

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: P957585

Luminaire Tested: **GALN-SB9D-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55139 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

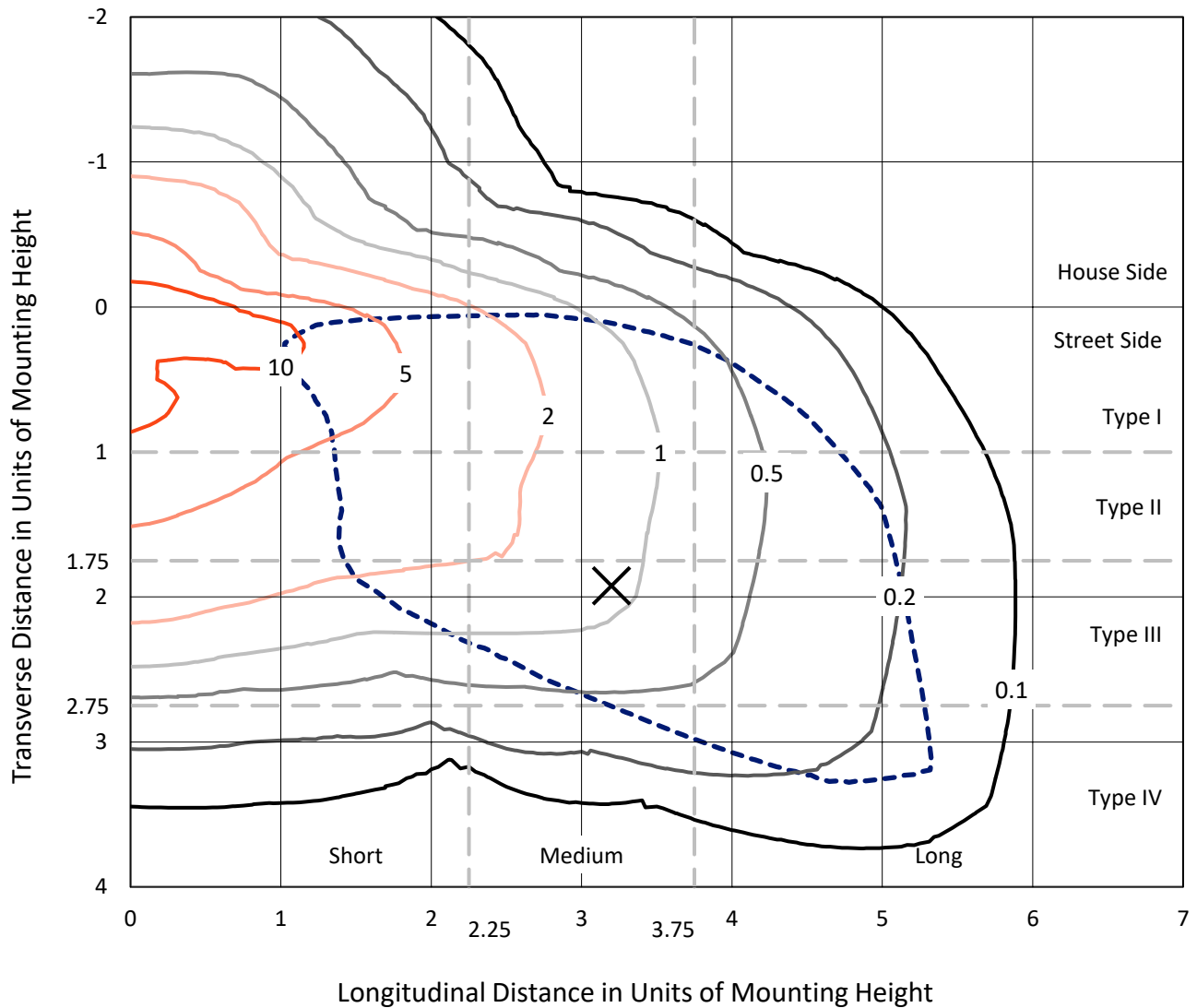
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

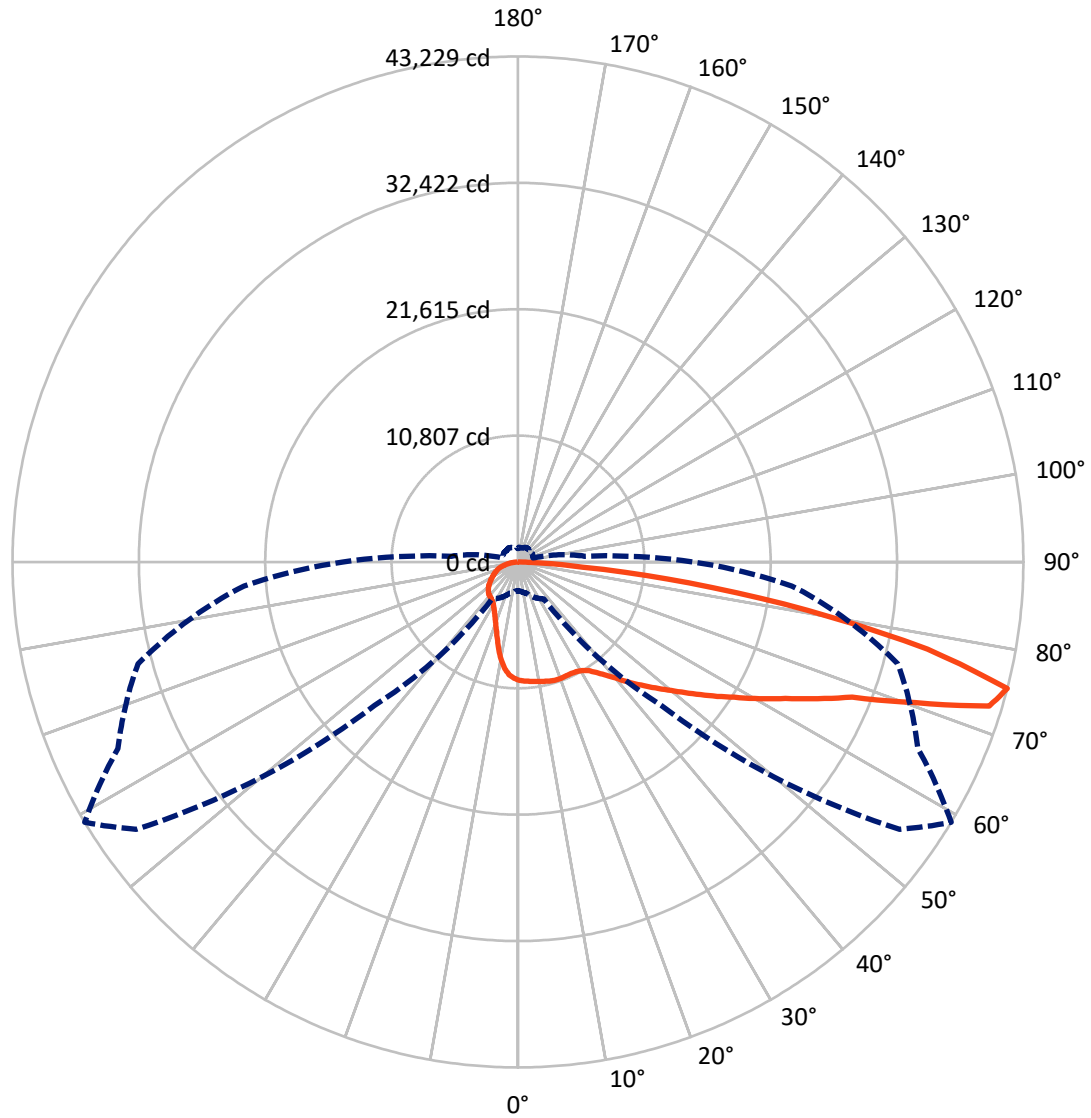
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10341.7	0.0	10341.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	44797.3	0.0	44797.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	55139.0	0.0	55139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.5	1.6
10°-20°	2319.6	4.2
20°-30°	3523.3	6.4
30°-40°	5237.2	9.5
40°-50°	7788.7	14.1
50°-60°	10572.2	19.2
60°-70°	12906.9	23.4
70°-80°	10129.2	18.4
80°-90°	1754.6	3.2
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°	55139.0	100.0
0°-180°	55139.0	100.0

Coefficient of Utilization



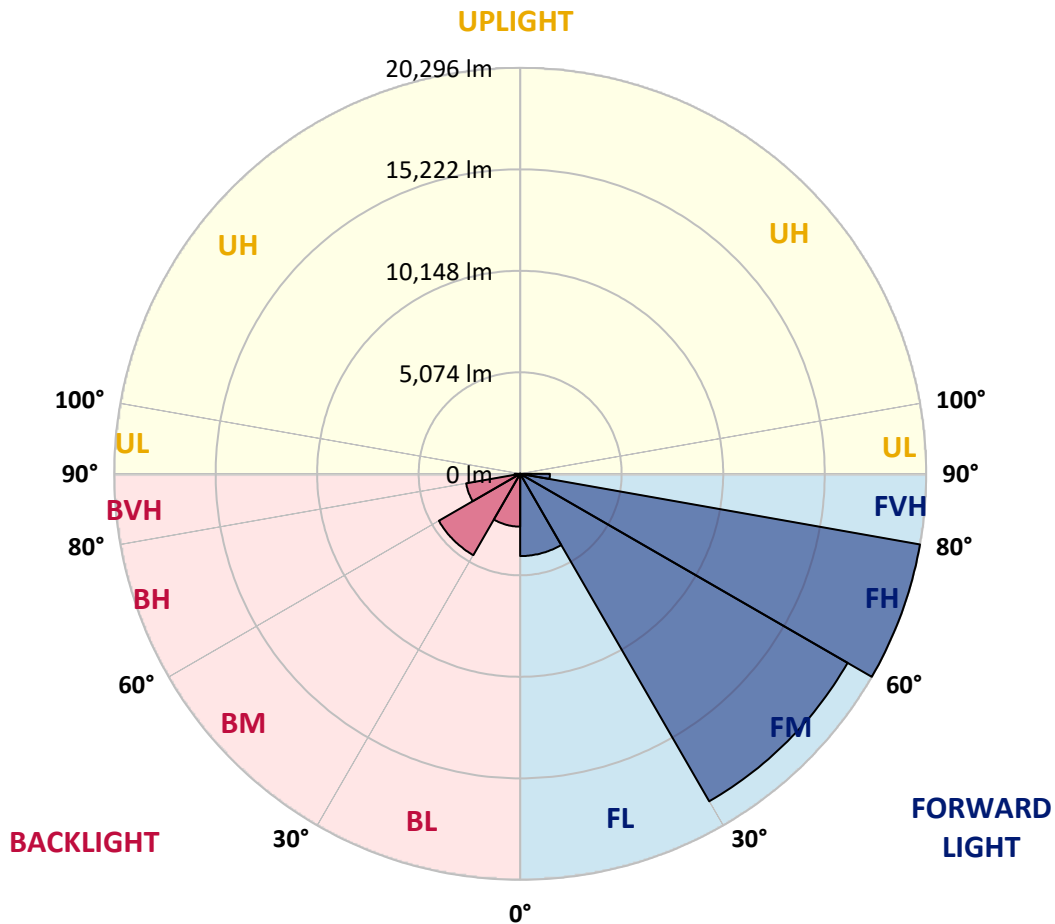
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4111.2	7.5			
FM (30°-60°)	18903.9	34.3			
FH (60°-80°)	20296.1	36.8			G5
FVH (80°-90°)	1486.0	2.7			G5
BL (0°-30°)	2639.1	4.8	B4/5000		
BM (30°-60°)	4694.1	8.5	B3/5000		
BH (60°-80°)	2739.9	5.0	B4/5000		G4/5000
BVH (80°-90°)	268.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6
2.5°	10206.7	10171.1	10206.7	10191.8	10185.9	10174.0	10177.0	10197.8	10185.9	10200.7
5°	10138.4	10117.7	10153.3	10144.4	10182.9	10188.9	10227.4	10251.2	10266.0	10269.0
7.5°	10025.7	10005.0	10055.4	10096.9	10180.0	10203.7	10283.8	10322.3	10343.1	10378.7
10°	9613.4	9604.5	9729.1	9886.3	10082.1	10203.7	10325.3	10390.6	10423.2	10518.1
12.5°	8883.7	8895.6	9058.7	9361.3	9752.8	10144.4	10372.8	10467.7	10518.1	10636.8
15°	8186.7	8183.7	8361.7	8685.0	9233.7	9883.3	10396.5	10559.6	10645.7	10820.7
17.5°	7783.3	7771.4	7896.0	8142.2	8652.4	9482.9	10337.2	10610.1	10794.0	11013.5
20°	7709.1	7685.4	7750.7	7872.3	8234.1	9043.9	10182.9	10610.1	10912.6	11197.4
22.5°	7979.1	7940.5	7913.8	7899.0	8059.1	8682.0	10007.9	10574.5	11087.6	11461.4
25°	8521.9	8462.5	8326.1	8192.6	8145.2	8518.9	9853.7	10565.6	11348.6	11817.3
27.5°	9399.9	9325.7	9049.8	8729.5	8441.8	8602.0	9785.5	10619.0	11636.4	12194.0
30°	10488.4	10408.4	10061.3	9568.9	9052.8	8910.4	9871.5	10776.2	12004.2	12695.3
32.5°	11464.3	11375.3	11078.7	10577.4	9880.4	9444.3	10144.4	11075.8	12582.6	13392.3
35°	12330.5	12226.6	11959.7	11497.0	10894.8	10194.8	10636.8	11606.7	13404.2	14525.4
37.5°	13178.8	13057.2	12766.5	12277.1	11855.9	11194.4	11316.0	12288.9	14495.8	15901.7
40°	14128.0	13953.0	13600.0	13116.5	12707.2	12366.0	12208.8	13125.4	15605.1	17438.2
42.5°	15047.5	14881.4	14460.2	14047.9	13534.7	13436.8	13244.0	14104.2	16818.3	19126.0
45°	16038.2	15839.5	15329.3	14807.2	14483.9	14148.7	14246.6	15083.1	18007.7	20846.4
47.5°	16966.6	16744.1	16142.0	15560.6	15382.7	14747.9	15166.1	16159.8	19244.6	22590.5
50°	17467.9	17248.4	16747.1	16222.1	16082.7	15486.5	16162.8	17343.3	20540.9	24328.7
52.5°	17886.1	17648.8	16993.3	16702.6	16661.1	16290.3	17390.8	18695.9	21837.1	25865.2
55°	18331.1	18067.1	17230.6	16969.6	17159.4	17192.0	18847.2	20229.4	23207.5	27363.1
57.5°	18844.2	18509.0	17459.0	17195.0	17645.9	18248.0	20520.1	21819.3	24554.1	28751.3
60°	19327.7	18989.5	17898.0	17553.9	18170.9	19473.0	22439.2	23744.4	26078.7	29988.2
62.5°	19422.6	19143.8	18248.0	18245.0	18882.8	20902.7	24711.3	25687.2	27410.6	31210.3
65°	17779.3	17604.3	17073.4	18218.3	19903.1	22961.3	27241.5	28172.9	29104.3	32278.1
67.5°	13531.8	13555.5	13516.9	15726.7	19078.5	25918.6	30904.7	30833.5	31195.4	33476.4
70°	6187.5	6326.9	7234.5	10856.3	15284.8	26259.7	36961.7	36039.2	33820.5	35027.7
72.5°	3342.9	3449.7	3820.5	5259.1	9189.3	23346.9	41488.1	42143.6	37311.7	36071.8
75°	2453.0	2512.4	2770.4	3342.9	3859.0	17352.2	39865.6	43229.3	37747.7	33636.6
77.5°	1836.1	1862.8	2073.4	2648.8	1975.5	9147.7	31853.9	35801.9	32313.7	27636.0
80°	1331.8	1361.5	1518.7	1987.3	1385.2	3345.9	21872.7	25129.6	22130.7	17616.2
82.5°	919.5	931.4	999.6	1352.6	967.0	1299.2	12410.5	14736.0	12354.2	6181.5
85°	554.7	569.5	599.2	789.0	548.7	617.0	5356.9	5540.8	3692.9	1477.2
87.5°	228.4	243.2	267.0	332.2	216.5	172.0	883.9	1109.4	691.1	433.1
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°
10120.6	0°	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6	10120.6
10150.3	2.5°	10135.5	10114.7	10058.4	9981.2	9910.0	9821.1	9782.5	9749.9	9720.2	9663.8
10230.4	5°	10197.8	10141.4	9990.1	9794.4	9571.9	9328.7	9091.4	8928.2	8788.8	8685.0
10322.3	7.5°	10292.7	10185.9	9910.0	9509.6	8999.4	8477.4	8005.7	7670.6	7418.4	7326.5
10452.9	10°	10390.6	10263.0	9782.5	9076.5	8195.6	7391.7	6765.9	6421.8	6220.1	6154.8
10607.1	12.5°	10506.2	10319.4	9583.8	8474.4	7296.8	6415.9	5870.1	5668.4	5564.6	5529.0
10796.9	15°	10675.3	10366.8	9284.2	7721.0	6439.6	5704.0	5351.0	5211.6	5158.2	5155.2
10992.7	17.5°	10802.9	10375.7	8818.5	6914.2	5781.1	5273.9	4983.2	4929.8	4965.4	5018.8
11185.5	20°	10945.2	10295.6	8207.4	6178.6	5318.4	4897.2	4775.6	4811.2	4897.2	4974.3
11440.6	22.5°	11046.1	10150.3	7468.9	5606.1	4917.9	4680.6	4674.7	4748.9	4796.3	4834.9
11740.2	25°	11135.1	9904.1	6685.8	5125.6	4588.7	4550.1	4615.4	4591.7	4559.0	4591.7
12039.8	27.5°	11200.3	9515.5	5985.8	4704.4	4357.3	4461.1	4422.6	4369.2	4366.2	4384.0
12392.7	30°	11179.6	8996.5	5410.3	4303.9	4194.2	4295.0	4203.1	4194.2	4185.3	4194.2
12923.7	32.5°	11179.6	8406.2	4968.4	4028.1	4090.4	4051.8	4042.9	4022.2	3986.6	3983.6
13644.5	35°	11241.9	7815.9	4588.7	3879.8	4004.4	3912.4	3918.3	3867.9	3793.8	3758.2
14599.6	37.5°	11369.4	7341.3	4212.0	3808.6	3853.1	3850.1	3826.4	3740.4	3609.9	3497.1
15792.0	40°	11677.9	7201.9	3953.9	3776.0	3781.9	3817.5	3755.2	3589.1	3292.5	3108.6
17002.2	42.5°	12161.4	7436.2	3897.6	3695.9	3734.4	3770.0	3648.4	3262.8	3052.2	2942.5
18271.7	45°	12775.4	7845.6	4019.2	3580.2	3621.7	3684.0	3322.1	3138.2	3043.3	3046.3
19529.4	47.5°	13552.5	8275.7	4244.6	3479.3	3458.6	3494.2	3105.6	2992.9	2862.4	2895.0
20736.6	50°	14451.3	8711.7	4458.2	3342.9	3277.6	3162.0	2966.2	2859.4	2693.3	2616.2
21902.3	52.5°	15424.2	9132.9	4544.2	3176.8	3081.9	2948.4	2871.3	2740.8	2539.1	2411.5
23002.8	55°	16346.7	9515.5	4449.3	2978.1	2886.1	2782.3	2770.4	2690.3	2473.8	2295.8
23981.6	57.5°	17218.7	9835.9	4212.0	2776.4	2687.4	2625.1	2705.2	2666.6	2393.7	2165.3
24907.1	60°	17957.3	10055.4	3867.9	2571.7	2509.4	2476.8	2598.4	2586.5	2281.0	2025.9
25737.6	62.5°	18544.6	10141.4	3488.2	2375.9	2361.1	2301.8	2450.1	2450.1	2138.6	1889.5
26467.3	65°	19004.4	10058.4	3102.6	2183.1	2212.8	2123.8	2269.1	2251.3	1987.3	1767.8
27306.7	67.5°	19410.7	9785.5	2675.5	1993.3	2061.5	1948.8	2079.3	2037.8	1821.2	1646.2
28033.5	70°	19591.7	9150.7	2189.0	1803.4	1886.5	1776.7	1889.5	1812.3	1634.4	1515.7
27235.6	72.5°	18138.3	7605.3	1723.4	1604.7	1675.9	1586.9	1684.8	1595.8	1432.7	1379.3
23518.9	75°	15006.0	5706.9	1325.9	1388.2	1441.6	1373.3	1438.6	1373.3	1225.0	1263.6
17373.0	77.5°	10897.8	3853.1	1014.4	1159.8	1183.5	1147.9	1204.3	1130.1	996.6	987.7
8658.3	80°	5419.2	2257.3	794.9	916.6	907.7	883.9	949.2	913.6	800.9	848.3
2337.4	82.5°	1569.1	967.0	578.4	643.7	625.9	631.8	679.3	697.1	1044.1	1035.2
726.7	85°	492.4	379.7	347.0	358.9	341.1	350.0	400.4	794.9	735.6	430.1
225.4	87.5°	127.5	130.5	86.0	92.0	94.9	112.7	127.5	483.5	231.4	151.3
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>
10120.6
9637.2
8599.0
7166.3
6054.0
5537.9
5167.1
5039.6
5001.0
4855.7
4612.4
4413.7
4226.8
4022.2
3793.8
3535.7
3132.3
2942.5
3061.1
2978.1
2636.9
2408.5
2295.8
2153.5
2017.0
1880.6
1756.0
1634.4
1492.0
1334.8
<i>1153.8</i>
943.2
839.4
1058.9
465.7
160.2
0.0

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