

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: P949269

Luminaire Tested: **GALN-SB4A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949269
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-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 15279 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

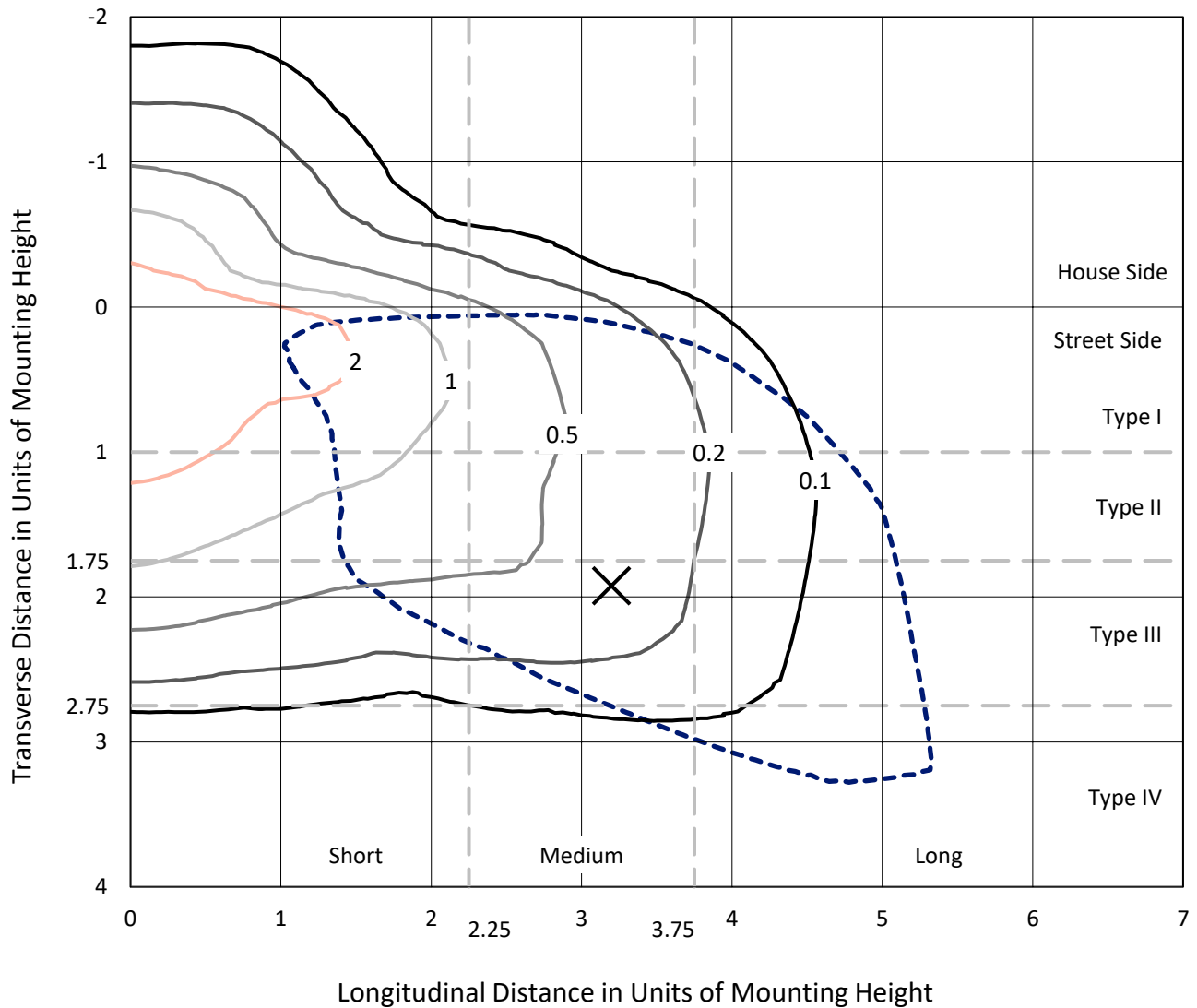
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

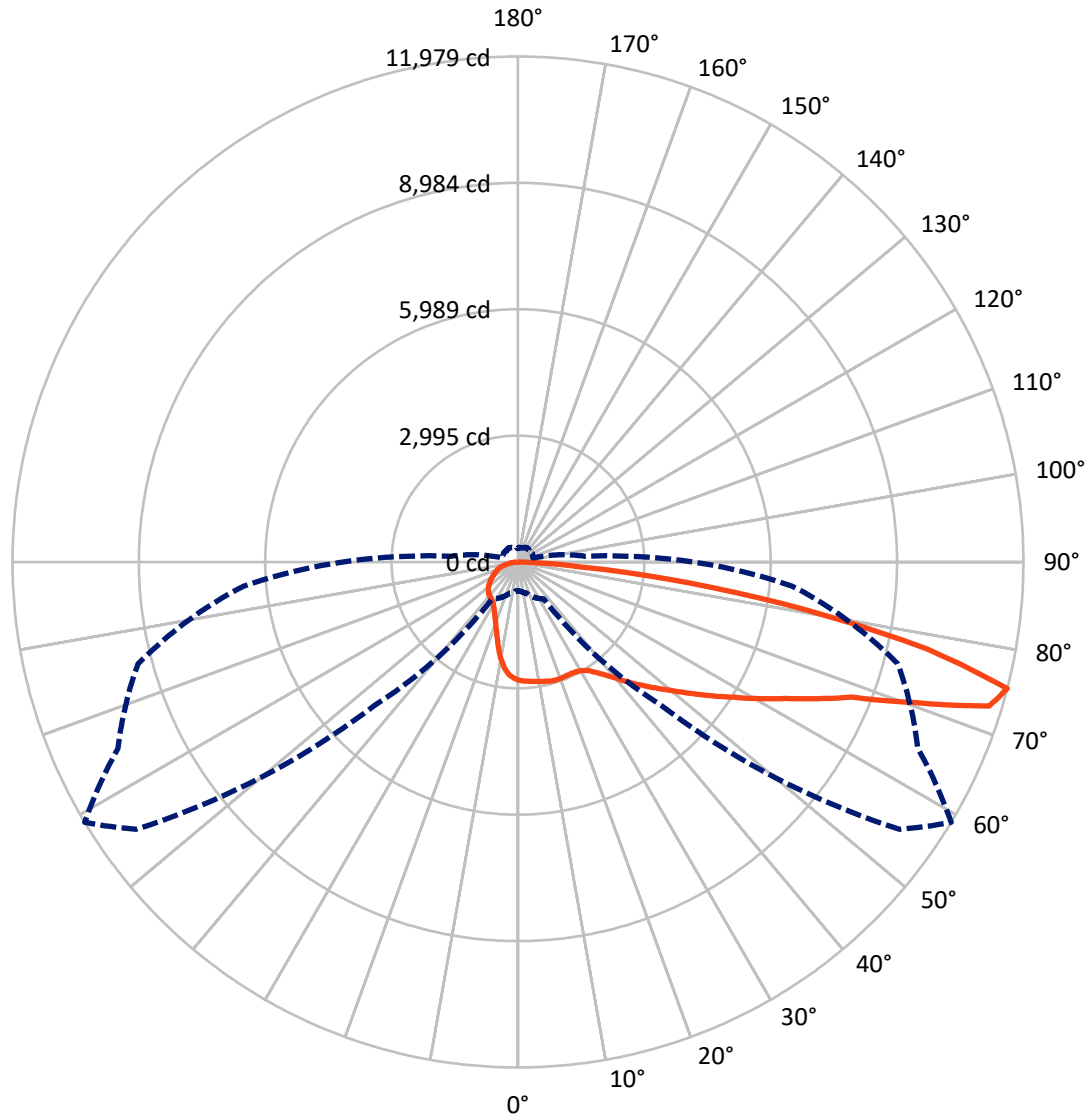
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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
House Side	Lumens	2865.7	0.0	2865.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12413.3	0.0	12413.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	15279.0	0.0	15279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	1.6
10°-20°	642.8	4.2
20°-30°	976.3	6.4
30°-40°	1451.2	9.5
40°-50°	2158.2	14.1
50°-60°	2929.5	19.2
60°-70°	3576.5	23.4
70°-80°	2806.8	18.4
80°-90°	486.2	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°	15279.0	100.0
0°-180°	15279.0	100.0

Coefficient of Utilization



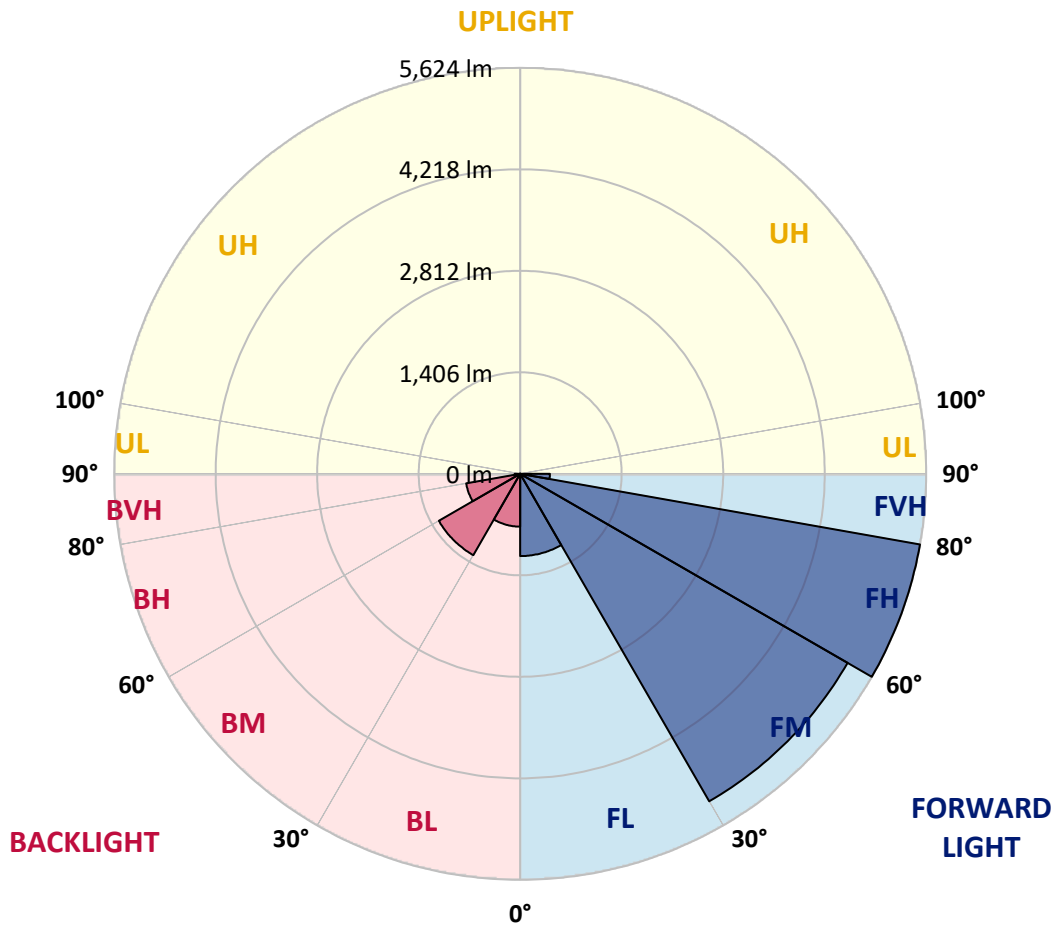
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.2	7.5			
FM (30°-60°)	5238.3	34.3			
FH (60°-80°)	5624.0	36.8			G3/7500
FVH (80°-90°)	411.8	2.7			G3/500
BL (0°-30°)	731.3	4.8	B2/1000		
BM (30°-60°)	1300.7	8.5	B2/2500		
BH (60°-80°)	759.2	5.0	B2/1000		G2/1000
BVH (80°-90°)	74.4	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°	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4
2.5°	2828.3	2818.4	2828.3	2824.2	2822.5	2819.2	2820.0	2825.8	2822.5	2826.6
5°	2809.4	2803.6	2813.5	2811.0	2821.7	2823.3	2834.0	2840.6	2844.7	2845.5
7.5°	2778.1	2772.4	2786.3	2797.9	2820.9	2827.4	2849.6	2860.3	2866.1	2875.9
10°	2663.9	2661.4	2695.9	2739.5	2793.7	2827.4	2861.1	2879.2	2888.3	2914.6
12.5°	2461.7	2465.0	2510.2	2594.0	2702.5	2811.0	2874.3	2900.6	2914.6	2947.4
15°	2268.5	2267.7	2317.0	2406.6	2558.7	2738.7	2880.9	2926.1	2949.9	2998.4
17.5°	2156.7	2153.5	2188.0	2256.2	2397.6	2627.7	2864.4	2940.0	2991.0	3051.8
20°	2136.2	2129.6	2147.7	2181.4	2281.7	2506.1	2821.7	2940.0	3023.9	3102.8
22.5°	2211.0	2200.3	2192.9	2188.8	2233.2	2405.8	2773.2	2930.2	3072.4	3175.9
25°	2361.4	2345.0	2307.2	2270.2	2257.0	2360.6	2730.5	2927.7	3144.7	3274.6
27.5°	2604.7	2584.1	2507.7	2418.9	2339.2	2383.6	2711.5	2942.5	3224.4	3379.0
30°	2906.3	2884.2	2788.0	2651.5	2508.5	2469.1	2735.4	2986.1	3326.4	3517.9
32.5°	3176.8	3152.1	3069.9	2931.0	2737.9	2617.0	2811.0	3069.1	3486.6	3711.0
35°	3416.8	3388.0	3314.0	3185.8	3019.0	2825.0	2947.4	3216.2	3714.3	4025.0
37.5°	3651.8	3618.1	3537.6	3402.0	3285.3	3102.0	3135.7	3405.3	4016.8	4406.4
40°	3914.9	3866.4	3768.6	3634.6	3521.1	3426.6	3383.1	3637.0	4324.2	4832.1
42.5°	4169.7	4123.6	4006.9	3892.7	3750.5	3723.3	3669.9	3908.3	4660.3	5299.8
45°	4444.2	4389.1	4247.7	4103.1	4013.5	3920.6	3947.7	4179.5	4989.9	5776.5
47.5°	4701.4	4639.8	4472.9	4311.8	4262.5	4086.6	4202.5	4477.9	5332.7	6259.8
50°	4840.3	4779.5	4640.6	4495.1	4456.5	4291.3	4478.7	4805.8	5691.9	6741.5
52.5°	4956.2	4890.5	4708.8	4628.3	4616.8	4514.0	4819.0	5180.6	6051.1	7167.2
55°	5079.5	5006.4	4774.6	4702.3	4754.9	4763.9	5222.5	5605.6	6430.8	7582.3
57.5°	5221.7	5128.8	4837.9	4764.7	4889.7	5056.5	5686.1	6046.1	6803.9	7967.0
60°	5355.7	5262.0	4959.5	4864.2	5035.1	5396.0	6217.9	6579.6	7226.4	8309.7
62.5°	5382.0	5304.7	5056.5	5055.7	5232.4	5792.1	6847.5	7117.9	7595.5	8648.4
65°	4926.7	4878.2	4731.0	5048.3	5515.2	6362.6	7548.6	7806.7	8064.8	8944.2
67.5°	3749.6	3756.2	3745.5	4357.9	5286.7	7182.0	8563.7	8544.0	8644.2	9276.3
70°	1714.5	1753.2	2004.7	3008.3	4235.4	7276.5	10242.1	9986.5	9371.7	9706.2
72.5°	926.3	955.9	1058.6	1457.3	2546.3	6469.4	11496.3	11678.0	10339.1	9995.5
75°	679.7	696.2	767.7	926.3	1069.3	4808.3	11046.7	11978.8	10459.9	9320.7
77.5°	508.8	516.2	574.5	734.0	547.4	2534.8	8826.7	9920.7	8954.1	7657.9
80°	369.0	377.3	420.8	550.7	383.8	927.1	6060.9	6963.4	6132.4	4881.4
82.5°	254.8	258.1	277.0	374.8	267.9	360.0	3439.0	4083.4	3423.3	1712.9
85°	153.7	157.8	166.0	218.6	152.1	171.0	1484.4	1535.4	1023.3	409.3
87.5°	63.3	67.4	74.0	92.1	60.0	47.7	244.9	307.4	191.5	120.0
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°
2804.4	0°	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4
2812.6	2.5°	2808.5	2802.8	2787.2	2765.8	2746.1	2721.4	2710.7	2701.7	2693.5	2677.8
2834.8	5°	2825.8	2810.2	2768.3	2714.0	2652.4	2585.0	2519.2	2474.0	2435.4	2406.6
2860.3	7.5°	2852.1	2822.5	2746.1	2635.1	2493.7	2349.1	2218.4	2125.5	2055.6	2030.2
2896.5	10°	2879.2	2843.9	2710.7	2515.1	2271.0	2048.3	1874.8	1779.5	1723.6	1705.5
2939.2	12.5°	2911.3	2859.5	2655.7	2348.3	2021.9	1777.8	1626.6	1570.7	1541.9	1532.1
2991.8	15°	2958.1	2872.6	2572.6	2139.5	1784.4	1580.6	1482.8	1444.1	1429.3	1428.5
3046.1	17.5°	2993.5	2875.1	2443.6	1915.9	1601.9	1461.4	1380.8	1366.0	1375.9	1390.7
3099.5	20°	3032.9	2852.9	2274.3	1712.1	1473.7	1357.0	1323.3	1333.2	1357.0	1378.4
3170.2	22.5°	3060.9	2812.6	2069.6	1553.4	1362.8	1297.0	1295.4	1315.9	1329.1	1339.7
3253.2	25°	3085.5	2744.4	1852.6	1420.3	1271.5	1260.8	1278.9	1272.3	1263.3	1272.3
3336.2	27.5°	3103.6	2636.8	1658.7	1303.6	1207.4	1236.2	1225.5	1210.7	1209.9	1214.8
3434.0	30°	3097.9	2492.9	1499.2	1192.6	1162.2	1190.2	1164.7	1162.2	1159.7	1162.2
3581.2	32.5°	3097.9	2329.4	1376.7	1116.2	1133.4	1122.8	1120.3	1114.5	1104.7	1103.9
3780.9	35°	3115.1	2165.8	1271.5	1075.1	1109.6	1084.1	1085.8	1071.8	1051.2	1041.4
4045.5	37.5°	3150.5	2034.3	1167.1	1055.4	1067.7	1066.9	1060.3	1036.5	1000.3	969.1
4376.0	40°	3235.9	1995.6	1095.6	1046.3	1048.0	1057.8	1040.6	994.5	912.3	861.4
4711.3	42.5°	3369.9	2060.6	1080.0	1024.1	1034.8	1044.7	1011.0	904.1	845.8	815.4
5063.1	45°	3540.1	2174.0	1113.7	992.1	1003.6	1020.8	920.6	869.6	843.3	844.1
5411.6	47.5°	3755.4	2293.2	1176.2	964.1	958.4	968.2	860.6	829.3	793.2	802.2
5746.1	50°	4004.4	2414.0	1235.4	926.3	908.2	876.2	821.9	792.3	746.3	724.9
6069.1	52.5°	4274.0	2530.7	1259.2	880.3	854.0	817.0	795.6	759.5	703.6	668.2
6374.1	55°	4529.7	2636.8	1232.9	825.2	799.7	771.0	767.7	745.5	685.5	636.2
6645.3	57.5°	4771.3	2725.5	1167.1	769.3	744.7	727.4	749.6	738.9	663.3	600.0
6901.7	60°	4976.0	2786.3	1071.8	712.6	695.4	686.3	720.0	716.7	632.1	561.4
7131.9	62.5°	5138.7	2810.2	966.6	658.4	654.3	637.8	678.9	678.9	592.6	523.6
7334.1	65°	5266.1	2787.2	859.7	604.9	613.2	588.5	628.8	623.8	550.7	489.9
7566.7	67.5°	5378.7	2711.5	741.4	552.3	571.2	540.0	576.2	564.7	504.7	456.2
7768.1	70°	5428.9	2535.7	606.6	499.7	522.7	492.3	523.6	502.2	452.9	420.0
7547.0	72.5°	5026.1	2107.4	477.5	444.7	464.4	439.7	466.9	442.2	397.0	382.2
6517.1	75°	4158.1	1581.4	367.4	384.7	399.5	380.6	398.6	380.6	339.5	350.1
4814.0	77.5°	3019.8	1067.7	281.1	321.4	328.0	318.1	333.7	313.2	276.2	273.7
2399.2	80°	1501.7	625.5	220.3	254.0	251.5	244.9	263.0	253.2	221.9	235.1
647.7	82.5°	434.8	267.9	160.3	178.4	173.4	175.1	188.2	193.2	289.3	286.9
201.4	85°	136.4	105.2	96.2	99.5	94.5	97.0	111.0	220.3	203.8	119.2
62.5	87.5°	35.3	36.2	23.8	25.5	26.3	31.2	35.3	134.0	64.1	41.9
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>
2804.4
2670.5
2382.8
1985.8
1677.6
1534.5
1431.8
1396.5
1385.8
1345.5
1278.1
1223.0
1171.3
1114.5
1051.2
979.7
868.0
815.4
848.2
825.2
730.7
667.4
636.2
596.7
558.9
521.1
486.6
452.9
413.4
369.9
319.7
261.4
232.6
293.4
129.0
44.4
0.0

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