

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: P949288

Luminaire Tested: **GALN-SB4A-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16056 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

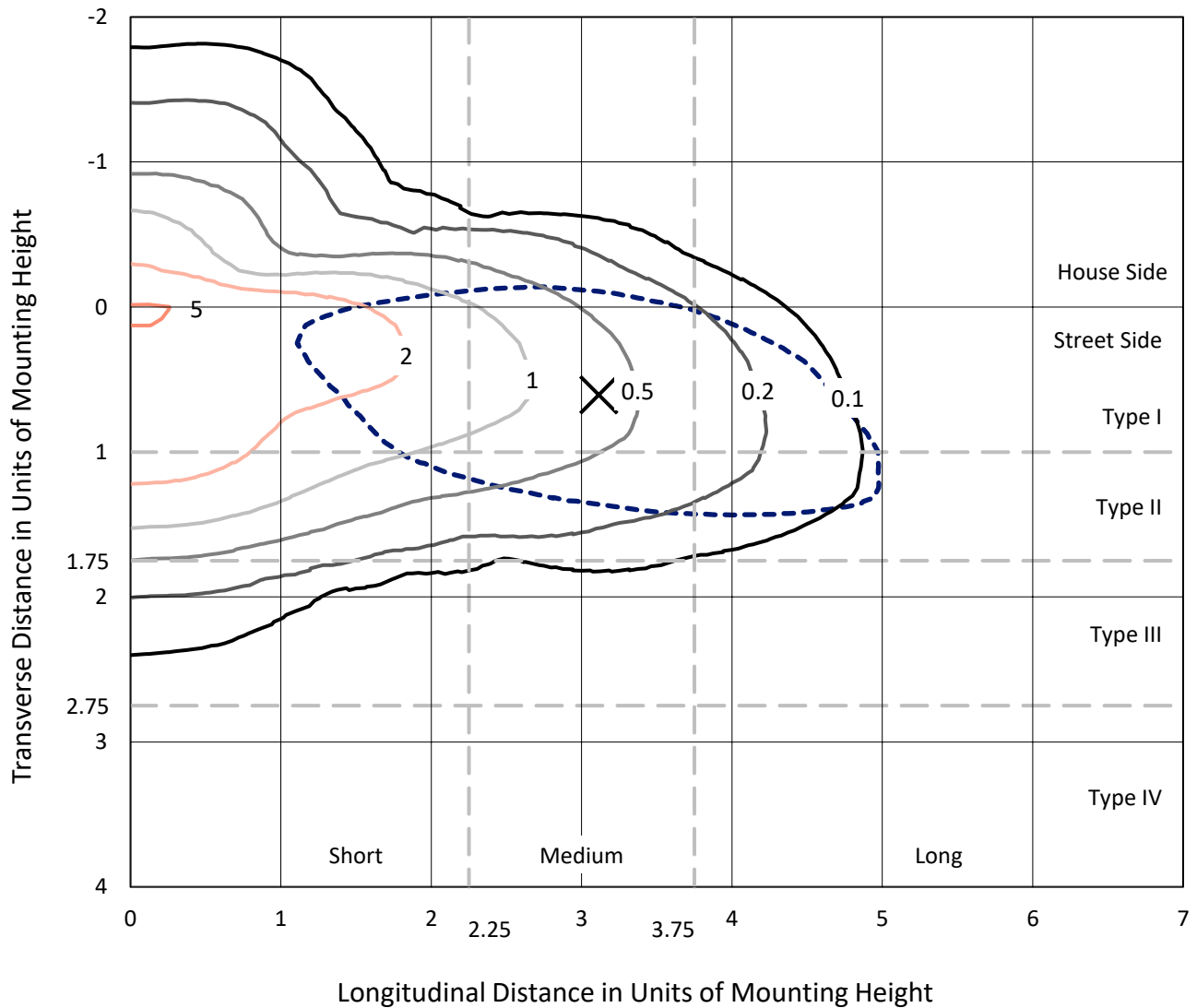
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

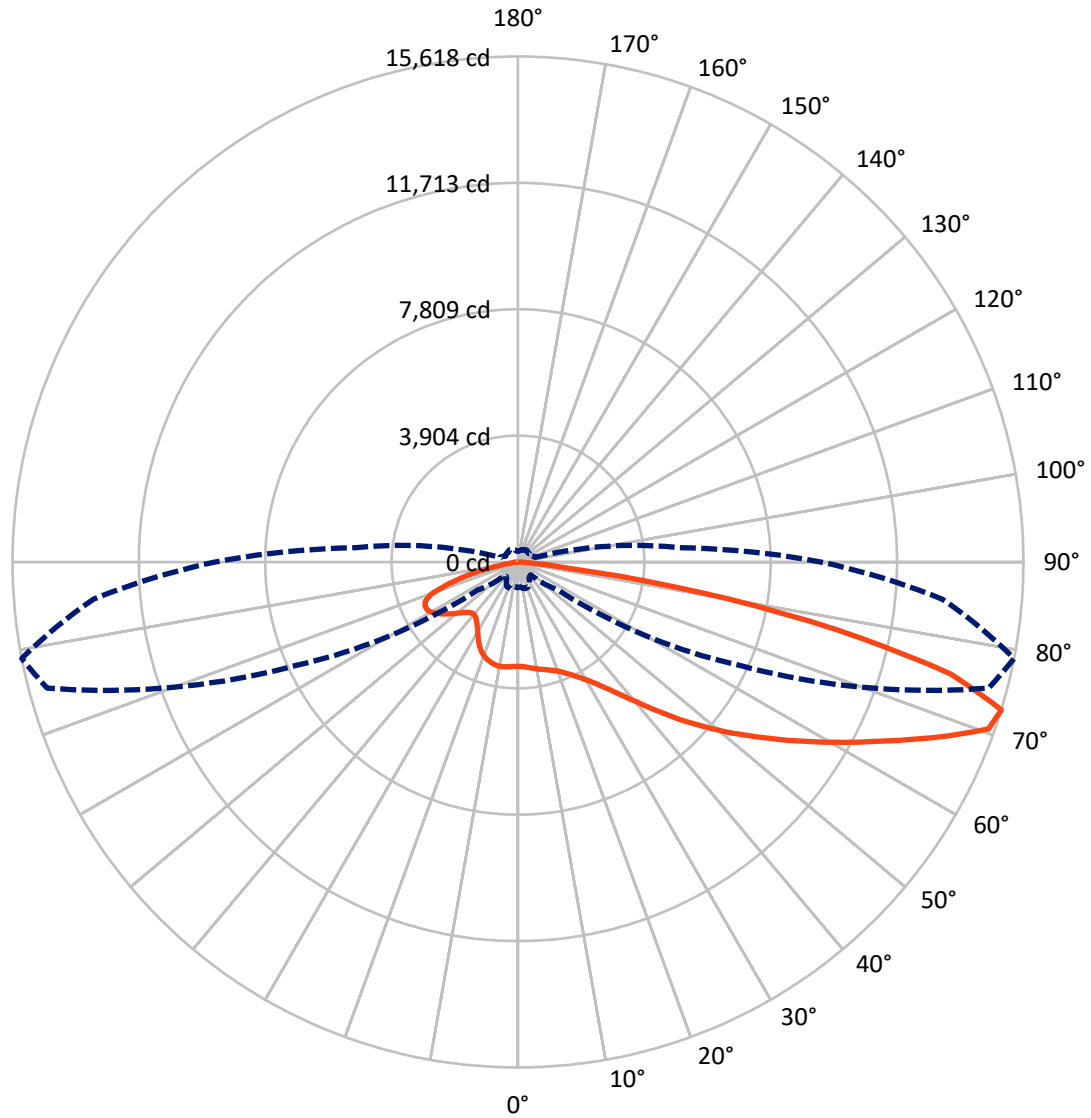
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3533.2	0.0	3533.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12522.8	0.0	12522.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	16056.0	0.0	16056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	1.8
10°-20°	764.9	4.8
20°-30°	1234.2	7.7
30°-40°	1852.4	11.5
40°-50°	2627.8	16.4
50°-60°	3318.5	20.7
60°-70°	3370.4	21.0
70°-80°	2297.1	14.3
80°-90°	298.0	1.9
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°	16056.0	100.0
0°-180°	16056.0	100.0

Coefficient of Utilization



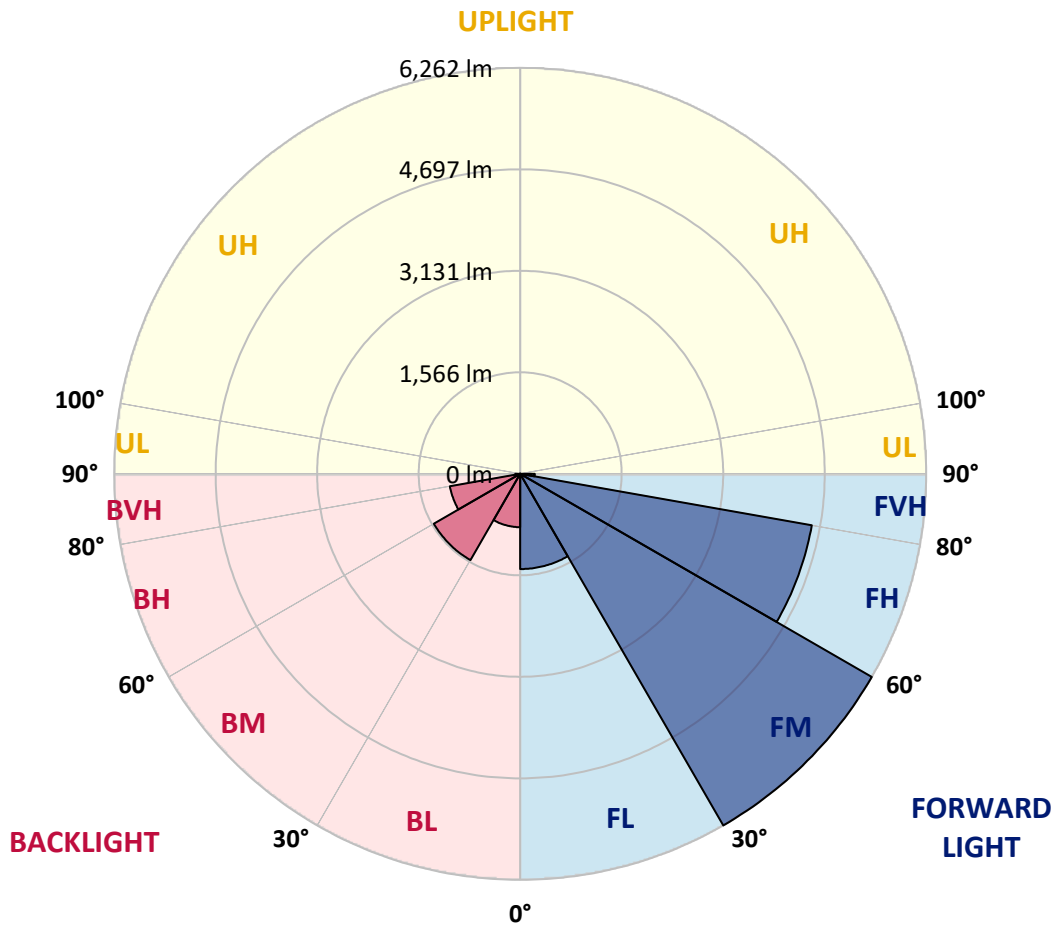
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.7	9.1			
FM (30°-60°)	6262.2	39.0			
FH (60°-80°)	4567.4	28.4			G2/5000
FVH (80°-90°)	224.5	1.4			G2/225
BL (0°-30°)	823.0	5.1	B2/1000		
BM (30°-60°)	1536.6	9.6	B2/2500		
BH (60°-80°)	1100.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	73.5	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1
2.5°	3224.8	3209.5	3218.8	3215.4	3219.7	3224.8	3226.5	3229.0	3237.5	3236.7
5°	3218.0	3202.7	3215.4	3211.2	3222.2	3234.1	3244.3	3253.7	3267.3	3273.2
7.5°	3203.6	3193.4	3206.1	3218.8	3239.2	3257.1	3271.5	3292.7	3312.3	3315.7
10°	3119.5	3111.8	3141.6	3174.7	3230.7	3279.1	3310.6	3335.2	3356.4	3359.8
12.5°	3032.0	3022.7	3055.8	3100.8	3191.7	3279.1	3345.4	3377.7	3396.3	3407.4
15°	3017.6	3009.9	3028.6	3067.7	3143.3	3256.2	3369.2	3428.6	3444.8	3457.5
17.5°	3087.2	3072.8	3080.4	3094.0	3138.2	3235.0	3387.9	3486.4	3511.0	3524.6
20°	3248.6	3228.2	3216.3	3189.1	3181.5	3238.4	3386.2	3556.0	3588.3	3605.3
22.5°	3463.4	3449.9	3424.4	3355.6	3280.8	3280.0	3418.4	3645.2	3705.5	3721.6
25°	3723.3	3702.9	3670.7	3577.2	3433.7	3362.4	3472.8	3759.0	3860.1	3864.3
27.5°	4022.3	3991.7	3947.5	3824.4	3630.8	3491.5	3556.0	3889.8	4037.6	4035.9
30°	4337.4	4306.8	4260.1	4110.6	3866.9	3665.6	3671.5	4030.8	4248.2	4238.9
32.5°	4567.5	4544.6	4535.3	4419.8	4138.6	3871.1	3804.0	4187.0	4508.1	4499.6
35°	4744.2	4714.5	4725.5	4666.9	4435.0	4101.3	3966.2	4373.0	4824.0	4823.2
37.5°	4919.1	4892.8	4902.2	4863.1	4709.4	4393.4	4164.1	4600.7	5215.5	5234.2
40°	5078.8	5050.8	5088.1	5051.6	4922.5	4704.3	4389.2	4858.0	5669.1	5704.7
42.5°	5174.8	5152.7	5214.7	5215.5	5107.7	4966.7	4636.3	5141.7	6193.9	6273.8
45°	5207.9	5200.3	5293.7	5313.2	5271.6	5118.7	4858.8	5450.8	6759.6	6902.3
47.5°	5172.2	5157.8	5286.9	5359.1	5392.2	5190.1	5043.1	5785.4	7337.1	7546.0
50°	4992.2	4964.2	5156.1	5308.1	5426.2	5236.8	5229.1	6171.9	7993.6	8222.1
52.5°	4668.6	4647.4	4865.6	5129.8	5351.4	5259.7	5438.1	6594.0	8617.0	8912.5
55°	4255.0	4227.0	4467.3	4812.1	5165.4	5252.1	5647.0	7066.2	9352.5	9652.3
57.5°	3599.3	3543.3	3847.3	4255.0	4862.2	5242.7	5864.4	7535.8	10099.9	10459.1
60°	2643.0	2559.8	2932.6	3415.9	4269.4	5151.8	6133.6	8062.4	10996.7	11320.3
62.5°	1538.9	1490.5	1734.3	2185.2	3218.0	4616.8	6284.8	8674.7	11878.3	12218.0
65°	1195.0	1181.4	1202.6	1237.4	1791.2	3456.6	5818.5	9271.8	12999.4	13237.2
67.5°	1093.0	1082.9	1092.2	1026.8	908.7	1925.4	4603.2	9423.0	14200.3	14344.7
70°	971.6	959.7	990.3	934.2	715.1	875.6	2974.2	8874.3	15155.7	15426.7
72.5°	791.5	778.0	849.3	823.8	602.2	562.2	1493.9	7570.7	15055.5	15617.8
75°	608.1	600.5	685.4	706.6	490.9	442.5	716.8	5627.5	13249.1	13815.5
77.5°	472.2	466.3	509.6	586.9	395.8	343.1	440.8	3569.6	9984.4	10083.7
80°	354.2	337.2	377.1	454.4	308.3	250.5	299.0	2081.6	6311.1	5720.9
82.5°	221.7	213.2	246.3	303.2	217.4	172.4	194.5	1150.0	2529.2	1489.7
85°	126.5	123.1	134.2	173.3	118.1	99.4	111.3	507.9	462.0	317.6
87.5°	51.0	49.3	61.1	77.3	43.3	36.5	39.1	122.3	101.9	94.3
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°
3223.1	0°	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1
3235.8	2.5°	3232.4	3232.4	3220.5	3201.9	3180.6	3167.0	3145.0	3139.0	3116.1	3109.3
3264.7	5°	3271.5	3264.7	3228.2	3175.5	3103.3	3037.1	2964.1	2918.2	2853.6	2830.7
3321.6	7.5°	3320.8	3302.1	3239.2	3123.7	2972.5	2823.9	2669.3	2552.1	2440.0	2400.1
3368.3	10°	3365.8	3339.4	3232.4	3030.3	2768.7	2511.4	2265.1	2092.7	1961.9	1908.4
3420.1	12.5°	3410.8	3362.4	3187.4	2874.9	2479.1	2130.0	1867.6	1733.4	1652.7	1588.2
3462.6	15°	3453.2	3385.3	3117.8	2666.8	2161.5	1807.3	1613.7	1506.7	1442.1	1399.6
3524.6	17.5°	3502.5	3404.8	3013.3	2402.7	1859.1	1583.9	1426.0	1361.4	1348.7	1343.6
3609.5	20°	3571.3	3422.7	2875.7	2107.1	1636.6	1405.6	1324.1	1318.1	1317.3	1314.7
3711.4	22.5°	3645.2	3443.9	2694.0	1838.7	1447.2	1294.3	1279.9	1268.0	1260.4	1259.5
3834.6	25°	3732.7	3450.7	2466.4	1618.8	1285.8	1241.7	1224.7	1206.9	1201.8	1201.8
3974.7	27.5°	3817.6	3427.8	2201.4	1427.7	1195.0	1193.3	1171.2	1165.2	1164.4	1166.9
4134.4	30°	3902.5	3384.5	1938.1	1251.0	1142.3	1142.3	1134.7	1138.9	1142.3	1150.8
4353.5	32.5°	4017.2	3338.6	1718.1	1120.2	1096.4	1088.0	1095.6	1104.1	1107.5	1118.5
4641.4	35°	4185.3	3306.3	1543.2	1048.9	1048.9	1037.8	1042.1	1040.4	1032.7	1027.7
4989.6	37.5°	4407.9	3304.6	1398.8	1015.8	1009.0	1007.3	1008.1	997.1	967.4	931.7
5410.9	40°	4675.4	3350.5	1287.5	992.8	987.7	997.9	992.8	963.1	881.6	819.6
5929.0	42.5°	5034.6	3481.3	1216.2	964.8	980.1	992.8	972.4	869.7	814.5	772.9
6519.2	45°	5457.6	3693.6	1179.7	935.1	965.7	980.9	882.4	837.4	793.2	743.1
7163.0	47.5°	5936.6	3961.1	1171.2	907.1	933.4	942.7	844.2	823.8	773.7	719.4
7810.2	50°	6458.1	4277.9	1194.1	873.9	886.7	854.4	831.5	812.8	761.0	707.5
8473.5	52.5°	6997.4	4627.0	1240.0	828.9	840.0	804.3	826.4	810.2	753.3	681.1
9158.8	55°	7527.3	4978.6	1284.1	776.3	792.4	759.3	811.9	800.0	718.5	637.0
9890.1	57.5°	8065.8	5328.5	1327.5	729.5	746.5	716.0	789.0	772.9	679.4	596.2
10688.4	60°	8625.5	5668.2	1347.8	684.5	696.4	676.0	754.2	726.2	635.3	554.6
11473.2	62.5°	9149.5	5951.0	1314.7	639.5	647.2	638.7	708.3	670.9	591.1	507.9
12291.1	65°	9675.2	6119.2	1212.8	595.4	597.1	592.8	643.8	611.5	539.3	467.1
13007.0	67.5°	10151.7	6213.5	1050.6	547.8	543.6	541.9	583.5	546.9	489.2	426.3
13551.4	70°	10252.7	5974.0	802.6	491.7	491.7	487.5	517.2	479.9	434.0	383.0
13161.6	72.5°	9364.4	5025.3	569.9	428.0	434.8	426.3	451.0	419.6	377.9	344.0
11343.2	75°	7551.1	3685.1	414.5	362.7	374.5	360.1	383.0	361.0	325.3	324.4
7816.9	77.5°	5188.4	2278.7	300.7	299.0	307.4	288.8	315.1	303.2	270.9	256.5
3402.3	80°	2214.1	908.7	219.1	231.0	231.0	214.0	244.6	248.0	220.0	213.2
656.5	82.5°	440.8	258.2	153.7	158.8	149.5	144.4	173.3	191.9	265.0	294.7
197.9	85°	132.5	95.1	92.6	86.6	76.4	77.3	101.9	192.8	237.8	135.9
65.4	87.5°	36.5	23.8	24.6	19.5	16.1	21.2	34.8	146.1	79.8	34.0
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>
3223.1
3120.3
2847.7
2405.2
1920.3
1609.4
1407.3
1347.0
1323.2
1268.9
1206.9
1173.7
1156.7
1127.9
1039.5
932.5
817.9
771.2
739.7
715.1
701.5
676.0
632.7
594.5
552.0
507.0
462.0
421.3
381.3
333.8
292.2
240.4
213.2
295.6
117.2
28.9
0.0

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