

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: P954273

Luminaire Tested: **GALN-SB7C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47172 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

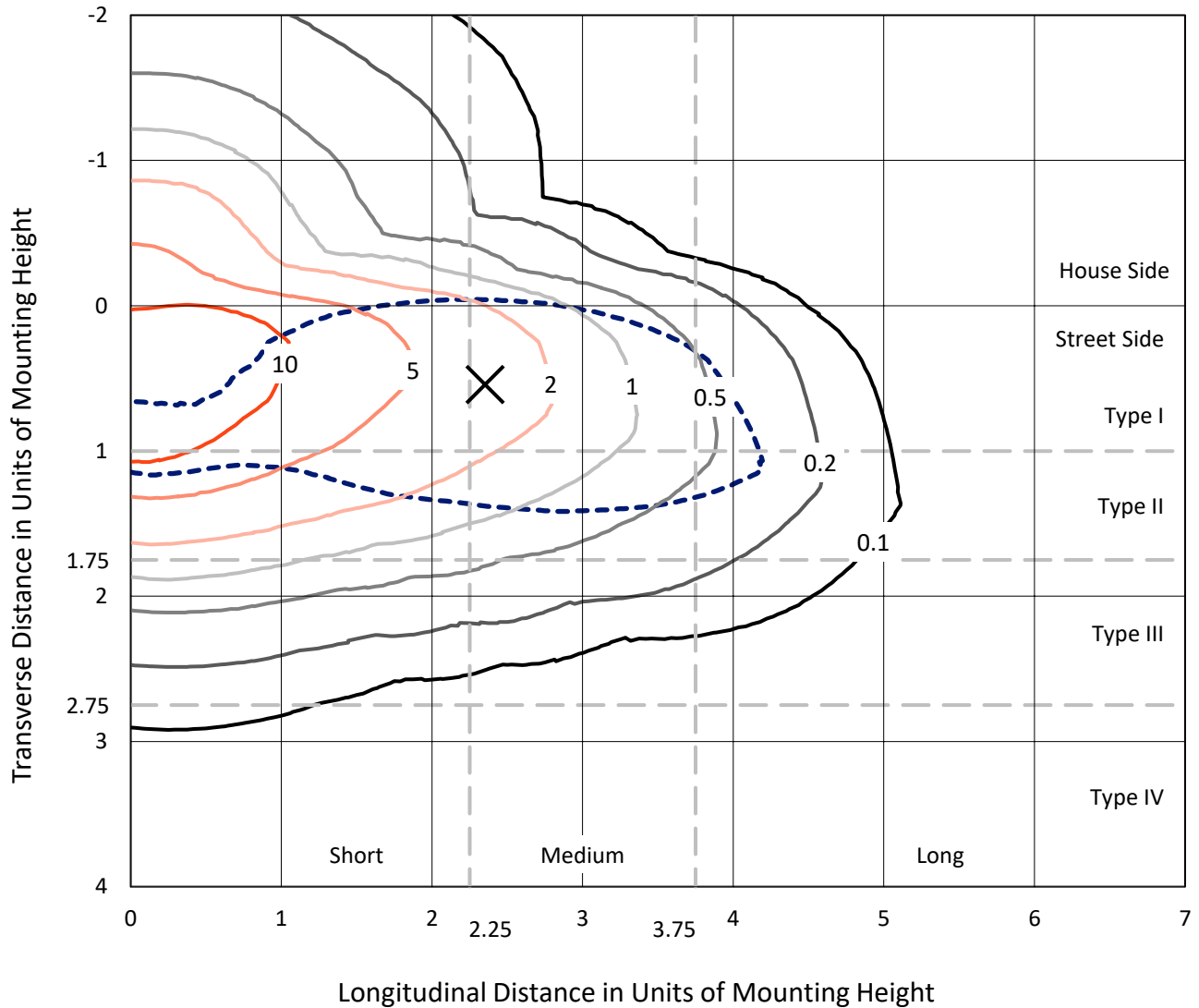
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

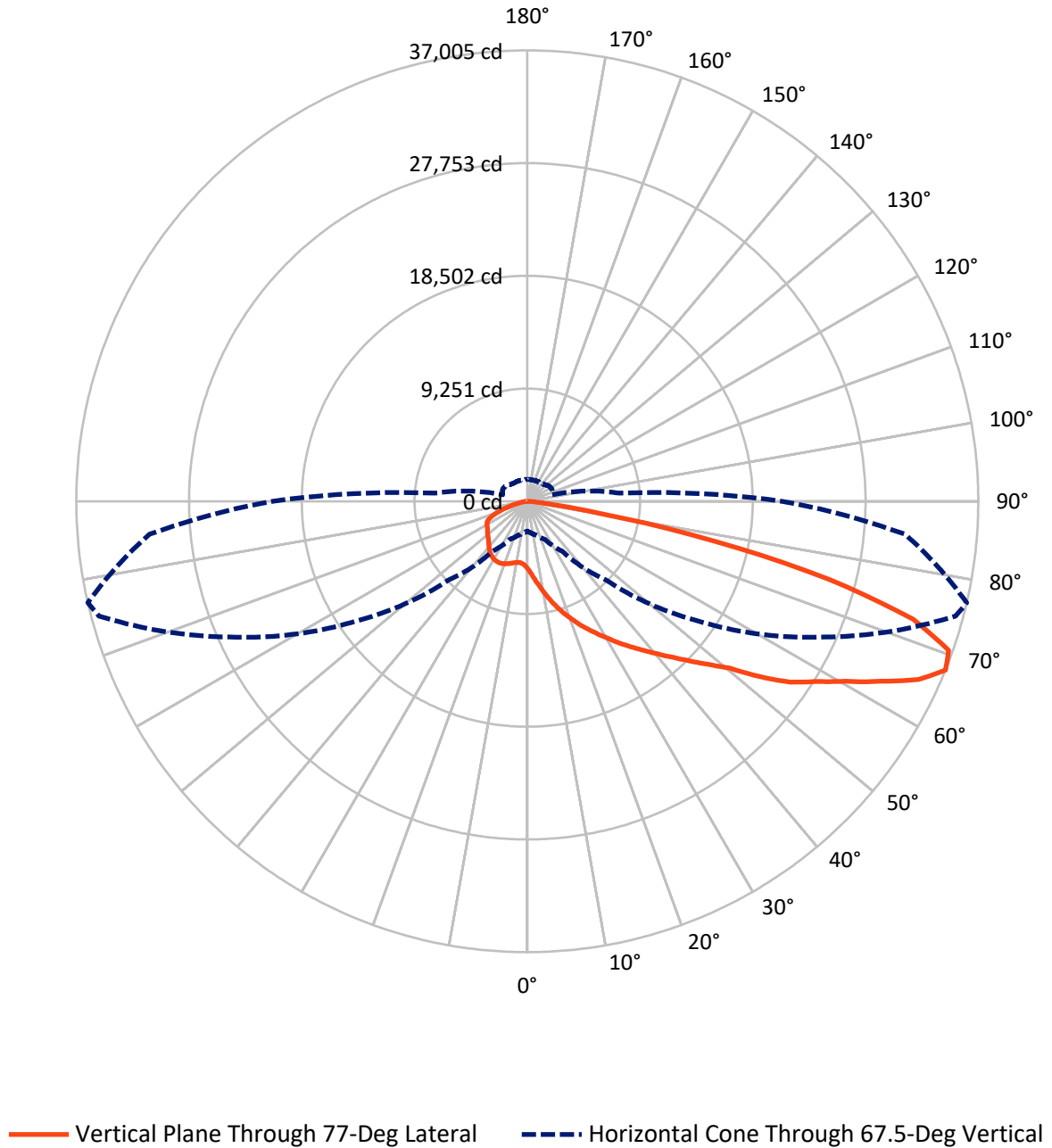
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8923.1	0.0	8923.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	38249.0	0.0	38249.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	47172.0	0.0	47172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.3	1.3
10°-20°	2131.3	4.5
20°-30°	4024.1	8.5
30°-40°	6482.8	13.7
40°-50°	8867.3	18.8
50°-60°	10002.4	21.2
60°-70°	9336.0	19.8
70°-80°	5117.7	10.8
80°-90°	617.3	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°	47172.0	100.0
0°-180°	47172.0	100.0

Coefficient of Utilization

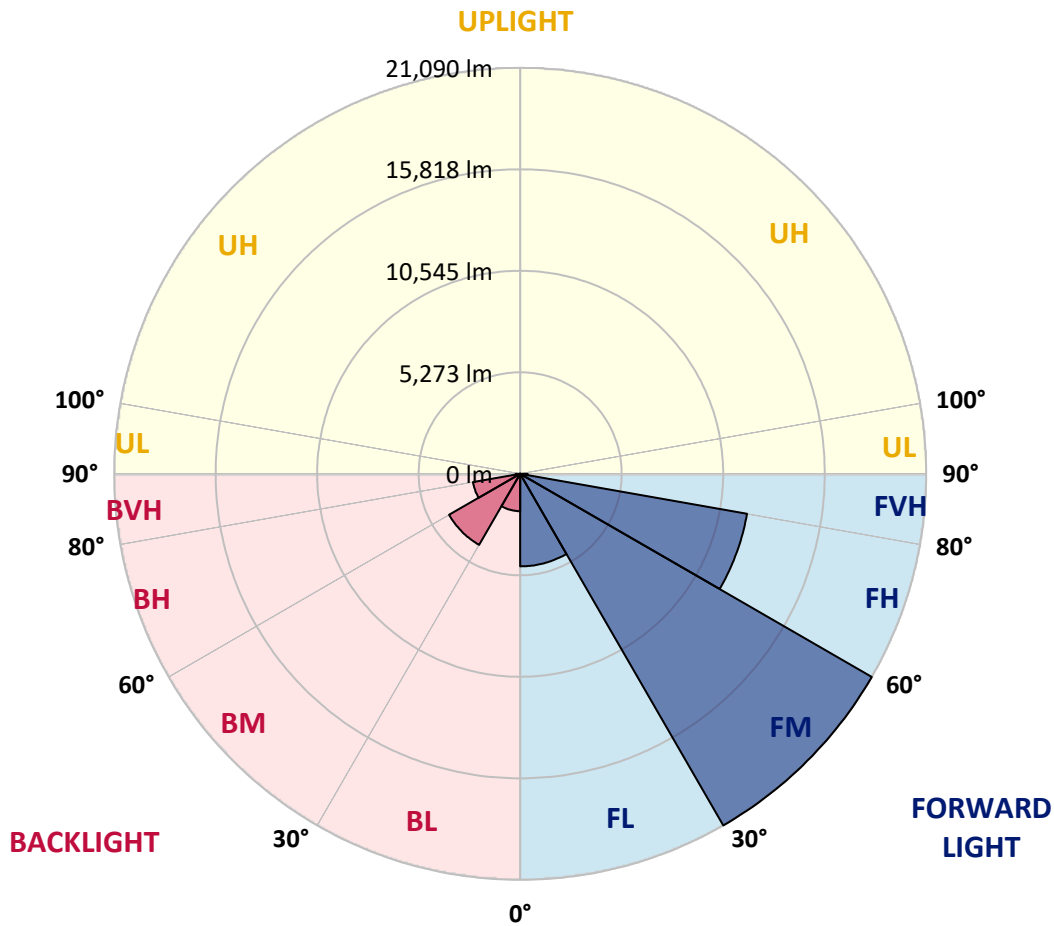


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4808.6	10.2			
FM (30°-60°)	21090.1	44.7			
FH (60°-80°)	11964.2	25.4			G4/12000
FVH (80°-90°)	386.1	0.8			G3/500
BL (0°-30°)	1940.1	4.1	B3/2500		
BM (30°-60°)	4262.3	9.0	B3/5000		
BH (60°-80°)	2489.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	231.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7
2.5°	6930.0	6978.7	6917.8	6917.8	6713.3	6606.1	6401.6	6245.8	5965.7	5917.0
5°	8191.3	8252.2	8167.0	8130.4	7889.4	7667.8	7324.5	6986.0	6486.8	6435.7
7.5°	9167.8	9245.7	9170.2	9131.2	8916.9	8668.6	8266.8	7794.4	7090.7	6990.9
10°	9964.0	9976.2	9951.8	9966.4	9798.4	9593.9	9182.4	8632.1	7753.0	7616.7
12.5°	10414.5	10470.5	10519.2	10606.8	10577.6	10451.0	10080.9	9423.4	8454.3	8279.0
15°	10626.3	10723.7	10833.3	11035.4	11198.5	11230.2	10947.7	10273.2	9167.8	8955.9
17.5°	10701.8	10794.3	10967.2	11259.4	11610.1	11846.2	11719.6	11098.7	9873.9	9630.4
20°	11084.1	11110.9	11215.6	11493.2	11873.0	12265.1	12360.0	11892.5	10572.7	10297.6
22.5°	11902.3	11848.7	11877.9	12004.5	12277.2	12657.1	12873.8	12593.8	11291.1	10974.5
25°	13253.7	13097.8	12942.0	12795.9	12934.7	13149.0	13394.9	13295.1	12043.5	11641.7
27.5°	14960.6	14770.7	14427.3	13947.6	13779.6	13855.1	13964.7	13945.2	12739.9	12333.2
30°	16640.7	16419.2	16010.1	15316.1	14872.9	14673.3	14590.5	14534.5	13497.2	13063.7
32.5°	17982.4	17807.1	17405.3	16628.6	15985.7	15644.8	15369.7	15170.0	14288.5	13855.1
35°	19156.1	18993.0	18532.7	17685.4	16986.5	16623.7	16263.3	15837.2	15111.6	14673.3
37.5°	20227.5	20064.3	19433.7	18552.2	17848.5	17597.7	17276.3	16553.1	15937.0	15523.1
40°	20904.4	20867.9	20278.6	19280.3	18549.8	18425.6	18318.5	17383.4	16852.6	16467.9
42.5°	21077.3	21157.7	20690.1	19869.6	19173.1	19073.3	19324.1	18323.3	17880.2	17512.5
45°	20660.9	20892.2	20585.4	20027.8	19616.3	19562.7	20215.3	19350.9	19017.3	18681.3
47.5°	19606.6	19998.6	19872.0	19794.1	19735.6	19966.9	20999.4	20441.8	20305.4	20013.2
50°	17478.4	18221.1	18442.6	18934.5	19499.4	20281.1	21712.8	21632.5	21810.2	21515.6
52.5°	13799.1	14821.8	16107.5	17339.6	18773.8	20176.4	22496.9	23341.9	24091.8	23931.1
55°	11390.9	11851.1	12839.7	15099.4	17366.4	19735.6	22850.0	24722.5	26356.4	26212.7
57.5°	9540.3	9951.8	10560.6	12447.7	15238.2	18734.8	23069.1	25565.0	27907.5	27892.9
60°	7555.8	7991.6	8615.0	9951.8	12752.1	17006.0	23020.4	26524.4	29887.1	30008.9
62.5°	5315.6	5795.3	6486.8	7733.5	10212.4	14765.8	22027.0	27218.4	32217.4	32548.6
65°	3494.2	3810.8	4331.9	5408.1	7609.4	11885.2	20130.1	27308.5	34710.8	35270.9
67.5°	2449.6	2571.4	2878.2	3462.6	5016.1	9114.2	17108.3	26375.9	36373.9	37004.6
70°	1911.5	1972.3	2128.2	2361.9	3150.9	6128.9	13110.0	23950.6	36018.4	36675.9
72.5°	1650.9	1709.4	1767.8	1797.0	2113.6	3784.0	8880.4	20025.4	32670.3	33115.9
75°	1497.5	1512.1	1560.8	1551.1	1612.0	2454.5	5125.7	14590.5	25776.8	25623.4
77.5°	1258.9	1278.4	1358.7	1346.6	1431.8	1677.7	2661.4	9416.1	16711.4	15669.2
80°	1066.5	1076.3	1163.9	1149.3	1244.3	1215.1	1358.7	4799.4	7088.3	6004.7
82.5°	370.1	457.8	888.8	915.6	949.6	735.4	784.1	1957.7	2164.7	1658.2
85°	180.2	192.4	452.9	642.8	640.4	370.1	382.3	698.8	681.8	535.7
87.5°	29.2	36.5	53.6	250.8	199.7	97.4	131.5	136.4	141.2	121.7
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°
5534.7	0°	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7	5534.7
5732.0	2.5°	5595.6	5473.9	5218.2	4982.0	4796.9	4619.2	4519.3	4434.1	4385.4	4375.7
5999.8	5°	5746.6	5495.8	5030.7	4638.7	4383.0	4193.1	4093.2	4029.9	3998.3	3978.8
6360.2	7.5°	5963.3	5595.6	4933.3	4487.7	4219.8	4083.5	4032.3	4022.6	4020.2	4022.6
6796.1	10°	6262.8	5758.8	4923.6	4451.2	4227.1	4151.7	4149.2	4151.7	4161.4	4163.8
7270.9	12.5°	6586.7	5926.8	4962.5	4482.8	4319.7	4278.3	4271.0	4268.5	4275.8	4280.7
7750.6	15°	6939.7	6148.4	5028.3	4551.0	4421.9	4378.1	4370.8	4356.2	4353.8	4351.3
8254.6	17.5°	7302.5	6367.5	5101.3	4624.1	4487.7	4426.8	4400.0	4365.9	4339.2	4331.9
8775.7	20°	7670.2	6584.2	5152.4	4660.6	4492.6	4407.3	4353.8	4295.3	4249.1	4222.3
9301.7	22.5°	8062.3	6810.7	5184.1	4650.8	4448.7	4331.9	4234.5	4166.3	4095.7	4049.4
9832.5	25°	8444.6	7007.9	5181.7	4599.7	4363.5	4215.0	4090.8	4003.1	3905.7	3857.0
10380.4	27.5°	8812.2	7185.7	5120.8	4509.6	4241.8	4076.2	3927.6	3822.9	3728.0	3681.7
10933.1	30°	9192.1	7334.2	5025.8	4378.1	4098.1	3915.5	3752.3	3662.2	3577.0	3533.2
11517.5	32.5°	9569.5	7470.6	4891.9	4215.0	3932.5	3757.2	3596.5	3513.7	3462.6	3462.6
12145.7	35°	9968.9	7565.5	4714.1	4025.0	3757.2	3589.2	3462.6	3413.9	3409.0	3379.8
12810.5	37.5°	10390.1	7626.4	4497.4	3830.2	3584.3	3426.0	3387.1	3328.6	3279.9	3216.6
13541.0	40°	10833.3	7687.3	4236.9	3628.1	3401.7	3314.0	3297.0	3219.1	3080.3	2924.4
14368.9	42.5°	11371.4	7728.7	3966.6	3426.0	3209.3	3180.1	3204.5	3070.5	2848.9	2732.1
15367.2	45°	11994.8	7796.9	3718.2	3226.4	3012.1	3012.1	3114.4	2939.0	2756.4	2683.4
16506.8	47.5°	12803.2	7955.1	3486.9	3007.2	2829.5	2878.2	2914.7	2780.8	2678.5	2588.4
17894.8	50°	13972.0	8335.0	3248.3	2785.6	2690.7	2788.1	2736.9	2659.0	2539.7	2466.6
20100.9	52.5°	15423.3	8559.0	3036.4	2586.0	2571.4	2668.8	2595.7	2522.7	2432.6	2335.2
21773.7	55°	16411.9	8600.4	2858.7	2439.9	2491.0	2481.3	2454.5	2388.7	2340.0	2211.0
23424.6	57.5°	17517.3	8683.2	2712.6	2352.2	2439.9	2332.7	2323.0	2267.0	2203.7	2116.0
25438.4	60°	18839.5	8812.2	2586.0	2318.1	2396.0	2235.3	2186.6	2164.7	2101.4	2057.6
27861.2	62.5°	20281.1	8929.1	2456.9	2323.0	2344.9	2140.4	2067.3	2060.0	2021.0	2006.4
30135.5	65°	21264.8	8610.1	2296.2	2318.1	2264.5	2043.0	1950.4	1948.0	1916.3	1911.5
31121.7	67.5°	20921.5	7599.6	2079.5	2249.9	2181.8	1945.6	1843.3	1833.6	1792.2	1794.6
30091.7	70°	19202.4	6158.1	1780.0	2081.9	2079.5	1857.9	1731.3	1699.6	1643.6	1653.4
26164.0	72.5°	15978.4	4563.2	1378.2	1801.9	1916.3	1777.5	1602.2	1551.1	1480.5	1490.2
19314.4	75°	11539.4	3102.2	1003.2	1370.9	1668.0	1682.6	1475.6	1387.9	1302.7	1317.3
10750.5	77.5°	5904.9	1758.1	737.8	944.8	1310.0	1529.2	1361.2	1244.3	1224.8	1361.2
3099.7	80°	1926.1	881.5	511.3	662.3	859.6	1251.6	1193.1	1059.2	1054.4	1086.0
650.1	82.5°	574.7	372.6	328.7	435.9	474.8	959.4	1030.0	801.1	689.1	725.6
216.7	85°	197.2	180.2	187.5	216.7	226.5	562.5	720.8	530.8	501.6	552.7
48.7	87.5°	46.3	63.3	53.6	48.7	48.7	136.4	280.0	221.6	306.8	204.5
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>
5534.7
4375.7
3976.3
4029.9
4166.3
4283.2
4348.9
4339.2
4232.0
4051.8
3857.0
3679.3
3530.7
3465.0
3372.5
3206.9
2902.5
2734.5
2695.5
2586.0
2459.3
2315.7
2213.4
2086.8
2069.7
2006.4
1909.0
1794.6
1663.1
1487.8
1322.2
1341.7
932.6
750.0
545.4
197.2
0.0

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