

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: P949332

Luminaire Tested: **GALN-SB4A-840-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-840-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

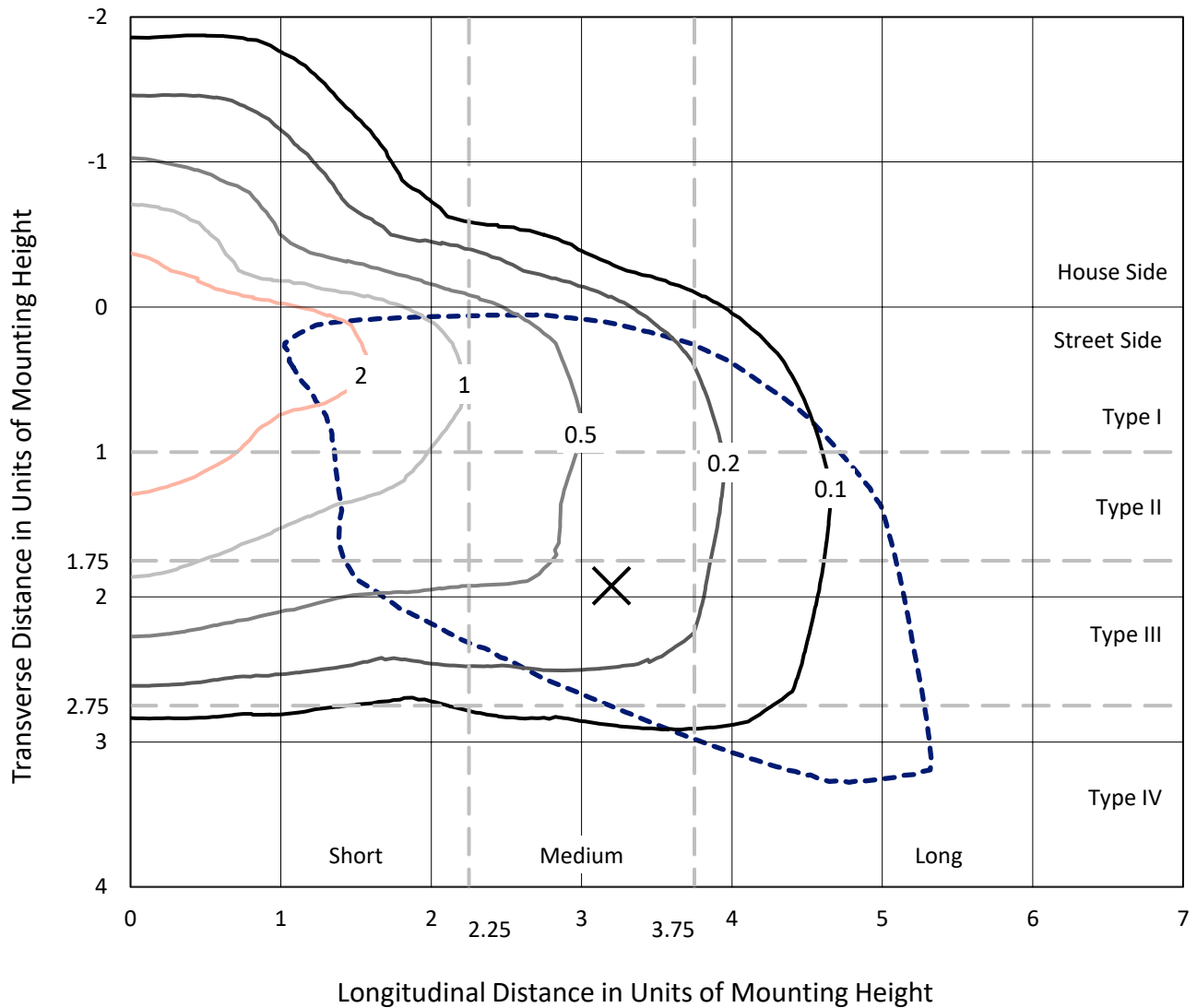
Lumens per Lamp: N/A  
Luminaire Lumens: 16806 lumens  
Efficiency: N/A  
Efficacy: 147.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

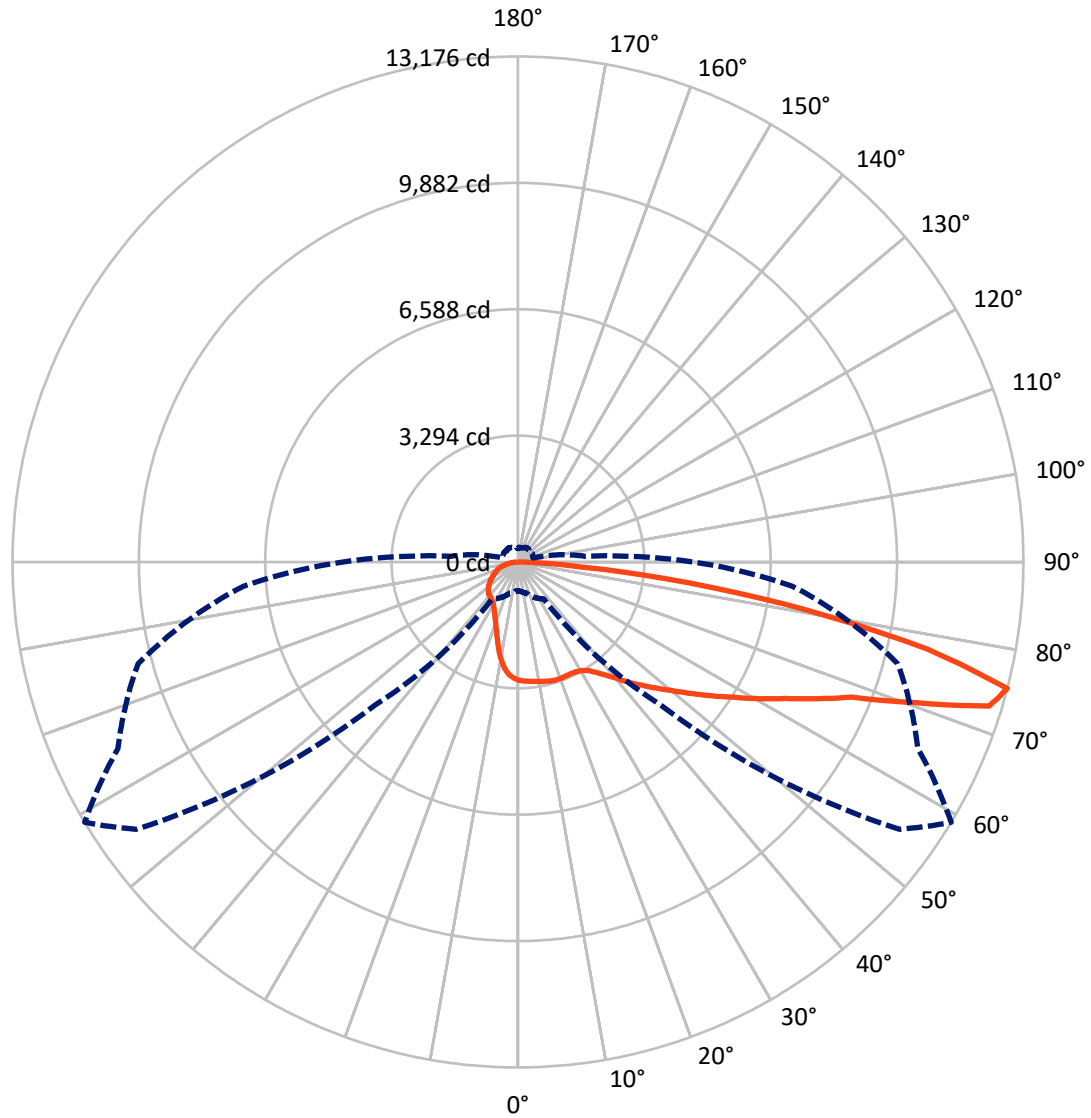
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3152.1	0.0	3152.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	13653.9	0.0	13653.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	16806.0	0.0	16806.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.6	1.6
10°-20°	707.0	4.2
20°-30°	1073.9	6.4
30°-40°	1596.3	9.5
40°-50°	2373.9	14.1
50°-60°	3222.3	19.2
60°-70°	3933.9	23.4
70°-80°	3087.3	18.4
80°-90°	534.8	3.2
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°	16806.0	100.0
0°-180°	16806.0	100.0



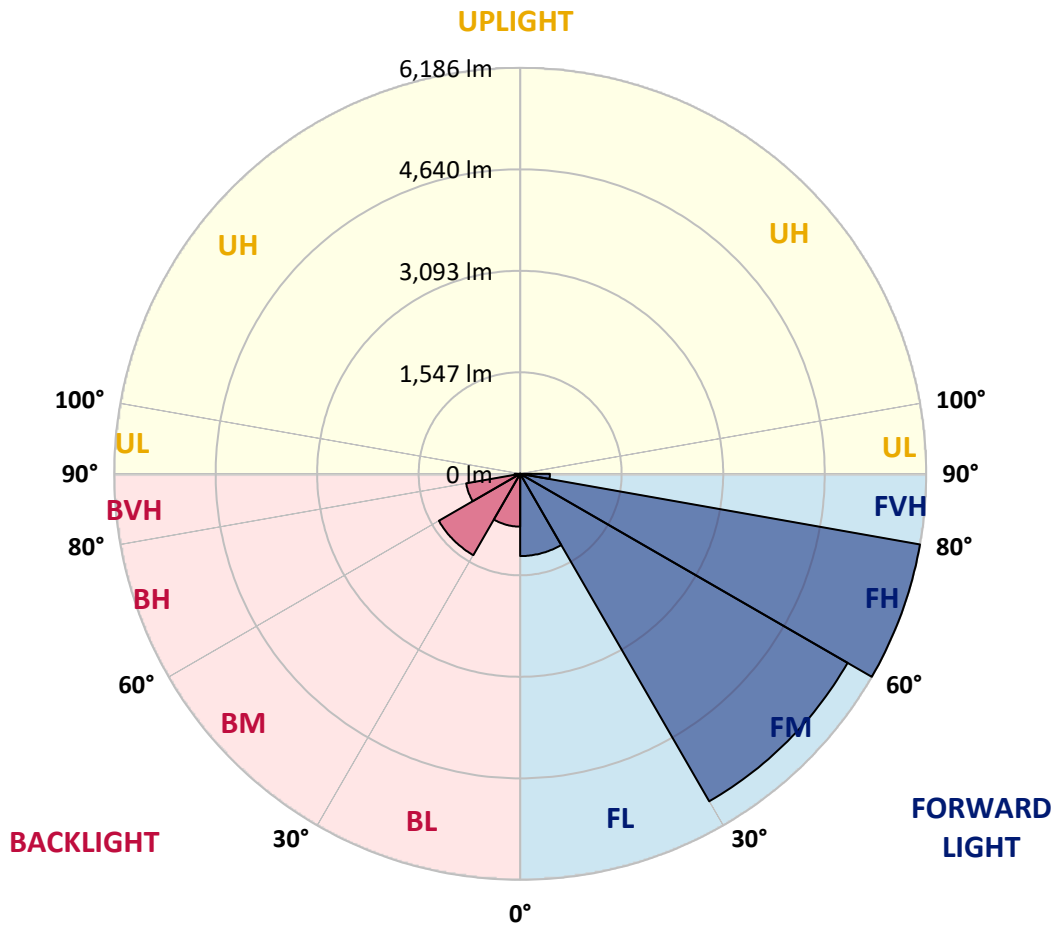
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.1	7.5			
FM (30°-60°)	5761.8	34.3			
FH (60°-80°)	6186.1	36.8			G3/7500
FVH (80°-90°)	452.9	2.7			G3/500
BL (0°-30°)	804.4	4.8	B2/1000		
BM (30°-60°)	1430.7	8.5	B2/2500		
BH (60°-80°)	835.1	5.0	B2/1000		G2/1000
BVH (80°-90°)	81.9	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-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7
2.5°	3110.9	3100.1	3110.9	3106.4	3104.6	3101.0	3101.9	3108.2	3104.6	3109.1
5°	3090.1	3083.8	3094.6	3091.9	3103.7	3105.5	3117.3	3124.5	3129.0	3129.9
7.5°	3055.8	3049.4	3064.8	3077.5	3102.8	3110.0	3134.4	3146.2	3152.5	3163.4
10°	2930.1	2927.4	2965.4	3013.3	3073.0	3110.0	3147.1	3167.0	3176.9	3205.8
12.5°	2707.7	2711.3	2761.0	2853.3	2972.6	3091.9	3161.6	3190.5	3205.8	3242.0
15°	2495.2	2494.3	2548.6	2647.1	2814.4	3012.4	3168.8	3218.5	3244.7	3298.1
17.5°	2372.3	2368.7	2406.6	2481.7	2637.2	2890.3	3150.7	3233.9	3289.9	3356.8
20°	2349.7	2342.5	2362.3	2399.4	2509.7	2756.5	3103.7	3233.9	3326.1	3412.9
22.5°	2432.0	2420.2	2412.1	2407.6	2456.4	2646.2	3050.3	3223.0	3379.4	3493.3
25°	2597.4	2579.3	2537.7	2497.1	2482.6	2596.5	3003.3	3220.3	3459.0	3601.8
27.5°	2865.0	2842.4	2758.3	2660.7	2573.0	2621.8	2982.5	3236.6	3546.7	3716.7
30°	3196.8	3172.4	3066.6	2916.5	2759.2	2715.8	3008.8	3284.5	3658.8	3869.4
32.5°	3494.2	3467.1	3376.7	3223.9	3011.5	2878.6	3091.9	3375.8	3835.1	4081.9
35°	3758.2	3726.6	3645.2	3504.2	3320.7	3107.3	3242.0	3537.6	4085.5	4427.3
37.5°	4016.8	3979.7	3891.1	3742.0	3613.6	3412.0	3449.0	3745.6	4418.2	4846.7
40°	4306.1	4252.8	4145.2	3997.8	3873.1	3769.1	3721.2	4000.5	4756.3	5315.1
42.5°	4586.4	4535.7	4407.4	4281.7	4125.3	4095.5	4036.7	4298.9	5126.1	5829.5
45°	4888.3	4827.8	4672.3	4513.1	4414.6	4312.4	4342.3	4597.2	5488.6	6353.8
47.5°	5171.3	5103.5	4920.0	4742.8	4688.5	4495.1	4622.5	4925.4	5865.6	6885.4
50°	5324.1	5257.2	5104.4	4944.4	4901.9	4720.2	4926.3	5286.1	6260.7	7415.2
52.5°	5451.6	5379.2	5179.4	5090.8	5078.2	4965.2	5300.6	5698.4	6655.8	7883.5
55°	5587.2	5506.7	5251.8	5172.2	5230.1	5240.0	5744.5	6165.8	7073.5	8340.1
57.5°	5743.6	5641.4	5321.4	5240.9	5378.3	5561.9	6254.4	6650.4	7483.9	8763.2
60°	5891.0	5787.9	5455.2	5350.3	5538.4	5935.3	6839.3	7237.1	7948.6	9140.2
62.5°	5919.9	5834.9	5561.9	5561.0	5755.3	6371.0	7531.8	7829.3	8354.6	9512.7
65°	5419.0	5365.7	5203.9	5552.8	6066.3	6998.4	8303.0	8586.9	8870.8	9838.1
67.5°	4124.4	4131.6	4119.9	4793.4	5815.0	7899.8	9419.6	9397.9	9508.2	10203.4
70°	1885.9	1928.4	2205.0	3308.9	4658.7	8003.8	11265.7	10984.5	10308.3	10676.2
72.5°	1018.9	1051.4	1164.4	1602.9	2800.8	7116.0	12645.3	12845.1	11372.4	10994.5
75°	747.7	765.8	844.4	1018.9	1176.2	5288.8	12150.8	13176.0	11505.3	10252.2
77.5°	559.6	567.8	631.9	807.3	602.1	2788.2	9708.9	10912.2	9849.0	8423.3
80°	405.9	415.0	462.9	605.7	422.2	1019.8	6666.6	7659.3	6745.3	5369.3
82.5°	280.3	283.9	304.7	412.3	294.7	396.0	3782.6	4491.4	3765.5	1884.1
85°	169.1	173.6	182.6	240.5	167.3	188.0	1632.8	1688.8	1125.6	450.2
87.5°	69.6	74.1	81.4	101.3	66.0	52.4	269.4	338.1	210.6	132.0
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°
3084.7	0°	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7	3084.7
3093.7	2.5°	3089.2	3082.9	3065.7	3042.2	3020.5	2993.4	2981.6	2971.7	2962.7	2945.5
3118.2	5°	3108.2	3091.0	3044.9	2985.3	2917.4	2843.3	2771.0	2721.3	2678.8	2647.1
3146.2	7.5°	3137.1	3104.6	3020.5	2898.5	2743.0	2583.8	2440.1	2337.9	2261.1	2233.1
3186.0	10°	3167.0	3128.1	2981.6	2766.5	2498.0	2253.0	2062.2	1957.3	1895.8	1876.0
3233.0	12.5°	3202.2	3145.3	2921.1	2582.9	2224.0	1955.5	1789.2	1727.7	1696.0	1685.2
3290.8	15°	3253.8	3159.7	2829.8	2353.3	1962.7	1738.5	1631.0	1588.5	1572.2	1571.3
3350.5	17.5°	3292.6	3162.5	2687.8	2107.4	1762.0	1607.4	1518.8	1502.6	1513.4	1529.7
3409.3	20°	3336.0	3138.0	2501.6	1883.2	1621.0	1492.6	1455.6	1466.4	1492.6	1516.1
3487.0	22.5°	3366.8	3093.7	2276.5	1708.7	1499.0	1426.6	1424.8	1447.4	1461.9	1473.6
3578.3	25°	3393.9	3018.7	2037.8	1562.2	1398.6	1386.9	1406.7	1399.5	1389.6	1399.5
3669.6	27.5°	3413.8	2900.3	1824.4	1433.9	1328.1	1359.7	1348.0	1331.7	1330.8	1336.2
3777.2	30°	3407.5	2742.1	1649.0	1311.8	1278.4	1309.1	1281.1	1278.4	1275.6	1278.4
3939.1	32.5°	3407.5	2562.1	1514.3	1227.7	1246.7	1235.0	1232.3	1225.9	1215.1	1214.2
4158.7	35°	3426.4	2382.2	1398.6	1182.5	1220.5	1192.5	1194.3	1178.9	1156.3	1145.5
4449.9	37.5°	3465.3	2237.6	1283.8	1160.8	1174.4	1173.5	1166.3	1140.0	1100.3	1065.9
4813.3	40°	3559.3	2195.1	1205.1	1150.9	1152.7	1163.5	1144.6	1093.9	1003.5	947.5
5182.2	42.5°	3706.7	2266.5	1188.0	1126.5	1138.2	1149.1	1112.0	994.5	930.3	896.8
5569.1	45°	3893.9	2391.3	1225.0	1091.2	1103.9	1122.9	1012.6	956.5	927.6	928.5
5952.4	47.5°	4130.7	2522.4	1293.7	1060.5	1054.2	1065.0	946.6	912.2	872.4	882.4
6320.4	50°	4404.7	2655.3	1358.8	1018.9	999.0	963.7	904.1	871.5	820.9	797.4
6675.7	52.5°	4701.2	2783.6	1385.0	968.3	939.3	898.7	875.1	835.4	773.9	735.0
7011.1	55°	4982.4	2900.3	1356.1	907.7	879.7	848.0	844.4	820.0	754.0	699.8
7309.4	57.5°	5248.2	2997.9	1283.8	846.2	819.1	800.1	824.5	812.8	729.6	660.0
7591.5	60°	5473.3	3064.8	1178.9	783.8	764.8	754.9	792.0	788.4	695.2	617.5
7844.7	62.5°	5652.3	3091.0	1063.2	724.2	719.6	701.6	746.8	746.8	651.8	575.9
8067.1	65°	5792.4	3065.7	945.7	665.4	674.4	647.3	691.6	686.2	605.7	538.8
8322.9	67.5°	5916.3	2982.5	815.5	607.5	628.3	594.0	633.8	621.1	555.1	501.8
8544.4	70°	5971.4	2789.1	667.2	549.7	575.0	541.5	575.9	552.4	498.1	462.0
8301.2	72.5°	5528.4	2318.0	525.3	489.1	510.8	483.7	513.5	486.4	436.7	420.4
7168.4	75°	4573.7	1739.4	404.1	423.1	439.4	418.6	438.5	418.6	373.4	385.1
5295.2	77.5°	3321.6	1174.4	309.2	353.5	360.7	349.9	367.1	344.5	303.8	301.1
2639.0	80°	1651.7	688.0	242.3	279.4	276.6	269.4	289.3	278.5	244.1	258.6
712.4	82.5°	478.3	294.7	176.3	196.2	190.8	192.6	207.0	212.5	318.2	315.5
221.5	85°	150.1	115.7	105.8	109.4	104.0	106.7	122.1	242.3	224.2	131.1
68.7	87.5°	38.9	39.8	26.2	28.0	28.9	34.4	38.9	147.4	70.5	46.1
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>
3084.7
2937.3
2620.9
2184.2
1845.2
1687.9
1574.9
1536.0
1524.3
1480.0
1405.8
1345.3
1288.3
1225.9
1156.3
1077.7
954.7
896.8
933.0
907.7
803.7
734.1
699.8
656.4
614.8
573.2
535.2
498.1
454.7
406.8
351.7
287.5
255.9
322.8
141.9
48.8
0.0

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