

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: P944284

Luminaire Tested: **GALN-SB9A-930-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-930-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20755 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

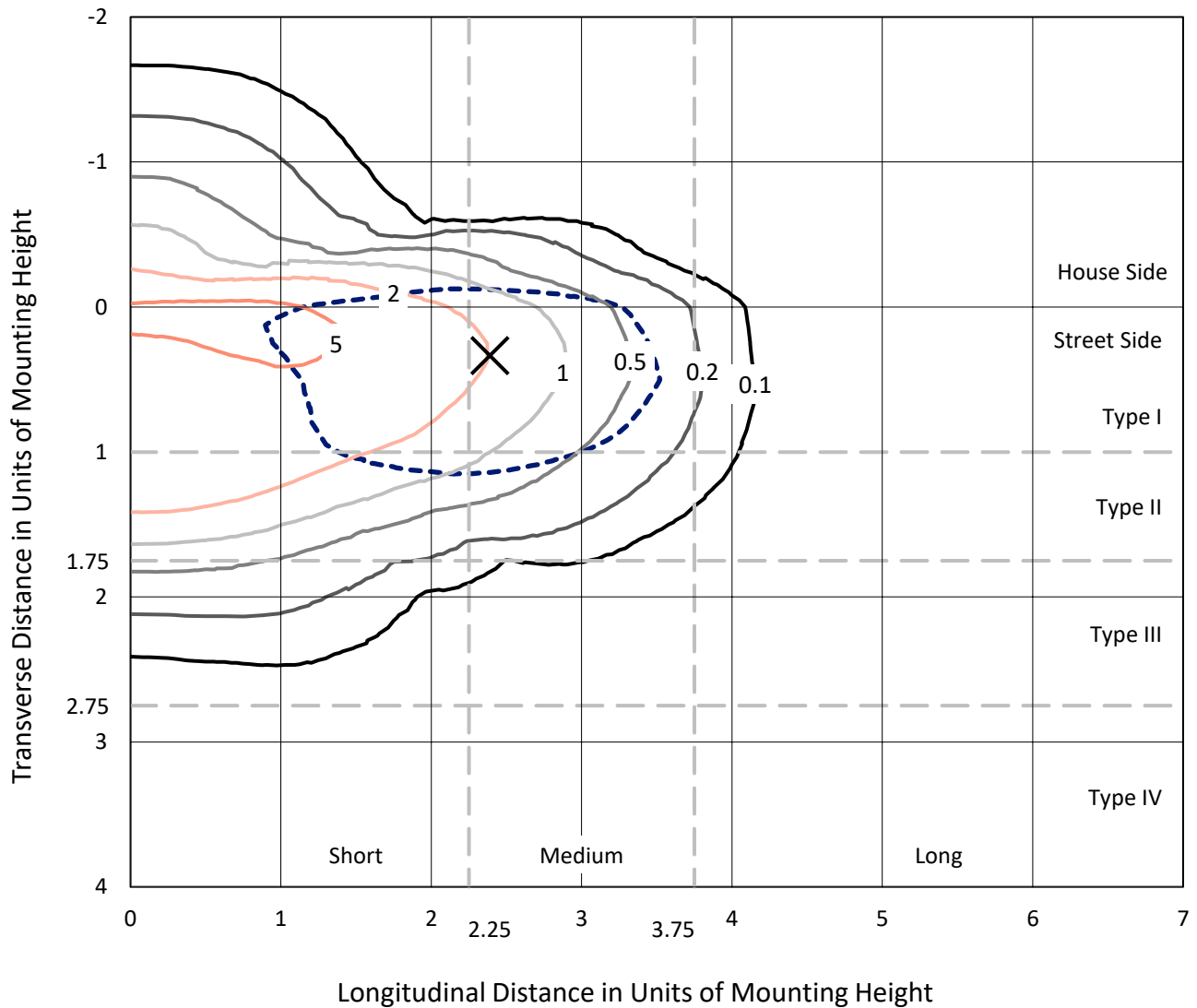
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

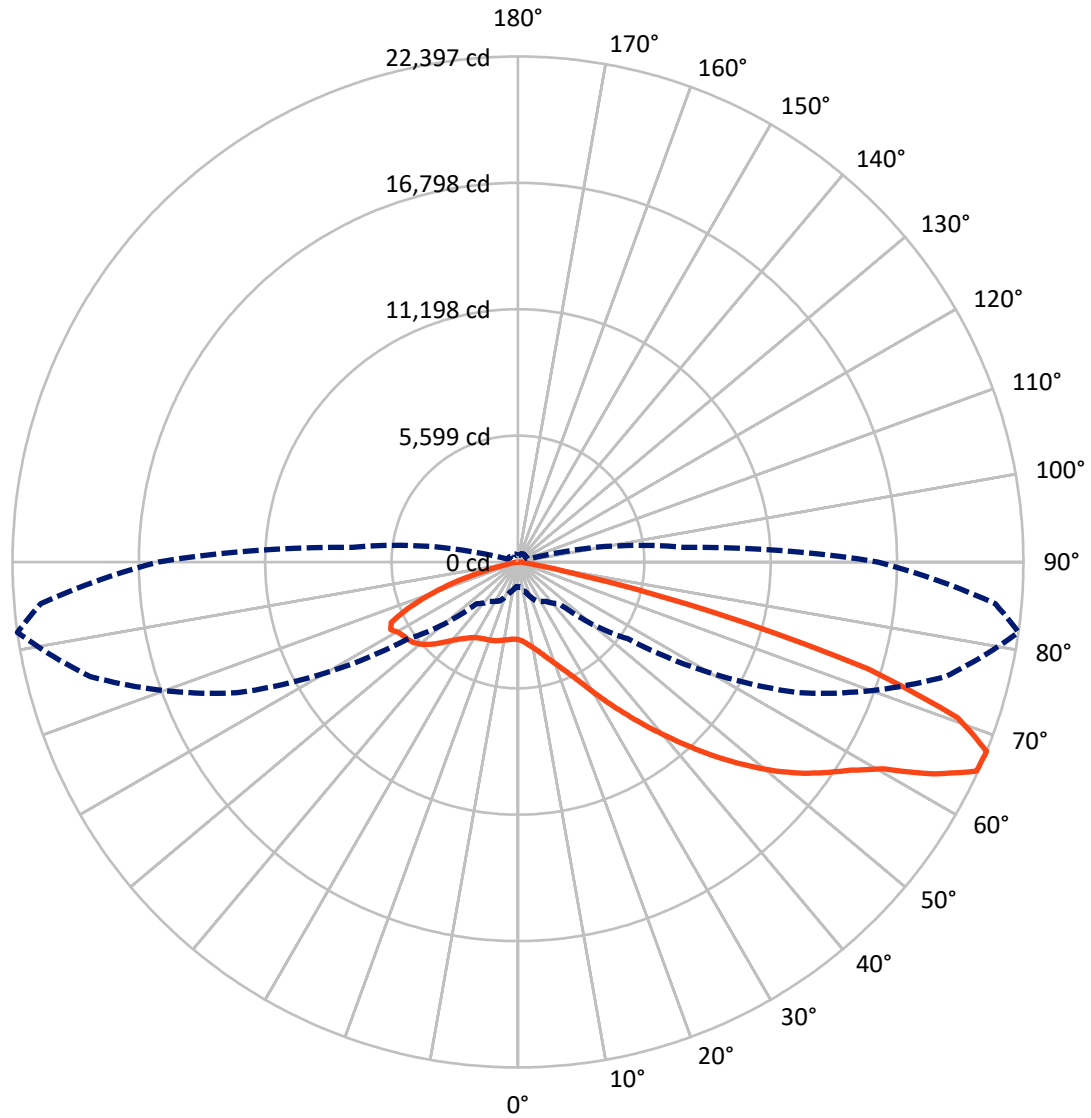
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3759.6	0.0	3759.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16995.4	0.0	16995.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	20755.0	0.0	20755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	1.5
10°-20°	796.0	3.8
20°-30°	1275.0	6.1
30°-40°	2254.6	10.9
40°-50°	3950.3	19.0
50°-60°	5268.6	25.4
60°-70°	4904.8	23.6
70°-80°	1882.4	9.1
80°-90°	116.9	0.6
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°	20755.0	100.0
0°-180°	20755.0	100.0

Coefficient of Utilization



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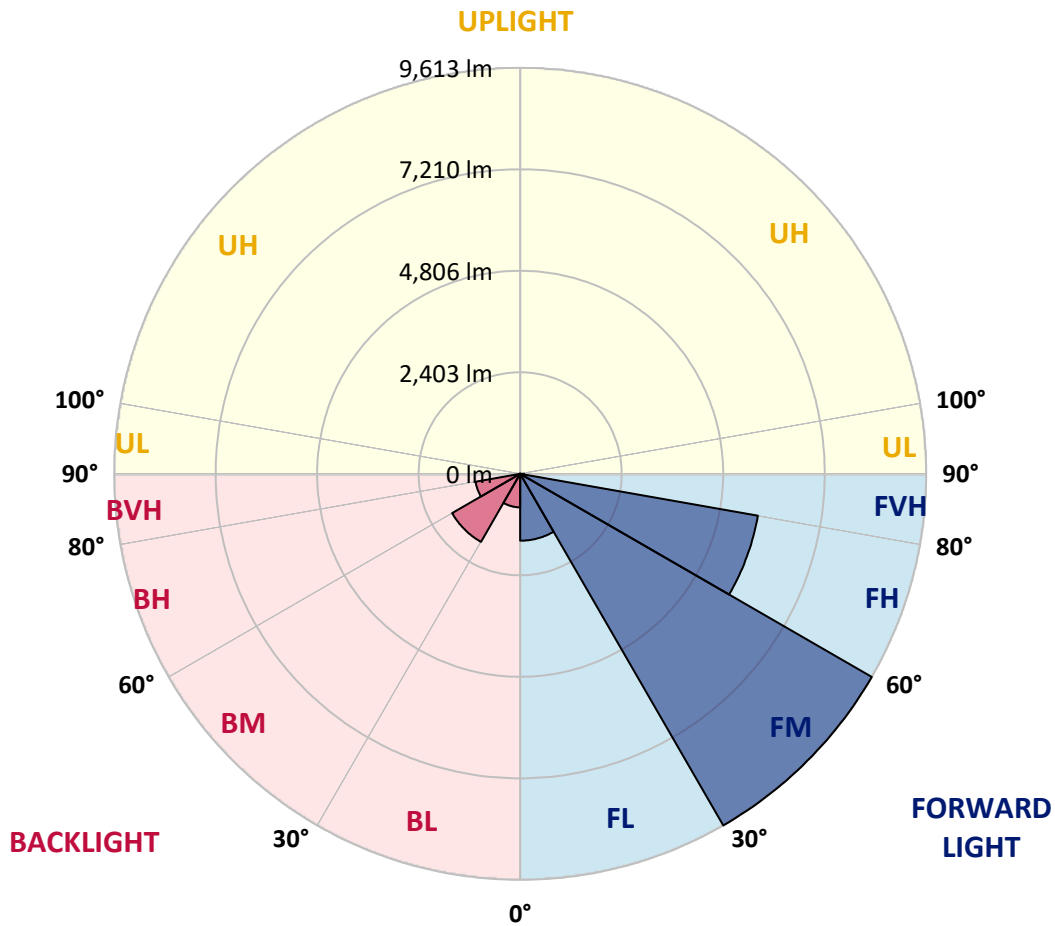
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1583.4	7.6			
FM (30°-60°)	9612.9	46.3			
FH (60°-80°)	5714.2	27.5			G3/7500
FVH (80°-90°)	85.0	0.4			G1/100
BL (0°-30°)	794.0	3.8	B2/1000		
BM (30°-60°)	1860.6	9.0	B2/2500		
BH (60°-80°)	1073.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	31.9	0.2			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°	82°
0°	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4
2.5°	3634.2	3655.1	3643.1	3637.1	3626.7	3611.7	3599.8	3562.4	3523.6	3498.2
5°	3707.4	3728.3	3726.8	3732.8	3740.3	3744.7	3741.7	3699.9	3644.6	3601.3
7.5°	3644.6	3668.5	3688.0	3717.8	3770.1	3825.4	3852.3	3843.4	3786.6	3726.8
10°	3466.8	3492.2	3538.5	3608.8	3719.3	3838.9	3939.0	3985.3	3949.5	3883.7
12.5°	3141.0	3166.4	3257.6	3410.0	3595.3	3803.0	3994.3	4118.3	4127.3	4061.5
15°	2774.9	2800.3	2897.5	3088.7	3371.2	3704.4	4024.2	4258.8	4338.0	4281.2
17.5°	2547.8	2570.2	2643.4	2797.3	3091.7	3507.1	4013.7	4408.2	4589.0	4544.2
20°	2479.1	2498.5	2532.9	2640.4	2885.5	3302.4	3945.0	4548.7	4859.5	4834.1
22.5°	2552.3	2570.2	2580.7	2628.5	2782.4	3167.9	3858.3	4692.1	5173.3	5176.3
25°	2721.1	2739.1	2727.1	2757.0	2824.2	3126.1	3825.4	4861.0	5567.8	5600.7
27.5°	2999.1	3000.6	2972.2	2970.7	2981.1	3188.9	3859.8	5041.8	6065.4	6126.7
30°	3556.5	3534.0	3425.0	3306.9	3253.1	3377.1	3955.4	5255.5	6652.7	6761.7
32.5°	4415.7	4382.8	4182.6	3900.1	3616.2	3680.5	4127.3	5499.1	7292.2	7489.5
35°	5348.1	5339.2	5130.0	4710.1	4213.9	4112.3	4406.7	5818.8	7990.1	8303.9
37.5°	6214.8	6210.3	6090.8	5596.2	4992.5	4714.5	4855.0	6237.2	8737.2	9191.5
40°	7006.8	7020.3	6900.7	6458.4	5850.2	5487.1	5464.7	6754.3	9568.0	10158.3
42.5°	7691.2	7706.1	7585.1	7257.9	6697.5	6341.8	6213.3	7387.9	10379.5	11196.8
45°	8155.9	8248.6	8230.6	7969.1	7567.2	7198.1	7112.9	8182.8	11304.4	12298.1
47.5°	8287.4	8372.6	8507.1	8543.0	8297.9	7934.8	8036.4	9140.7	12239.9	13400.9
50°	7963.2	8042.4	8321.8	8693.9	8864.2	8752.2	8934.5	10167.3	13197.7	14500.8
52.5°	7323.6	7404.3	7756.9	8345.7	9040.6	9393.2	9835.5	11178.9	14125.7	15542.3
55°	6398.6	6483.8	6936.6	7603.0	8704.3	9657.7	10587.2	12189.1	14975.9	16479.2
57.5°	5140.4	5203.2	5673.9	6606.3	7858.6	9394.7	11141.6	13291.9	15776.9	17399.7
60°	3350.2	3405.5	3952.4	4992.5	6456.9	8516.1	11252.1	14521.7	16840.8	18596.7
62.5°	2228.0	2265.4	2589.6	3353.2	4547.2	6829.0	10605.1	15503.4	18400.9	20679.7
65°	1528.7	1566.0	1890.3	2422.3	2937.8	4517.3	8744.7	15373.4	19814.5	22333.9
67.5°	1090.8	1122.2	1397.2	1899.3	2126.4	2624.0	5927.9	13711.8	19611.3	22396.7
70°	781.5	799.5	1026.6	1479.4	1690.1	1576.5	3296.4	10487.0	17171.1	20681.2
72.5°	546.9	552.9	712.8	1126.7	1361.3	1150.6	1569.0	6991.9	12987.0	16232.7
75°	370.6	378.1	479.7	826.4	1092.3	878.7	830.8	3749.2	7624.0	8985.3
77.5°	227.1	230.1	309.3	564.8	817.4	669.4	535.0	1588.4	2949.8	2896.0
80°	128.5	128.5	197.2	351.2	557.4	431.9	375.1	675.4	933.9	820.4
82.5°	71.7	73.2	143.5	218.2	369.1	255.5	206.2	312.3	403.5	357.1
85°	29.9	32.9	88.2	103.1	176.3	127.0	83.7	131.5	149.4	133.0
87.5°	3.0	4.5	26.9	19.4	20.9	25.4	12.0	25.4	20.9	20.9
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°
3438.4	0°	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4	3438.4
3489.2	2.5°	3460.8	3438.4	3381.6	3315.9	3229.2	3187.4	3130.6	3091.7	3058.8	3061.8
3575.9	5°	3528.1	3471.3	3344.3	3185.9	2988.6	2848.1	2698.7	2595.6	2511.9	2494.0
3695.4	7.5°	3620.7	3531.0	3308.4	3023.0	2689.8	2437.2	2211.6	2066.6	1963.5	1930.6
3840.4	10°	3740.3	3610.2	3262.1	2818.3	2338.6	2017.3	1775.2	1661.7	1591.4	1567.5
4010.7	12.5°	3879.2	3701.4	3200.8	2568.7	1977.0	1667.6	1513.7	1456.9	1434.5	1427.1
4219.9	15°	4054.1	3815.0	3108.2	2272.8	1670.6	1454.0	1388.2	1380.7	1383.7	1380.7
4471.0	17.5°	4261.8	3939.0	2957.2	1968.0	1464.4	1344.9	1321.0	1326.9	1334.4	1332.9
4751.9	20°	4488.9	4061.5	2764.5	1697.5	1324.0	1267.2	1253.7	1259.7	1265.7	1262.7
5076.2	22.5°	4747.4	4193.0	2550.8	1486.8	1229.8	1195.4	1180.5	1182.0	1182.0	1176.0
5487.1	25°	5056.7	4338.0	2326.6	1337.4	1158.1	1131.2	1113.3	1107.3	1098.3	1080.4
5986.2	27.5°	5425.8	4491.9	2111.5	1232.8	1101.3	1075.9	1055.0	1040.0	1017.6	987.7
6585.4	30°	5841.2	4678.7	1929.2	1167.1	1056.5	1031.1	1007.2	984.7	951.9	914.5
7274.3	32.5°	6329.9	4878.9	1796.2	1123.7	1016.1	989.2	960.8	933.9	898.1	860.7
8048.3	35°	6912.7	5121.0	1718.5	1093.8	984.7	948.9	917.5	887.6	860.7	827.8
8889.6	37.5°	7544.8	5378.0	1694.5	1078.9	963.8	908.5	872.7	851.8	848.8	829.3
9799.7	40°	8236.6	5682.9	1712.5	1069.9	941.4	869.7	830.8	826.4	833.8	799.5
10772.5	42.5°	8968.8	6044.5	1742.4	1059.5	910.0	830.8	793.5	793.5	787.5	739.7
11800.5	45°	9760.8	6461.4	1772.2	1034.1	872.7	792.0	763.6	753.1	727.7	681.4
12834.6	47.5°	10558.8	6885.8	1794.7	987.7	827.8	759.1	733.7	709.8	672.4	630.6
13849.2	50°	11316.4	7266.8	1770.8	919.0	777.0	727.7	700.8	668.0	627.6	599.2
14810.1	52.5°	11993.3	7597.1	1669.1	838.3	723.2	694.9	670.9	636.6	603.7	573.8
15676.8	55°	12582.1	7864.5	1489.8	762.1	675.4	666.5	642.6	599.2	554.4	529.0
16536.0	57.5°	13146.9	8067.8	1265.7	699.3	632.1	635.1	599.2	560.4	518.5	491.6
17694.1	60°	13898.6	8339.7	1038.5	641.1	585.8	594.7	555.9	527.5	475.2	440.8
19680.0	62.5°	15100.0	8762.6	824.9	569.3	532.0	535.0	518.5	484.2	421.4	381.0
21151.9	65°	16053.3	8607.2	650.0	491.6	470.7	475.2	475.2	437.8	370.6	324.3
21231.1	67.5°	15945.8	7369.9	518.5	415.4	412.4	415.4	425.9	394.5	328.7	291.4
19614.3	70°	14689.0	5862.2	415.4	345.2	358.6	351.2	381.0	360.1	295.9	258.5
15206.1	72.5°	11985.8	4222.9	316.8	285.4	275.0	286.9	343.7	324.3	246.6	204.7
8054.3	75°	7003.8	2253.4	236.1	225.6	198.7	239.1	304.8	276.4	188.3	150.9
2468.6	77.5°	2280.3	786.0	173.3	165.9	147.9	192.8	260.0	233.1	153.9	119.5
723.2	80°	611.2	237.6	118.1	109.1	95.6	143.5	206.2	185.3	110.6	77.7
310.8	82.5°	245.1	100.1	68.7	61.3	52.3	98.6	162.9	149.4	82.2	49.3
97.1	85°	79.2	32.9	25.4	19.4	23.9	61.3	97.1	101.6	58.3	25.4
14.9	87.5°	10.5	4.5	4.5	6.0	4.5	10.5	29.9	28.4	16.4	3.0
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>
3438.4
3031.9
2453.7
1897.8
1549.6
1422.6
1379.2
1329.9
1261.2
1173.0
1077.4
984.7
911.5
862.2
824.9
827.8
800.9
739.7
679.9
629.1
594.7
570.8
526.0
488.6
436.3
378.1
319.8
285.4
254.0
200.2
146.4
115.1
76.2
49.3
19.4
0.0
0.0

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