

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: P955632

Luminaire Tested: **GALN-SB8C-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955632
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-SB8C-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62616 lumens
Efficiency: N/A
Efficacy: 156.6 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

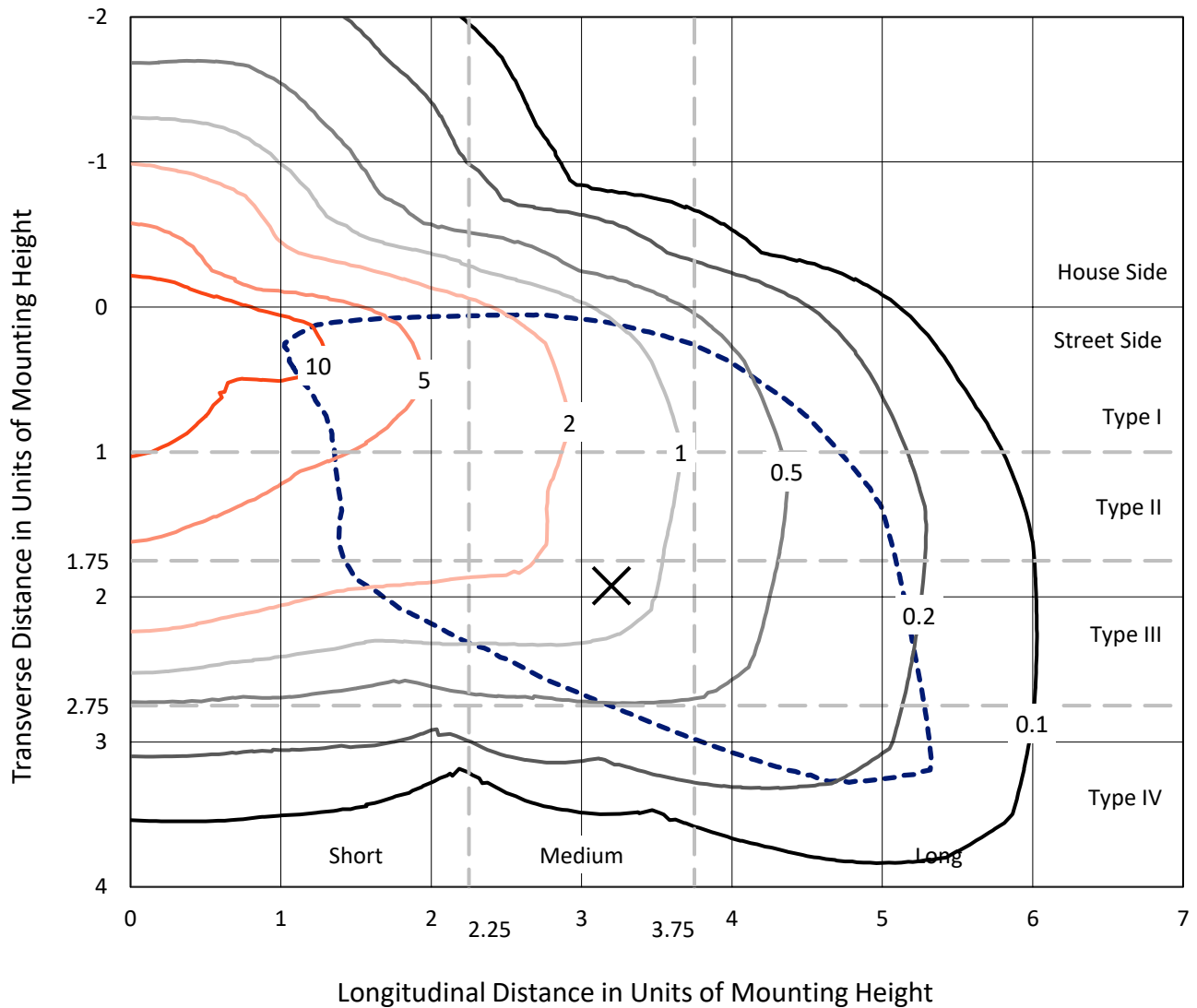
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955632
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Iso-Footcandle Lines of Horizontal Illumination

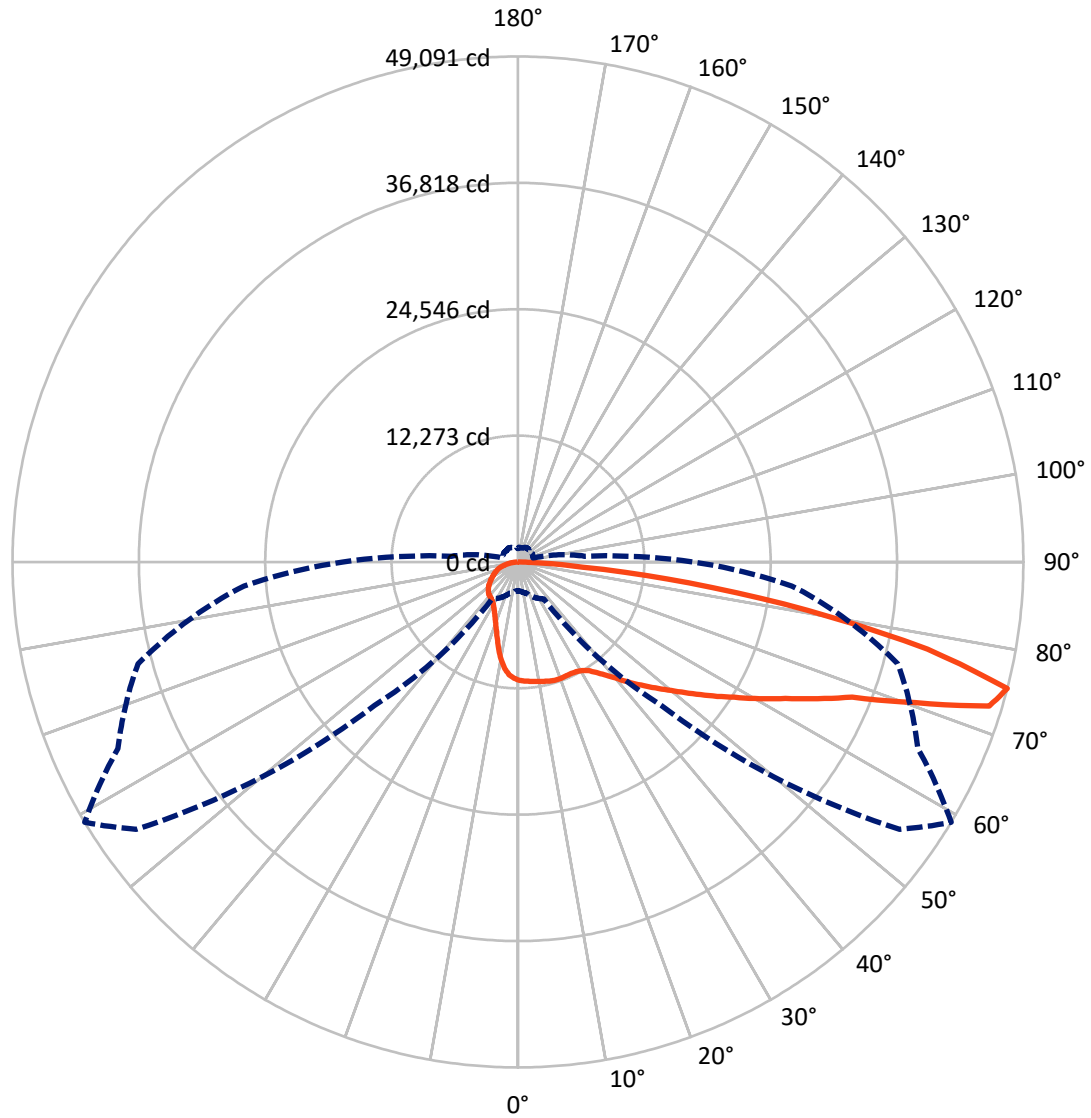
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P955632
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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	11744.1	0.0	11744.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	50871.9	0.0	50871.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	62616.0	0.0	62616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1030.5	1.6
10°-20°	2634.1	4.2
20°-30°	4001.0	6.4
30°-40°	5947.4	9.5
40°-50°	8844.8	14.1
50°-60°	12005.8	19.2
60°-70°	14657.1	23.4
70°-80°	11502.7	18.4
80°-90°	1992.6	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°	62616.0	100.0
0°-180°	62616.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955632

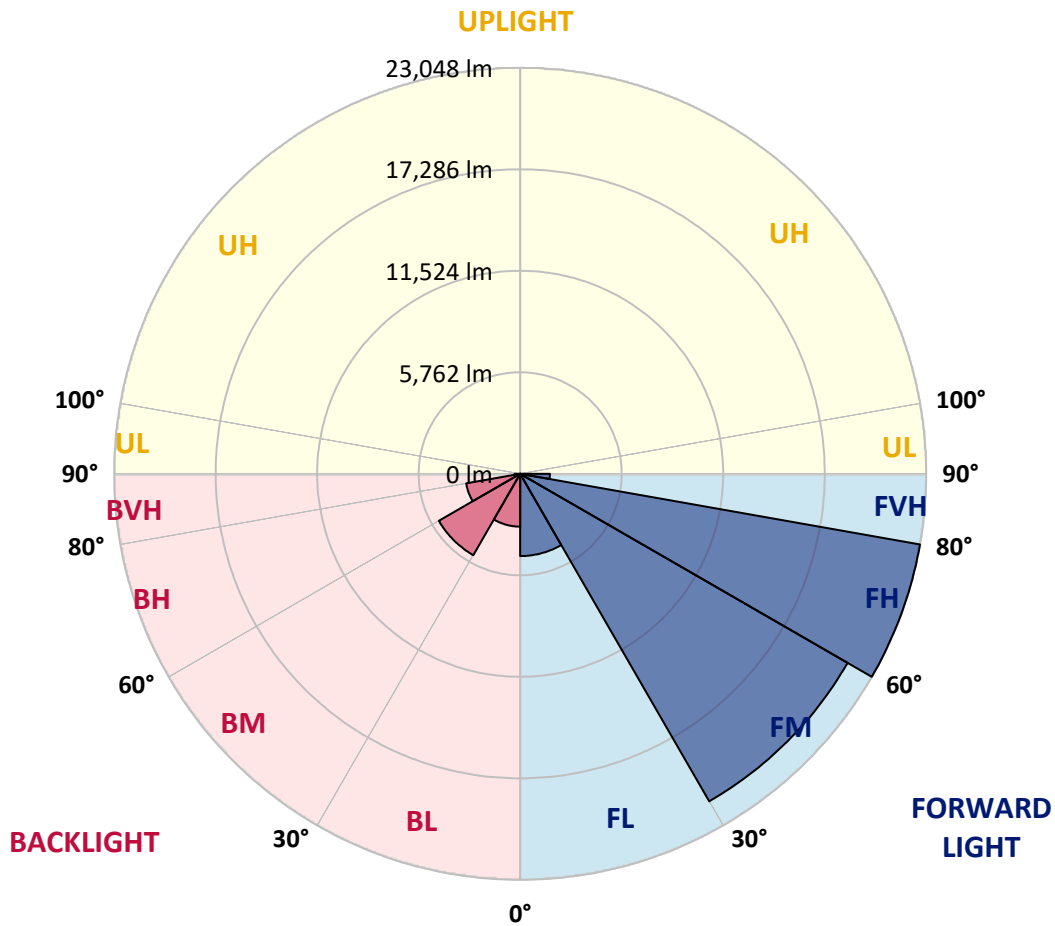
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4668.7	7.5			
FM (30°-60°)	21467.4	34.3			
FH (60°-80°)	23048.3	36.8			G5
FVH (80°-90°)	1687.5	2.7			G5
BL (0°-30°)	2997.0	4.8	B4/5000		
BM (30°-60°)	5330.6	8.5	B4/8500		
BH (60°-80°)	3111.5	5.0	B4/5000		G4/5000
BVH (80°-90°)	305.0	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



REPORT NUMBER: P955632
 CATALOG NUMBER: GALN-SB8C-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0
2.5°	11590.7	11550.3	11590.7	11573.9	11567.1	11553.7	11557.0	11580.6	11567.1	11584.0
5°	11513.2	11489.7	11530.1	11520.0	11563.8	11570.5	11614.3	11641.2	11658.1	11661.4
7.5°	11385.2	11361.7	11418.9	11466.1	11560.4	11587.3	11678.3	11722.1	11745.7	11786.1
10°	10917.0	10906.9	11048.4	11226.9	11449.2	11587.3	11725.4	11799.6	11836.6	11944.4
12.5°	10088.4	10101.9	10287.1	10630.7	11075.3	11520.0	11779.3	11887.1	11944.4	12079.1
15°	9296.8	9293.5	9495.6	9862.7	10485.9	11223.6	11806.3	11991.6	12089.2	12288.0
17.5°	8838.7	8825.2	8966.7	9246.3	9825.7	10768.8	11738.9	12048.8	12257.7	12506.9
20°	8754.5	8727.6	8801.7	8939.8	9350.7	10270.3	11563.8	12048.8	12392.4	12715.8
22.5°	9061.0	9017.2	8986.9	8970.1	9152.0	9859.3	11365.0	12008.4	12591.1	13015.6
25°	9677.5	9610.1	9455.1	9303.6	9249.7	9674.1	11189.9	11998.3	12887.6	13419.8
27.5°	10674.5	10590.3	10277.0	9913.2	9586.5	9768.4	11112.4	12058.9	13214.3	13847.5
30°	11910.7	11819.8	11425.7	10866.5	10280.4	10118.7	11210.1	12237.4	13632.0	14416.8
32.5°	13018.9	12917.9	12581.0	12011.8	11220.2	10725.0	11520.0	12577.7	14288.8	15208.4
35°	14002.5	13884.6	13581.4	13056.0	12372.2	11577.2	12079.1	13180.6	15221.9	16495.1
37.5°	14965.9	14827.8	14497.7	13941.9	13463.5	12712.4	12850.5	13955.3	16461.4	18058.1
40°	16043.8	15845.0	15444.2	14895.1	14430.3	14042.9	13864.4	14905.2	17721.2	19802.9
42.5°	17088.0	16899.3	16421.0	15952.8	15370.1	15258.9	15040.0	16016.8	19098.9	21719.5
45°	18213.0	17987.3	17408.0	16815.1	16448.0	16067.3	16178.5	17128.4	20449.6	23673.2
47.5°	19267.3	19014.7	18330.9	17670.7	17468.6	16747.8	17222.7	18351.1	21854.3	25653.8
50°	19836.6	19587.3	19018.1	18421.9	18263.5	17586.5	18354.5	19695.1	23326.3	27627.7
52.5°	20311.5	20042.1	19297.6	18967.5	18920.4	18499.3	19749.0	21231.1	24798.3	29372.6
55°	20816.8	20517.0	19567.1	19270.7	19486.3	19523.3	21402.9	22972.6	26354.5	31073.6
57.5°	21399.5	21018.9	19826.5	19526.7	20038.7	20722.5	23302.7	24778.1	27883.7	32650.0
60°	21948.6	21564.6	20325.0	19934.3	20634.9	22113.6	25482.0	26964.2	29615.1	34054.7
62.5°	22056.4	21739.7	20722.5	20719.1	21443.3	23737.2	28062.3	29170.5	31127.5	35442.4
65°	20190.3	19991.5	19388.6	20688.8	22602.1	26074.9	30935.5	31993.2	33050.9	36655.1
67.5°	15366.7	15393.7	15349.9	17859.3	21665.6	29433.2	35095.5	35014.7	35425.6	38015.9
70°	7026.5	7184.8	8215.6	12328.4	17357.4	29820.6	41973.8	40926.2	38406.7	39777.6
72.5°	3796.2	3917.5	4338.5	5972.2	10435.3	26512.8	47114.0	47858.4	42371.3	40963.3
75°	2785.7	2853.0	3146.1	3796.2	4382.3	19705.2	45271.5	49091.3	42866.4	38197.8
77.5°	2085.0	2115.4	2354.5	3008.0	2243.4	10388.2	36173.4	40656.8	36695.5	31383.5
80°	1512.4	1546.1	1724.6	2256.8	1573.0	3799.6	24838.7	28537.2	25131.7	20005.0
82.5°	1044.2	1057.7	1135.2	1536.0	1098.1	1475.4	14093.4	16734.3	14029.4	7019.8
85°	629.9	646.7	680.4	896.0	623.2	700.6	6083.4	6292.2	4193.7	1677.5
87.5°	259.4	276.2	303.2	377.3	245.9	195.4	1003.8	1259.8	784.8	491.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955632
 CATALOG NUMBER: GALN-SB8C-740-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11493.0	0°	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0	11493.0
11526.7	2.5°	11509.9	11486.3	11422.3	11334.7	11253.9	11152.8	11109.0	11072.0	11038.3	10974.3
11617.7	5°	11580.6	11516.6	11344.8	11122.5	10869.9	10593.7	10324.2	10138.9	9980.6	9862.7
11722.1	7.5°	11688.4	11567.1	11253.9	10799.1	10219.8	9626.9	9091.3	8710.7	8424.4	8320.0
11870.3	10°	11799.6	11654.7	11109.0	10307.3	9306.9	8394.1	7683.4	7292.6	7063.6	6989.5
12045.4	12.5°	11930.9	11718.7	10883.3	9623.6	8286.3	7285.9	6666.1	6437.0	6319.1	6278.7
12261.0	15°	12122.9	11772.6	10543.1	8768.0	7312.8	6477.5	6076.6	5918.3	5857.7	5854.3
12483.3	17.5°	12267.8	11782.7	10014.3	7851.8	6565.0	5989.0	5658.9	5598.3	5638.7	5699.4
12702.3	20°	12429.4	11691.8	9320.4	7016.4	6039.6	5561.3	5423.1	5463.6	5561.3	5648.8
12992.0	22.5°	12544.0	11526.7	8481.7	6366.3	5584.8	5315.4	5308.6	5392.8	5446.7	5490.5
13332.2	25°	12645.0	11247.1	7592.4	5820.6	5210.9	5167.1	5241.3	5214.3	5177.3	5214.3
13672.4	27.5°	12719.1	10805.9	6797.5	5342.3	4948.2	5066.1	5022.3	4961.7	4958.3	4978.5
14073.2	30°	12695.6	10216.4	6144.0	4887.6	4762.9	4877.5	4773.0	4762.9	4752.8	4762.9
14676.2	32.5°	12695.6	9546.1	5642.1	4574.3	4645.0	4601.3	4591.1	4567.6	4527.1	4523.8
15494.7	35°	12766.3	8875.8	5210.9	4405.9	4547.4	4442.9	4449.7	4392.4	4308.2	4267.8
16579.3	37.5°	12911.1	8336.8	4783.1	4325.0	4375.6	4372.2	4345.3	4247.6	4099.4	3971.4
17933.4	40°	13261.4	8178.5	4490.1	4288.0	4294.7	4335.1	4264.4	4075.8	3738.9	3530.1
19307.7	42.5°	13810.5	8444.6	4426.1	4197.0	4240.8	4281.3	4143.1	3705.3	3466.1	3341.5
20749.4	45°	14507.8	8909.5	4564.2	4065.7	4112.8	4183.6	3772.6	3563.8	3456.0	3459.4
22177.6	47.5°	15390.3	9397.9	4820.2	3951.1	3927.6	3968.0	3526.7	3398.7	3250.5	3287.6
23548.6	50°	16410.9	9893.0	5062.7	3796.2	3722.1	3590.7	3368.4	3247.2	3058.5	2970.9
24872.4	52.5°	17515.8	10371.3	5160.4	3607.6	3499.8	3348.2	3260.6	3112.4	2883.4	2738.5
26122.0	55°	18563.3	10805.9	5052.6	3381.9	3277.5	3159.6	3146.1	3055.2	2809.3	2607.2
27233.6	57.5°	19553.6	11169.7	4783.1	3152.8	3051.8	2981.0	3072.0	3028.2	2718.3	2458.9
28284.6	60°	20392.4	11418.9	4392.4	2920.4	2849.7	2812.6	2950.7	2937.3	2590.3	2300.6
29227.7	62.5°	21059.3	11516.6	3961.3	2698.1	2681.3	2613.9	2782.3	2782.3	2428.6	2145.7
30056.4	65°	21581.4	11422.3	3523.4	2479.2	2512.8	2411.8	2576.8	2556.6	2256.8	2007.6
31009.6	67.5°	22042.9	11112.4	3038.3	2263.6	2341.0	2213.0	2361.3	2314.1	2068.2	1869.5
31834.9	70°	22248.4	10391.6	2485.9	2048.0	2142.3	2017.7	2145.7	2058.1	1856.0	1721.3
30928.8	72.5°	20597.8	8636.6	1957.0	1822.3	1903.2	1802.1	1913.3	1812.2	1626.9	1566.3
26708.2	75°	17040.8	6480.8	1505.7	1576.4	1637.0	1559.6	1633.7	1559.6	1391.2	1434.9
19728.8	77.5°	12375.6	4375.6	1152.0	1317.0	1344.0	1303.6	1367.6	1283.4	1131.8	1121.7
9832.4	80°	6154.1	2563.4	902.7	1040.8	1030.7	1003.8	1077.9	1037.5	909.5	963.4
2654.3	82.5°	1781.9	1098.1	656.8	730.9	710.7	717.5	771.4	791.6	1185.7	1175.6
825.3	85°	559.2	431.2	394.1	407.6	387.4	397.5	454.7	902.7	835.4	488.4
256.0	87.5°	144.8	148.2	97.7	104.4	107.8	128.0	144.8	549.1	262.7	171.8
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>
11493.0
10944.0
9765.0
8138.1
6874.9
6288.8
5867.8
5722.9
5679.1
5514.1
5237.9
5012.2
4800.0
4567.6
4308.2
4015.1
3557.0
3341.5
3476.2
3381.9
2994.5
2735.2
2607.2
2445.5
2290.5
2135.6
1994.1
1856.0
1694.3
1515.8
1310.3
1071.2
953.3
1202.5
528.8
181.9
0.0

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