

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: P940012

Luminaire Tested: **GALN-SB2D-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19295 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

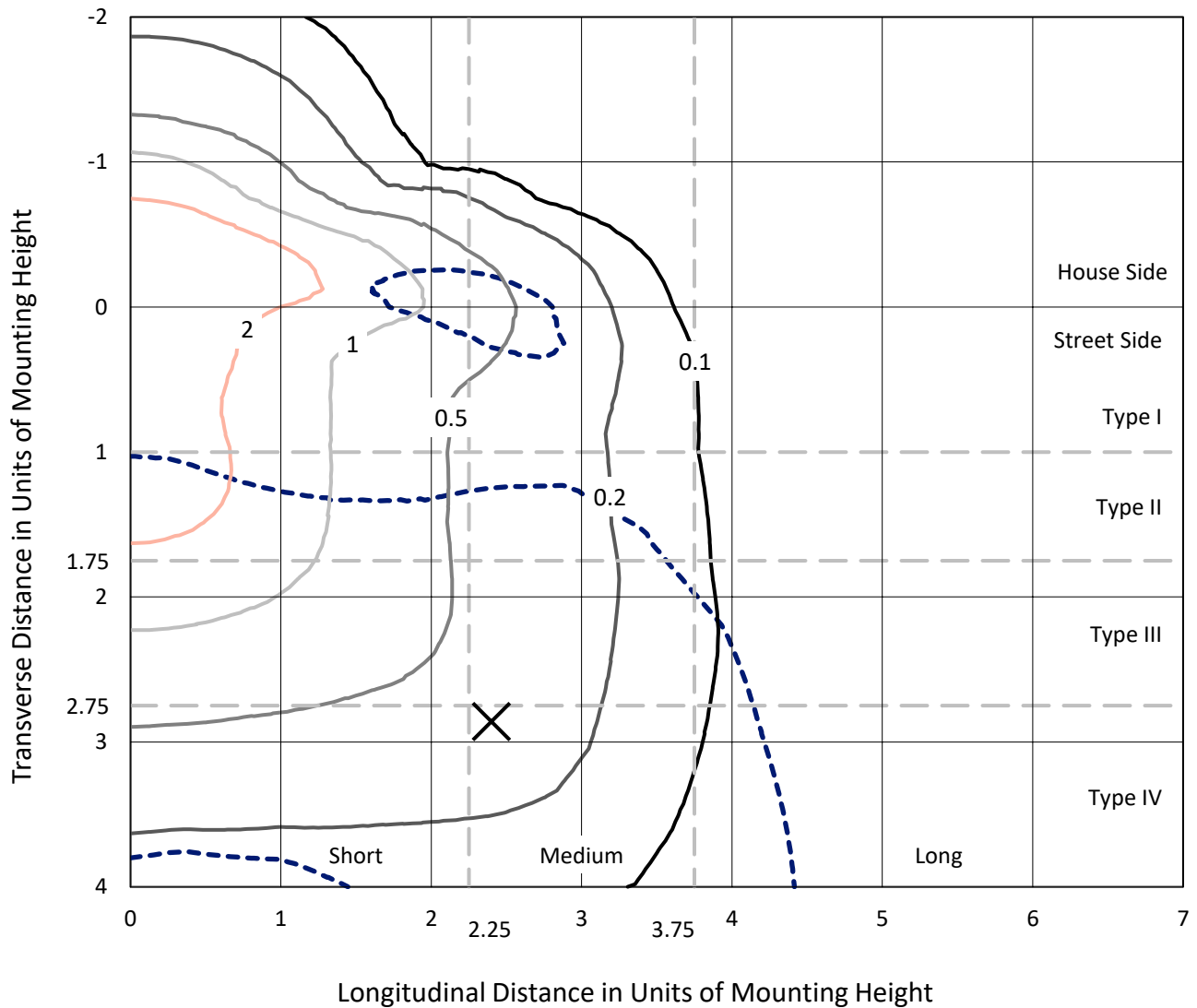
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

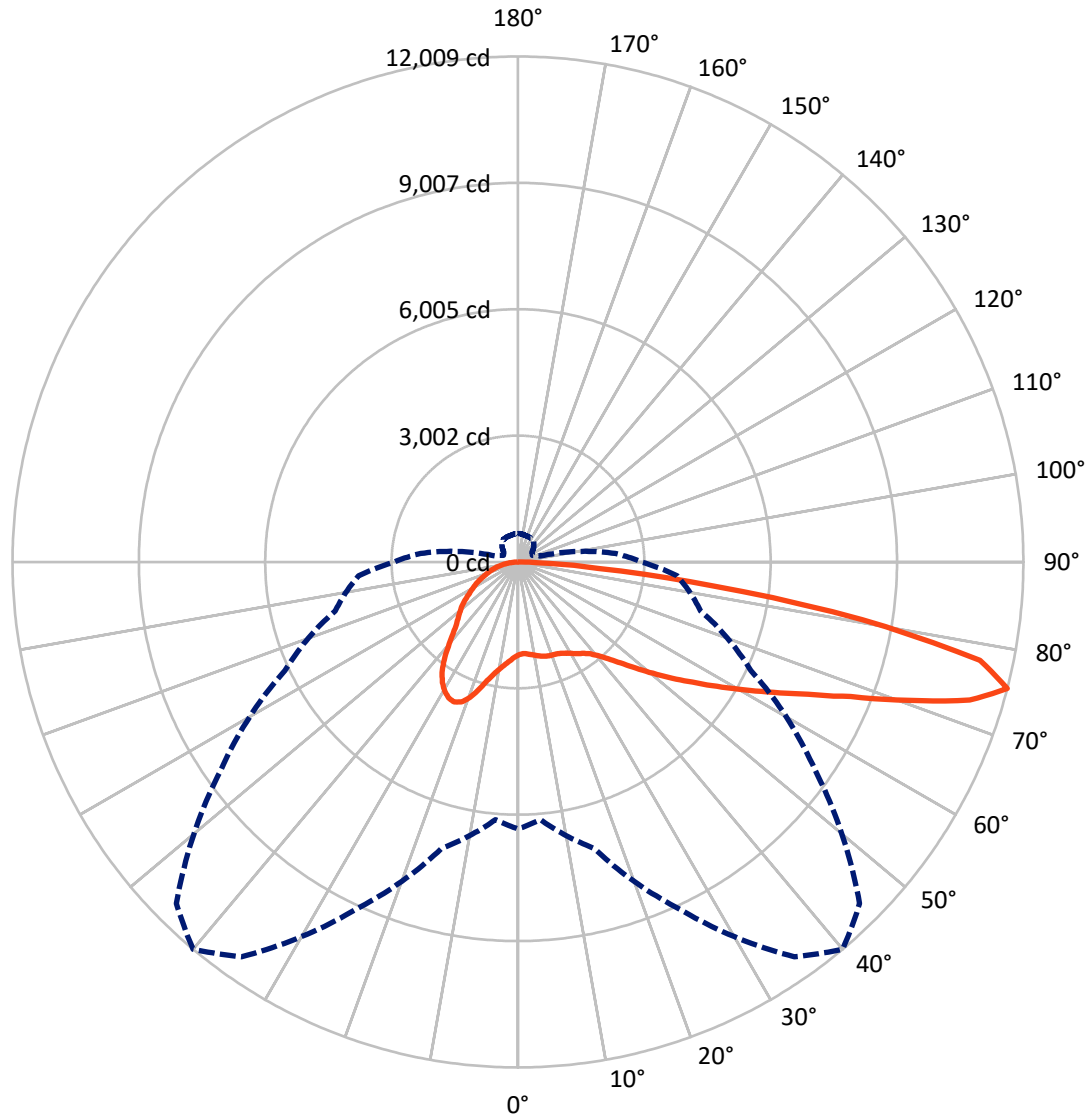
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5978.2	0.0	5978.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13316.8	0.0	13316.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	19295.0	0.0	19295.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	1.1
10°-20°	739.5	3.8
20°-30°	1350.2	7.0
30°-40°	1914.9	9.9
40°-50°	2585.7	13.4
50°-60°	3478.5	18.0
60°-70°	4415.0	22.9
70°-80°	4006.9	20.8
80°-90°	584.1	3.0
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°	19295.0	100.0
0°-180°	19295.0	100.0



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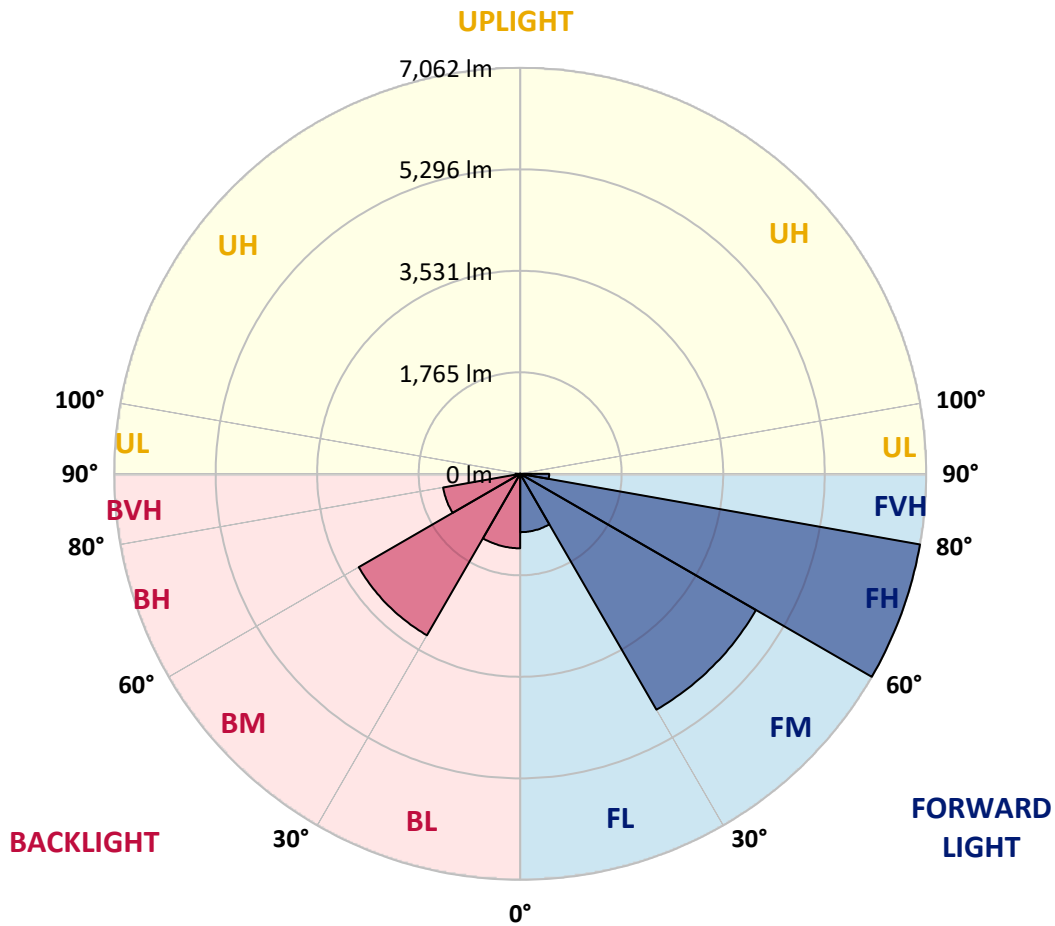
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.9	5.3			
FM (30°-60°)	4736.5	24.5			
FH (60°-80°)	7061.7	36.6			G3/7500
FVH (80°-90°)	503.7	2.6			G4/750
BL (0°-30°)	1294.9	6.7	B3/2500		
BM (30°-60°)	3242.7	16.8	B3/5000		
BH (60°-80°)	1360.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	80.4	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4
2.5°	2172.6	2184.9	2181.8	2177.8	2177.8	2178.8	2177.8	2184.9	2192.1	2199.2
5°	2195.2	2207.4	2201.3	2196.2	2192.1	2191.1	2188.0	2187.0	2191.1	2200.3
7.5°	2239.2	2251.4	2242.2	2233.0	2224.8	2220.7	2216.6	2210.5	2207.4	2212.5
10°	2288.3	2300.6	2289.3	2272.9	2259.6	2254.5	2250.4	2244.3	2240.2	2243.3
12.5°	2337.4	2349.7	2334.3	2311.8	2294.4	2291.3	2286.2	2284.2	2283.2	2282.1
15°	2383.5	2393.7	2374.2	2347.6	2329.2	2324.1	2319.0	2322.1	2327.2	2333.3
17.5°	2419.3	2429.5	2400.9	2366.1	2348.7	2346.6	2343.5	2353.8	2368.1	2383.5
20°	2452.0	2462.3	2425.4	2378.3	2357.9	2357.9	2358.9	2380.4	2400.9	2423.4
22.5°	2498.1	2506.3	2461.2	2396.8	2367.1	2369.1	2377.3	2398.8	2424.4	2455.1
25°	2566.6	2572.8	2517.5	2431.6	2397.8	2403.9	2411.1	2421.3	2445.9	2481.7
27.5°	2677.2	2682.3	2609.6	2493.0	2441.8	2452.0	2462.3	2455.1	2466.3	2497.0
30°	2832.7	2835.8	2743.7	2589.2	2516.5	2521.6	2523.7	2494.0	2472.5	2497.0
32.5°	3016.9	3015.9	2906.4	2705.8	2601.4	2596.3	2578.9	2520.6	2470.4	2491.9
35°	3302.4	3291.2	3150.0	2869.6	2697.6	2665.9	2625.0	2550.3	2480.7	2486.8
37.5°	3775.3	3740.5	3545.0	3137.7	2840.9	2760.1	2699.7	2598.4	2503.2	2484.8
40°	4308.4	4264.4	4049.5	3505.1	3055.8	2925.8	2828.6	2666.9	2540.0	2494.0
42.5°	4940.9	4878.5	4647.2	3938.0	3328.0	3139.7	2993.4	2753.9	2594.3	2523.7
45°	5717.6	5634.7	5307.3	4426.1	3670.9	3420.1	3224.7	2885.9	2677.2	2581.0
47.5°	6502.6	6523.0	6057.4	4984.9	4082.3	3766.0	3514.3	3084.5	2797.9	2673.1
50°	7336.6	7350.9	6803.4	5604.0	4548.9	4157.0	3839.7	3306.5	2965.8	2804.1
52.5°	7987.5	7989.5	7480.9	6251.8	5035.0	4586.8	4190.7	3560.3	3160.2	2978.0
55°	8394.8	8389.7	7955.8	6864.8	5593.8	5038.1	4579.6	3848.9	3397.6	3182.7
57.5°	8690.5	8675.2	8283.2	7391.9	6189.4	5571.3	5019.7	4176.4	3678.0	3426.3
60°	8803.1	8793.9	8505.3	7847.3	6815.7	6160.8	5527.3	4542.8	3996.3	3713.8
62.5°	8846.1	8863.5	8723.3	8288.4	7486.0	6813.7	6085.0	4980.8	4354.5	4039.3
65°	8997.6	9029.3	9000.6	8865.5	8243.3	7578.1	6824.9	5501.7	4745.4	4388.3
67.5°	9297.4	9329.1	9341.4	9556.3	9168.5	8530.9	7748.0	6150.5	5202.9	4750.5
70°	9290.3	9281.0	9498.0	10105.9	10326.9	9850.0	8992.4	6948.8	5748.3	5051.4
72.5°	8456.2	8382.5	8895.2	10099.7	11291.0	11227.5	10512.2	7978.3	6219.1	5088.2
75°	6343.9	6147.4	7053.1	9101.9	11451.6	12009.4	11478.2	8616.9	6107.5	4495.7
77.5°	2713.0	2515.5	3582.9	6737.9	10249.2	11226.5	10592.0	7517.8	4875.4	2972.9
80°	710.2	709.2	1082.7	3054.8	6970.2	8290.4	7273.2	4854.9	2785.6	1062.3
82.5°	293.7	286.5	398.1	1188.1	3405.8	4652.3	3796.7	2165.5	1006.0	287.6
85°	109.5	108.5	193.4	410.4	1201.4	1918.8	1388.7	553.6	250.7	140.2
87.5°	30.7	29.7	42.0	142.2	292.7	444.1	237.4	91.1	70.6	55.3
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°
2206.4	0°	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4
2210.5	2.5°	2213.6	2218.7	2227.9	2235.1	2244.3	2254.5	2268.8	2278.0	2287.3	2293.4
2215.6	5°	2222.8	2234.0	2257.6	2281.1	2308.7	2334.3	2364.0	2385.5	2402.9	2408.0
2234.0	7.5°	2243.3	2261.7	2301.6	2341.5	2385.5	2427.5	2470.4	2507.3	2537.0	2548.2
2266.8	10°	2279.1	2303.6	2359.9	2416.2	2474.5	2539.0	2594.3	2647.5	2689.4	2706.8
2305.7	12.5°	2324.1	2354.8	2428.5	2506.3	2587.1	2676.1	2747.8	2813.3	2865.5	2889.0
2359.9	15°	2382.4	2422.3	2516.5	2620.9	2739.6	2863.4	2954.5	3027.2	3085.5	3114.1
2416.2	17.5°	2445.9	2499.1	2617.8	2775.4	2945.3	3108.0	3214.4	3267.7	3328.0	3355.7
2468.4	20°	2507.3	2572.8	2742.7	2971.9	3198.1	3371.0	3457.0	3471.3	3475.4	3478.5
2517.5	22.5°	2570.7	2658.7	2899.2	3219.6	3462.1	3581.8	3594.1	3532.7	3446.7	3406.8
2565.6	25°	2640.3	2757.0	3103.9	3492.8	3689.3	3703.6	3609.5	3460.1	3297.3	3222.6
2604.5	27.5°	2707.9	2870.6	3349.5	3753.8	3853.0	3727.2	3524.5	3312.7	3116.2	3037.4
2632.1	30°	2775.4	3000.6	3620.7	3982.0	3927.7	3668.8	3390.5	3154.1	2956.5	2873.7
2656.7	32.5°	2844.0	3152.0	3932.9	4146.7	3914.4	3545.0	3223.6	2976.0	2802.0	2715.0
2678.2	35°	2921.8	3338.3	4228.6	4236.8	3825.4	3362.8	3003.6	2763.1	2611.7	2542.1
2703.8	37.5°	3023.1	3574.7	4489.6	4259.3	3669.8	3095.7	2730.4	2511.4	2386.5	2354.8
2741.6	40°	3148.9	3859.2	4689.1	4223.5	3439.6	2771.3	2431.6	2256.6	2185.9	2193.1
2792.8	42.5°	3312.7	4177.4	4829.3	4131.4	3119.3	2436.7	2169.6	2091.8	2125.6	2154.2
2869.6	45°	3525.5	4508.0	4916.3	3974.8	2757.0	2153.2	2015.0	2033.5	2059.0	2062.1
2993.4	47.5°	3797.8	4842.6	4973.6	3738.4	2387.5	1953.6	1916.8	1920.9	1915.8	1894.3
3178.6	50°	4137.5	5168.1	5024.8	3425.3	2073.4	1828.8	1779.7	1765.3	1694.7	1625.1
3425.3	52.5°	4524.4	5466.9	5046.3	3036.4	1828.8	1724.4	1644.6	1554.5	1422.5	1401.0
3735.3	55°	4954.2	5743.2	4991.0	2558.5	1623.1	1590.3	1469.6	1361.1	1346.8	1328.3
4143.7	57.5°	5467.9	6041.0	4878.5	2025.3	1412.3	1433.8	1316.1	1328.3	1302.8	1274.1
4668.7	60°	6029.8	6349.1	4680.9	1539.2	1194.3	1238.3	1276.2	1275.1	1268.0	1244.4
5222.3	62.5°	6535.3	6551.7	4292.1	1178.9	1002.9	1086.8	1190.2	1189.2	1183.0	1169.7
5800.5	65°	6836.2	6521.0	3643.2	928.2	845.3	962.0	1073.5	1081.7	1082.7	1081.7
6235.5	67.5°	6783.0	6161.8	2752.9	738.9	715.3	835.1	957.9	969.1	977.3	979.4
6290.7	70°	6181.2	5372.7	1795.0	589.5	599.7	723.5	848.4	859.6	866.8	875.0
5458.7	72.5°	4818.1	3950.2	1027.5	476.9	498.4	627.3	739.9	753.2	757.3	772.7
3798.8	75°	2936.1	2323.1	554.7	375.6	409.4	536.3	632.4	647.8	655.0	673.4
1865.6	77.5°	1395.9	1006.0	316.2	292.7	329.5	438.0	534.2	551.6	532.2	542.4
514.8	80°	471.8	373.5	199.6	223.1	251.8	341.8	427.8	445.2	404.2	402.2
170.9	82.5°	164.8	151.5	126.9	148.4	162.7	244.6	323.4	345.9	300.9	299.9
76.8	85°	64.5	61.4	70.6	80.8	97.2	150.4	212.9	224.1	185.2	149.4
22.5	87.5°	13.3	14.3	17.4	18.4	29.7	52.2	76.8	94.2	74.7	63.4
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>
2206.4
2289.3
2410.1
2549.2
2707.9
2889.0
3112.1
3354.6
3486.7
3418.1
3233.9
3046.6
2882.9
2726.3
2557.4
2377.3
2217.7
2180.8
2082.6
1910.7
1634.3
1408.2
1331.4
1269.0
1236.2
1164.6
1081.7
981.4
879.1
778.8
675.4
534.2
398.1
285.5
147.4
58.3
0.0

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