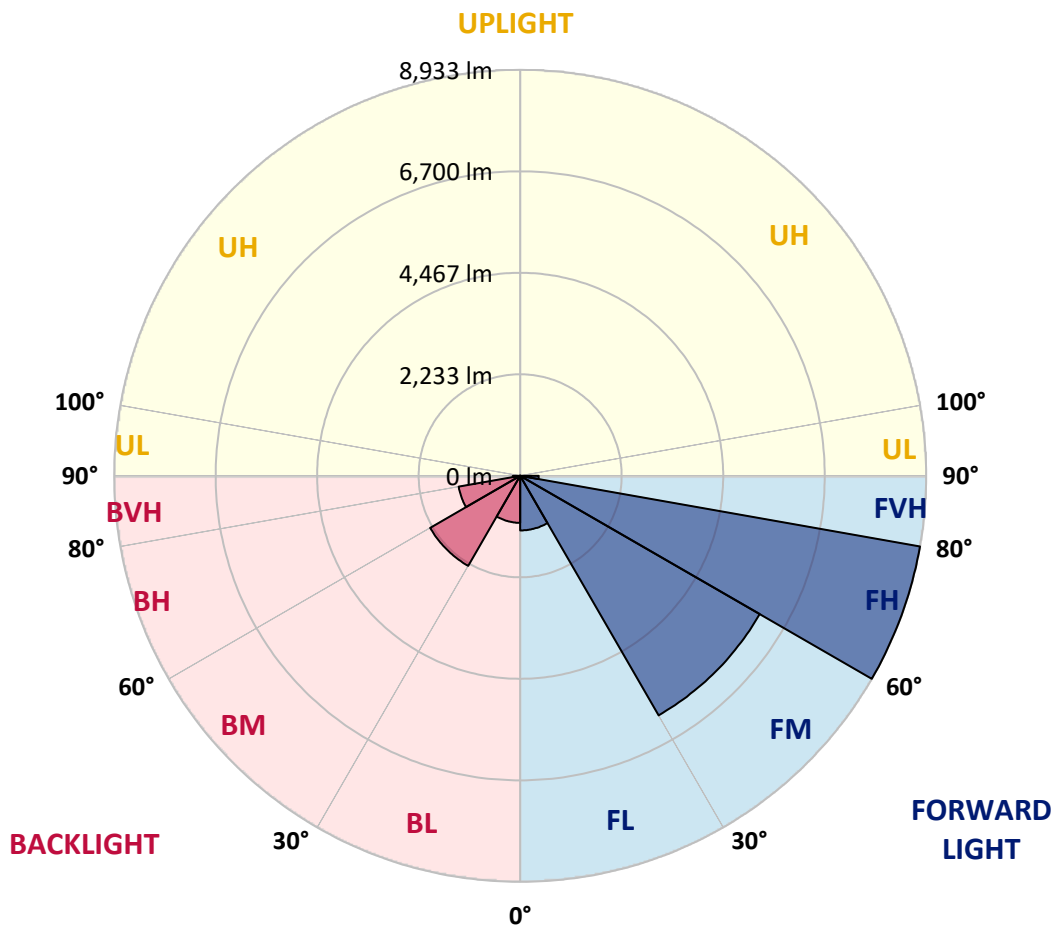
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.6	5.6			
FM (30°-60°)	6086.5	28.3			
FH (60°-80°)	8933.2	41.6			G4/12000
FVH (80°-90°)	408.9	1.9			G3/500
BL (0°-30°)	1034.2	4.8	B3/2500		
BM (30°-60°)	2287.3	10.6	B2/2500		
BH (60°-80°)	1375.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	161.1	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°	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7
2.5°	2252.6	2267.3	2253.8	2241.3	2235.6	2220.9	2219.8	2210.7	2205.1	2189.2
5°	2410.0	2429.2	2406.6	2381.7	2359.0	2322.8	2318.3	2292.2	2262.8	2228.8
7.5°	2587.7	2604.7	2578.6	2541.3	2501.7	2441.7	2440.5	2393.0	2346.6	2288.8
10°	2742.8	2765.4	2730.3	2679.4	2629.6	2561.6	2553.7	2499.4	2440.5	2365.8
12.5°	2879.7	2895.6	2861.6	2799.4	2741.6	2673.7	2663.5	2603.5	2537.9	2453.0
15°	2988.4	3008.8	2963.5	2896.7	2835.6	2768.8	2759.7	2705.4	2639.8	2550.3
17.5°	3059.7	3076.7	3030.3	2955.6	2896.7	2841.2	2834.5	2789.2	2731.4	2640.9
20°	3086.9	3105.0	3056.3	2980.5	2926.1	2883.1	2879.7	2846.9	2807.3	2724.6
22.5°	3114.0	3131.0	3067.6	2988.4	2940.9	2913.7	2912.6	2891.0	2875.2	2807.3
25°	3223.8	3228.4	3143.5	3029.1	2961.2	2937.5	2936.3	2935.2	2942.0	2888.8
27.5°	3318.9	3317.8	3245.4	3137.8	3032.5	2982.7	2981.6	2992.9	3014.4	2970.3
30°	3458.2	3445.7	3359.7	3247.6	3151.4	3074.4	3067.6	3057.4	3074.4	3039.3
32.5°	3753.6	3714.0	3574.8	3375.5	3249.9	3191.0	3182.0	3118.6	3125.4	3103.9
35°	4177.0	4124.9	3939.3	3617.8	3372.1	3288.4	3283.8	3203.5	3189.9	3170.6
37.5°	4680.7	4616.2	4400.0	3968.7	3582.7	3401.6	3394.8	3322.3	3266.9	3246.5
40°	5186.7	5105.2	4926.3	4396.6	3892.8	3590.6	3569.1	3459.3	3395.9	3361.9
42.5°	5678.0	5610.0	5457.2	4876.5	4275.4	3866.8	3819.3	3631.4	3583.8	3552.1
45°	6112.6	6051.5	5939.4	5389.3	4723.7	4242.6	4196.2	3889.4	3874.7	3874.7
47.5°	6465.8	6452.2	6333.4	5912.3	5252.3	4670.5	4590.1	4248.3	4287.9	4349.0
50°	6857.5	6820.1	6693.3	6427.3	5873.8	5160.6	5095.0	4688.6	4836.9	5004.4
52.5°	7217.4	7237.8	7096.3	6963.9	6575.6	5707.4	5591.9	5208.2	5528.5	5805.9
55°	7587.6	7588.7	7549.1	7531.0	7311.4	6311.9	6185.1	5833.0	6342.4	6686.5
57.5°	7935.1	7937.4	7996.2	8155.8	8164.9	7009.2	6865.4	6600.5	7246.9	7597.8
60°	8245.3	8261.1	8421.9	8795.4	8915.4	7808.3	7672.5	7507.2	8181.9	8535.0
62.5°	8349.4	8407.1	8764.8	9295.7	9656.8	8788.6	8655.0	8556.6	9164.4	9492.7
65°	8172.8	8305.3	8996.9	9708.9	10419.8	9953.4	9821.0	9713.4	10185.5	10494.5
67.5°	7739.3	7910.2	8983.3	10142.4	11345.7	11354.8	11231.4	10979.0	11280.1	11398.9
70°	6597.1	6852.9	8192.1	10304.3	12408.6	13271.2	13152.3	12502.6	12372.4	11797.4
72.5°	4250.5	4594.7	6032.3	8972.0	12645.2	15074.4	15067.6	13877.9	12717.7	11023.1
75°	1550.8	1761.3	2802.8	5631.5	10614.5	14982.7	15026.9	13642.5	11609.5	8514.7
77.5°	564.9	618.1	914.6	2164.3	6528.1	12021.5	12113.2	10906.5	8263.4	4273.2
80°	296.6	326.0	468.6	839.9	2797.1	7139.3	7283.1	6481.7	3883.8	1287.0
82.5°	164.1	177.7	262.6	456.2	1259.9	3052.9	3139.0	2560.5	1366.3	545.6
85°	88.3	94.0	123.4	249.0	615.8	1058.4	1082.2	765.2	544.5	320.3
87.5°	26.0	31.7	40.8	79.2	241.1	237.7	243.4	151.7	215.1	161.9
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°
2167.7	0°	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7	2167.7
2184.7	2.5°	2177.9	2174.5	2162.1	2156.4	2149.6	2148.5	2154.1	2155.3	2156.4	2157.5
2209.6	5°	2198.3	2187.0	2175.6	2168.9	2171.1	2172.2	2183.6	2191.5	2197.2	2201.7
2256.0	7.5°	2237.9	2228.8	2209.6	2208.5	2211.9	2222.1	2236.8	2254.9	2265.1	2273.0
2316.0	10°	2296.8	2279.8	2257.1	2260.5	2267.3	2282.0	2312.6	2327.3	2344.3	2359.0
2389.6	12.5°	2356.8	2342.0	2316.0	2318.3	2329.6	2355.6	2385.1	2403.2	2414.5	2425.8
2468.8	15°	2434.9	2408.8	2380.5	2380.5	2400.9	2429.2	2442.8	2457.5	2464.3	2476.7
2553.7	17.5°	2515.2	2481.3	2443.9	2441.7	2466.6	2480.1	2488.1	2490.3	2492.6	2506.2
2636.4	20°	2595.6	2558.3	2505.0	2500.5	2506.2	2503.9	2502.8	2500.5	2503.9	2520.9
2721.3	22.5°	2674.8	2631.8	2558.3	2537.9	2522.0	2500.5	2499.4	2498.3	2500.5	2517.5
2812.9	25°	2767.7	2715.6	2617.1	2556.0	2502.8	2473.4	2476.7	2477.9	2480.1	2493.7
2908.0	27.5°	2868.4	2810.7	2671.4	2550.3	2454.1	2433.7	2428.1	2431.5	2439.4	2460.9
3003.1	30°	2969.2	2901.2	2721.3	2527.7	2393.0	2364.7	2346.6	2354.5	2379.4	2400.9
3085.7	32.5°	3060.8	2992.9	2760.9	2477.9	2314.9	2270.7	2247.0	2257.1	2282.0	2290.0
3177.4	35°	3168.4	3091.4	2777.9	2398.6	2230.0	2162.1	2130.4	2115.7	2128.1	2120.2
3285.0	37.5°	3288.4	3208.0	2775.6	2294.5	2130.4	2052.3	2008.1	1952.6	1926.6	1899.4
3443.5	40°	3466.1	3350.6	2748.4	2168.9	2007.0	1935.7	1856.4	1762.5	1703.6	1650.4
3699.3	42.5°	3708.3	3548.7	2698.6	2030.8	1867.7	1801.0	1693.4	1583.6	1490.8	1402.5
4087.5	45°	4069.4	3807.9	2636.4	1883.6	1717.2	1651.5	1535.0	1411.6	1306.3	1193.1
4638.8	47.5°	4590.1	4156.6	2577.5	1716.1	1558.7	1498.7	1393.5	1279.1	1154.6	1044.8
5435.7	50°	5305.5	4656.9	2523.2	1553.1	1402.5	1357.2	1273.5	1156.9	1031.2	942.9
6369.6	52.5°	6215.6	5337.2	2500.5	1395.7	1256.5	1239.5	1172.7	1064.1	945.2	870.5
7458.5	55°	7260.5	6151.1	2500.5	1245.2	1128.6	1134.2	1087.8	987.1	884.1	817.3
8581.5	57.5°	8326.8	6975.2	2455.2	1105.9	1019.9	1043.7	1014.2	926.0	833.1	764.1
9762.1	60°	9309.3	7665.7	2271.9	979.2	923.7	961.0	941.8	866.0	752.8	695.0
10749.2	62.5°	10064.3	8055.1	1918.7	878.4	844.4	887.5	877.3	786.7	738.0	714.3
11559.7	65°	10442.4	7991.7	1467.0	789.0	777.7	844.4	822.9	819.5	781.1	753.9
11823.4	67.5°	10210.4	7446.1	1064.1	723.3	739.2	804.8	887.5	901.0	829.7	776.5
11080.8	70°	9192.7	6459.0	792.4	661.1	690.5	806.0	1012.0	942.9	813.9	751.6
8887.1	72.5°	6993.3	4816.5	614.7	595.4	627.1	811.6	1067.4	923.7	768.6	830.9
5536.5	75°	3999.2	2644.3	493.5	515.0	547.9	758.4	1039.1	873.9	733.5	762.9
2193.8	77.5°	1524.8	1016.5	407.5	435.8	440.3	662.2	993.9	870.5	698.4	681.4
657.7	80°	528.6	397.3	337.3	346.4	340.7	588.6	953.1	757.3	571.6	511.7
271.7	82.5°	216.2	198.1	267.1	255.8	242.2	457.3	769.7	619.2	467.5	413.2
131.3	85°	94.0	125.6	176.6	155.1	140.4	317.0	616.9	524.1	395.1	340.7
43.0	87.5°	19.2	47.5	74.7	70.2	72.4	211.7	438.1	372.4	279.6	209.4
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

<u>180°</u>
2167.7
2162.1
2203.9
2275.3
2355.6
2430.3
2481.3
2510.7
2527.7
2528.8
2511.8
2482.4
2424.7
2318.3
2145.1
1916.4
1653.8
1394.6
1179.5
1032.4
937.3
864.8
810.5
752.8
686.0
706.3
744.8
767.5
741.4
<i>824.1</i>
762.9
621.5
494.7
408.6
339.6
164.1
0.0

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