

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: P949794

Luminaire Tested: **GALN-SB4B-940-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949794  
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-SB4B-940-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

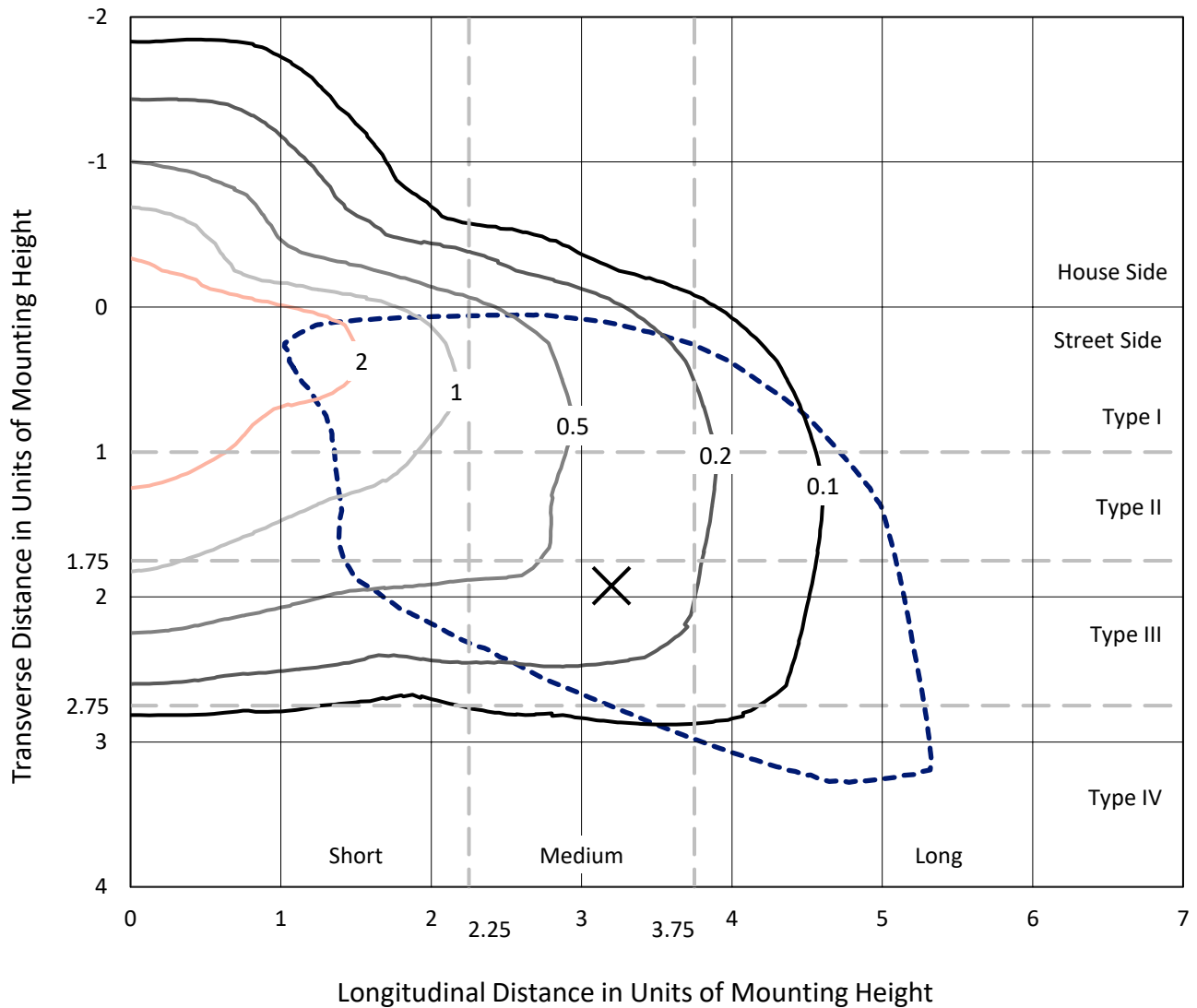
Lumens per Lamp: N/A  
Luminaire Lumens: 15983 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

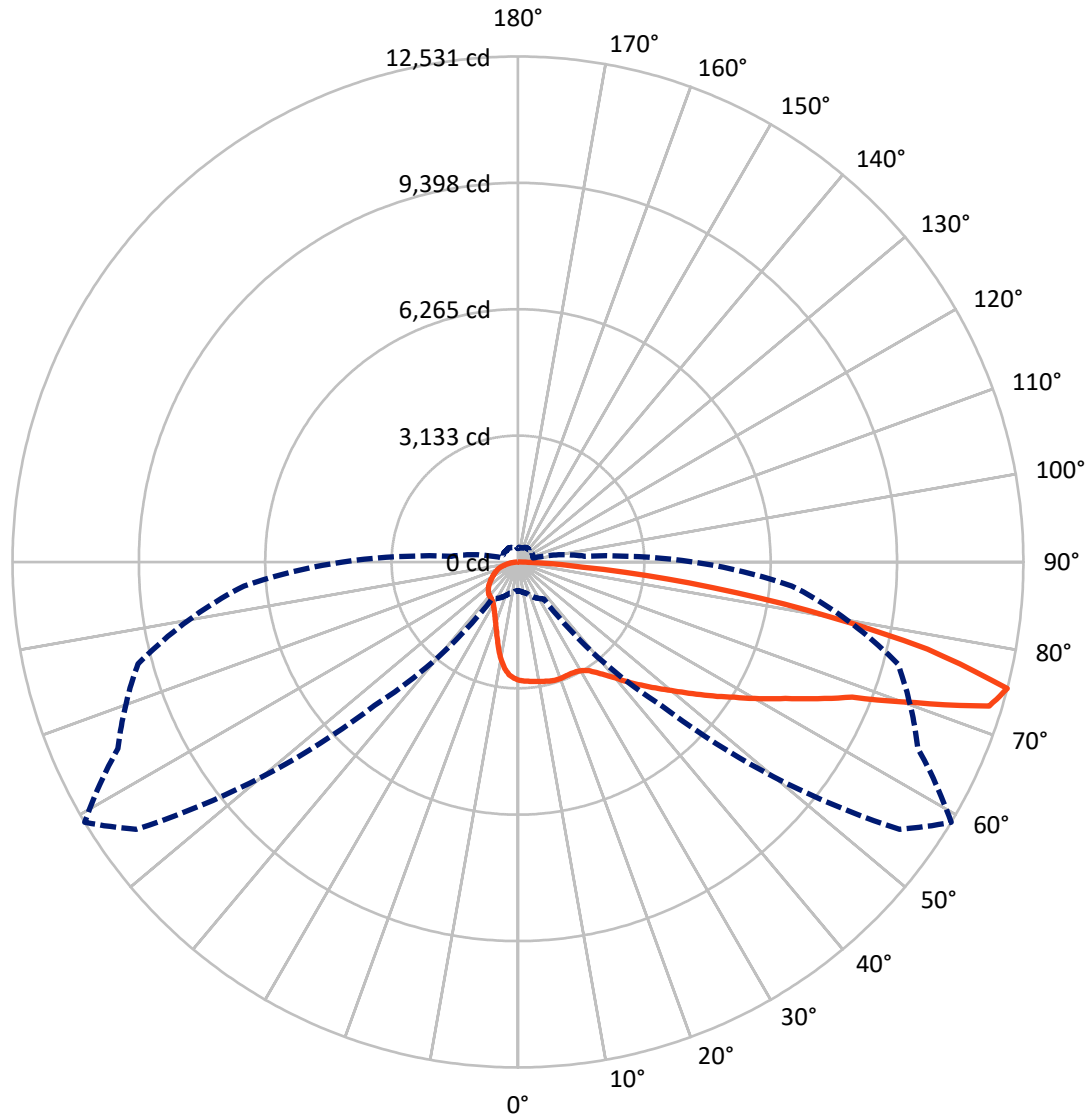
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2997.7	0.0	2997.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	12985.3	0.0	12985.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	15983.0	0.0	15983.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.0	1.6
10°-20°	672.4	4.2
20°-30°	1021.3	6.4
30°-40°	1518.1	9.5
40°-50°	2257.7	14.1
50°-60°	3064.5	19.2
60°-70°	3741.3	23.4
70°-80°	2936.1	18.4
80°-90°	508.6	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°	15983.0	100.0
0°-180°	15983.0	100.0



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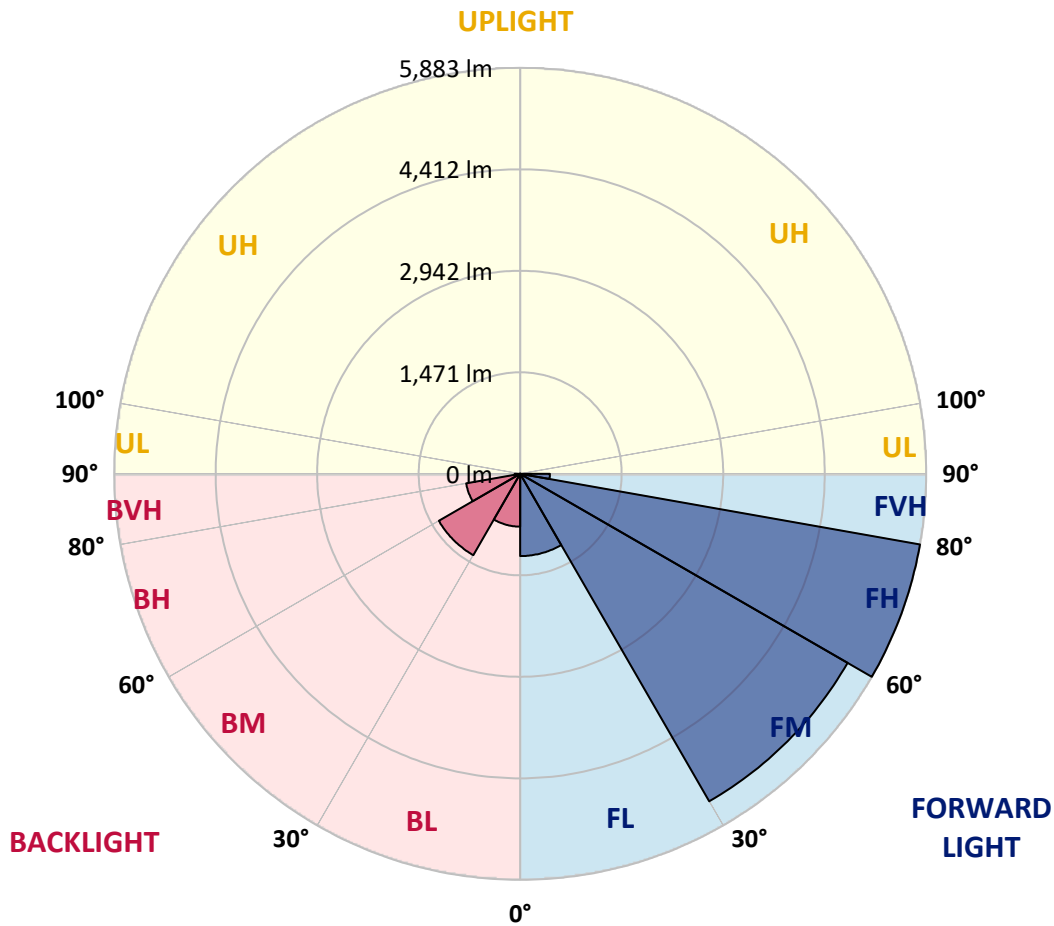
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.7	7.5			
FM (30°-60°)	5479.6	34.3			
FH (60°-80°)	5883.2	36.8			G3/7500
FVH (80°-90°)	430.8	2.7			G3/500
BL (0°-30°)	765.0	4.8	B2/1000		
BM (30°-60°)	1360.7	8.5	B2/2500		
BH (60°-80°)	794.2	5.0	B2/1000		G2/1000
BVH (80°-90°)	77.9	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°	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6
2.5°	2958.6	2948.3	2958.6	2954.3	2952.6	2949.1	2950.0	2956.0	2952.6	2956.9
5°	2938.8	2932.8	2943.1	2940.5	2951.7	2953.4	2964.6	2971.5	2975.8	2976.6
7.5°	2906.1	2900.1	2914.7	2926.8	2950.8	2957.7	2980.9	2992.1	2998.1	3008.4
10°	2786.6	2784.0	2820.2	2865.7	2922.5	2957.7	2993.0	3011.9	3021.3	3048.9
12.5°	2575.1	2578.5	2625.8	2713.5	2827.0	2940.5	3006.7	3034.2	3048.9	3083.2
15°	2373.1	2372.2	2423.8	2517.5	2676.6	2864.9	3013.6	3060.9	3085.8	3136.6
17.5°	2256.1	2252.7	2288.8	2360.2	2508.0	2748.8	2996.4	3075.5	3128.8	3192.4
20°	2234.6	2227.7	2246.7	2281.9	2386.8	2621.5	2951.7	3075.5	3163.2	3245.8
22.5°	2312.9	2301.7	2294.0	2289.7	2336.1	2516.6	2901.0	3065.2	3213.9	3322.3
25°	2470.2	2453.0	2413.5	2374.8	2361.0	2469.4	2856.3	3062.6	3289.6	3425.5
27.5°	2724.7	2703.2	2623.3	2530.4	2447.0	2493.4	2836.5	3078.1	3373.0	3534.6
30°	3040.3	3017.0	2916.4	2773.7	2624.1	2582.8	2861.4	3123.7	3479.6	3680.0
32.5°	3323.1	3297.3	3211.4	3066.1	2864.0	2737.6	2940.5	3210.5	3647.3	3882.0
35°	3574.2	3544.1	3466.7	3332.6	3158.1	2955.1	3083.2	3364.4	3885.4	4210.4
37.5°	3820.1	3784.8	3700.6	3558.7	3436.6	3244.9	3280.1	3562.2	4201.9	4609.4
40°	4095.2	4044.5	3942.2	3802.0	3683.4	3584.5	3538.9	3804.6	4523.4	5054.8
42.5°	4361.8	4313.6	4191.5	4072.0	3923.3	3894.9	3839.0	4088.4	4875.1	5544.0
45°	4648.9	4591.3	4443.5	4292.1	4198.4	4101.3	4129.6	4372.1	5219.9	6042.7
47.5°	4918.1	4853.6	4679.0	4510.5	4458.9	4274.9	4396.2	4684.2	5578.4	6548.3
50°	5063.4	4999.7	4854.4	4702.3	4661.8	4489.0	4685.1	5027.3	5954.1	7052.1
52.5°	5184.6	5115.8	4925.8	4841.5	4829.5	4722.0	5041.0	5419.3	6329.9	7497.5
55°	5313.6	5237.1	4994.6	4918.9	4974.0	4983.4	5463.2	5863.8	6727.1	7931.7
57.5°	5462.3	5365.2	5060.8	4984.3	5115.0	5289.5	5948.1	6324.7	7117.4	8334.1
60°	5602.5	5504.5	5188.0	5088.3	5267.1	5644.6	6504.4	6882.7	7559.4	8692.6
62.5°	5630.0	5549.2	5289.5	5288.6	5473.5	6059.0	7163.0	7445.9	7945.4	9046.8
65°	5153.7	5102.9	4949.0	5280.9	5769.3	6655.7	7896.4	8166.4	8436.4	9356.4
67.5°	3922.4	3929.3	3918.1	4558.7	5530.2	7512.9	8958.3	8937.6	9042.5	9703.7
70°	1793.5	1834.0	2097.1	3146.9	4430.6	7611.8	10714.0	10446.6	9803.5	10153.4
72.5°	969.0	999.9	1107.4	1524.4	2663.7	6767.5	12026.0	12216.1	10815.4	10456.1
75°	711.1	728.3	803.1	969.0	1118.6	5029.8	11555.7	12530.8	10941.8	9750.2
77.5°	532.2	540.0	601.0	767.8	572.6	2651.6	9233.4	10377.8	9366.7	8010.8
80°	386.1	394.6	440.2	576.1	401.5	969.9	6340.2	7284.2	6415.0	5106.4
82.5°	266.5	270.0	289.8	392.1	280.3	376.6	3597.4	4271.5	3581.1	1791.8
85°	160.8	165.1	173.7	228.7	159.1	178.8	1552.8	1606.1	1070.5	428.2
87.5°	66.2	70.5	77.4	96.3	62.8	49.9	256.2	321.6	200.3	125.5
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°
2933.6	0°	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6
2942.2	2.5°	2937.9	2931.9	2915.6	2893.2	2872.6	2846.8	2835.6	2826.2	2817.6	2801.2
2965.5	5°	2956.0	2939.7	2895.8	2839.1	2774.6	2704.1	2635.3	2588.0	2547.6	2517.5
2992.1	7.5°	2983.5	2952.6	2872.6	2756.5	2608.6	2457.3	2320.6	2223.4	2150.4	2123.7
3029.9	10°	3011.9	2974.9	2835.6	2631.0	2375.6	2142.6	1961.2	1861.5	1803.0	1784.1
3074.7	12.5°	3045.4	2991.3	2778.0	2456.5	2115.1	1859.8	1701.5	1643.1	1613.0	1602.7
3129.7	15°	3094.4	3005.0	2691.2	2238.1	1866.6	1653.4	1551.1	1510.7	1495.2	1494.3
3186.4	17.5°	3131.4	3007.6	2556.2	2004.2	1675.8	1528.7	1444.5	1429.0	1439.3	1454.8
3242.3	20°	3172.7	2984.4	2379.1	1791.0	1541.6	1419.5	1384.3	1394.6	1419.5	1441.9
3316.3	22.5°	3201.9	2942.2	2165.0	1625.0	1425.6	1356.8	1355.0	1376.5	1390.3	1401.5
3403.1	25°	3227.7	2870.9	1938.0	1485.7	1330.1	1318.9	1337.9	1331.0	1321.5	1331.0
3489.9	27.5°	3246.6	2758.2	1735.1	1363.6	1263.0	1293.1	1282.0	1266.5	1265.6	1270.8
3592.3	30°	3240.6	2607.8	1568.3	1247.6	1215.8	1245.0	1218.3	1215.8	1213.2	1215.8
3746.2	32.5°	3240.6	2436.7	1440.2	1167.6	1185.7	1174.5	1171.9	1165.9	1155.6	1154.7
3955.1	35°	3258.6	2265.6	1330.1	1124.6	1160.7	1134.1	1135.8	1121.2	1099.7	1089.4
4231.9	37.5°	3295.6	2128.0	1220.9	1104.0	1116.9	1116.0	1109.1	1084.2	1046.4	1013.7
4577.6	40°	3385.0	2087.6	1146.1	1094.5	1096.2	1106.6	1088.5	1040.4	954.4	901.1
4928.4	42.5°	3525.2	2155.5	1129.8	1071.3	1082.5	1092.8	1057.6	945.8	884.7	852.9
5296.4	45°	3703.2	2274.2	1165.0	1037.8	1049.8	1067.9	963.0	909.7	882.2	883.0
5660.9	47.5°	3928.4	2398.8	1230.4	1008.5	1002.5	1012.8	900.2	867.5	829.7	839.2
6010.9	50°	4189.0	2525.2	1292.3	969.0	950.1	916.5	859.8	828.8	780.7	758.3
6348.8	52.5°	4471.0	2647.3	1317.2	920.8	893.3	854.6	832.3	794.5	736.0	699.0
6667.8	55°	4738.4	2758.2	1289.7	863.2	836.6	806.5	803.1	779.8	717.1	665.5
6951.5	57.5°	4991.1	2851.1	1220.9	804.8	779.0	760.9	784.1	773.0	693.9	627.7
7219.8	60°	5205.2	2914.7	1121.2	745.4	727.4	717.9	753.2	749.7	661.2	587.2
7460.5	62.5°	5375.5	2939.7	1011.1	688.7	684.4	667.2	710.2	710.2	619.9	547.7
7672.0	65°	5508.8	2915.6	899.4	632.8	641.4	615.6	657.7	652.6	576.1	512.4
7915.3	67.5°	5626.5	2836.5	775.5	577.8	597.6	564.9	602.7	590.7	527.9	477.2
8126.0	70°	5679.0	2652.5	634.5	522.8	546.8	515.0	547.7	525.3	473.8	439.4
7894.7	72.5°	5257.7	2204.5	499.5	465.2	485.8	460.0	488.4	462.6	415.3	399.8
6817.4	75°	4349.7	1654.3	384.3	402.4	417.9	398.1	417.0	398.1	355.1	366.3
5035.9	77.5°	3158.9	1116.9	294.1	336.2	343.1	332.7	349.1	327.6	288.9	286.3
2509.8	80°	1570.9	654.3	230.4	265.7	263.1	256.2	275.1	264.8	232.1	245.9
677.5	82.5°	454.8	280.3	167.7	186.6	181.4	183.1	196.9	202.1	302.7	300.1
210.7	85°	142.7	110.1	100.6	104.0	98.9	101.5	116.1	230.4	213.2	124.7
65.3	87.5°	37.0	37.8	24.9	26.7	27.5	32.7	37.0	140.1	67.1	43.8
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>
2933.6
2793.5
2492.6
2077.3
1754.9
1605.3
1497.8
1460.8
1449.6
1407.5
1337.0
1279.4
1225.2
1165.9
1099.7
1024.9
908.0
852.9
887.3
863.2
764.4
698.2
665.5
624.2
584.7
545.1
509.0
473.8
432.5
386.9
334.5
273.4
243.3
306.9
135.0
46.4
0.0

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