

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: P956058

Luminaire Tested: **GALN-SB8D-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956058
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-SB8D-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72880 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

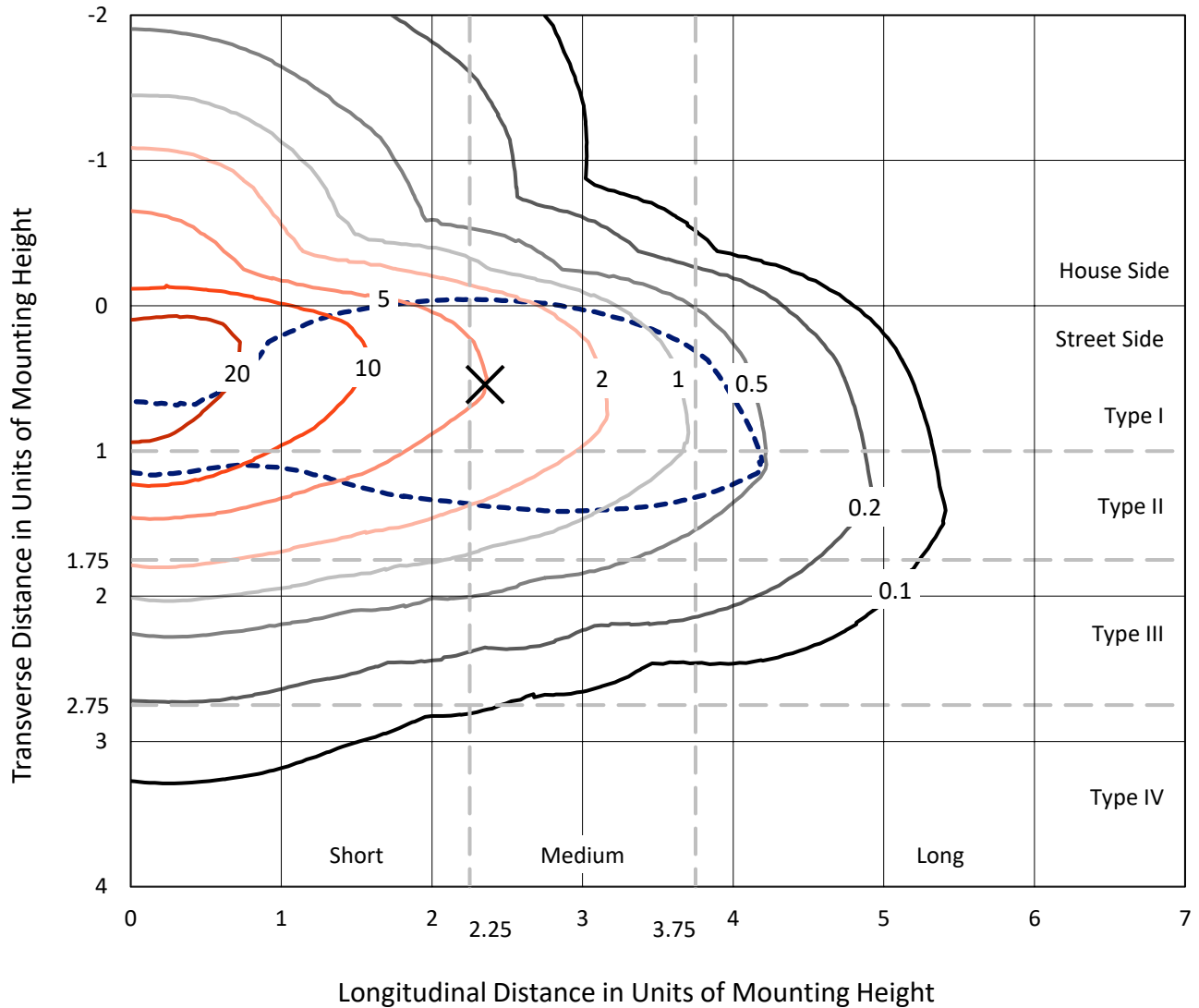
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

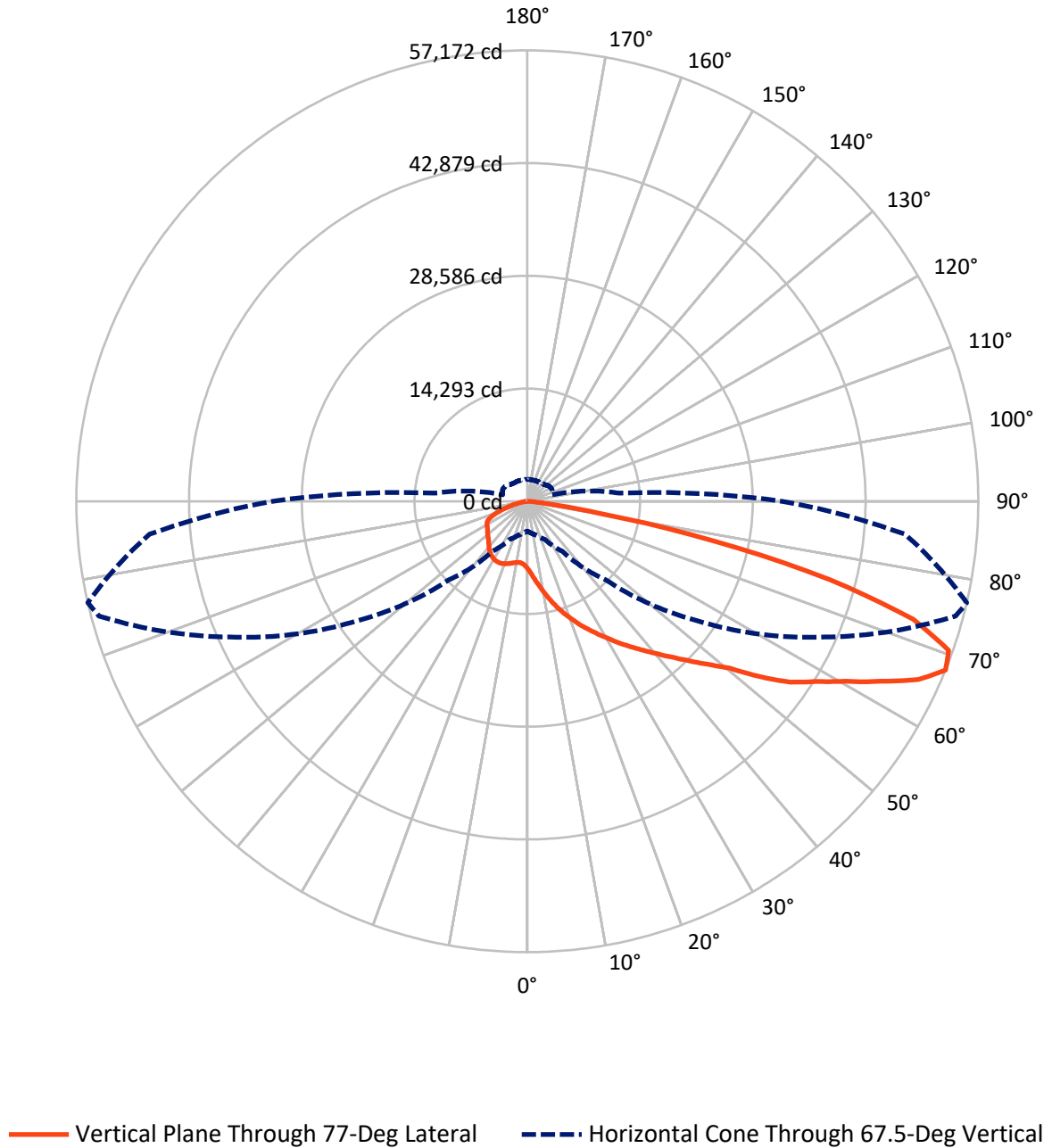
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.7 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	13786.0	0.0	13786.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	59094.0	0.0	59094.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	72880.0	0.0	72880.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.6	1.3
10°-20°	3292.8	4.5
20°-30°	6217.2	8.5
30°-40°	10015.8	13.7
40°-50°	13699.8	18.8
50°-60°	15453.5	21.2
60°-70°	14423.9	19.8
70°-80°	7906.7	10.8
80°-90°	953.7	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°	72880.0	100.0
0°-180°	72880.0	100.0

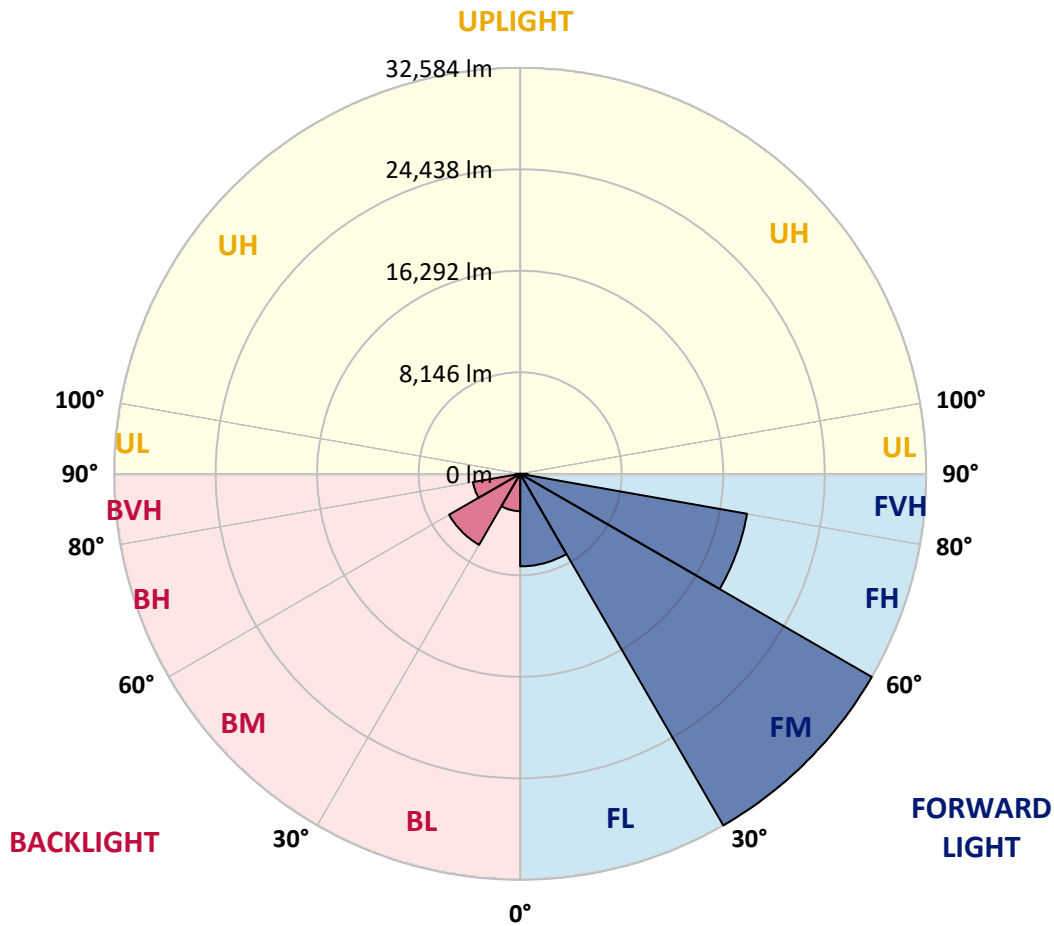


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7429.2	10.2			
FM (30°-60°)	32583.9	44.7			
FH (60°-80°)	18484.5	25.4			G5
FVH (80°-90°)	596.4	0.8			G4/750
BL (0°-30°)	2997.4	4.1	B4/5000		
BM (30°-60°)	6585.2	9.0	B4/8500		
BH (60°-80°)	3846.1	5.3	B4/5000		G4/5000
BVH (80°-90°)	357.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1
2.5°	10706.7	10782.0	10687.9	10687.9	10371.9	10206.4	9890.4	9649.6	9217.0	9141.7
5°	12655.5	12749.5	12617.8	12561.4	12189.0	11846.6	11316.2	10793.3	10022.0	9943.0
7.5°	14164.0	14284.4	14167.8	14107.6	13776.5	13392.8	12772.1	12042.2	10955.0	10800.8
10°	15394.2	15413.0	15375.4	15398.0	15138.4	14822.4	14186.6	13336.4	11978.3	11767.6
12.5°	16090.2	16176.7	16252.0	16387.4	16342.2	16146.6	15574.8	14559.0	13061.8	12790.9
15°	16417.5	16568.0	16737.3	17049.5	17301.6	17350.5	16914.1	15872.0	14164.0	13836.7
17.5°	16534.1	16677.1	16944.2	17395.6	17937.3	18302.3	18106.6	17147.3	15255.0	14878.8
20°	17124.7	17166.1	17327.9	17756.8	18343.6	18949.3	19096.1	18373.7	16334.7	15909.6
22.5°	18388.8	18306.0	18351.2	18546.8	18968.1	19555.0	19889.8	19457.2	17444.5	16955.5
25°	20476.7	20235.9	19995.2	19769.5	19983.9	20314.9	20694.9	20540.7	18607.0	17986.3
27.5°	23113.9	22820.5	22290.0	21548.9	21289.3	21405.9	21575.2	21545.1	19682.9	19054.7
30°	25709.7	25367.4	24735.3	23663.2	22978.5	22670.0	22542.1	22455.5	20852.9	20183.3
32.5°	27782.6	27511.7	26891.0	25690.9	24697.7	24171.0	23745.9	23437.4	22075.6	21405.9
35°	29595.9	29343.8	28632.8	27323.6	26243.9	25683.4	25126.6	24468.2	23347.1	22670.0
37.5°	31251.2	30999.1	30024.7	28662.9	27575.7	27188.2	26691.6	25574.3	24622.5	23982.9
40°	32297.0	32240.6	31330.2	29787.7	28659.1	28467.3	28301.7	26857.1	26037.0	25442.6
42.5°	32564.1	32688.3	31965.9	30698.1	29622.2	29468.0	29855.4	28309.3	27624.6	27056.5
45°	31920.8	32278.2	31804.2	30942.7	30306.9	30224.1	31232.4	29896.8	29381.4	28862.3
47.5°	30291.8	30897.5	30701.9	30581.5	30491.2	30848.6	32443.7	31582.2	31371.5	30920.1
50°	27003.8	28151.3	28493.6	29253.5	30126.3	31333.9	33546.0	33421.9	33696.5	33241.3
52.5°	21319.4	22899.5	24885.8	26789.4	29005.2	31172.2	34757.4	36062.8	37221.5	36973.2
55°	17598.8	18309.8	19837.2	23328.3	26830.8	30491.2	35302.9	38195.9	40720.2	40498.2
57.5°	14739.6	15375.4	16315.9	19231.5	23542.8	28945.0	35641.4	39497.5	43116.6	43094.0
60°	11673.6	12347.0	13310.1	15375.4	19701.7	26274.0	35566.2	40979.8	46175.1	46363.2
62.5°	8212.5	8953.6	10022.0	11948.2	15777.9	22812.9	34031.3	42051.9	49775.4	50287.0
65°	5398.5	5887.6	6692.6	8355.5	11756.3	18362.5	31100.7	42191.1	53627.7	54493.0
67.5°	3784.6	3972.7	4446.7	5349.6	7749.8	14081.3	26432.0	40750.3	56197.2	57171.5
70°	2953.2	3047.2	3288.0	3649.2	4868.1	9469.0	20254.8	37003.3	55647.9	56663.7
72.5°	2550.7	2640.9	2731.2	2776.4	3265.4	5846.2	13720.1	30938.9	50475.1	51163.6
75°	2313.6	2336.2	2411.5	2396.4	2490.5	3792.1	7919.1	22542.1	39824.8	39587.8
77.5°	1945.0	1975.1	2099.2	2080.4	2212.1	2592.0	4111.9	14547.8	25818.8	24208.6
80°	1647.8	1662.8	1798.2	1775.7	1922.4	1877.3	2099.2	7415.0	10951.3	9277.2
82.5°	571.8	707.3	1373.1	1414.5	1467.2	1136.1	1211.4	3024.7	3344.4	2561.9
85°	278.4	297.2	699.7	993.2	989.4	571.8	590.6	1079.7	1053.4	827.6
87.5°	45.1	56.4	82.8	387.5	308.5	150.5	203.1	210.7	218.2	188.1
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°
8551.1	0°	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1	8551.1
8855.8	2.5°	8645.1	8457.0	8062.0	7697.1	7411.2	7136.6	6982.3	6850.7	6775.4	6760.4
9269.6	5°	8878.4	8490.9	7772.3	7166.7	6771.6	6478.2	6324.0	6226.2	6177.2	6147.2
9826.4	7.5°	9213.2	8645.1	7621.9	6933.4	6519.6	6308.9	6229.9	6214.9	6211.1	6214.9
10499.8	10°	9675.9	8897.2	7606.8	6877.0	6530.9	6414.3	6410.5	6414.3	6429.3	6433.1
11233.4	12.5°	10176.3	9156.8	7667.0	6925.9	6673.8	6609.9	6598.6	6594.8	6606.1	6613.6
11974.5	15°	10721.8	9499.1	7768.6	7031.2	6831.8	6764.1	6752.8	6730.3	6726.5	6722.7
12753.3	17.5°	11282.3	9837.7	7881.4	7144.1	6933.4	6839.4	6798.0	6745.3	6703.9	6692.6
13558.3	20°	11850.4	10172.5	7960.4	7200.5	6940.9	6809.3	6726.5	6636.2	6564.7	6523.4
14370.9	22.5°	12456.1	10522.4	8009.4	7185.5	6873.2	6692.6	6542.2	6436.8	6327.7	6256.3
15191.1	25°	13046.7	10827.1	8005.6	7106.5	6741.6	6512.1	6320.2	6184.8	6034.3	5959.1
16037.5	27.5°	13614.8	11101.7	7911.5	6967.3	6553.5	6297.6	6068.2	5906.4	5759.7	5688.2
16891.5	30°	14201.7	11331.2	7764.8	6764.1	6331.5	6049.3	5797.3	5658.1	5526.4	5458.7
17794.4	32.5°	14784.8	11541.9	7557.9	6512.1	6075.7	5804.8	5556.5	5428.6	5349.6	5349.6
18765.0	35°	15401.7	11688.6	7283.3	6218.6	5804.8	5545.2	5349.6	5274.4	5266.8	5221.7
19792.0	37.5°	16052.6	11782.7	6948.5	5917.7	5537.7	5293.2	5233.0	5142.7	5067.5	4969.6
20920.6	40°	16737.3	11876.7	6545.9	5605.4	5255.6	5120.1	5093.8	4973.4	4759.0	4518.2
22199.7	42.5°	17568.7	11940.7	6128.3	5293.2	4958.4	4913.2	4950.8	4743.9	4401.6	4221.0
23742.2	45°	18531.7	12046.0	5744.6	4984.7	4653.6	4653.6	4811.6	4540.8	4258.6	4145.8
25502.8	47.5°	19780.7	12290.5	5387.2	4646.1	4371.5	4446.7	4503.1	4296.2	4138.2	3999.0
27647.1	50°	21586.5	12877.4	5018.5	4303.8	4157.0	4307.5	4228.5	4108.1	3923.8	3810.9
31055.5	52.5°	23828.7	13223.5	4691.2	3995.3	3972.7	4123.2	4010.3	3897.5	3758.3	3607.8
33640.0	55°	25356.1	13287.5	4416.6	3769.6	3848.6	3833.5	3792.1	3690.5	3615.3	3415.9
36190.7	57.5°	27064.0	13415.4	4190.9	3634.1	3769.6	3604.0	3589.0	3502.4	3404.6	3269.2
39301.9	60°	29106.8	13614.8	3995.3	3581.5	3701.8	3453.5	3378.3	3344.4	3246.6	3178.9
43045.1	62.5°	31333.9	13795.4	3795.9	3589.0	3622.8	3306.8	3194.0	3182.7	3122.5	3099.9
46558.9	65°	32853.8	13302.5	3547.6	3581.5	3498.7	3156.3	3013.4	3009.6	2960.7	2953.2
48082.5	67.5°	32323.3	11741.3	3212.8	3476.1	3370.8	3005.9	2847.9	2832.8	2768.9	2772.6
46491.1	70°	29667.3	9514.2	2750.0	3216.5	3212.8	2870.4	2674.8	2625.9	2539.4	2554.4
40423.0	72.5°	24686.4	7050.0	2129.3	2783.9	2960.7	2746.3	2475.4	2396.4	2287.3	2302.4
29840.4	75°	17828.2	4792.8	1550.0	2118.0	2577.0	2599.6	2279.8	2144.4	2012.7	2035.3
16609.4	77.5°	9122.9	2716.2	1139.9	1459.7	2024.0	2362.6	2103.0	1922.4	1892.3	2103.0
4789.1	80°	2975.8	1361.9	790.0	1023.3	1328.0	1933.7	1843.4	1636.5	1629.0	1677.9
1004.5	82.5°	887.8	575.6	507.9	673.4	733.6	1482.2	1591.3	1237.7	1064.7	1121.1
334.8	85°	304.7	278.4	289.7	334.8	349.9	869.0	1113.6	820.1	775.0	854.0
75.2	87.5°	71.5	97.8	82.8	75.2	75.2	210.7	432.6	342.3	474.0	316.0
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>
8551.1
6760.4
6143.4
6226.2
6436.8
6617.4
6719.0
6703.9
6538.4
6260.0
5959.1
5684.4
5454.9
5353.4
5210.4
4954.6
4484.3
4224.8
4164.6
3995.3
3799.6
3577.7
3419.7
3224.1
3197.7
3099.9
2949.4
2772.6
2569.5
2298.6
2042.8
2072.9
1440.9
1158.7
842.7
304.7
0.0

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