

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: P941336

Luminaire Tested: **GALN-SB4D-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27813 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

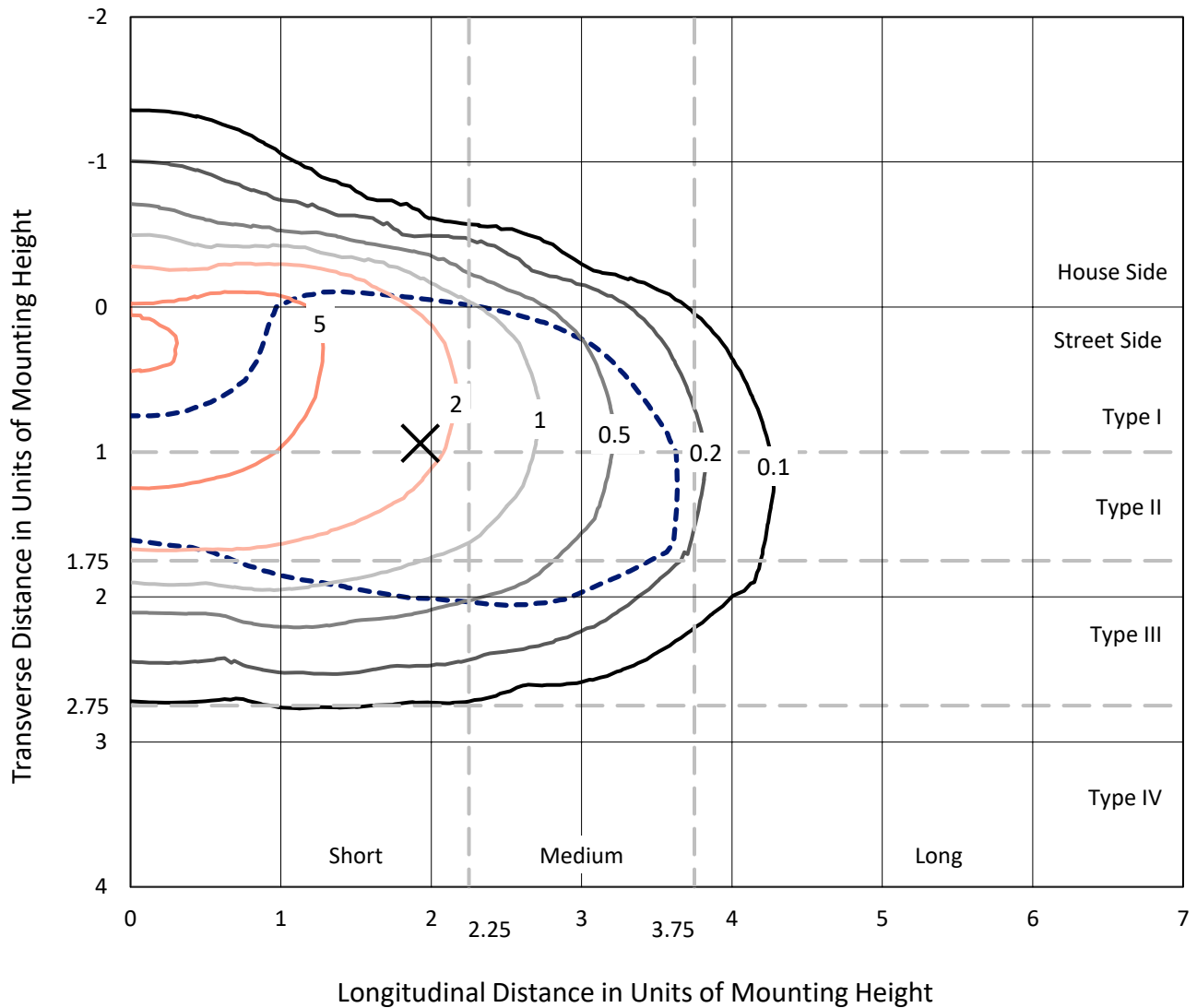
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

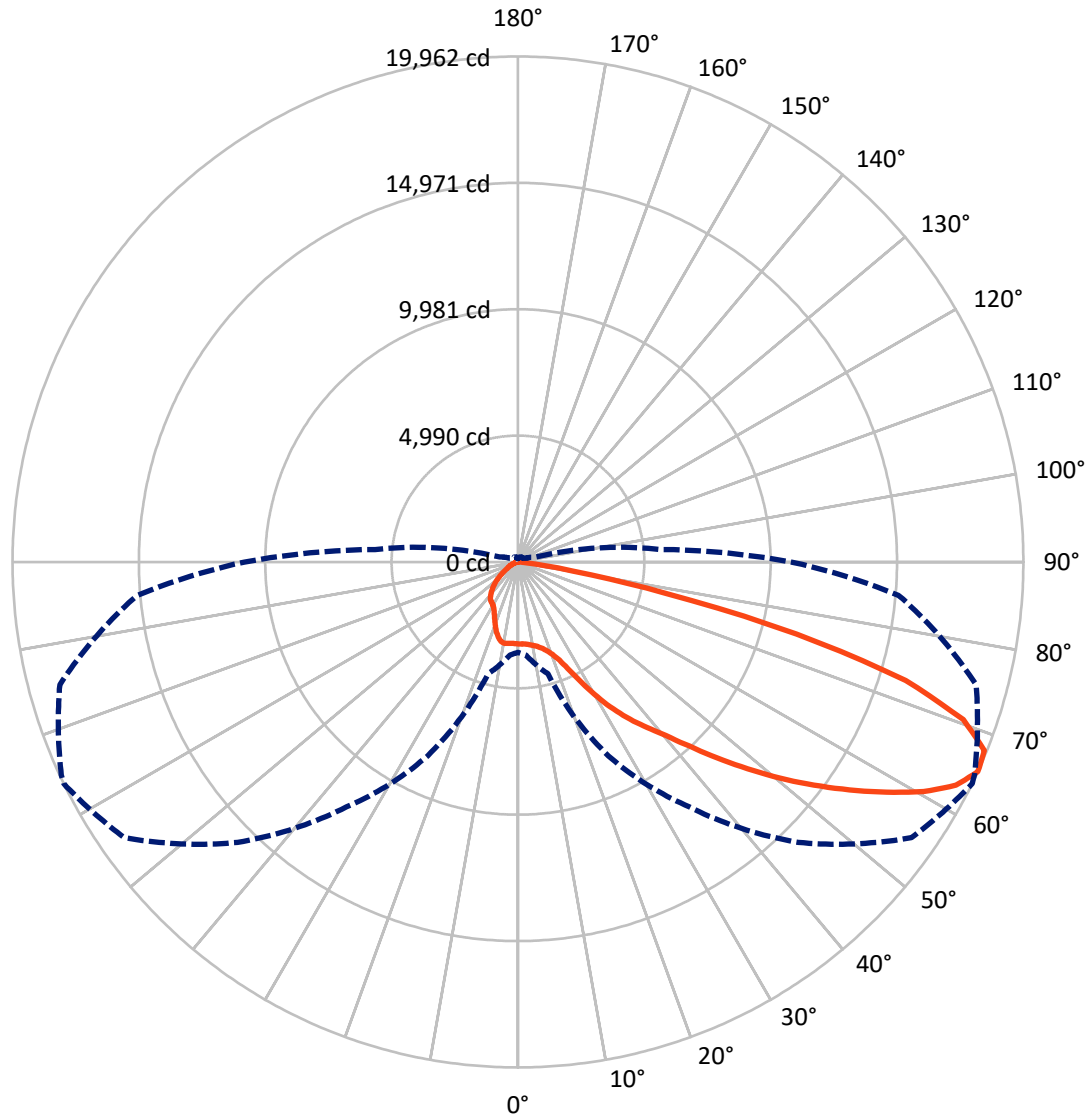
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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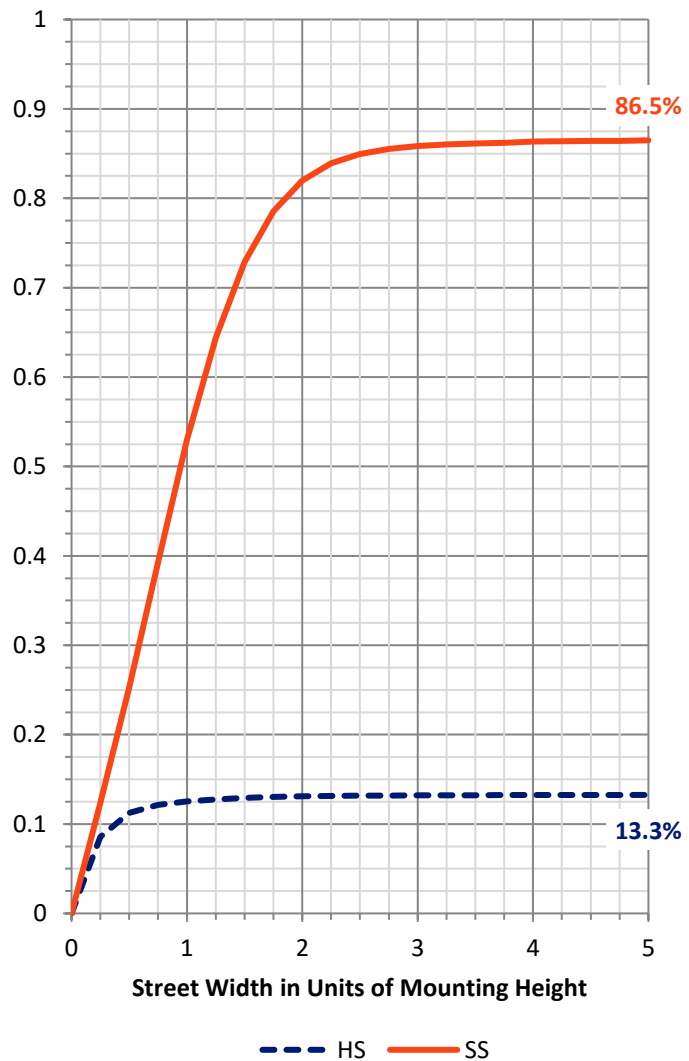
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3719.4	0.0	3719.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24093.6	0.0	24093.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	27813.0	0.0	27813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.5	1.1
10°-20°	809.5	2.9
20°-30°	1533.9	5.5
30°-40°	3103.9	11.2
40°-50°	5287.6	19.0
50°-60°	7190.7	25.9
60°-70°	6752.5	24.3
70°-80°	2705.3	9.7
80°-90°	131.1	0.5
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°	27813.0	100.0
0°-180°	27813.0	100.0

Coefficient of Utilization



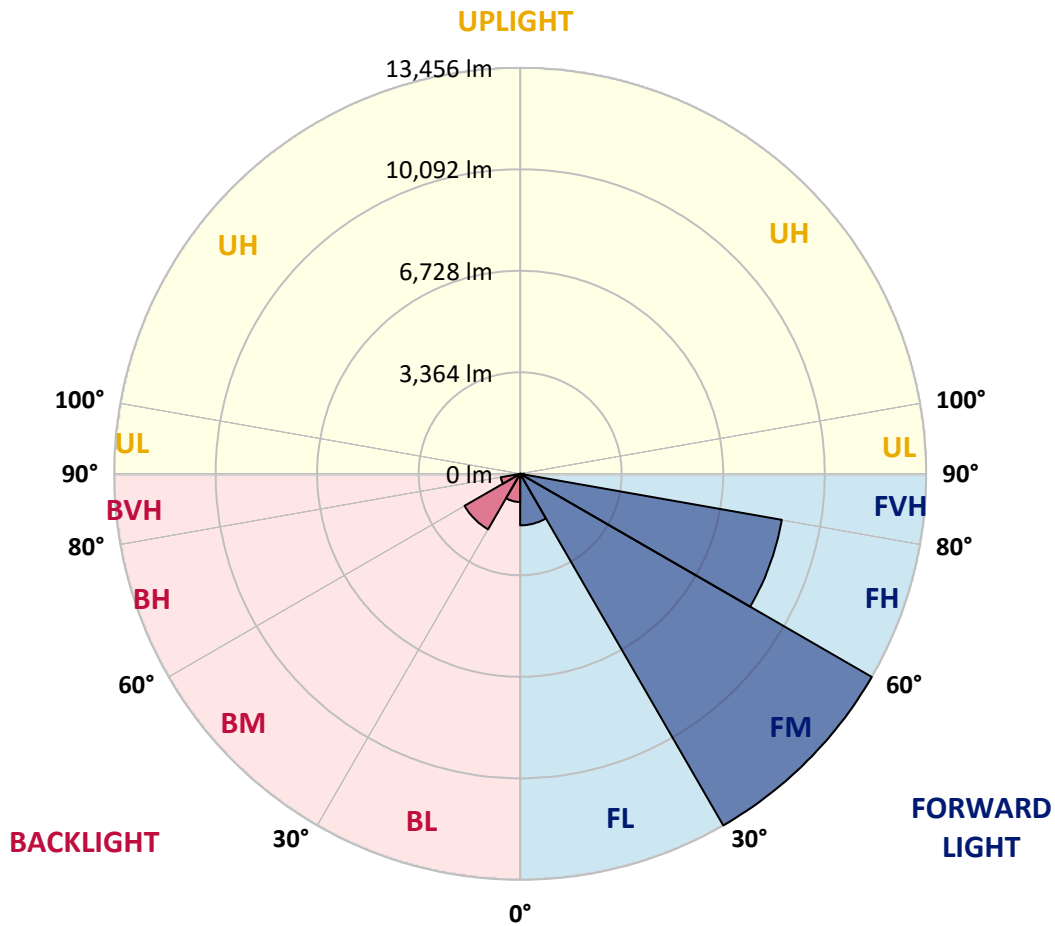
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.0	6.1			
FM (30°-60°)	13455.9	48.4			
FH (60°-80°)	8805.0	31.7			G4/12000
FVH (80°-90°)	124.7	0.4			G2/225
BL (0°-30°)	933.8	3.4	B2/1000		
BM (30°-60°)	2126.4	7.6	B2/2500		
BH (60°-80°)	652.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9
2.5°	3223.8	3246.1	3240.5	3234.9	3233.1	3236.8	3238.7	3236.8	3236.8	3236.8
5°	3162.2	3180.9	3180.9	3193.9	3212.6	3234.9	3251.7	3255.5	3259.2	3264.8
7.5°	3044.8	3059.7	3070.9	3113.7	3160.4	3220.0	3270.4	3296.5	3300.2	3320.7
10°	2964.6	2983.2	3001.9	3046.6	3113.7	3203.2	3289.0	3352.4	3361.7	3410.2
12.5°	2960.9	2979.5	3003.7	3052.2	3130.5	3225.6	3330.0	3421.4	3438.2	3509.0
15°	3000.0	3022.4	3044.8	3104.4	3188.3	3303.9	3415.8	3529.5	3546.3	3647.0
17.5°	3080.2	3110.0	3126.8	3186.5	3276.0	3404.6	3551.9	3682.4	3697.3	3814.8
20°	3238.7	3274.1	3279.7	3328.2	3415.8	3553.8	3729.0	3891.3	3909.9	4044.1
22.5°	3566.8	3617.2	3572.4	3596.7	3675.0	3812.9	4003.1	4208.2	4234.3	4387.2
25°	4144.8	4215.7	4100.1	4059.1	4092.6	4236.2	4474.8	4734.0	4763.8	4886.9
27.5°	5280.3	5189.0	5013.7	4842.2	4741.5	4823.5	5092.0	5412.7	5450.0	5569.3
30°	6527.7	6447.5	6210.7	5830.4	5591.7	5578.6	5826.6	6184.6	6227.5	6341.2
32.5°	7776.9	7700.5	7443.2	6975.2	6561.2	6356.1	6527.7	6924.8	6947.2	7019.9
35°	9005.6	8927.3	8670.0	8190.8	7681.8	7215.7	7182.1	7629.6	7637.1	7713.5
37.5°	10241.8	10176.5	9902.5	9432.6	8931.0	8287.8	7976.4	8297.1	8306.4	8381.0
40°	11123.7	11151.7	10963.4	10599.8	10169.1	9466.2	8867.7	9007.5	8951.6	9076.5
42.5°	11880.7	11936.7	11772.6	11589.9	11340.0	10721.0	9971.4	9947.2	9857.7	9924.8
45°	12535.2	12581.8	12434.5	12391.6	12386.0	11951.6	11177.8	11032.4	10907.4	10894.4
47.5°	12775.7	12865.2	12928.6	13072.1	13351.8	13169.1	12425.2	12199.5	12059.7	11957.2
50°	12867.0	12962.1	13178.4	13596.1	14258.0	14336.3	13666.9	13413.4	13241.8	13055.4
52.5°	12744.0	12913.7	13204.5	13907.4	14867.7	15272.3	14858.4	14636.5	14440.7	14136.8
55°	12018.7	12188.4	12783.1	13903.7	15171.6	15928.6	15984.5	15885.7	15665.7	15186.5
57.5°	10489.8	10741.5	11683.1	13430.1	15166.0	16493.5	17088.3	17159.2	16913.1	16226.9
60°	8371.7	8712.9	9861.4	12380.4	14698.0	16799.3	18056.0	18410.3	18149.2	17252.4
62.5°	5841.5	6236.8	7323.8	10735.9	13627.8	16579.3	18762.7	19417.1	19219.5	18169.7
65°	3563.1	3689.9	4566.2	8448.1	11808.0	15658.2	18980.8	19961.5	19896.3	18731.0
67.5°	2373.5	2479.8	2731.5	5793.1	9166.0	13818.0	18458.7	19866.5	19885.1	18639.6
70°	1430.1	1521.4	1685.5	3369.2	5940.4	10937.3	16842.2	18654.5	18762.7	17418.3
72.5°	589.2	650.7	799.9	1527.0	3076.5	6941.6	13411.5	16016.2	16267.9	14645.8
75°	333.7	365.4	469.9	766.3	1335.0	3234.9	8123.7	11369.8	11740.9	10094.5
77.5°	221.9	236.8	303.9	496.0	751.4	1103.8	3471.7	5923.6	6632.1	5513.4
80°	149.2	162.2	208.8	331.9	488.5	473.6	1105.7	2194.5	2699.8	1894.4
82.5°	100.7	102.5	149.2	218.1	309.5	229.3	326.3	682.4	857.7	548.2
85°	57.8	55.9	110.0	126.8	138.0	95.1	98.8	205.1	268.5	231.2
87.5°	7.5	11.2	42.9	33.6	18.6	20.5	20.5	35.4	52.2	55.9
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°
3234.9	0°	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9	3234.9
3238.7	2.5°	3238.7	3236.8	3231.2	3225.6	3212.6	3205.1	3208.8	3205.1	3203.2	3205.1
3262.9	5°	3262.9	3257.3	3242.4	3223.8	3197.7	3166.0	3145.4	3115.6	3087.6	3070.9
3328.2	7.5°	3328.2	3322.6	3302.1	3249.9	3166.0	3033.6	2912.4	2806.1	2725.9	2679.3
3432.6	10°	3432.6	3423.3	3391.6	3276.0	3055.9	2766.9	2526.4	2326.9	2196.4	2134.9
3555.6	12.5°	3555.6	3544.5	3488.5	3251.7	2847.1	2395.9	2064.0	1842.1	1721.0	1666.9
3697.3	15°	3701.1	3686.2	3576.1	3136.1	2543.2	1985.7	1681.8	1515.9	1437.5	1389.1
3878.2	17.5°	3881.9	3855.8	3641.4	2962.7	2213.2	1672.5	1446.9	1321.9	1253.0	1206.3
4115.0	20°	4116.9	4074.0	3693.6	2755.8	1909.3	1474.8	1288.4	1184.0	1131.8	1090.7
4450.6	22.5°	4445.0	4383.5	3757.0	2532.0	1694.8	1338.7	1170.9	1094.5	1051.6	1005.0
4918.6	25°	4851.5	4778.8	3835.3	2325.1	1547.6	1221.3	1085.2	1021.8	971.4	917.3
5532.0	27.5°	5420.2	5289.6	3928.5	2155.4	1420.8	1120.6	1006.8	936.0	878.2	833.4
6227.5	30°	6054.1	5839.7	4010.6	2052.8	1305.2	1027.4	904.3	833.4	779.4	747.7
6852.1	32.5°	6654.5	6363.6	4064.7	2008.1	1200.8	921.1	792.4	716.0	675.0	665.6
7463.7	35°	7221.3	6837.2	4059.1	1965.2	1107.5	814.8	682.4	604.1	572.4	578.0
8121.8	37.5°	7873.9	7342.5	4019.9	1898.1	1031.1	717.8	587.3	518.3	490.4	492.2
8921.7	40°	8632.7	7926.1	3995.7	1771.3	947.2	628.3	509.0	453.1	432.6	425.1
9764.5	42.5°	9441.9	8491.0	3999.4	1627.7	842.8	548.2	454.9	408.3	389.7	384.1
10702.3	45°	10254.9	9029.9	4005.0	1478.6	732.8	486.6	415.8	376.6	365.4	358.0
11653.2	47.5°	11019.3	9488.5	3900.6	1318.2	624.6	440.0	384.1	358.0	348.7	339.3
12607.9	50°	11731.6	9794.3	3648.9	1131.8	538.8	402.7	359.9	341.2	331.9	322.6
13473.0	52.5°	12285.3	9842.8	3233.1	939.7	479.2	374.8	344.9	328.2	317.0	307.6
14172.2	55°	12531.4	9538.9	2642.0	760.7	432.6	350.5	330.0	313.2	300.2	290.9
14722.2	57.5°	12468.0	8899.3	2060.3	611.6	387.8	326.3	311.4	300.2	285.3	270.4
15167.9	60°	12156.7	8043.5	1553.1	509.0	346.8	300.2	290.9	281.5	261.0	238.7
15339.4	62.5°	11617.8	6967.7	1107.5	421.4	302.1	270.4	266.6	259.2	229.3	188.3
15085.8	65°	10793.7	5660.7	745.8	350.5	259.2	236.8	238.7	225.6	186.5	139.8
14157.3	67.5°	9589.2	4139.2	477.3	287.1	216.3	197.6	199.5	192.0	158.5	119.3
12397.2	70°	8054.7	2740.8	311.4	218.1	173.4	152.9	164.1	165.9	134.2	97.0
9514.6	72.5°	5904.9	1618.4	218.1	162.2	126.8	106.3	134.2	138.0	108.1	72.7
5724.1	75°	3365.5	768.2	164.1	117.5	78.3	74.6	104.4	104.4	74.6	48.5
2477.9	77.5°	1413.3	320.7	115.6	76.4	44.7	42.9	70.9	65.3	37.3	22.4
604.1	80°	408.3	143.6	61.5	37.3	18.6	16.8	28.0	20.5	9.3	3.7
229.3	82.5°	160.3	63.4	24.2	14.9	7.5	7.5	3.7	0.0	0.0	0.0
130.5	85°	95.1	26.1	11.2	5.6	1.9	0.0	0.0	0.0	0.0	0.0
28.0	87.5°	24.2	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3234.9
3212.6
3074.6
2681.2
2129.3
1661.3
1390.9
1202.6
1083.3
997.5
911.7
824.1
742.1
671.2
578.0
499.7
423.2
382.2
358.0
339.3
322.6
305.8
289.0
268.5
234.9
184.6
136.1
113.7
93.2
69.0
44.7
22.4
3.7
0.0
0.0
0.0
0.0

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