

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: P948628

Luminaire Tested: **GALN-SB3C-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22065 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

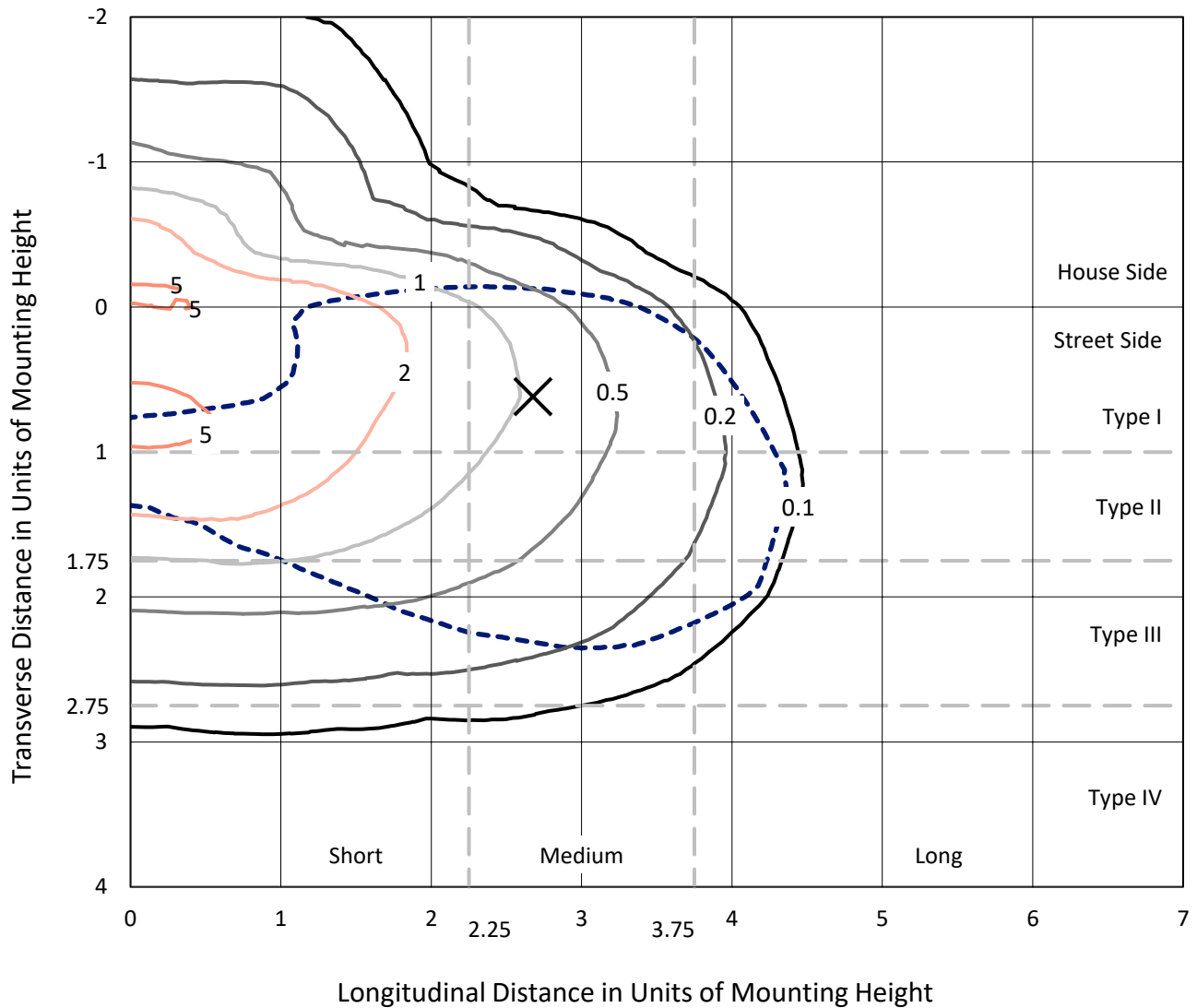
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

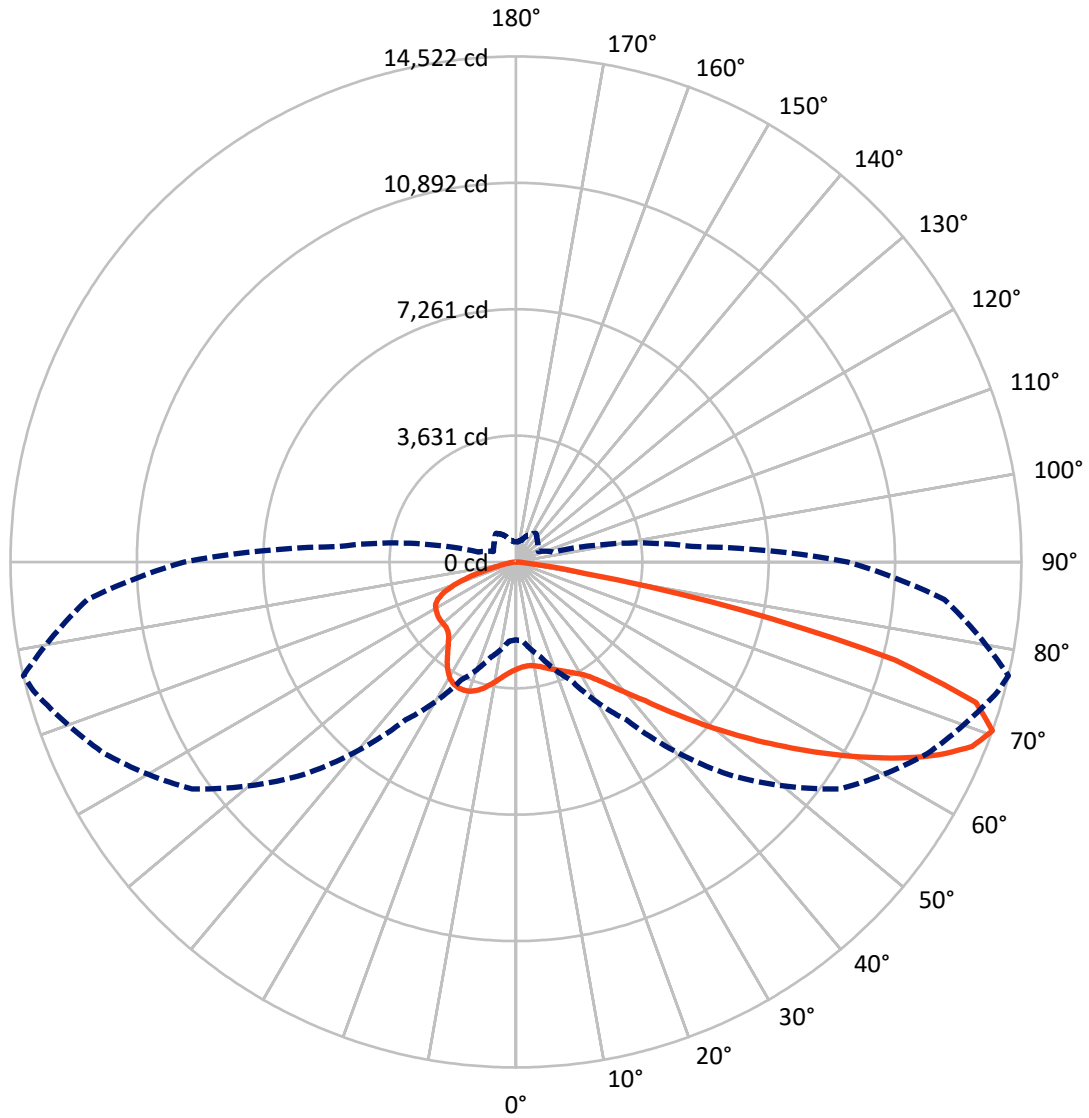
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4831.9	0.0	4831.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	17233.1	0.0	17233.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	22065.0	0.0	22065.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	1.3
10°-20°	847.3	3.8
20°-30°	1449.0	6.6
30°-40°	2330.2	10.6
40°-50°	3638.0	16.5
50°-60°	4859.5	22.0
60°-70°	5179.5	23.5
70°-80°	3188.5	14.5
80°-90°	279.4	1.3
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°	22065.0	100.0
0°-180°	22065.0	100.0



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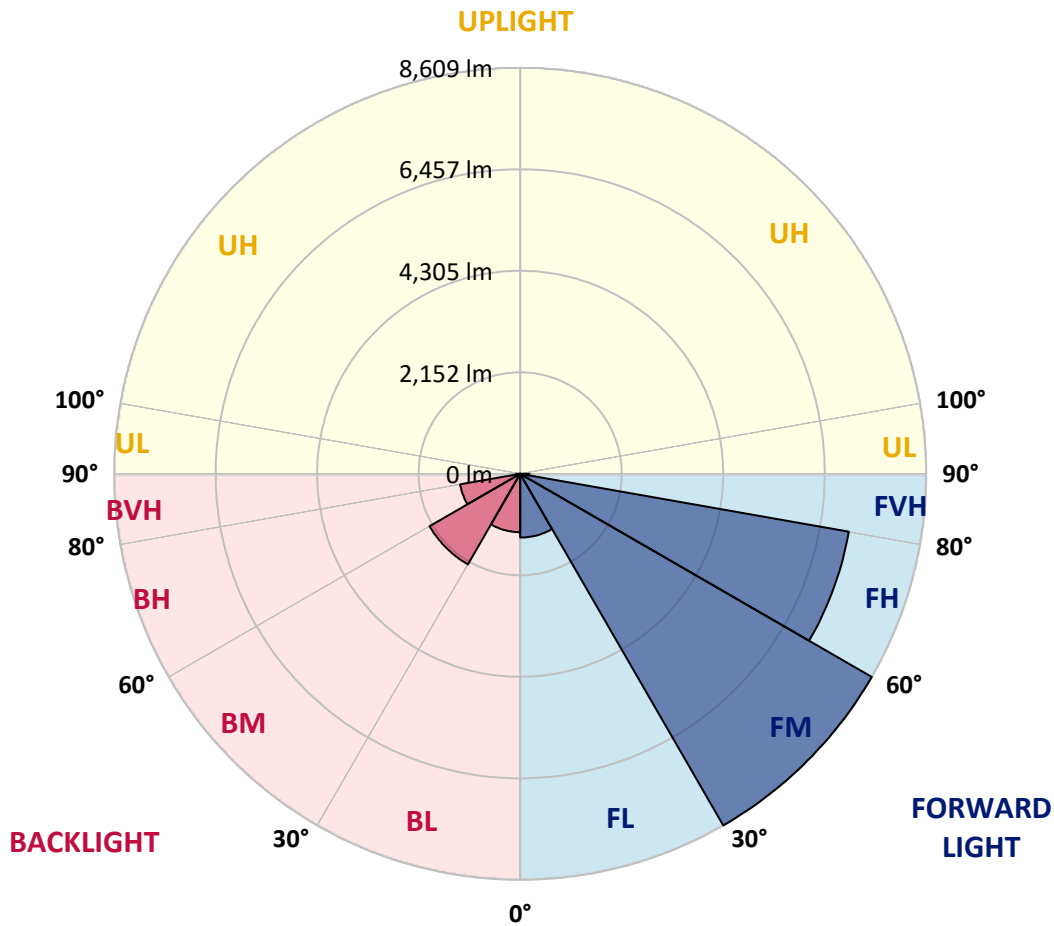
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1351.8	6.1			
FM (30°-60°)	8609.3	39.0			
FH (60°-80°)	7076.6	32.1			G3/7500
FVH (80°-90°)	195.4	0.9			G2/225
BL (0°-30°)	1238.1	5.6	B3/2500		
BM (30°-60°)	2218.4	10.1	B2/2500		
BH (60°-80°)	1291.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	84.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3
2.5°	2837.6	2836.4	2851.1	2855.6	2882.8	2902.0	2938.1	2976.6	3026.3	3031.9
5°	2673.7	2673.7	2690.7	2708.7	2743.8	2782.2	2837.6	2904.2	2990.1	3003.7
7.5°	2534.7	2543.8	2558.4	2593.5	2634.2	2689.5	2774.3	2869.2	2982.2	3003.7
10°	2422.8	2433.0	2451.1	2479.3	2540.4	2617.2	2728.0	2850.0	3001.4	3035.3
12.5°	2387.8	2398.0	2408.1	2429.6	2486.1	2576.5	2708.7	2859.0	3047.8	3081.7
15°	2469.2	2481.6	2473.7	2468.0	2497.4	2579.9	2717.8	2891.8	3105.4	3154.0
17.5°	2656.8	2661.3	2643.2	2590.1	2585.6	2629.6	2760.7	2937.0	3177.7	3230.8
20°	2959.6	2951.7	2914.4	2809.3	2749.4	2740.4	2834.2	3004.8	3252.3	3308.8
22.5°	3371.0	3361.9	3287.3	3121.2	2987.9	2899.7	2940.4	3093.0	3335.9	3399.2
25°	3884.0	3871.6	3762.0	3535.9	3329.1	3111.0	3085.0	3209.4	3438.8	3497.5
27.5°	4482.9	4472.8	4354.1	4055.8	3757.4	3400.3	3264.7	3346.1	3546.1	3612.8
30°	5127.1	5156.4	4946.2	4625.3	4247.9	3777.8	3506.6	3514.5	3685.1	3745.0
32.5°	5884.2	5935.0	5681.9	5275.1	4759.8	4188.0	3811.7	3749.5	3887.4	3937.1
35°	6634.6	6692.2	6482.0	6032.2	5439.0	4671.6	4130.3	4019.6	4156.3	4210.6
37.5°	7283.2	7360.0	7251.6	6860.6	6165.6	5254.8	4546.2	4337.1	4487.4	4555.3
40°	7795.1	7912.6	7904.7	7660.6	7022.2	5962.2	5073.9	4729.3	4898.8	4972.2
42.5°	8211.0	8312.7	8400.8	8388.4	7916.0	6765.6	5694.3	5238.9	5367.8	5452.5
45°	8498.0	8606.5	8796.3	9000.9	8776.0	7625.6	6405.1	5843.5	5961.0	6088.7
47.5°	8754.5	8877.7	9124.1	9448.4	9506.0	8489.0	7183.8	6547.5	6654.9	6787.1
50°	8777.1	8883.4	9265.3	9725.3	10024.7	9318.4	8020.0	7337.4	7438.0	7579.3
52.5°	8231.3	8398.6	9065.3	9717.3	10263.2	10012.3	8850.6	8159.0	8272.0	8441.5
55°	6389.3	6634.6	8478.8	9414.5	10178.4	10460.9	9640.5	9032.5	9177.2	9354.6
57.5°	5503.4	5610.7	6730.6	8863.0	9791.9	10577.3	10307.2	9915.1	10147.9	10342.3
60°	4946.2	5035.5	5697.7	8005.3	9283.4	10393.1	10822.5	10737.8	11140.1	11371.7
62.5°	4349.6	4434.3	5036.7	6684.3	8632.5	10086.9	11148.0	11497.2	12157.1	12410.3
65°	3757.4	3829.8	4407.2	5616.4	7805.3	9780.6	11316.4	12153.7	13098.5	13360.6
67.5°	3097.5	3157.4	3703.2	4738.3	6799.5	9361.4	11400.0	12670.2	13917.8	14142.6
70°	2235.2	2281.6	2845.5	3747.3	5537.3	8640.4	11366.1	13036.3	14342.7	14522.3
72.5°	1056.6	1098.4	1760.6	2433.0	3911.1	7236.9	10680.1	12745.9	13911.0	13821.7
75°	563.9	600.1	1011.4	1334.6	2065.7	4960.9	8739.8	10979.6	11681.4	11247.4
77.5°	382.0	410.2	626.1	801.2	943.6	2355.0	5617.5	7601.9	7313.7	6597.3
80°	302.9	332.2	513.0	542.4	456.5	850.9	2321.1	3519.0	2527.9	2021.7
82.5°	232.8	265.6	431.7	393.3	248.6	349.2	675.8	1113.1	647.5	492.7
85°	142.4	177.4	339.0	250.9	140.1	159.3	229.4	309.6	197.8	165.0
87.5°	72.3	101.7	171.8	91.5	63.3	37.3	61.0	61.0	52.0	45.2
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°
3078.3	0°	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3	3078.3
3062.4	2.5°	3089.6	3112.2	3150.6	3186.8	3215.0	3242.1	3269.2	3283.9	3288.5	3306.5
3079.4	5°	3125.7	3167.5	3242.1	3312.2	3356.3	3383.4	3402.6	3413.9	3416.2	3421.8
3125.7	7.5°	3192.4	3259.1	3363.0	3433.1	3465.9	3463.6	3455.7	3427.5	3416.2	3406.0
3193.5	10°	3286.2	3374.3	3502.0	3550.6	3530.3	3476.0	3406.0	3323.5	3285.1	3247.8
3286.2	12.5°	3402.6	3514.5	3639.9	3637.6	3537.1	3398.1	3235.3	3108.8	3028.5	2970.9
3400.3	15°	3543.9	3672.7	3768.7	3691.9	3471.5	3221.8	2983.3	2818.4	2746.0	2682.7
3515.6	17.5°	3689.6	3827.5	3871.6	3674.9	3306.5	2960.7	2690.7	2560.7	2489.5	2455.6
3639.9	20°	3832.0	3968.8	3932.6	3577.8	3055.7	2664.7	2424.0	2352.8	2338.1	2346.0
3760.8	22.5°	3982.3	4104.4	3945.0	3390.2	2735.9	2361.8	2229.6	2231.9	2264.6	2288.4
3887.4	25°	4136.0	4218.5	3912.2	3119.0	2392.3	2139.2	2106.4	2142.6	2207.0	2253.3
4029.8	27.5°	4284.0	4320.2	3841.1	2783.3	2097.4	1979.9	1985.5	2060.1	2157.3	2221.7
4202.7	30°	4451.3	4410.6	3704.3	2405.9	1892.8	1843.1	1890.6	1977.6	2074.8	2132.4
4420.8	32.5°	4640.0	4488.6	3487.3	2056.7	1748.2	1733.5	1811.5	1868.0	1910.9	1927.9
4710.1	35°	4875.1	4598.2	3209.4	1811.5	1618.2	1653.3	1727.9	1699.6	1682.7	1673.6
5098.8	37.5°	5180.2	4746.2	2883.9	1652.1	1513.1	1595.6	1626.1	1538.0	1471.3	1438.6
5570.0	40°	5547.4	4963.2	2570.9	1529.0	1446.5	1545.9	1492.8	1386.6	1301.8	1255.5
6100.0	42.5°	5955.4	5190.3	2307.6	1436.3	1409.2	1505.2	1394.5	1267.9	1131.2	1116.5
6731.7	45°	6383.7	5424.3	2127.9	1365.1	1391.1	1470.2	1338.0	1133.4	1036.3	1096.2
7365.7	47.5°	6812.0	5639.0	2019.4	1312.0	1382.1	1430.6	1288.3	1058.9	989.9	1076.9
8044.9	50°	7288.9	5831.1	1970.8	1273.6	1371.9	1414.8	1213.7	1039.7	941.3	999.0
8747.8	52.5°	7762.3	5980.2	1934.7	1235.1	1357.2	1402.4	1177.5	1017.0	882.6	886.0
9455.2	55°	8234.7	6077.4	1895.1	1184.3	1324.4	1375.3	1174.1	992.2	838.5	822.7
10203.3	57.5°	8738.7	6132.8	1846.5	1127.8	1267.9	1306.3	1170.7	973.0	824.9	798.9
10968.3	60°	9251.8	6214.2	1783.2	1058.9	1192.2	1223.8	1162.8	966.2	817.0	773.0
11689.3	62.5°	9711.7	6242.4	1707.5	993.3	1095.0	1142.5	1145.9	960.5	795.6	719.8
12288.2	65°	10013.4	6120.4	1575.3	918.7	989.9	1058.9	1113.1	941.3	757.1	681.4
12584.3	67.5°	10001.0	5772.3	1368.5	822.7	888.2	966.2	1065.6	908.6	710.8	634.0
12360.5	70°	9535.4	5085.2	1106.3	710.8	776.3	866.8	1004.6	860.0	655.4	582.0
10990.9	72.5°	8178.2	3980.1	803.5	579.7	646.4	763.9	925.5	801.2	598.9	535.6
8122.8	75°	5842.4	2518.9	544.7	445.2	502.9	647.5	827.2	732.3	546.9	537.9
4068.2	77.5°	2984.5	1203.5	360.5	325.5	350.3	510.8	695.0	654.3	554.9	444.1
1157.2	80°	970.7	444.1	227.1	221.5	232.8	340.1	537.9	536.8	420.4	301.7
280.3	82.5°	309.6	191.0	148.0	142.4	136.7	213.6	375.2	424.9	283.6	191.0
100.6	85°	123.2	114.1	87.0	80.2	57.6	100.6	196.6	282.5	211.3	137.9
26.0	87.5°	45.2	45.2	23.7	17.0	12.4	33.9	53.1	84.8	120.9	71.2
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>
3078.3
3316.7
3430.8
3408.2
3236.5
2957.4
2676.0
2465.8
2342.6
2294.0
2265.8
2237.5
2146.0
1936.9
1682.7
1446.5
1258.9
1131.2
1127.8
1117.6
1041.9
909.7
834.0
802.3
776.3
719.8
681.4
637.4
588.8
532.3
507.4
395.5
266.7
189.8
141.3
70.1
0.0

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