

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: P946831

Luminaire Tested: **GALN-SB2B-840-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-840-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

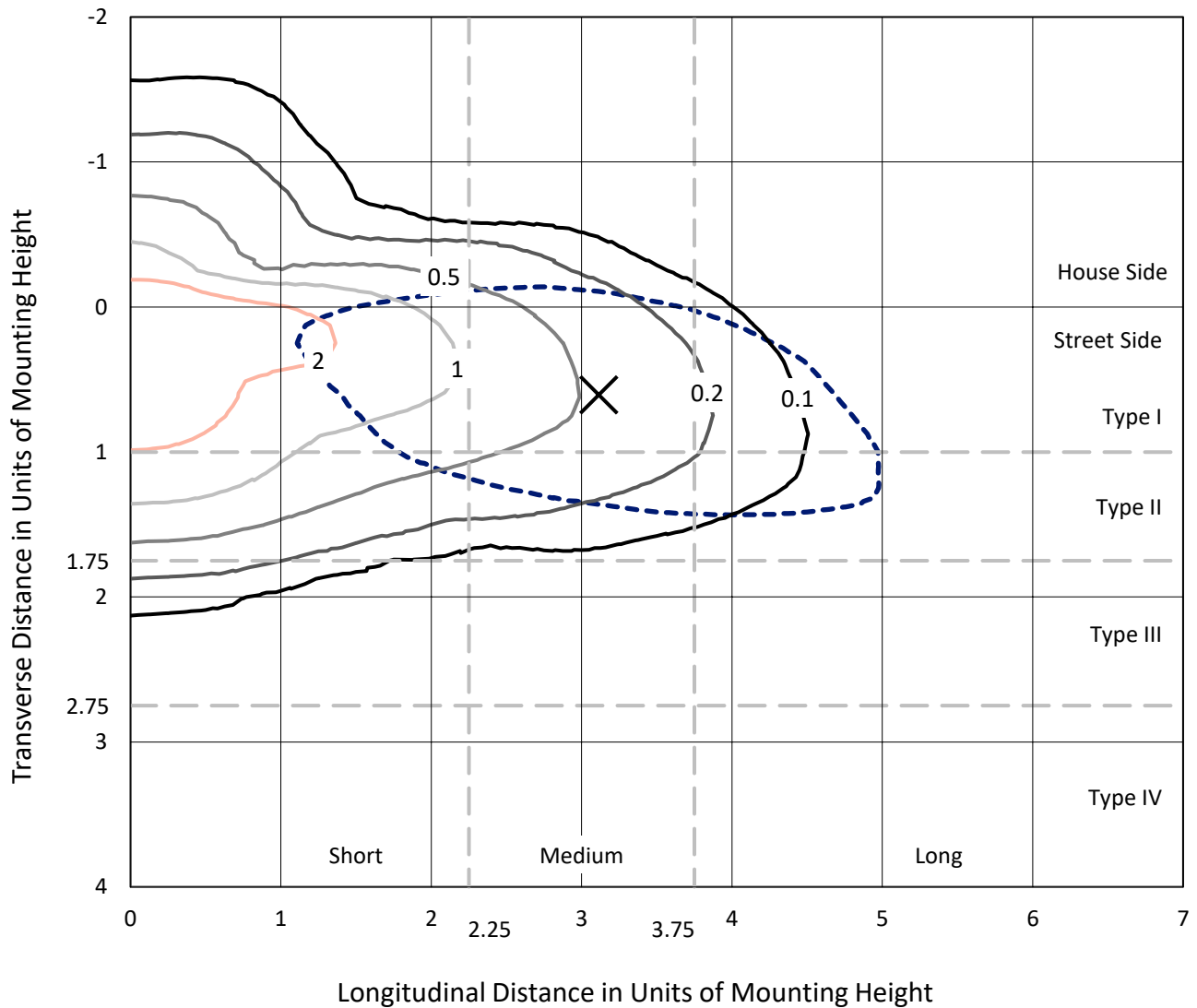
Lumens per Lamp: N/A  
Luminaire Lumens: 10706 lumens  
Efficiency: N/A  
Efficacy: 144.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

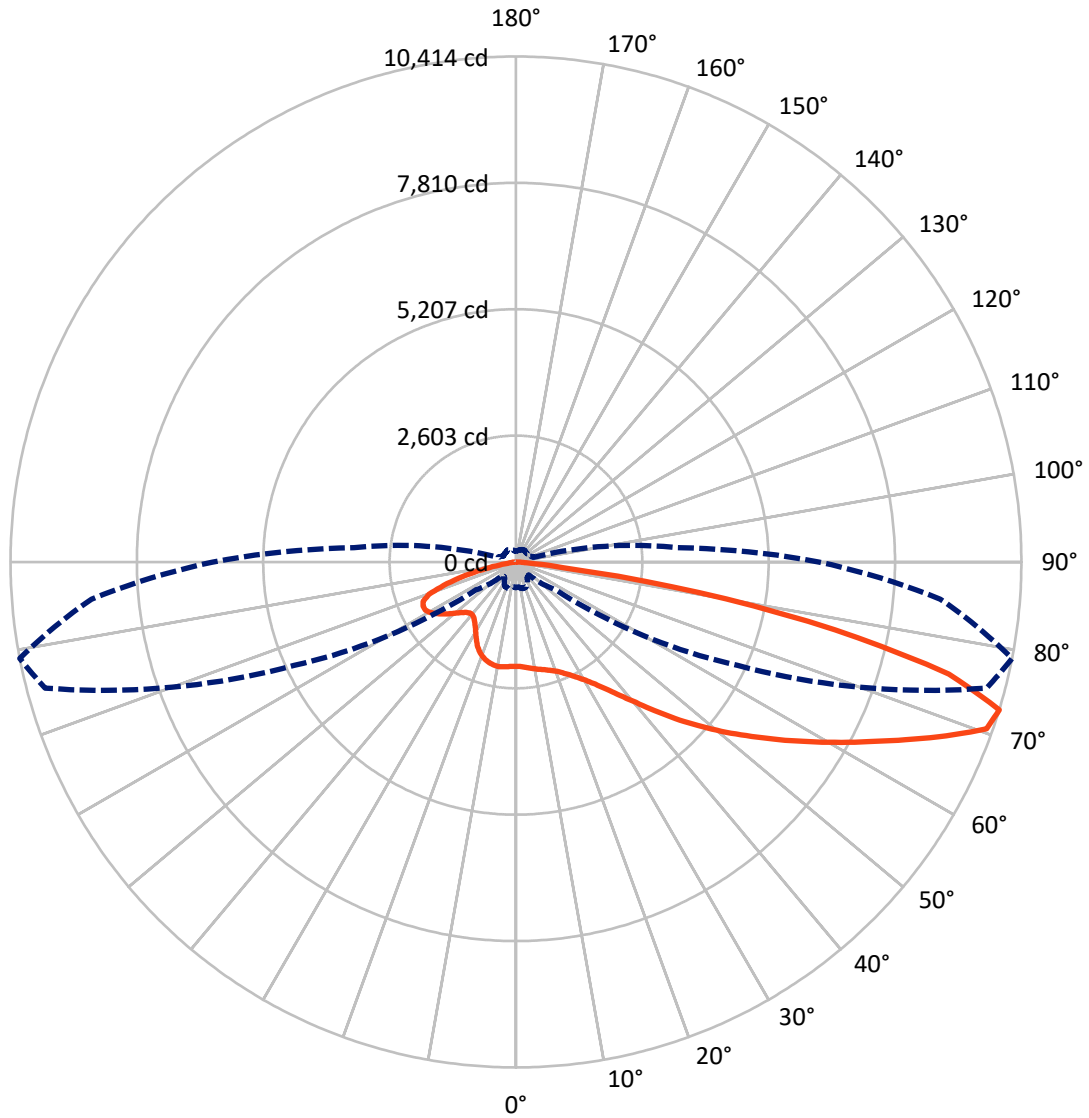
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2355.9	0.0	2355.9
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	8350.1	0.0	8350.1
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	10706.0	0.0	10706.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.1	1.8
10°-20°	510.0	4.8
20°-30°	823.0	7.7
30°-40°	1235.2	11.5
40°-50°	1752.2	16.4
50°-60°	2212.8	20.7
60°-70°	2247.4	21.0
70°-80°	1531.7	14.3
80°-90°	198.7	1.9
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°	10706.0	100.0
0°-180°	10706.0	100.0



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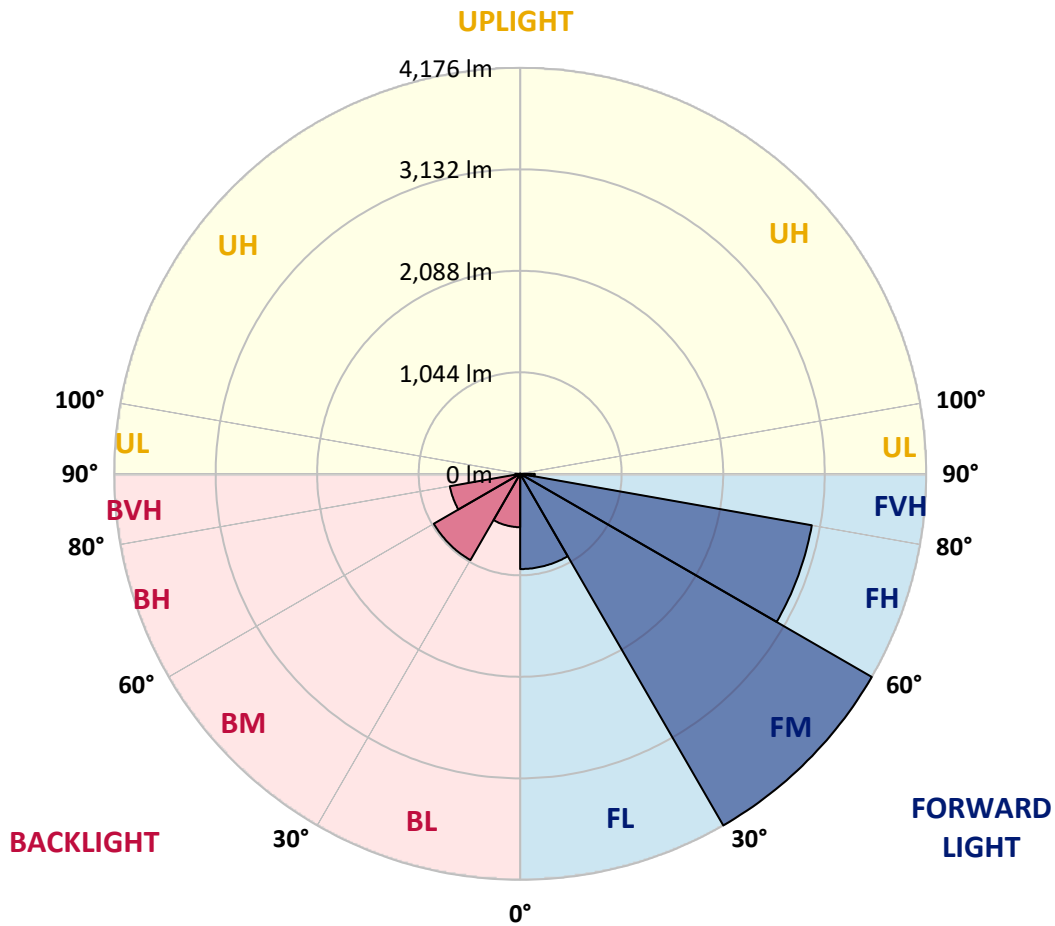
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.3	9.1			
FM (30°-60°)	4175.6	39.0			
FH (60°-80°)	3045.5	28.4			G2/5000
FVH (80°-90°)	149.7	1.4			G2/225
BL (0°-30°)	548.8	5.1	B2/1000		
BM (30°-60°)	1024.6	9.6	B2/2500		
BH (60°-80°)	733.6	6.9	B2/1000		G2/1000
BVH (80°-90°)	49.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1
2.5°	2150.3	2140.1	2146.3	2144.0	2146.9	2150.3	2151.4	2153.1	2158.8	2158.2
5°	2145.7	2135.5	2144.0	2141.2	2148.6	2156.5	2163.3	2169.5	2178.6	2182.5
7.5°	2136.1	2129.3	2137.8	2146.3	2159.9	2171.8	2181.4	2195.6	2208.6	2210.9
10°	2080.0	2074.9	2094.8	2116.8	2154.2	2186.5	2207.5	2223.9	2238.0	2240.3
12.5°	2021.7	2015.5	2037.6	2067.6	2128.2	2186.5	2230.7	2252.2	2264.7	2272.0
15°	2012.1	2007.0	2019.4	2045.5	2095.9	2171.2	2246.5	2286.2	2296.9	2305.4
17.5°	2058.5	2048.9	2054.0	2063.0	2092.5	2157.1	2259.0	2324.7	2341.1	2350.2
20°	2166.1	2152.5	2144.6	2126.5	2121.4	2159.3	2257.9	2371.1	2392.6	2404.0
22.5°	2309.4	2300.3	2283.3	2237.5	2187.6	2187.1	2279.4	2430.6	2470.8	2481.5
25°	2482.7	2469.1	2447.6	2385.3	2289.6	2242.0	2315.6	2506.5	2573.9	2576.7
27.5°	2682.0	2661.6	2632.2	2550.1	2421.0	2328.1	2371.1	2593.7	2692.2	2691.1
30°	2892.1	2871.7	2840.6	2740.9	2578.4	2444.2	2448.1	2687.7	2832.7	2826.4
32.5°	3045.6	3030.3	3024.1	2947.1	2759.6	2581.2	2536.5	2791.9	3005.9	3000.3
35°	3163.4	3143.6	3150.9	3111.8	2957.2	2734.7	2644.6	2915.9	3216.6	3216.0
37.5°	3280.0	3262.5	3268.7	3242.7	3140.2	2929.5	2776.6	3067.7	3477.7	3490.1
40°	3386.5	3367.8	3392.7	3368.4	3282.3	3136.8	2926.7	3239.3	3780.1	3803.9
42.5°	3450.5	3435.8	3477.1	3477.7	3405.8	3311.8	3091.5	3428.4	4130.1	4183.3
45°	3472.6	3467.5	3529.8	3542.8	3515.1	3413.1	3239.8	3634.5	4507.2	4602.4
47.5°	3448.8	3439.2	3525.2	3573.4	3595.5	3460.7	3362.7	3857.7	4892.3	5031.6
50°	3328.7	3310.1	3438.0	3539.4	3618.1	3491.8	3486.7	4115.3	5330.1	5482.4
52.5°	3113.0	3098.8	3244.4	3420.5	3568.3	3507.1	3626.1	4396.8	5745.7	5942.8
55°	2837.2	2818.5	2978.8	3208.7	3444.3	3502.0	3765.4	4711.7	6236.2	6436.1
57.5°	2400.0	2362.6	2565.4	2837.2	3242.1	3495.8	3910.3	5024.8	6734.5	6974.0
60°	1762.3	1706.8	1955.5	2277.7	2846.8	3435.2	4089.9	5375.9	7332.5	7548.3
62.5°	1026.1	993.9	1156.4	1457.1	2145.7	3078.4	4190.7	5784.2	7920.3	8146.9
65°	796.8	787.7	801.9	825.1	1194.3	2304.9	3879.8	6182.4	8667.9	8826.4
67.5°	728.8	722.0	728.3	684.7	605.9	1283.8	3069.4	6283.2	9468.6	9564.9
70°	647.9	639.9	660.3	622.9	476.8	583.9	1983.2	5917.3	10105.7	10286.4
72.5°	527.8	518.7	566.3	549.3	401.5	374.9	996.1	5048.0	10038.9	10413.8
75°	405.5	400.4	457.0	471.2	327.3	295.0	478.0	3752.3	8834.4	9212.1
77.5°	314.9	310.9	339.8	391.3	263.9	228.8	293.9	2380.2	6657.5	6723.7
80°	236.1	224.8	251.4	303.0	205.6	167.1	199.3	1388.0	4208.2	3814.6
82.5°	147.8	142.1	164.2	202.2	145.0	115.0	129.7	766.8	1686.5	993.3
85°	84.4	82.1	89.5	115.5	78.7	66.3	74.2	338.7	308.1	211.8
87.5°	34.0	32.8	40.8	51.5	28.9	24.4	26.1	81.5	68.0	62.9
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°
2149.1	0°	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1	2149.1
2157.6	2.5°	2155.4	2155.4	2147.4	2135.0	2120.8	2111.8	2097.0	2093.1	2077.8	2073.2
2176.9	5°	2181.4	2176.9	2152.5	2117.4	2069.3	2025.1	1976.4	1945.8	1902.8	1887.5
2214.8	7.5°	2214.3	2201.8	2159.9	2082.9	1982.1	1883.0	1779.9	1701.7	1627.0	1600.4
2246.0	10°	2244.3	2226.7	2155.4	2020.6	1846.2	1674.6	1510.3	1395.4	1308.2	1272.5
2280.5	12.5°	2274.3	2242.0	2125.3	1916.9	1653.0	1420.3	1245.3	1155.8	1102.0	1059.0
2308.8	15°	2302.6	2257.3	2078.9	1778.2	1441.2	1205.1	1076.0	1004.6	961.6	933.3
2350.2	17.5°	2335.4	2270.3	2009.3	1602.1	1239.6	1056.2	950.8	907.8	899.3	895.9
2406.8	20°	2381.3	2282.2	1917.5	1405.0	1091.3	937.2	882.9	878.9	878.3	876.6
2474.8	22.5°	2430.6	2296.4	1796.3	1226.1	965.0	863.0	853.4	845.5	840.4	839.8
2556.9	25°	2488.9	2300.9	1644.5	1079.4	857.4	827.9	816.6	804.7	801.3	801.3
2650.3	27.5°	2545.5	2285.6	1467.9	952.0	796.8	795.7	780.9	777.0	776.4	778.1
2756.8	30°	2602.2	2256.7	1292.3	834.2	761.7	761.7	756.6	759.4	761.7	767.3
2902.9	32.5°	2678.6	2226.1	1145.6	747.0	731.1	725.4	730.5	736.2	738.5	745.8
3094.9	35°	2790.8	2204.6	1029.0	699.4	699.4	692.0	694.9	693.7	688.6	685.2
3327.0	37.5°	2939.1	2203.5	932.7	677.3	672.8	671.6	672.2	664.8	645.0	621.2
3607.9	40°	3117.5	2234.1	858.5	662.0	658.6	665.4	662.0	642.2	587.8	546.5
3953.4	42.5°	3357.1	2321.3	810.9	643.3	653.5	662.0	648.4	579.9	543.1	515.3
4347.0	45°	3639.1	2462.9	786.6	623.5	643.9	654.1	588.4	558.4	528.9	495.5
4776.2	47.5°	3958.5	2641.2	780.9	604.8	622.4	628.6	562.9	549.3	515.9	479.7
5207.7	50°	4306.2	2852.5	796.2	582.7	591.2	569.7	554.4	542.0	507.4	471.7
5650.0	52.5°	4665.8	3085.2	826.8	552.7	560.1	536.3	551.0	540.3	502.3	454.2
6107.0	55°	5019.2	3319.7	856.3	517.6	528.4	506.3	541.4	533.5	479.1	424.7
6594.6	57.5°	5378.2	3553.0	885.1	486.5	497.8	477.4	526.1	515.3	453.0	397.5
7126.9	60°	5751.4	3779.5	898.7	456.4	464.4	450.8	502.9	484.2	423.6	369.8
7650.2	62.5°	6100.8	3968.1	876.6	426.4	431.5	425.9	472.3	447.4	394.1	338.7
8195.6	65°	6451.3	4080.2	808.7	397.0	398.1	395.3	429.3	407.7	359.6	311.5
8673.0	67.5°	6769.0	4143.1	700.5	365.3	362.4	361.3	389.1	364.7	326.2	284.3
9036.0	70°	6836.4	3983.4	535.2	327.9	327.9	325.1	344.9	320.0	289.4	255.4
8776.0	72.5°	6244.1	3350.8	380.0	285.4	289.9	284.3	300.7	279.8	252.0	229.4
7563.6	75°	5035.0	2457.2	276.4	241.8	249.7	240.1	255.4	240.7	216.9	216.3
5212.3	77.5°	3459.6	1519.4	200.5	199.3	205.0	192.5	210.1	202.2	180.7	171.0
2268.6	80°	1476.4	605.9	146.1	154.0	154.0	142.7	163.1	165.4	146.7	142.1
437.8	82.5°	293.9	172.2	102.5	105.9	99.7	96.3	115.5	128.0	176.7	196.5
131.9	85°	88.3	63.4	61.7	57.8	51.0	51.5	68.0	128.6	158.6	90.6
43.6	87.5°	24.4	15.9	16.4	13.0	10.8	14.2	23.2	97.4	53.2	22.7
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°
2149.1
2080.6
1898.8
1603.8
1280.4
1073.1
938.4
898.2
882.3
846.1
804.7
782.6
771.3
752.1
693.2
621.8
545.4
514.2
493.3
476.8
467.8
450.8
421.9
396.4
368.1
338.1
308.1
280.9
254.3
222.6
194.8
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142.1
197.1
78.2
19.3
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