

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: P954088

Luminaire Tested: **GALN-SB7B-940-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954088  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7B-940-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

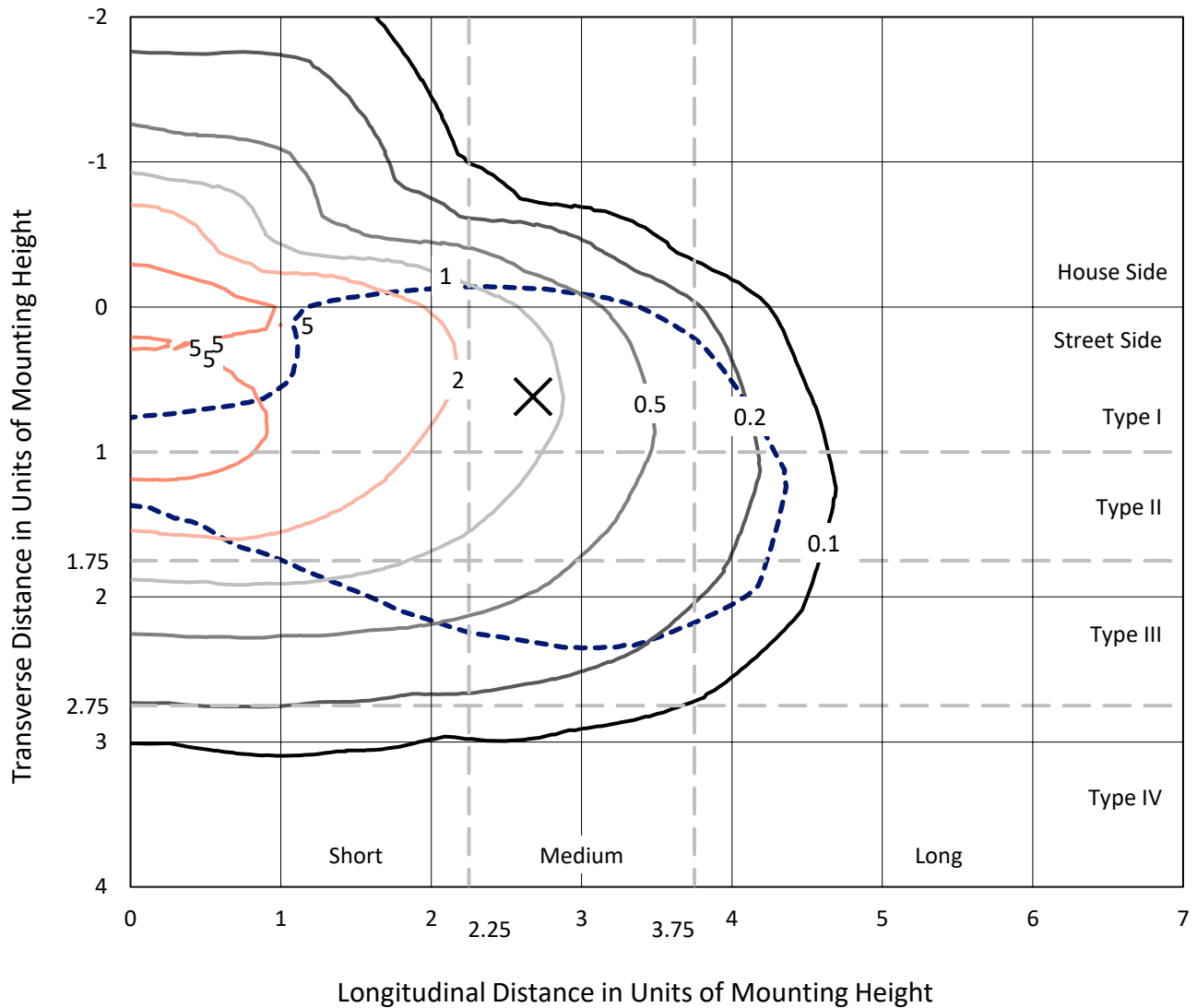
Lumens per Lamp: N/A  
Luminaire Lumens: 29791 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

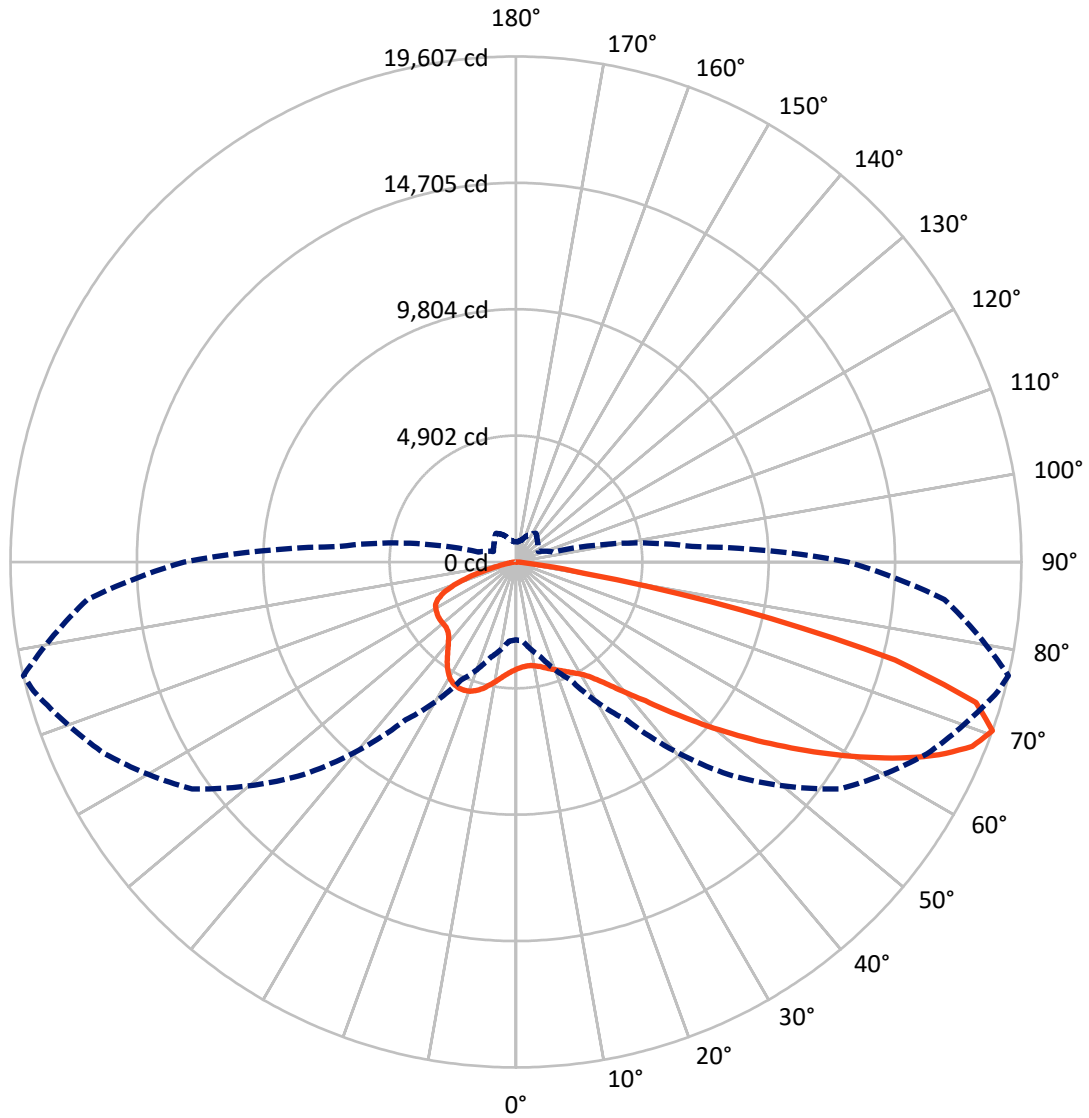
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6523.8	0.0	6523.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	23267.2	0.0	23267.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	29791.0	0.0	29791.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.4	1.3
10°-20°	1144.0	3.8
20°-30°	1956.4	6.6
30°-40°	3146.1	10.6
40°-50°	4911.9	16.5
50°-60°	6561.1	22.0
60°-70°	6993.1	23.5
70°-80°	4304.9	14.5
80°-90°	377.2	1.3
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°	29791.0	100.0
0°-180°	29791.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P954088

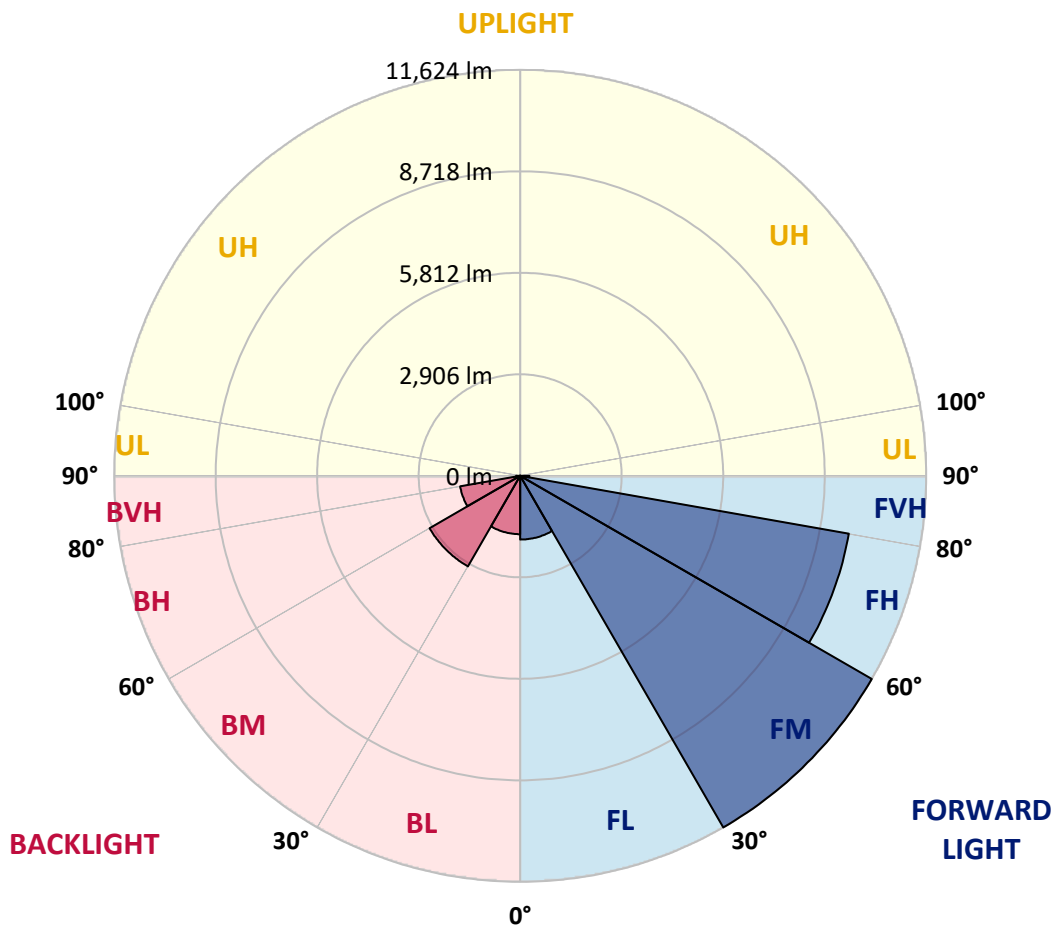
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1825.2	6.1			
FM (30°-60°)	11623.8	39.0			
FH (60°-80°)	9554.5	32.1			G4/12000
FVH (80°-90°)	263.8	0.9			G3/500
BL (0°-30°)	1671.6	5.6	B3/2500		
BM (30°-60°)	2995.2	10.1	B3/5000		
BH (60°-80°)	1743.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	113.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium



REPORT NUMBER: P954088  
 CATALOG NUMBER: GALN-SB7B-940-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1
2.5°	3831.1	3829.6	3849.4	3855.5	3892.2	3918.1	3966.9	4018.8	4085.9	4093.6
5°	3609.9	3609.9	3632.8	3657.2	3704.5	3756.4	3831.1	3921.2	4037.1	4055.4
7.5°	3422.2	3434.4	3454.3	3501.6	3556.5	3631.3	3745.7	3873.9	4026.4	4055.4
10°	3271.2	3284.9	3309.3	3347.5	3429.9	3533.6	3683.1	3847.9	4052.4	4098.1
12.5°	3223.9	3237.6	3251.4	3280.3	3356.6	3478.7	3657.2	3860.1	4114.9	4160.7
15°	3333.7	3350.5	3339.8	3332.2	3371.9	3483.3	3669.4	3904.4	4192.7	4258.3
17.5°	3587.0	3593.1	3568.7	3497.0	3490.9	3550.4	3727.4	3965.4	4290.4	4362.1
20°	3995.9	3985.2	3934.9	3793.0	3712.1	3699.9	3826.6	4056.9	4391.1	4467.4
22.5°	4551.3	4539.1	4438.4	4214.1	4034.1	3915.0	3970.0	4176.0	4504.0	4589.4
25°	5244.0	5227.2	5079.2	4774.0	4494.8	4200.4	4165.3	4333.1	4642.8	4722.2
27.5°	6052.6	6038.9	5878.7	5475.9	5073.1	4591.0	4407.9	4517.7	4787.8	4877.8
30°	6922.3	6962.0	6678.2	6244.9	5735.3	5100.5	4734.4	4745.1	4975.4	5056.3
32.5°	7944.5	8013.2	7671.4	7122.2	6426.4	5654.4	5146.3	5062.4	5248.5	5315.7
35°	8957.6	9035.4	8751.6	8144.4	7343.4	6307.4	5576.6	5427.1	5611.7	5684.9
37.5°	9833.4	9937.1	9790.7	9262.8	8324.4	7094.7	6138.1	5855.8	6058.7	6150.3
40°	10524.6	10683.2	10672.6	10343.0	9480.9	8049.8	6850.6	6385.2	6614.1	6713.3
42.5°	11086.0	11223.3	11342.4	11325.6	10687.8	9134.6	7688.2	7073.3	7247.3	7361.7
45°	11473.6	11620.0	11876.4	12152.5	11848.9	10295.7	8647.9	7889.6	8048.3	8220.7
47.5°	11819.9	11986.2	12318.8	12756.7	12834.5	11461.4	9699.1	8840.1	8985.1	9163.6
50°	11850.4	11993.8	12509.5	13130.5	13534.8	12581.3	10828.2	9906.6	10042.4	10233.1
52.5°	11113.5	11339.3	12239.5	13119.8	13856.8	13518.1	11949.6	11015.8	11168.4	11397.3
55°	8626.5	8957.6	11447.6	12710.9	13742.3	14123.8	13016.1	12195.2	12390.5	12630.1
57.5°	7430.4	7575.3	9087.3	11966.4	13220.5	14280.9	13916.3	13386.8	13701.1	13963.6
60°	6678.2	6798.7	7692.8	10808.3	12534.0	14032.2	14612.0	14497.6	15040.7	15353.5
62.5°	5872.6	5987.0	6800.2	9024.8	11655.1	13618.8	15051.4	15522.9	16413.9	16755.7
65°	5073.1	5170.7	5950.4	7582.9	10538.3	13205.3	15278.8	16409.3	17684.9	18038.8
67.5°	4182.1	4262.9	4999.9	6397.4	9180.4	12639.2	15391.7	17106.6	18791.0	19094.6
70°	3017.9	3080.5	3841.8	5059.4	7476.1	11665.8	15345.9	17600.9	19364.7	19607.3
72.5°	1426.6	1483.0	2377.1	3284.9	5280.6	9770.8	14419.8	17208.8	18781.9	18661.3
75°	761.3	810.2	1365.5	1801.9	2789.1	6698.0	11800.1	14824.1	15771.6	15185.7
77.5°	515.7	553.8	845.3	1081.7	1274.0	3179.6	7584.5	10263.7	9874.6	8907.3
80°	408.9	448.6	692.7	732.4	616.4	1148.9	3133.9	4751.2	3413.1	2729.5
82.5°	314.3	358.5	582.8	531.0	335.7	471.5	912.4	1502.9	874.2	665.2
85°	192.2	239.5	457.7	338.7	189.2	215.1	309.7	418.1	267.0	222.8
87.5°	97.6	137.3	231.9	123.6	85.4	50.3	82.4	82.4	70.2	61.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954088  
 CATALOG NUMBER: GALN-SB7B-940-U-T3R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4156.1	0°	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1	4156.1
4134.8	2.5°	4171.4	4201.9	4253.8	4302.6	4340.7	4377.3	4414.0	4433.8	4439.9	4464.3
4157.6	5°	4220.2	4276.6	4377.3	4471.9	4531.4	4568.1	4594.0	4609.3	4612.3	4619.9
4220.2	7.5°	4310.2	4400.2	4540.6	4635.2	4679.4	4676.4	4665.7	4627.6	4612.3	4598.6
4311.7	10°	4436.9	4555.9	4728.3	4793.9	4766.4	4693.2	4598.6	4487.2	4435.3	4385.0
4436.9	12.5°	4594.0	4745.1	4914.4	4911.4	4775.6	4587.9	4368.2	4197.3	4089.0	4011.2
4591.0	15°	4784.7	4958.7	5088.3	4984.6	4687.1	4349.9	4028.0	3805.2	3707.5	3622.1
4746.6	17.5°	4981.5	5167.7	5227.2	4961.7	4464.3	3997.4	3632.8	3457.3	3361.2	3315.4
4914.4	20°	5173.8	5358.4	5309.6	4830.5	4125.6	3597.7	3272.7	3176.6	3156.8	3167.4
5077.7	22.5°	5376.7	5541.5	5326.4	4577.2	3693.8	3188.8	3010.3	3013.3	3057.6	3089.6
5248.5	25°	5584.2	5695.6	5282.1	4211.0	3230.0	2888.2	2844.0	2892.8	2979.8	3042.3
5440.8	27.5°	5784.1	5832.9	5186.0	3757.9	2831.8	2673.1	2680.7	2781.4	2912.6	2999.6
5674.2	30°	6009.9	5955.0	5001.4	3248.3	2555.6	2488.5	2552.6	2670.0	2801.3	2879.1
5968.7	32.5°	6264.7	6060.2	4708.4	2776.8	2360.3	2340.5	2445.8	2522.0	2580.0	2602.9
6359.3	35°	6582.0	6208.2	4333.1	2445.8	2184.9	2232.2	2332.9	2294.7	2271.8	2259.6
6884.1	37.5°	6994.0	6408.1	3893.7	2230.6	2043.0	2154.3	2195.5	2076.5	1986.5	1942.3
7520.4	40°	7489.9	6701.1	3471.1	2064.3	1952.9	2087.2	2015.5	1872.1	1757.7	1695.1
8235.9	42.5°	8040.7	7007.7	3115.6	1939.2	1902.6	2032.3	1882.8	1711.9	1527.3	1507.4
9088.8	45°	8618.9	7323.6	2873.0	1843.1	1878.2	1985.0	1806.5	1530.3	1399.1	1480.0
9944.8	47.5°	9197.2	7613.4	2726.5	1771.4	1866.0	1931.6	1739.3	1429.6	1336.5	1454.0
10861.7	50°	9841.0	7872.8	2660.9	1719.5	1852.2	1910.2	1638.6	1403.7	1270.9	1348.8
11810.8	52.5°	10480.3	8074.2	2612.1	1667.6	1832.4	1893.4	1589.8	1373.2	1191.6	1196.2
12765.9	55°	11118.1	8205.4	2558.7	1599.0	1788.2	1856.8	1585.2	1339.6	1132.1	1110.7
13775.9	57.5°	11798.5	8280.2	2493.1	1522.7	1711.9	1763.8	1580.7	1313.7	1113.8	1078.7
14808.8	60°	12491.2	8390.0	2407.6	1429.6	1609.7	1652.4	1570.0	1304.5	1103.1	1043.6
15782.3	62.5°	13112.2	8428.2	2305.4	1341.1	1478.4	1542.5	1547.1	1296.9	1074.1	971.9
16590.9	65°	13519.6	8263.4	2126.9	1240.4	1336.5	1429.6	1502.9	1270.9	1022.2	920.0
16990.6	67.5°	13502.8	7793.5	1847.7	1110.7	1199.2	1304.5	1438.8	1226.7	959.7	855.9
16688.5	70°	12874.2	6865.8	1493.7	959.7	1048.2	1170.2	1356.4	1161.1	884.9	785.8
14839.3	72.5°	11041.8	5373.7	1084.8	782.7	872.7	1031.4	1249.6	1081.7	808.6	723.2
10967.0	75°	7888.1	3400.9	735.4	601.1	679.0	874.2	1116.8	988.7	738.5	726.3
5492.7	77.5°	4029.5	1624.9	486.7	439.4	473.0	689.6	938.3	883.4	749.1	599.6
1562.4	80°	1310.6	599.6	306.7	299.0	314.3	459.2	726.3	724.7	567.6	407.4
378.4	82.5°	418.1	257.9	199.9	192.2	184.6	288.4	506.5	573.7	383.0	257.9
135.8	85°	166.3	154.1	117.5	108.3	77.8	135.8	265.5	381.4	285.3	186.1
35.1	87.5°	61.0	61.0	32.0	22.9	16.8	45.8	71.7	114.4	163.3	96.1
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>
4156.1
4478.0
4632.1
4601.6
4369.7
3992.9
3613.0
3329.2
3162.9
3097.3
3059.1
3021.0
2897.4
2615.1
2271.8
1952.9
1699.7
1527.3
1522.7
1509.0
1406.7
1228.2
1126.0
1083.3
1048.2
971.9
920.0
860.5
794.9
718.6
685.1
534.0
360.1
256.3
190.7
94.6
0.0

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