

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: P955411

Luminaire Tested: **GALN-SB8B-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955411
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-SB8B-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 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: 44712 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

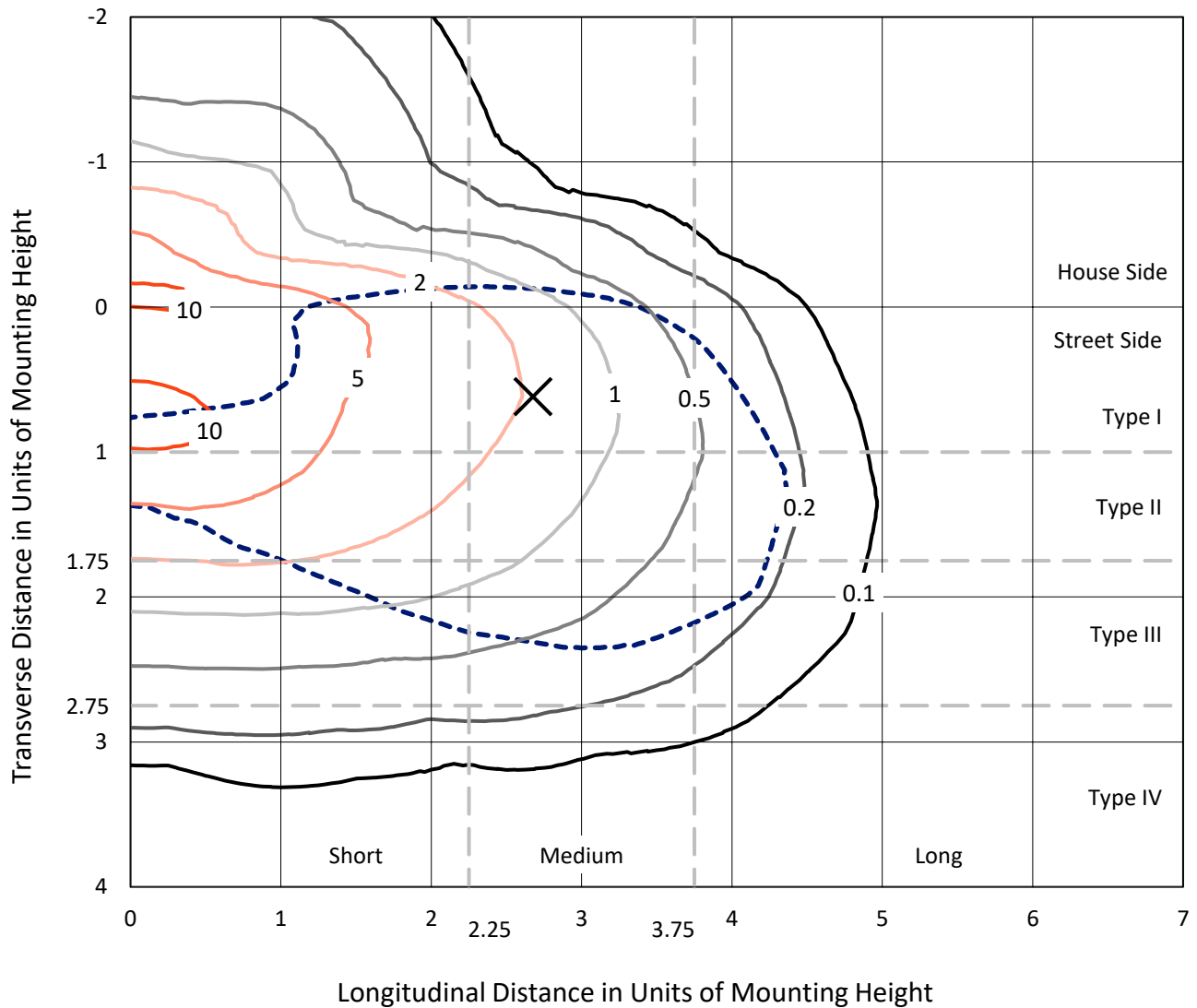
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

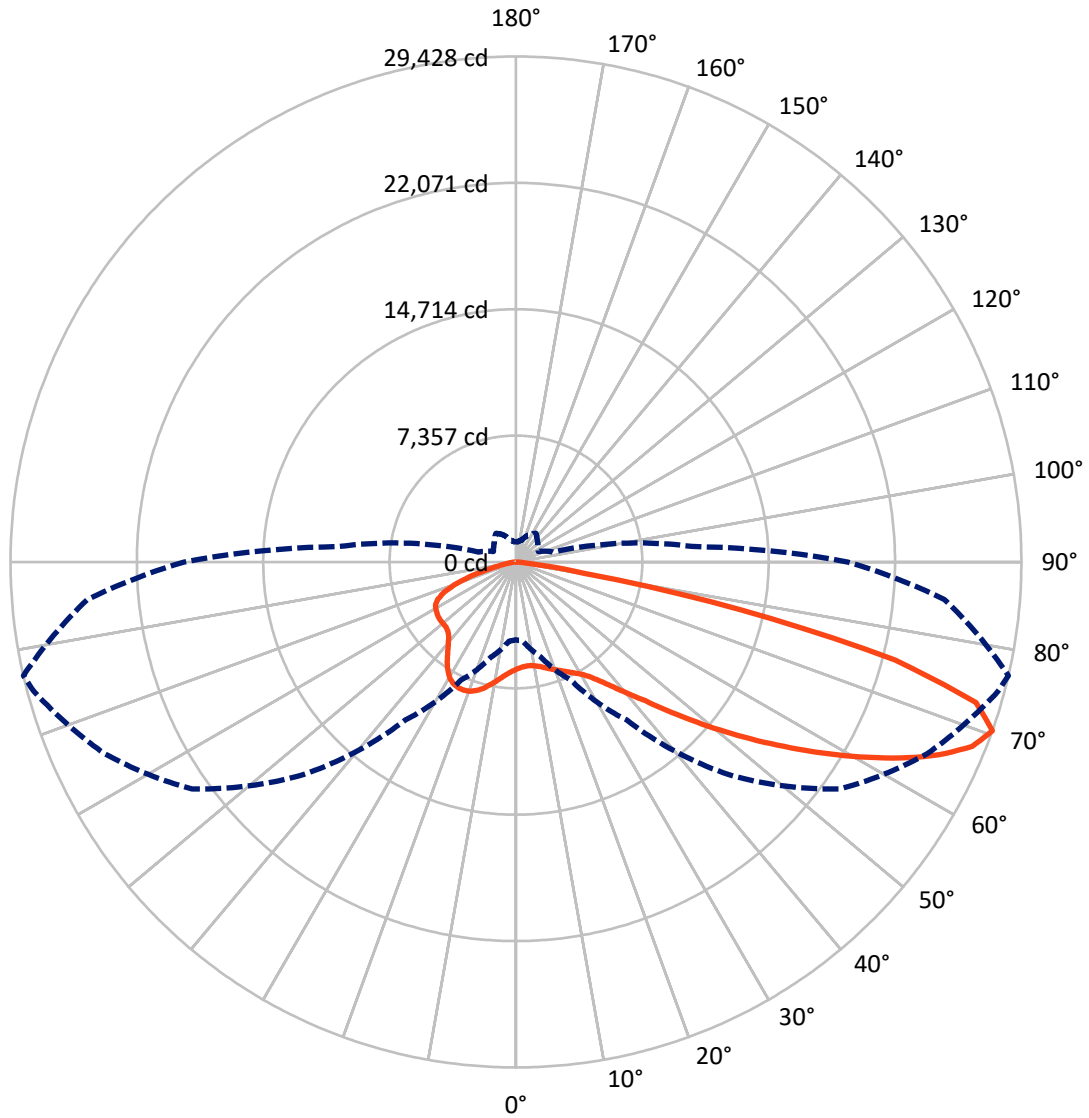
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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
House Side	Lumens	9791.2	0.0	9791.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	34920.8	0.0	34920.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	44712.0	0.0	44712.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.9	1.3
10°-20°	1717.0	3.8
20°-30°	2936.3	6.6
30°-40°	4721.8	10.6
40°-50°	7372.0	16.5
50°-60°	9847.2	22.0
60°-70°	10495.6	23.5
70°-80°	6461.0	14.5
80°-90°	566.2	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°	44712.0	100.0
0°-180°	44712.0	100.0



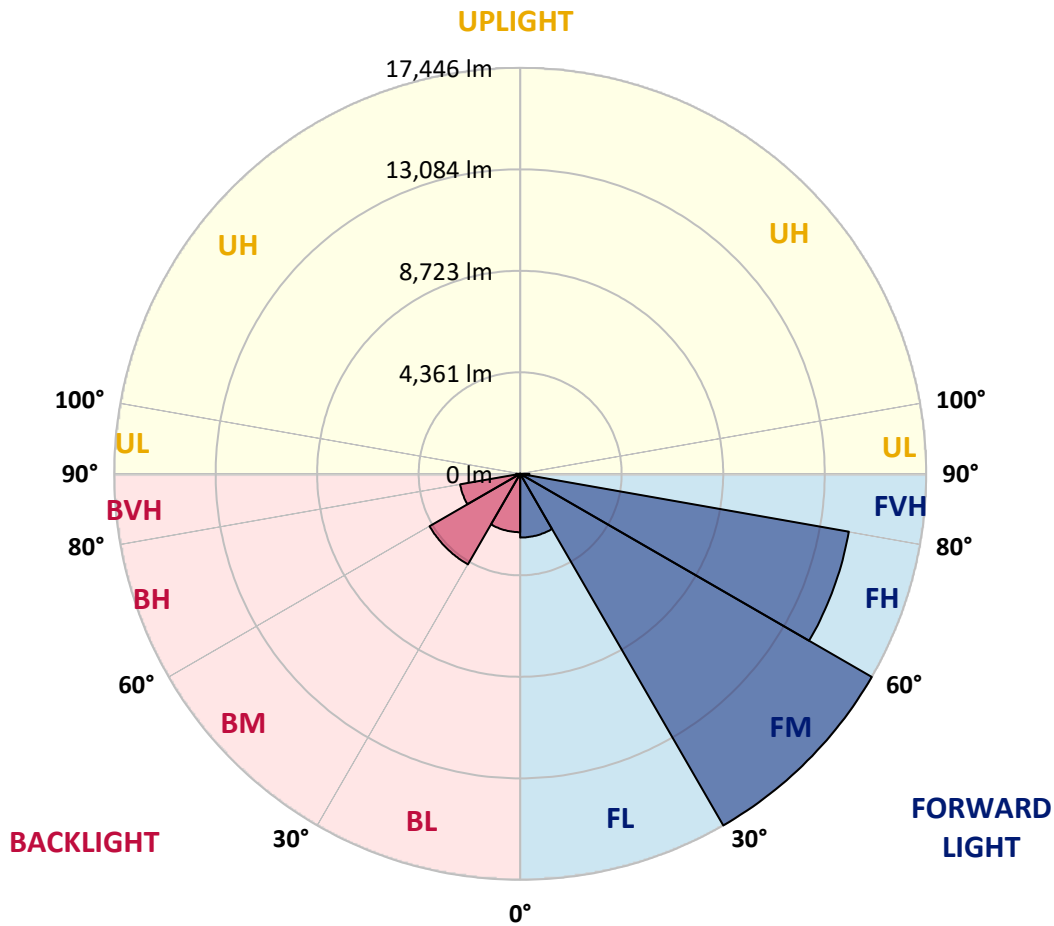
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.3	6.1			
FM (30°-60°)	17445.7	39.0			
FH (60°-80°)	14339.9	32.1			G5
FVH (80°-90°)	395.9	0.9			G3/500
BL (0°-30°)	2508.8	5.6	B4/5000		
BM (30°-60°)	4495.4	10.1	B3/5000		
BH (60°-80°)	2616.8	5.9	B4/5000		G4/5000
BVH (80°-90°)	170.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7
2.5°	5750.0	5747.7	5777.5	5786.6	5841.6	5880.5	5953.8	6031.6	6132.4	6143.8
5°	5417.9	5417.9	5452.3	5488.9	5559.9	5637.8	5750.0	5885.1	6059.1	6086.6
7.5°	5136.3	5154.6	5184.4	5255.4	5337.8	5450.0	5621.7	5814.1	6043.1	6086.6
10°	4909.6	4930.2	4966.8	5024.1	5147.7	5303.4	5527.9	5775.2	6082.0	6150.7
12.5°	4838.6	4859.2	4879.8	4923.3	5037.8	5221.0	5488.9	5793.5	6175.9	6244.6
15°	5003.5	5028.7	5012.6	5001.2	5060.7	5227.9	5507.2	5859.9	6292.7	6391.2
17.5°	5383.6	5392.8	5356.1	5248.5	5239.3	5328.6	5594.3	5951.5	6439.2	6546.9
20°	5997.3	5981.3	5905.7	5692.7	5571.4	5553.0	5743.1	6088.9	6590.4	6704.9
22.5°	6830.8	6812.5	6661.4	6324.7	6054.5	5875.9	5958.4	6267.5	6759.8	6888.1
25°	7870.4	7845.3	7623.1	7165.1	6746.1	6304.1	6251.5	6503.4	6968.2	7087.3
27.5°	9084.1	9063.5	8823.0	8218.5	7614.0	6890.4	6615.6	6780.4	7185.8	7320.9
30°	10389.4	10448.9	10023.0	9372.6	8607.8	7655.2	7105.6	7121.6	7467.4	7588.8
32.5°	11923.6	12026.6	11513.7	10689.3	9645.1	8486.4	7723.9	7597.9	7877.3	7978.1
35°	13444.1	13560.9	13135.0	12223.6	11021.4	9466.5	8369.6	8145.2	8422.3	8532.2
37.5°	14758.5	14914.2	14694.4	13902.1	12493.8	10648.1	9212.3	8788.7	9093.3	9230.7
40°	15795.8	16034.0	16018.0	15523.3	14229.5	12081.6	10281.7	9583.3	9926.8	10075.6
42.5°	16638.5	16844.6	17023.2	16998.0	16040.9	13709.7	11538.9	10616.1	10877.1	11048.8
45°	17220.2	17440.0	17824.7	18239.2	17783.5	15452.4	12979.2	11841.2	12079.3	12338.1
47.5°	17740.0	17989.6	18488.8	19146.0	19262.8	17201.9	14557.0	13267.8	13485.3	13753.2
50°	17785.8	18001.0	18775.0	19707.0	20313.8	18882.6	16251.5	14868.4	15072.2	15358.5
52.5°	16679.8	17018.7	18369.7	19691.0	20797.0	20288.7	17934.6	16533.2	16762.2	17105.7
55°	12947.2	13444.1	17181.2	19077.3	20625.3	21197.8	19535.3	18303.3	18596.4	18955.9
57.5°	11151.9	11369.4	13638.7	17959.8	19842.1	21433.6	20886.3	20091.7	20563.4	20957.3
60°	10023.0	10203.9	11545.8	16221.8	18811.7	21060.4	21930.5	21758.8	22574.0	23043.4
62.5°	8813.9	8985.6	10206.2	13544.9	17492.7	20439.8	22590.0	23297.6	24634.9	25147.9
65°	7614.0	7760.5	8930.7	11380.9	15816.5	19819.2	22931.2	24628.0	26542.4	27073.7
67.5°	6276.7	6398.0	7504.1	9601.6	13778.4	18969.7	23100.7	25674.5	28202.6	28658.3
70°	4529.5	4623.3	5766.0	7593.4	11220.6	17508.7	23032.0	26416.5	29063.6	29427.7
72.5°	2141.1	2225.8	3567.7	4930.2	7925.4	14664.6	21642.0	25828.0	28188.9	28008.0
75°	1142.7	1215.9	2049.5	2704.4	4186.0	10052.7	17710.2	22248.8	23670.9	22791.5
77.5°	774.0	831.2	1268.6	1623.6	1912.1	4772.2	11383.2	15404.3	14820.3	13368.5
80°	613.7	673.2	1039.6	1099.2	925.1	1724.3	4703.5	7130.8	5122.5	4096.7
82.5°	471.7	538.1	874.7	796.9	503.8	707.6	1369.4	2255.6	1312.1	998.4
85°	288.5	359.5	687.0	508.4	283.9	322.9	464.9	627.4	400.7	334.3
87.5°	146.6	206.1	348.1	185.5	128.2	75.6	123.7	123.7	105.3	91.6
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°
6237.7	0°	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7	6237.7
6205.7	2.5°	6260.6	6306.4	6384.3	6457.6	6514.8	6569.8	6624.7	6654.5	6663.7	6700.3
6240.0	5°	6333.9	6418.6	6569.8	6711.7	6801.1	6856.0	6894.9	6917.8	6922.4	6933.9
6333.9	7.5°	6469.0	6604.1	6814.8	6956.8	7023.2	7018.6	7002.6	6945.3	6922.4	6901.8
6471.3	10°	6659.1	6837.7	7096.5	7194.9	7153.7	7043.8	6901.8	6734.6	6656.8	6581.2
6659.1	12.5°	6894.9	7121.6	7375.8	7371.2	7167.4	6885.8	6556.0	6299.6	6137.0	6020.2
6890.4	15°	7181.2	7442.2	7636.9	7481.2	7034.6	6528.6	6045.4	5711.1	5564.5	5436.3
7123.9	17.5°	7476.6	7755.9	7845.3	7446.8	6700.3	5999.6	5452.3	5189.0	5044.7	4976.0
7375.8	20°	7765.1	8042.2	7968.9	7249.9	6191.9	5399.6	4911.9	4767.6	4737.8	4753.9
7620.8	22.5°	8069.7	8317.0	7994.1	6869.7	5543.9	4785.9	4518.0	4522.6	4589.0	4637.1
7877.3	25°	8381.1	8548.3	7927.7	6320.2	4847.8	4334.8	4268.4	4341.7	4472.2	4566.1
8165.8	27.5°	8681.1	8754.3	7783.4	5640.1	4250.1	4011.9	4023.4	4174.5	4371.5	4502.0
8516.2	30°	9020.0	8937.5	7506.3	4875.2	3835.6	3734.9	3831.0	4007.4	4204.3	4321.1
8958.2	32.5°	9402.4	9095.5	7066.7	4167.6	3542.5	3512.7	3670.7	3785.2	3872.2	3906.6
9544.4	35°	9878.7	9317.7	6503.4	3670.7	3279.2	3350.1	3501.3	3444.0	3409.7	3391.4
10332.1	37.5°	10497.0	9617.6	5843.9	3347.9	3066.2	3233.4	3295.2	3116.6	2981.5	2915.1
11287.0	40°	11241.2	10057.3	5209.6	3098.3	2931.1	3132.6	3025.0	2809.7	2638.0	2544.1
12361.0	42.5°	12067.9	10517.6	4676.0	2910.5	2855.5	3050.2	2825.8	2569.3	2292.2	2262.4
13641.0	45°	12935.7	10991.6	4311.9	2766.2	2818.9	2979.2	2711.3	2296.8	2099.9	2221.2
14925.7	47.5°	13803.6	11426.7	4092.1	2658.6	2800.6	2899.0	2610.5	2145.7	2006.0	2182.3
16301.9	50°	14770.0	11816.0	3993.6	2580.7	2780.0	2867.0	2459.4	2106.7	1907.5	2024.3
17726.2	52.5°	15729.4	12118.2	3920.3	2502.9	2750.2	2841.8	2386.1	2060.9	1788.4	1795.3
19159.7	55°	16686.6	12315.2	3840.2	2399.8	2683.8	2786.8	2379.2	2010.5	1699.1	1667.1
20675.7	57.5°	17707.9	12427.4	3741.7	2285.3	2569.3	2647.1	2372.4	1971.6	1671.6	1619.0
22225.9	60°	18747.5	12592.2	3613.5	2145.7	2415.9	2480.0	2356.3	1957.9	1655.6	1566.3
23686.9	62.5°	19679.5	12649.5	3460.1	2012.8	2218.9	2315.1	2322.0	1946.4	1612.1	1458.7
24900.5	65°	20290.9	12402.2	3192.1	1861.7	2006.0	2145.7	2255.6	1907.5	1534.2	1380.8
25500.5	67.5°	20265.8	11696.9	2773.1	1667.1	1799.9	1957.9	2159.4	1841.1	1440.4	1284.6
25047.1	70°	19322.3	10304.6	2241.8	1440.4	1573.2	1756.4	2035.7	1742.6	1328.2	1179.3
22271.7	72.5°	16572.1	8065.1	1628.1	1174.7	1309.8	1548.0	1875.4	1623.6	1213.7	1085.4
16459.9	75°	11838.9	5104.2	1103.7	902.2	1019.0	1312.1	1676.2	1483.9	1108.3	1090.0
8243.7	77.5°	6047.7	2438.8	730.5	659.5	709.9	1035.0	1408.3	1325.9	1124.3	899.9
2344.9	80°	1967.0	899.9	460.3	448.8	471.7	689.3	1090.0	1087.7	851.8	611.4
567.9	82.5°	627.4	387.0	300.0	288.5	277.1	432.8	760.3	861.0	574.8	387.0
203.8	85°	249.6	231.3	176.3	162.6	116.8	203.8	398.4	572.5	428.2	279.4
52.7	87.5°	91.6	91.6	48.1	34.3	25.2	68.7	107.6	171.7	245.0	144.3
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>
6237.7
6720.9
6952.2
6906.4
6558.3
5992.7
5422.5
4996.6
4747.0
4648.5
4591.3
4534.0
4348.6
3924.9
3409.7
2931.1
2551.0
2292.2
2285.3
2264.7
2111.3
1843.4
1690.0
1625.8
1573.2
1458.7
1380.8
1291.5
<i>1193.0</i>
1078.6
1028.2
801.5
540.4
384.7
286.2
142.0
0.0

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