

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: P957299

Luminaire Tested: **GALN-SB9C-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50092 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

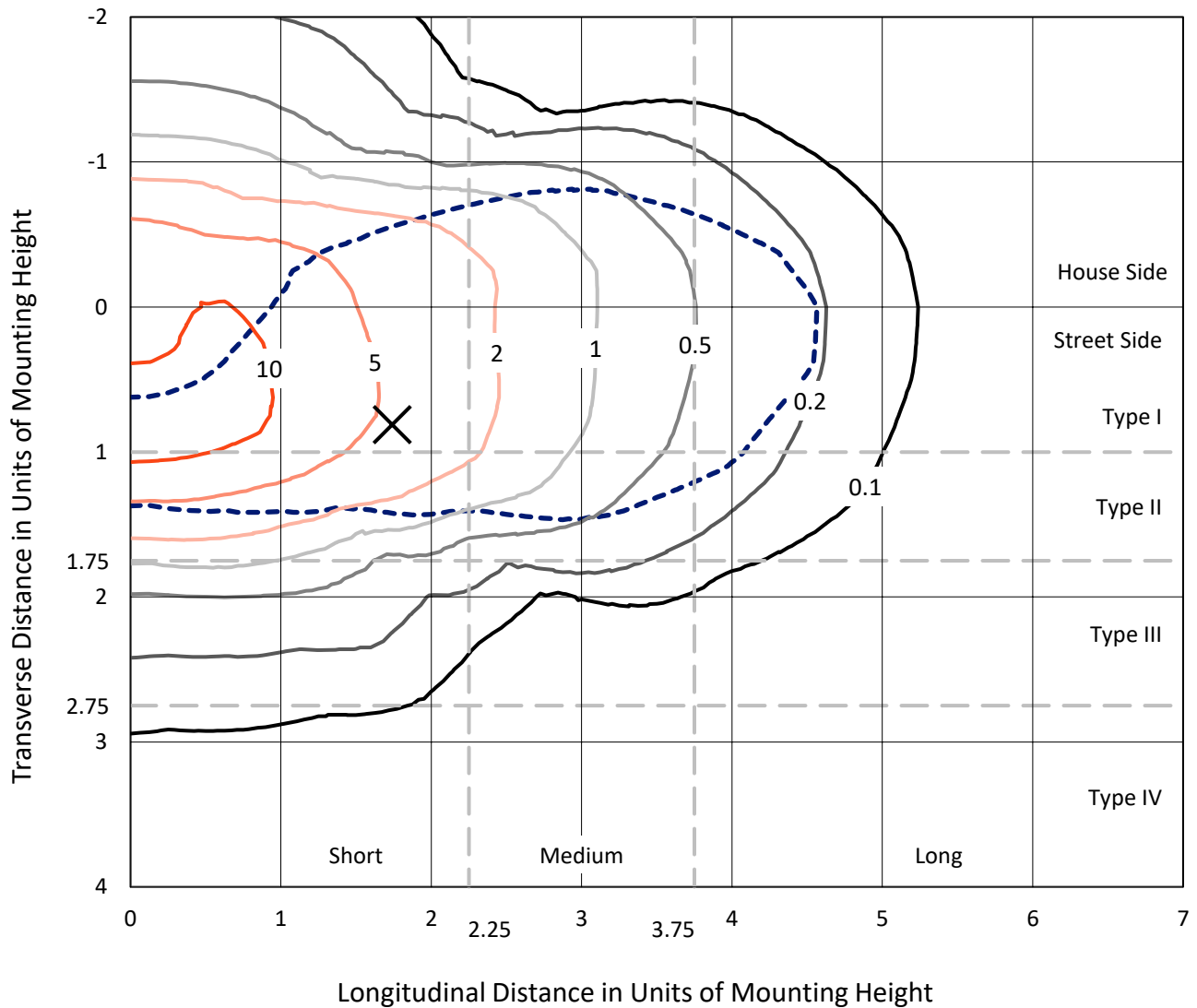
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

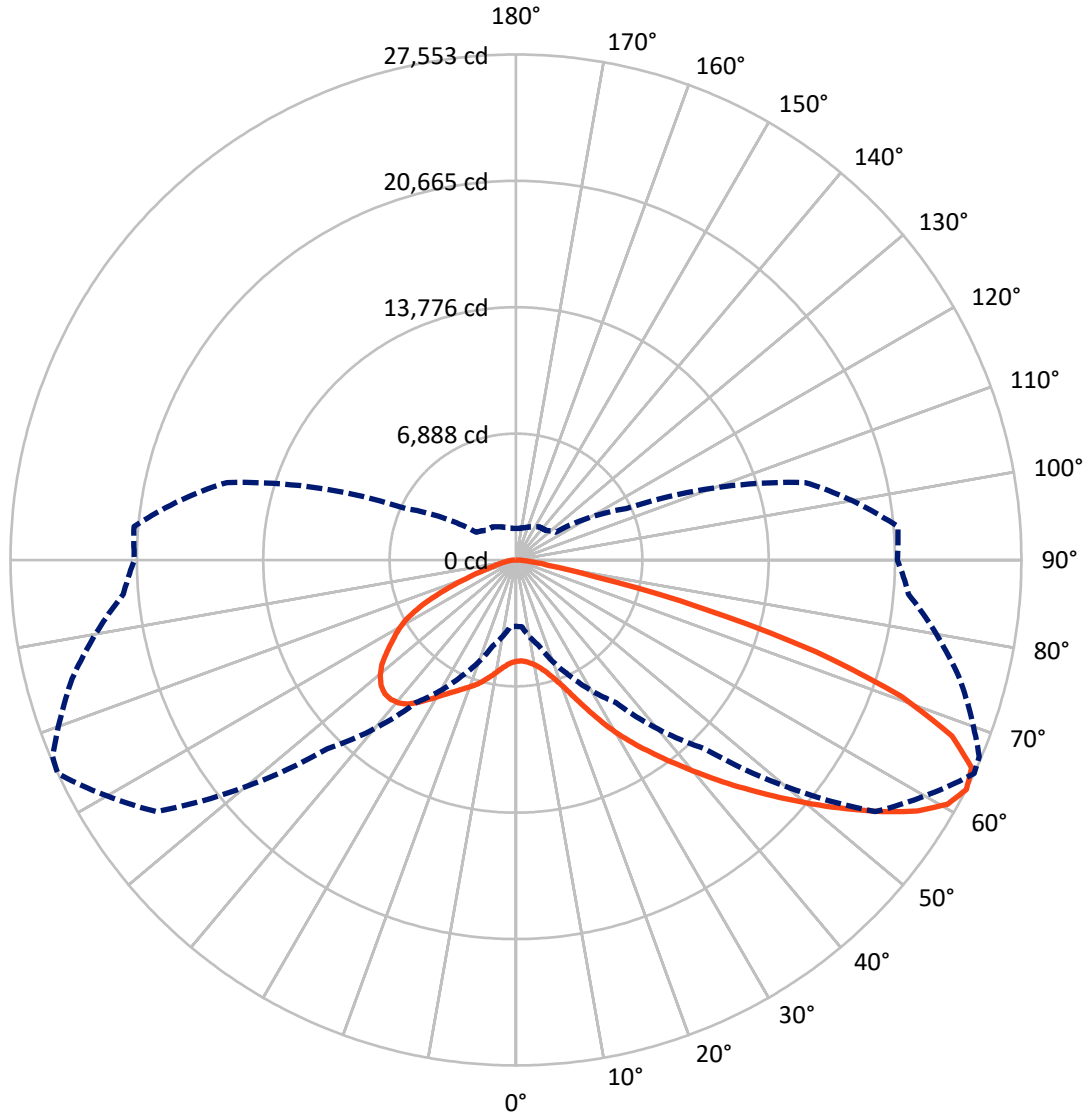
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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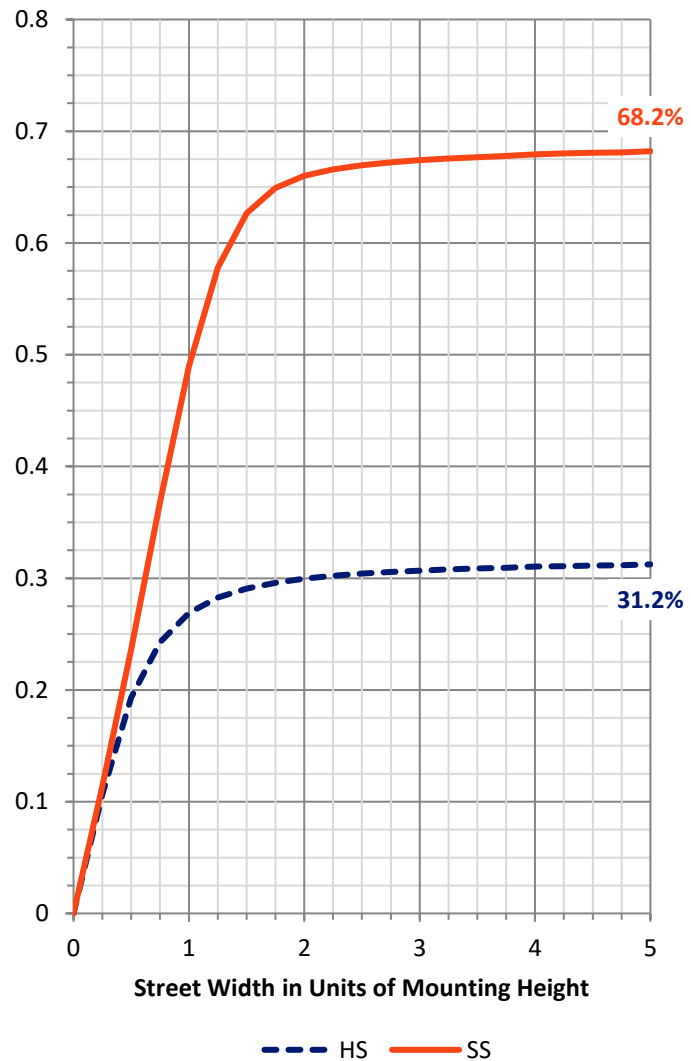
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15806.8	0.0	15806.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	34285.1	0.0	34285.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	50092.0	0.0	50092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.3	1.1
10°-20°	1866.2	3.7
20°-30°	3784.0	7.6
30°-40°	6548.1	13.1
40°-50°	9909.3	19.8
50°-60°	11618.0	23.2
60°-70°	9740.3	19.4
70°-80°	5377.4	10.7
80°-90°	698.5	1.4
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°	50092.0	100.0
0°-180°	50092.0	100.0

Coefficient of Utilization

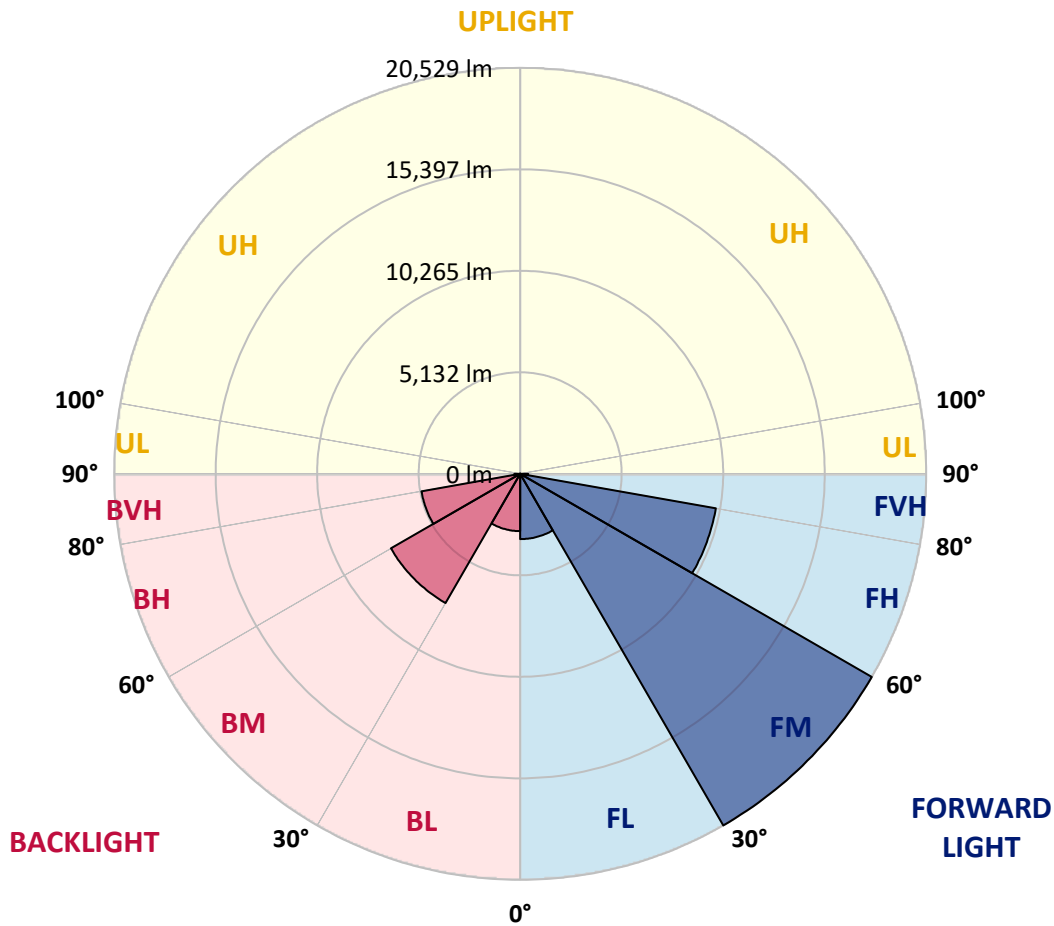


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3301.7	6.6			
FM	(30°-60°)	20529.3	41.0			
FH	(60°-80°)	10047.0	20.1			G4/12000
FVH	(80°-90°)	407.1	0.8			G3/500
BL	(0°-30°)	2898.8	5.8	B4/5000		
BM	(30°-60°)	7546.0	15.1	B4/8500		
BH	(60°-80°)	5070.7	10.1	B5		G5
BVH	(80°-90°)	291.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9
2.5°	5483.5	5467.9	5480.9	5480.9	5486.1	5483.5	5501.7	5506.9	5514.7	5530.3
5°	5429.0	5426.4	5449.8	5470.5	5491.3	5509.5	5532.9	5566.7	5571.9	5590.1
7.5°	5410.8	5395.2	5431.6	5457.5	5506.9	5551.1	5613.5	5670.7	5694.0	5701.8
10°	5551.1	5525.1	5558.9	5574.5	5616.1	5660.3	5733.0	5824.0	5850.0	5881.2
12.5°	5790.2	5761.6	5811.0	5834.4	5873.4	5912.3	5961.7	6050.1	6063.1	6120.3
15°	6117.7	6083.9	6115.1	6143.6	6208.6	6245.0	6294.4	6380.1	6380.1	6424.3
17.5°	6562.1	6517.9	6541.3	6551.7	6593.2	6647.8	6731.0	6806.3	6845.3	6829.7
20°	7224.8	7170.2	7170.2	7118.2	7102.6	7146.8	7255.9	7359.9	7401.5	7320.9
22.5°	8220.1	8142.1	8098.0	7921.2	7851.1	7856.3	7965.4	8092.8	8126.6	7983.6
25°	9485.7	9363.6	9303.8	9043.9	8885.4	8747.7	8833.4	8997.2	9043.9	8867.2
27.5°	10751.4	10759.2	10702.0	10390.1	10127.7	9875.6	9831.4	10002.9	10052.3	9852.2
30°	12526.4	12341.9	12232.7	11858.5	11484.2	11130.8	10948.9	11019.1	11032.0	10793.0
32.5°	14057.1	14010.3	13776.4	13449.0	12968.2	12414.6	12110.6	11998.8	11978.0	11637.6
35°	15800.9	15774.9	15528.0	15138.2	14618.4	13849.2	13300.8	12981.2	12955.2	12477.0
37.5°	17573.3	17573.3	17331.6	16905.4	16367.4	15405.9	14571.7	14064.9	13981.7	13358.0
40°	18987.1	18901.3	18945.5	18766.2	18150.2	17128.9	15982.8	15247.4	15135.6	14387.1
42.5°	19790.1	19761.5	20026.6	20226.7	19974.6	19158.6	17536.9	16528.6	16372.6	15520.2
45°	19969.4	19938.2	20411.2	21144.1	21497.5	21162.3	19226.2	17877.4	17687.7	16705.3
47.5°	19556.2	19493.8	20187.7	21344.2	22477.3	23067.2	21055.7	19340.5	19065.0	17859.2
50°	18314.0	18254.2	19304.1	20840.0	22807.4	24361.5	23041.3	20892.0	20471.0	19096.2
52.5°	15613.8	15642.4	17287.4	19397.7	22373.4	25167.1	24751.3	22526.7	22019.9	20361.9
55°	12162.5	12224.9	14246.8	16570.2	20637.3	25045.0	25918.2	24210.7	23706.6	21552.1
57.5°	8708.7	8984.2	10878.7	13178.7	17303.0	23108.8	26172.8	25811.6	25323.0	22851.5
60°	5644.7	5694.0	7643.2	9961.3	13176.1	19668.0	25655.7	27025.3	26643.2	24176.9
62.5°	3617.6	3651.4	4839.0	6967.5	9483.1	14550.9	23914.5	27552.8	27435.9	25052.7
65°	2658.6	2632.6	3251.1	4605.1	6387.9	8973.8	20533.4	27298.1	27529.4	25601.1
67.5°	2219.4	2183.0	2487.1	3188.8	4706.5	5096.3	15192.8	25642.7	26489.9	25538.7
70°	2021.9	1990.7	2175.2	2367.5	3672.2	3412.3	7658.8	22292.8	23597.4	24829.3
72.5°	1712.6	1658.1	1910.1	2102.5	2856.1	2617.0	3165.4	17123.7	18714.2	22555.3
75°	1328.0	1291.6	1507.3	1850.4	2146.6	2042.7	2001.1	10397.9	12134.0	17443.4
77.5°	1052.5	1003.1	1200.7	1442.4	1930.9	1541.1	1457.9	4477.8	6198.2	11136.0
80°	792.6	748.5	912.2	1140.9	1483.9	1161.7	943.4	1827.0	2336.4	5642.1
82.5°	563.9	525.0	636.7	836.8	998.0	1042.1	579.5	1023.9	1151.3	2175.2
85°	361.2	337.8	426.2	525.0	634.1	670.5	353.4	535.4	587.3	896.6
87.5°	197.5	161.1	228.7	244.3	293.7	267.7	168.9	194.9	210.5	324.9
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°
5519.9	0°	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9	5519.9
5530.3	2.5°	5540.7	5548.5	5574.5	5582.3	5600.5	5623.9	5639.5	5655.1	5655.1	5670.7
5613.5	5°	5616.1	5634.3	5688.8	5717.4	5764.2	5811.0	5839.6	5873.4	5894.2	5904.5
5746.0	7.5°	5761.6	5790.2	5868.2	5917.5	5998.1	6063.1	6107.3	6154.0	6164.4	6193.0
5930.5	10°	5959.1	5992.9	6081.3	6174.8	6271.0	6351.5	6393.1	6426.9	6439.9	6445.1
6167.0	12.5°	6185.2	6234.6	6348.9	6463.3	6564.7	6634.8	6645.2	6637.4	6601.0	6569.8
6458.1	15°	6463.3	6507.5	6634.8	6759.6	6858.3	6871.3	6806.3	6764.8	6720.6	6712.8
6783.0	17.5°	6795.9	6819.3	6936.3	7058.4	7066.2	7022.0	6925.9	6886.9	6845.3	6816.7
7206.6	20°	7183.2	7175.4	7258.5	7310.5	7255.9	7120.8	6975.3	6910.3	6868.7	6834.9
7726.3	22.5°	7645.8	7586.0	7575.6	7562.6	7417.1	7133.8	6936.3	6853.1	6788.2	6741.4
8451.4	25°	8318.9	8090.2	7931.6	7843.3	7515.8	7063.6	6811.5	6627.0	6504.9	6424.3
9337.6	27.5°	9160.9	8776.3	8376.0	8160.3	7515.8	6920.7	6510.1	6211.2	6011.1	5927.9
10195.2	30°	9963.9	9561.1	8971.2	8542.4	7497.6	6686.8	6024.1	5608.3	5374.4	5291.2
10928.1	32.5°	10650.0	10210.8	9602.7	8960.8	7453.5	6307.4	5421.2	4961.2	4735.1	4636.3
11653.2	35°	11286.7	10818.9	10236.8	9420.8	7336.5	5751.2	4758.5	4407.6	4155.5	3997.0
12391.2	37.5°	11939.0	11382.9	10837.1	9836.6	7126.0	5101.5	4249.1	3950.2	3654.0	3440.9
13176.1	40°	12648.5	11983.2	11479.0	10083.5	6780.4	4483.0	3854.1	3581.2	3266.7	3040.6
14080.5	42.5°	13477.5	12703.1	12193.7	10210.8	6307.4	4043.8	3596.8	3329.1	3032.8	2848.3
15049.8	45°	14343.0	13495.7	12846.0	10208.2	5779.8	3838.5	3513.6	3248.5	2921.1	2728.8
16045.2	47.5°	15250.0	14324.8	13410.0	10041.9	5322.4	3867.1	3466.8	3074.4	2713.2	2526.1
17050.9	50°	16159.5	15231.8	13955.7	9730.0	5127.5	3804.7	3292.7	2830.1	2403.9	2235.0
17994.3	52.5°	17061.3	16195.9	14426.1	9285.6	4930.0	3573.4	3069.2	2513.1	2276.6	2159.6
18968.9	55°	17968.3	17149.7	14938.1	8638.5	4436.2	3303.1	2695.0	2393.5	2175.2	2068.7
19922.7	57.5°	18877.9	18251.6	15424.1	7991.4	3815.1	2970.5	2489.7	2248.0	2073.9	1982.9
20720.5	60°	19823.9	19512.0	15925.6	7396.3	3201.8	2544.3	2338.9	2131.0	1954.3	1853.0
21487.2	62.5°	20798.5	20899.8	16318.1	6629.6	2637.8	2284.4	2203.8	1990.7	1819.2	1723.0
22121.3	65°	21780.8	22238.2	16575.4	5566.7	2138.8	2037.5	2058.3	1837.4	1663.3	1580.1
22586.5	67.5°	22521.5	23202.4	16502.6	4212.7	1754.2	1803.6	1876.4	1676.2	1512.5	1447.5
22511.1	70°	22604.6	23088.0	15785.3	2884.7	1468.3	1574.9	1673.6	1517.7	1348.8	1302.0
21450.8	72.5°	21497.5	21528.7	13786.8	1884.2	1242.2	1382.6	1460.5	1356.6	1192.9	1146.1
18766.2	75°	18594.6	17804.6	10122.5	1242.2	1039.5	1187.7	1260.4	1187.7	1029.1	1039.5
14041.5	77.5°	14088.3	12609.5	6146.2	883.6	868.0	998.0	1096.7	1044.7	909.6	1021.3
7061.0	80°	7258.5	6821.9	2741.8	660.1	686.1	797.8	901.8	834.2	719.9	686.1
1577.5	82.5°	1663.3	1933.5	1081.1	473.0	496.4	574.3	688.7	626.3	517.2	436.6
657.5	85°	582.1	636.7	478.2	296.3	291.1	358.6	467.8	418.4	350.8	280.7
278.1	87.5°	184.5	241.7	179.3	119.5	124.7	161.1	215.7	197.5	163.7	106.6
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>
5519.9
5670.7
5909.7
6182.6
6432.1
6569.8
6712.8
6819.3
6837.5
6757.0
6455.5
5969.5
5340.6
4685.7
4049.0
3498.0
3084.8
2884.7
2760.0
2552.1
2245.4
2159.6
2058.3
1967.3
1845.2
1720.4
1577.5
1450.1
1304.6
1143.5
1003.1
899.2
626.3
431.4
296.3
111.7
0.0

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