

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: P941174

Luminaire Tested: **GALN-SB4C-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941174
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-SB4C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 19694 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

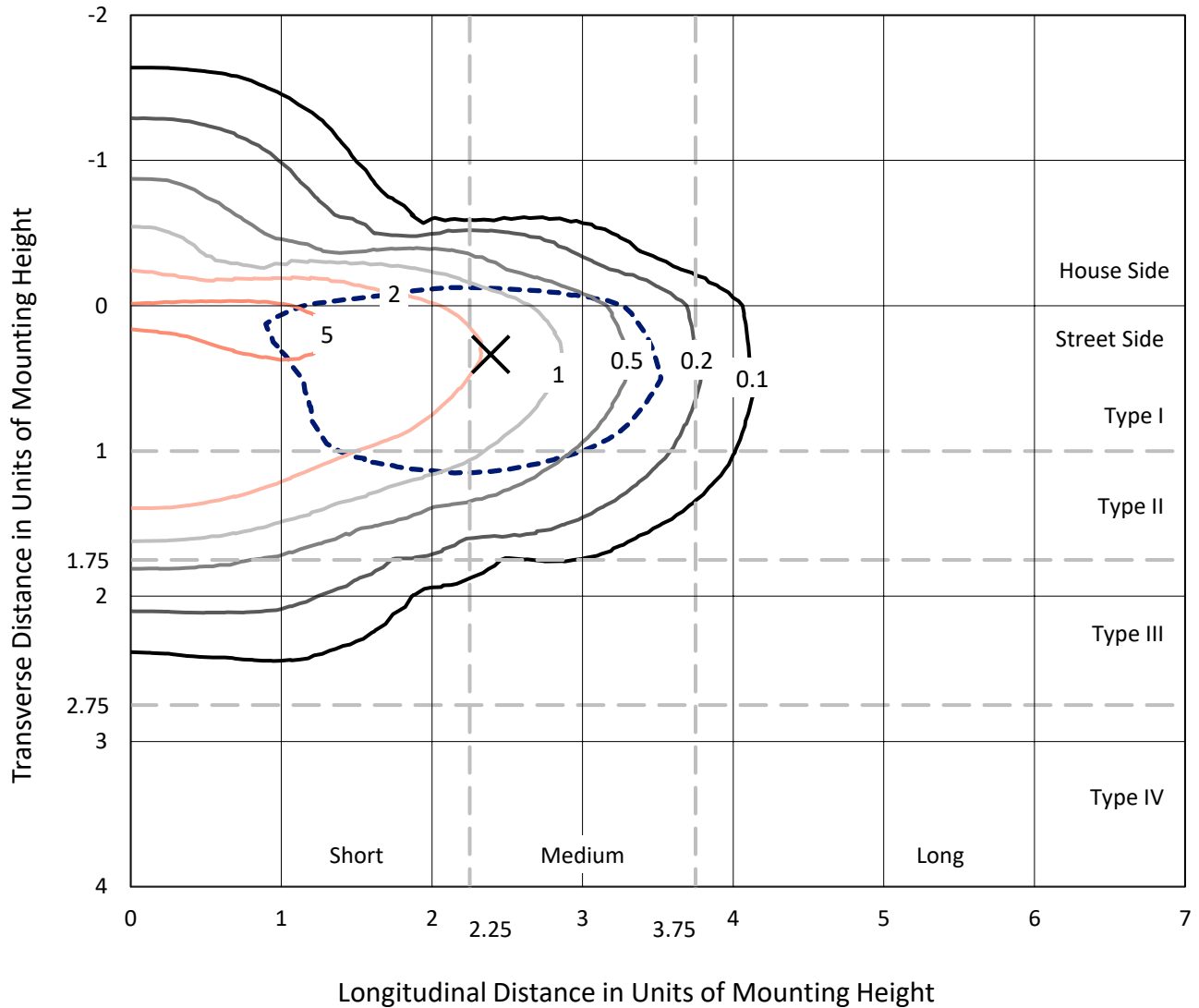
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

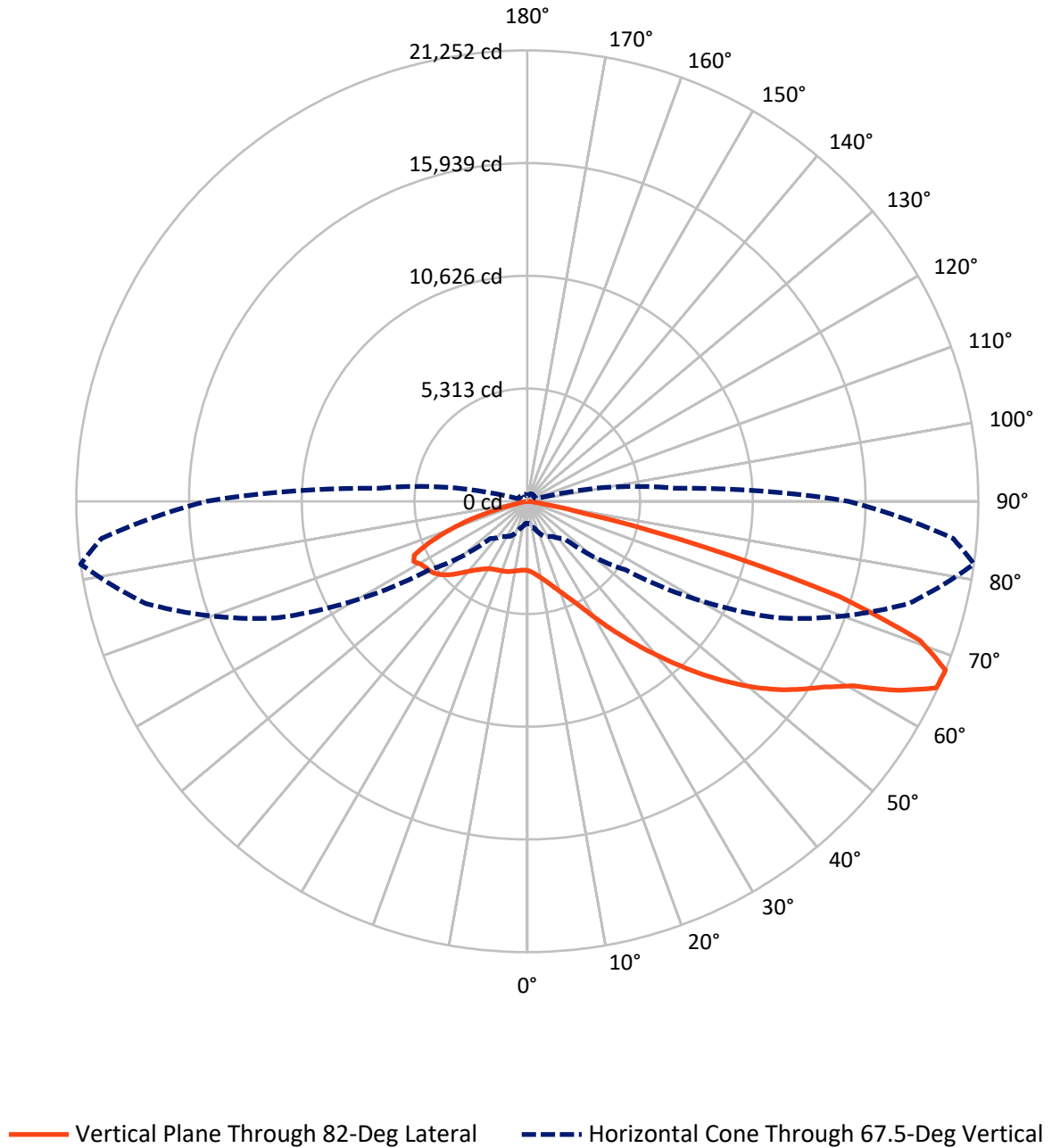
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3567.4	0.0	3567.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16126.6	0.0	16126.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	19694.0	0.0	19694.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.7	1.5
10°-20°	755.4	3.8
20°-30°	1209.8	6.1
30°-40°	2139.3	10.9
40°-50°	3748.3	19.0
50°-60°	4999.2	25.4
60°-70°	4654.0	23.6
70°-80°	1786.2	9.1
80°-90°	110.9	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°	19694.0	100.0
0°-180°	19694.0	100.0



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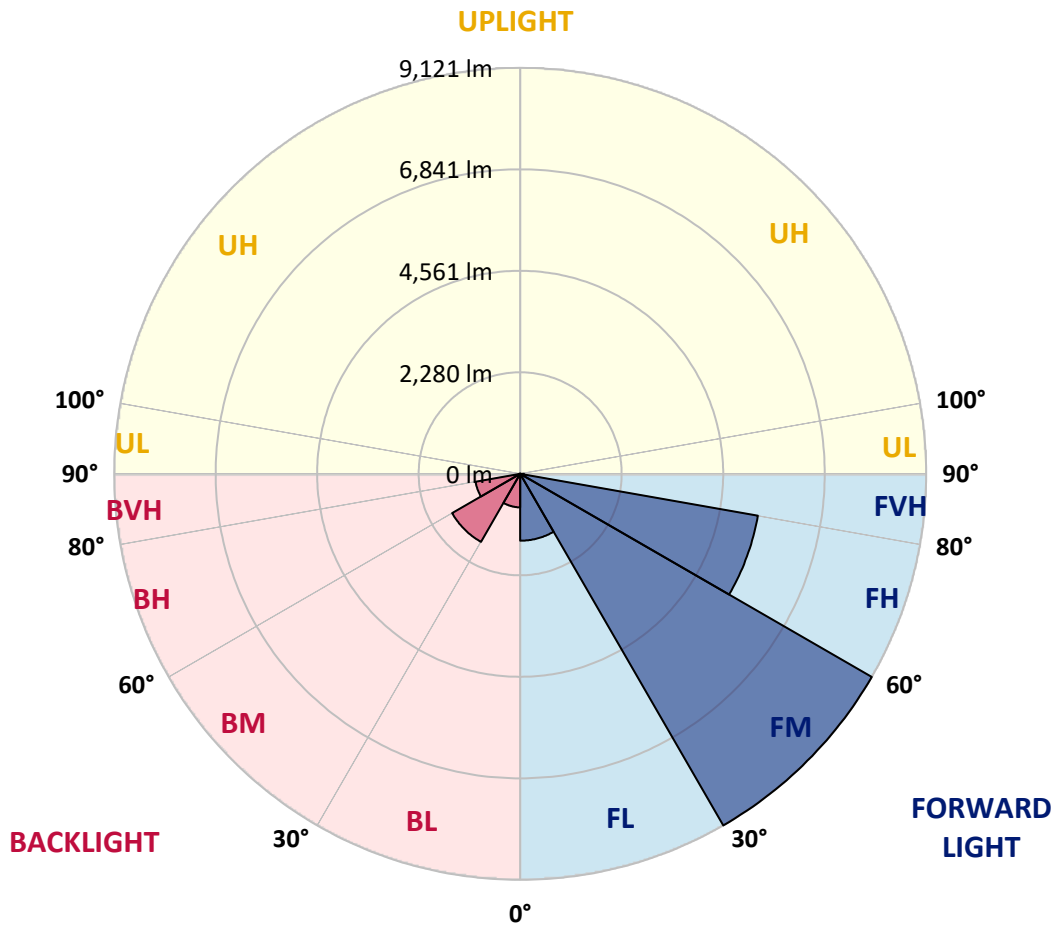
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1502.4	7.6			
FM (30°-60°)	9121.5	46.3			
FH (60°-80°)	5422.1	27.5			G3/7500
FVH (80°-90°)	80.7	0.4			G1/100
BL (0°-30°)	753.4	3.8	B2/1000		
BM (30°-60°)	1765.5	9.0	B2/2500		
BH (60°-80°)	1018.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	30.3	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°	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6
2.5°	3448.4	3468.2	3456.9	3451.2	3441.3	3427.1	3415.8	3380.3	3343.5	3319.3
5°	3517.9	3537.7	3536.3	3542.0	3549.0	3553.3	3550.5	3510.8	3458.3	3417.2
7.5°	3458.3	3481.0	3499.4	3527.8	3577.4	3629.9	3655.4	3646.9	3593.0	3536.3
10°	3289.6	3313.7	3357.6	3424.3	3529.2	3642.6	3737.6	3781.6	3747.6	3685.2
12.5°	2980.5	3004.6	3091.1	3235.7	3411.5	3608.6	3790.1	3907.8	3916.3	3853.9
15°	2633.1	2657.2	2749.3	2930.8	3198.8	3515.0	3818.5	4041.1	4116.2	4062.3
17.5°	2417.6	2438.8	2508.3	2654.3	2933.7	3327.9	3808.5	4182.9	4354.4	4311.9
20°	2352.3	2370.8	2403.4	2505.5	2738.0	3133.6	3743.3	4316.1	4611.1	4587.0
22.5°	2421.8	2438.8	2448.7	2494.1	2640.2	3006.0	3661.1	4452.3	4908.8	4911.7
25°	2582.0	2599.0	2587.7	2616.1	2679.9	2966.3	3629.9	4612.5	5283.2	5314.4
27.5°	2845.8	2847.2	2820.2	2818.8	2828.7	3025.8	3662.5	4784.1	5755.3	5813.5
30°	3374.6	3353.4	3249.9	3137.9	3086.8	3204.5	3753.2	4986.8	6312.6	6416.1
32.5°	4189.9	4158.8	3968.8	3700.8	3431.4	3492.3	3916.3	5217.9	6919.4	7106.6
35°	5074.7	5066.2	4867.7	4469.3	3998.5	3902.1	4181.4	5521.4	7581.6	7879.4
37.5°	5897.1	5892.9	5779.4	5310.1	4737.3	4473.5	4606.8	5918.4	8290.6	8721.6
40°	6648.6	6661.4	6547.9	6128.2	5551.1	5206.6	5185.3	6409.0	9078.9	9639.0
42.5°	7298.0	7312.2	7197.4	6886.8	6355.1	6017.6	5895.7	7010.2	9848.9	10624.5
45°	7739.0	7826.9	7809.9	7561.8	7180.3	6830.1	6749.3	7764.5	10726.5	11669.5
47.5°	7863.8	7944.6	8072.2	8106.2	7873.7	7529.1	7625.6	8673.4	11614.2	12715.9
50°	7556.1	7631.2	7896.4	8249.4	8411.1	8304.7	8477.7	9647.5	12523.1	13759.5
52.5°	6949.2	7025.8	7360.4	7919.1	8578.4	8913.0	9332.7	10607.4	13403.6	14747.8
55°	6071.5	6152.3	6582.0	7214.4	8259.4	9164.0	10045.9	11566.0	14210.4	15636.8
57.5°	4877.6	4937.2	5383.8	6268.6	7456.8	8914.5	10572.0	12612.4	14970.4	16510.2
60°	3179.0	3231.4	3750.4	4737.3	6126.8	8080.7	10676.9	13779.3	15979.9	17646.0
62.5°	2114.1	2149.6	2457.3	3181.8	4314.7	6479.9	10063.0	14710.9	17460.2	19622.6
65°	1450.5	1486.0	1793.7	2298.4	2787.6	4286.4	8297.7	14587.5	18801.6	21192.2
67.5°	1035.1	1064.9	1325.8	1802.2	2017.7	2489.9	5624.9	13010.8	18608.8	21251.8
70°	741.6	758.6	974.1	1403.7	1603.7	1495.9	3127.9	9950.9	16293.3	19624.0
72.5°	519.0	524.6	676.3	1069.1	1291.7	1091.8	1488.8	6634.4	12323.1	15402.8
75°	351.6	358.7	455.2	784.1	1036.5	833.7	788.4	3557.6	7234.2	8525.9
77.5°	215.5	218.4	293.5	536.0	775.6	635.2	507.6	1507.2	2799.0	2747.9
80°	121.9	121.9	187.2	333.2	528.9	409.8	355.9	640.9	886.2	778.4
82.5°	68.1	69.5	136.1	207.0	350.2	242.5	195.7	296.3	382.8	338.9
85°	28.4	31.2	83.7	97.8	167.3	120.5	79.4	124.8	141.8	126.2
87.5°	2.8	4.3	25.5	18.4	19.9	24.1	11.3	24.1	19.9	19.9
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°
3262.6	0°	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6
3310.8	2.5°	3283.9	3262.6	3208.7	3146.4	3064.1	3024.4	2970.5	2933.7	2902.5	2905.3
3393.1	5°	3347.7	3293.8	3173.3	3023.0	2835.8	2702.6	2560.8	2462.9	2383.5	2366.5
3506.5	7.5°	3435.6	3350.5	3139.3	2868.4	2552.3	2312.6	2098.5	1961.0	1863.1	1832.0
3644.0	10°	3549.0	3425.7	3095.3	2674.2	2219.0	1914.2	1684.5	1576.7	1510.1	1487.4
3805.7	12.5°	3680.9	3512.2	3037.2	2437.4	1875.9	1582.4	1436.4	1382.5	1361.2	1354.1
4004.2	15°	3846.8	3619.9	2949.3	2156.7	1585.2	1379.6	1317.2	1310.2	1313.0	1310.2
4242.4	17.5°	4043.9	3737.6	2806.1	1867.4	1389.6	1276.1	1253.4	1259.1	1266.2	1264.8
4509.0	20°	4259.4	3853.9	2623.1	1610.8	1256.3	1202.4	1189.6	1195.3	1201.0	1198.1
4816.7	22.5°	4504.7	3978.7	2420.4	1410.8	1166.9	1134.3	1120.2	1121.6	1121.6	1115.9
5206.6	25°	4798.2	4116.2	2207.7	1269.0	1098.9	1073.4	1056.3	1050.7	1042.2	1025.2
5680.2	27.5°	5148.5	4262.3	2003.5	1169.8	1045.0	1020.9	1001.1	986.9	965.6	937.2
6248.8	30°	5542.6	4439.5	1830.5	1107.4	1002.5	978.4	955.7	934.4	903.2	867.8
6902.4	32.5°	6006.3	4629.5	1704.3	1066.3	964.2	938.7	911.7	886.2	852.2	816.7
7636.9	35°	6559.3	4859.2	1630.6	1037.9	934.4	900.4	870.6	842.2	816.7	785.5
8435.2	37.5°	7159.1	5103.1	1607.9	1023.7	914.6	862.1	828.1	808.2	805.4	786.9
9298.7	40°	7815.6	5392.3	1624.9	1015.2	893.3	825.2	788.4	784.1	791.2	758.6
10221.8	42.5°	8510.3	5735.5	1653.3	1005.3	863.5	788.4	752.9	752.9	747.2	701.9
11197.3	45°	9261.8	6131.1	1681.7	981.2	828.1	751.5	724.6	714.6	690.5	646.6
12178.5	47.5°	10019.0	6533.8	1702.9	937.2	785.5	720.3	696.2	673.5	638.1	598.4
13141.3	50°	10737.9	6895.3	1680.2	872.0	737.3	690.5	665.0	633.8	595.5	568.6
14053.0	52.5°	11380.2	7208.7	1583.8	795.5	686.3	659.3	636.6	604.0	572.8	544.5
14875.4	55°	11938.9	7462.5	1413.7	723.1	640.9	632.4	609.7	568.6	526.0	501.9
15690.7	57.5°	12474.8	7655.3	1201.0	663.6	599.8	602.6	568.6	531.7	492.0	466.5
16789.6	60°	13188.1	7913.4	985.5	608.3	555.8	564.3	527.5	500.5	450.9	418.3
18674.0	62.5°	14328.1	8314.7	782.7	540.2	504.8	507.6	492.0	459.4	399.9	361.6
20070.6	65°	15232.7	8167.2	616.8	466.5	446.6	450.9	450.9	415.4	351.6	307.7
20145.8	67.5°	15130.6	6993.2	492.0	394.2	391.3	394.2	404.1	374.3	311.9	276.5
18611.6	70°	13938.1	5562.5	394.2	327.5	340.3	333.2	361.6	341.7	280.7	245.3
14428.7	72.5°	11373.1	4007.0	300.6	270.8	260.9	272.2	326.1	307.7	234.0	194.3
7642.6	75°	6645.8	2138.2	224.0	214.1	188.6	226.9	289.3	262.3	178.7	143.2
2342.4	77.5°	2163.7	745.8	164.5	157.4	140.4	182.9	246.7	221.2	146.0	113.4
686.3	80°	579.9	225.4	112.0	103.5	90.7	136.1	195.7	175.8	104.9	73.7
294.9	82.5°	232.5	95.0	65.2	58.1	49.6	93.6	154.6	141.8	78.0	46.8
92.2	85°	75.1	31.2	24.1	18.4	22.7	58.1	92.2	96.4	55.3	24.1
14.2	87.5°	9.9	4.3	4.3	5.7	4.3	9.9	28.4	26.9	15.6	2.8
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>
3262.6
2877.0
2328.2
1800.8
1470.4
1349.9
1308.7
1261.9
1196.7
1113.1
1022.3
934.4
864.9
818.1
782.7
785.5
760.0
701.9
645.2
596.9
564.3
541.6
499.1
463.7
414.0
358.7
303.4
270.8
241.0
190.0
139.0
109.2
72.3
46.8
18.4
0.0
0.0

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