

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: P950865

Luminaire Tested: **GALN-SB5A-940-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950865  
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-SB5A-940-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

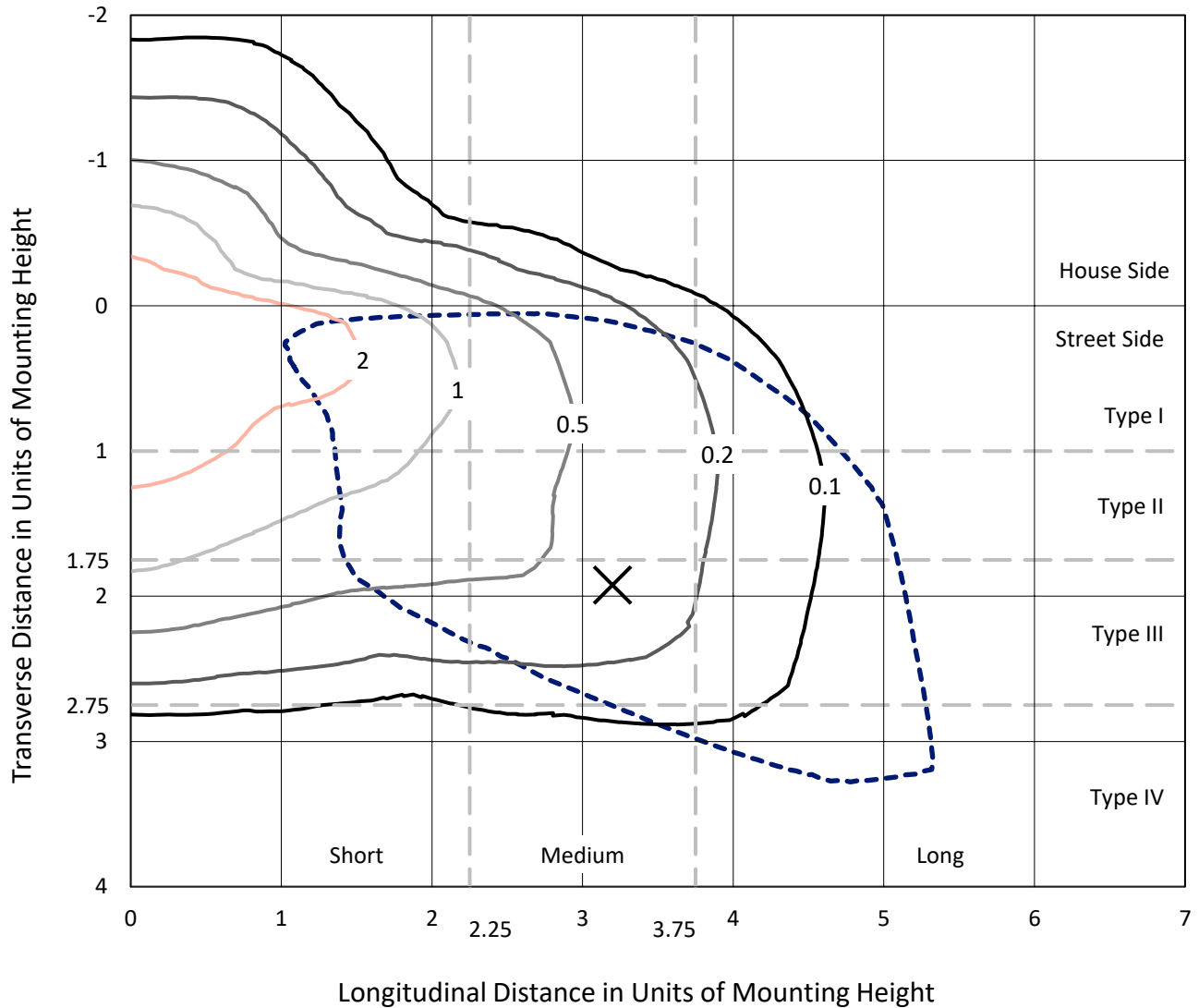
Lumens per Lamp: N/A  
Luminaire Lumens: 16048 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

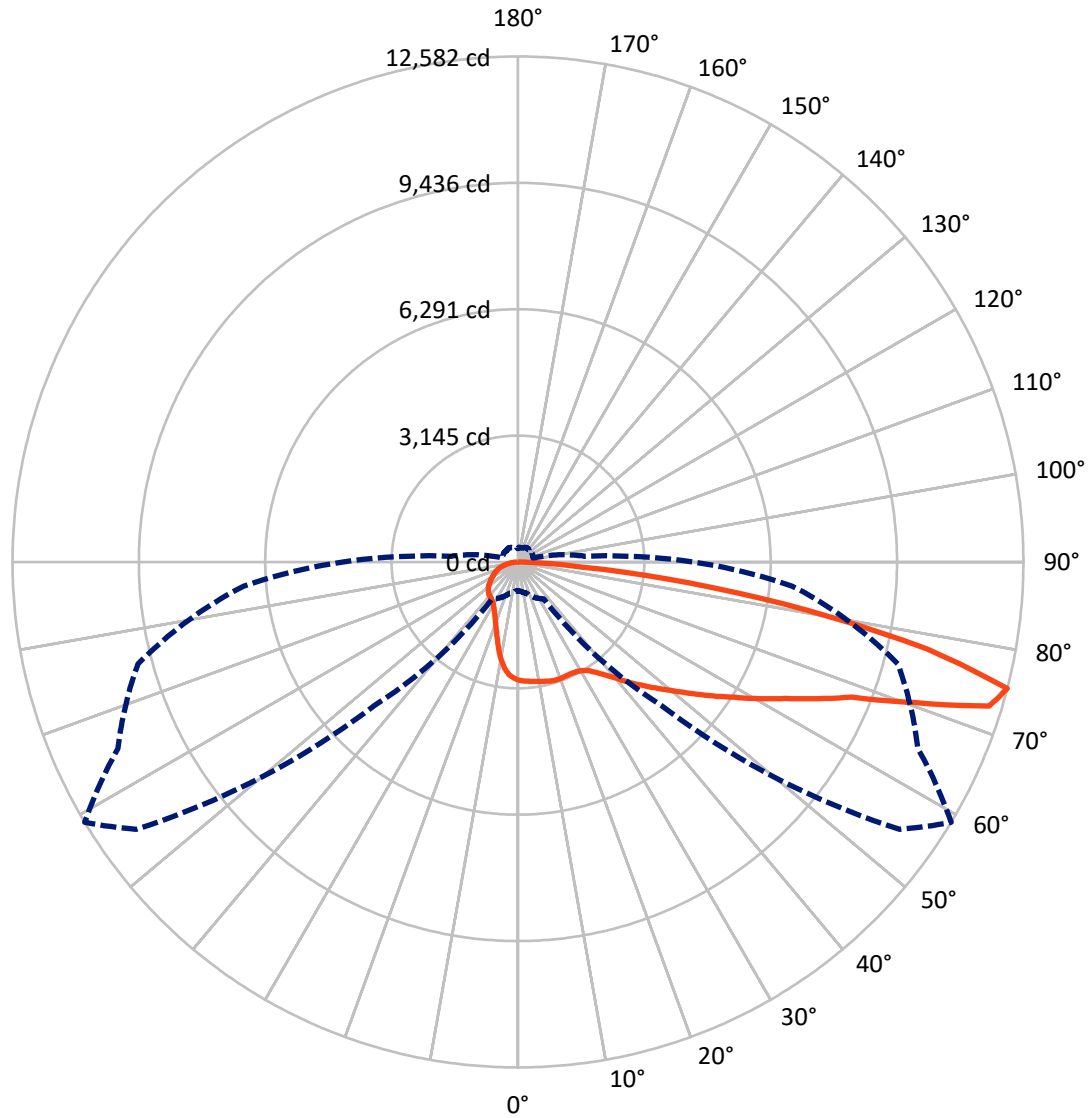
✕ Max cd  
 - - - 1/2 Max cd



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	3009.9	0.0	3009.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	13038.1	0.0	13038.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	16048.0	0.0	16048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.1	1.6
10°-20°	675.1	4.2
20°-30°	1025.4	6.4
30°-40°	1524.3	9.5
40°-50°	2266.9	14.1
50°-60°	3077.0	19.2
60°-70°	3756.5	23.4
70°-80°	2948.1	18.4
80°-90°	510.7	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°	16048.0	100.0
0°-180°	16048.0	100.0

**Coefficient of Utilization**



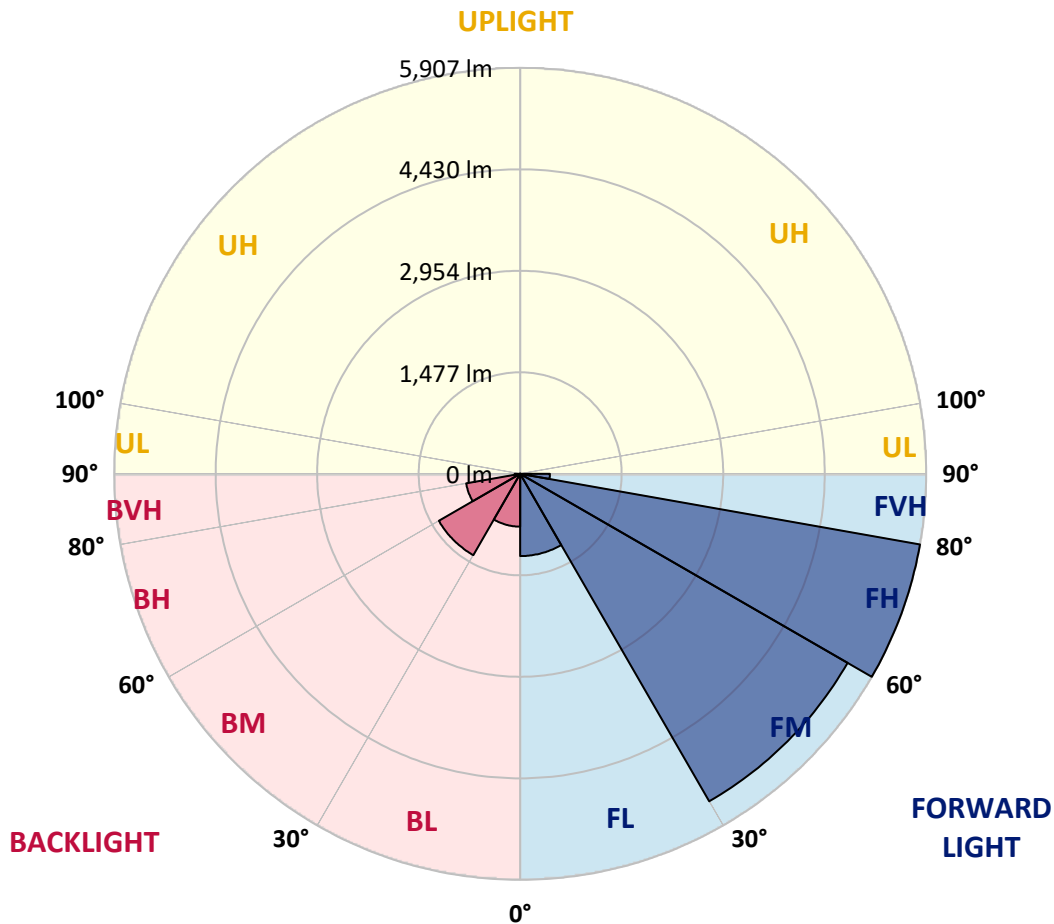
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.6	7.5			
FM (30°-60°)	5501.9	34.3			
FH (60°-80°)	5907.1	36.8			G3/7500
FVH (80°-90°)	432.5	2.7			G3/500
BL (0°-30°)	768.1	4.8	B2/1000		
BM (30°-60°)	1366.2	8.5	B2/2500		
BH (60°-80°)	797.4	5.0	B2/1000		G2/1000
BVH (80°-90°)	78.2	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°	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6
2.5°	2970.6	2960.3	2970.6	2966.3	2964.6	2961.1	2962.0	2968.0	2964.6	2968.9
5°	2950.8	2944.7	2955.1	2952.5	2963.7	2965.4	2976.7	2983.6	2987.9	2988.7
7.5°	2917.9	2911.9	2926.6	2938.7	2962.8	2969.7	2993.1	3004.3	3010.3	3020.7
10°	2798.0	2795.4	2831.6	2877.4	2934.4	2969.7	3005.1	3024.1	3033.6	3061.3
12.5°	2585.6	2589.0	2636.5	2724.6	2838.5	2952.5	3019.0	3046.6	3061.3	3095.8
15°	2382.7	2381.8	2433.6	2527.7	2687.4	2876.5	3025.9	3073.3	3098.4	3149.3
17.5°	2265.3	2261.8	2298.1	2369.8	2518.2	2760.0	3008.6	3088.0	3141.5	3205.4
20°	2243.7	2236.8	2255.8	2291.2	2396.5	2632.2	2963.7	3088.0	3176.1	3259.0
22.5°	2322.3	2311.1	2303.3	2299.0	2345.6	2526.9	2912.8	3077.7	3227.0	3335.8
25°	2480.3	2463.0	2423.3	2384.4	2370.6	2479.4	2867.9	3075.1	3303.0	3439.4
27.5°	2735.8	2714.2	2633.9	2540.7	2456.9	2503.6	2848.0	3090.6	3386.7	3549.0
30°	3052.6	3029.3	2928.3	2785.0	2634.8	2593.3	2873.1	3136.4	3493.8	3694.9
32.5°	3336.6	3310.7	3224.4	3078.5	2875.6	2748.7	2952.5	3223.6	3662.1	3897.8
35°	3588.7	3558.5	3480.8	3346.1	3170.9	2967.2	3095.8	3378.1	3901.2	4227.6
37.5°	3835.6	3800.2	3715.6	3573.2	3450.6	3258.1	3293.5	3576.6	4218.9	4628.1
40°	4111.9	4061.0	3958.2	3817.5	3698.4	3599.1	3553.3	3820.1	4541.8	5075.3
42.5°	4379.5	4331.2	4208.6	4088.6	3939.2	3910.7	3854.6	4105.0	4894.9	5566.5
45°	4667.9	4610.0	4461.5	4309.6	4215.5	4117.9	4146.4	4389.9	5241.1	6067.3
47.5°	4938.1	4873.3	4698.1	4528.9	4477.1	4292.3	4414.0	4703.3	5601.1	6574.9
50°	5084.0	5020.1	4874.2	4721.4	4680.8	4507.3	4704.1	5047.7	5978.3	7080.8
52.5°	5205.7	5136.6	4945.8	4861.2	4849.1	4741.2	5061.5	5441.4	6355.6	7528.0
55°	5335.2	5258.4	5014.9	4938.9	4994.2	5003.7	5485.4	5887.7	6754.4	7963.9
57.5°	5484.5	5387.0	5081.4	5004.5	5135.8	5311.0	5972.3	6350.4	7146.4	8368.0
60°	5625.3	5526.8	5209.1	5109.0	5288.6	5667.6	6530.9	6910.7	7590.1	8727.9
62.5°	5652.9	5571.7	5311.0	5310.1	5495.8	6083.7	7192.1	7476.2	7977.7	9083.6
65°	5174.6	5123.7	4969.1	5302.4	5792.7	6682.8	7928.5	8199.6	8470.7	9394.4
67.5°	3938.4	3945.3	3934.1	4577.2	5552.7	7543.5	8994.7	8974.0	9079.3	9743.2
70°	1800.8	1841.4	2105.6	3159.7	4448.6	7642.8	10757.6	10489.1	9843.3	10194.7
72.5°	972.9	1004.0	1111.9	1530.6	2674.5	6795.0	12075.0	12265.7	10859.4	10498.6
75°	713.9	731.2	806.3	972.9	1123.2	5050.3	11602.7	12581.7	10986.3	9789.8
77.5°	534.4	542.2	603.4	770.9	575.0	2662.4	9271.0	10420.0	9404.8	8043.4
80°	387.6	396.3	442.0	578.4	403.2	973.8	6366.0	7313.9	6441.1	5127.1
82.5°	267.6	271.1	290.9	393.7	281.4	378.1	3612.0	4288.9	3595.6	1799.1
85°	161.4	165.8	174.4	229.6	159.7	179.6	1559.1	1612.6	1074.8	429.9
87.5°	66.5	70.8	77.7	96.7	63.0	50.1	257.3	322.9	201.1	126.0
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°
2945.6	0°	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6
2954.2	2.5°	2949.9	2943.8	2927.4	2905.0	2884.3	2858.4	2847.2	2837.7	2829.0	2812.6
2977.5	5°	2968.0	2951.6	2907.6	2850.6	2785.9	2715.1	2646.0	2598.5	2558.0	2527.7
3004.3	7.5°	2995.6	2964.6	2884.3	2767.7	2619.2	2467.3	2330.0	2232.5	2159.1	2132.3
3042.3	10°	3024.1	2987.0	2847.2	2641.7	2385.3	2151.3	1969.2	1869.0	1810.3	1791.3
3087.2	12.5°	3057.8	3003.4	2789.3	2466.4	2123.7	1867.3	1708.5	1649.8	1619.5	1609.2
3142.4	15°	3107.0	3017.2	2702.1	2247.2	1874.2	1660.1	1557.4	1516.8	1501.3	1500.4
3199.4	17.5°	3144.1	3019.8	2566.6	2012.3	1682.6	1534.9	1450.3	1434.8	1445.2	1460.7
3255.5	20°	3185.6	2996.5	2388.7	1798.3	1547.9	1425.3	1389.9	1400.3	1425.3	1447.8
3329.7	22.5°	3214.9	2954.2	2173.8	1631.6	1431.3	1362.3	1360.6	1382.1	1396.0	1407.2
3416.9	25°	3240.8	2882.6	1945.9	1491.8	1335.5	1324.3	1343.3	1336.4	1326.9	1336.4
3504.1	27.5°	3259.8	2769.5	1742.1	1369.2	1268.2	1298.4	1287.2	1271.6	1270.8	1276.0
3606.9	30°	3253.8	2618.4	1574.7	1252.6	1220.7	1250.1	1223.3	1220.7	1218.1	1220.7
3761.4	32.5°	3253.8	2446.6	1446.0	1172.4	1190.5	1179.3	1176.7	1170.6	1160.3	1159.4
3971.2	35°	3271.9	2274.8	1335.5	1129.2	1165.5	1138.7	1140.4	1125.7	1104.2	1093.8
4249.2	37.5°	3309.0	2136.7	1225.9	1108.5	1121.4	1120.6	1113.7	1088.6	1050.6	1017.8
4596.2	40°	3398.8	2096.1	1150.8	1099.0	1100.7	1111.1	1092.9	1044.6	958.3	904.7
4948.4	42.5°	3539.5	2164.3	1134.4	1075.7	1086.9	1097.3	1061.9	949.6	888.3	856.4
5317.9	45°	3718.2	2283.4	1169.8	1042.0	1054.1	1072.2	966.9	913.4	885.7	886.6
5684.0	47.5°	3944.4	2408.6	1235.4	1012.6	1006.6	1017.0	903.9	871.1	833.1	842.6
6035.3	50°	4206.0	2535.5	1297.5	972.9	953.9	920.3	863.3	832.2	783.9	761.4
6374.6	52.5°	4489.2	2658.1	1322.6	924.6	897.0	858.1	835.7	797.7	739.0	701.9
6694.9	55°	4757.6	2769.5	1294.9	866.8	840.0	809.8	806.3	783.0	720.0	668.2
6979.8	57.5°	5011.4	2862.7	1225.9	808.0	782.1	764.0	787.3	776.1	696.7	630.2
7249.1	60°	5226.4	2926.6	1125.7	748.5	730.4	720.9	756.2	752.8	663.9	589.6
7490.8	62.5°	5397.3	2951.6	1015.2	691.5	687.2	669.9	713.1	713.1	622.4	549.9
7703.2	65°	5531.2	2927.4	903.0	635.4	644.0	618.1	660.4	655.2	578.4	514.5
7947.5	67.5°	5649.4	2848.0	778.7	580.1	600.0	567.2	605.2	593.1	530.1	479.1
8159.0	70°	5702.1	2663.3	637.1	524.9	549.1	517.1	549.9	527.5	475.7	441.1
7926.8	72.5°	5279.1	2213.5	501.6	467.0	487.8	461.9	490.4	464.5	417.0	401.4
6845.1	75°	4367.4	1661.0	385.9	404.0	419.6	399.7	418.7	399.7	356.5	367.8
5056.3	77.5°	3171.8	1121.4	295.2	337.5	344.5	334.1	350.5	328.9	290.1	287.5
2520.0	80°	1577.2	657.0	231.4	266.8	264.2	257.3	276.3	265.9	233.1	246.9
680.3	82.5°	456.7	281.4	168.3	187.3	182.2	183.9	197.7	202.9	303.9	301.3
211.5	85°	143.3	110.5	101.0	104.5	99.3	101.9	116.5	231.4	214.1	125.2
65.6	87.5°	37.1	38.0	25.0	26.8	27.6	32.8	37.1	140.7	67.3	44.0
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>
2945.6
2804.9
2502.7
2085.7
1762.0
1611.8
1503.9
1466.7
1455.5
1413.2
1342.4
1284.6
1230.2
1170.6
1104.2
1029.1
911.6
856.4
890.9
866.8
767.5
701.0
668.2
626.8
587.0
547.3
511.1
475.7
434.2
388.5
335.8
274.5
244.3
308.2
135.5
46.6
0.0

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