

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: P955390

Luminaire Tested: **GALN-SB8B-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955390
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-835-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43357 lumens
Efficiency: N/A
Efficacy: 148.1 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

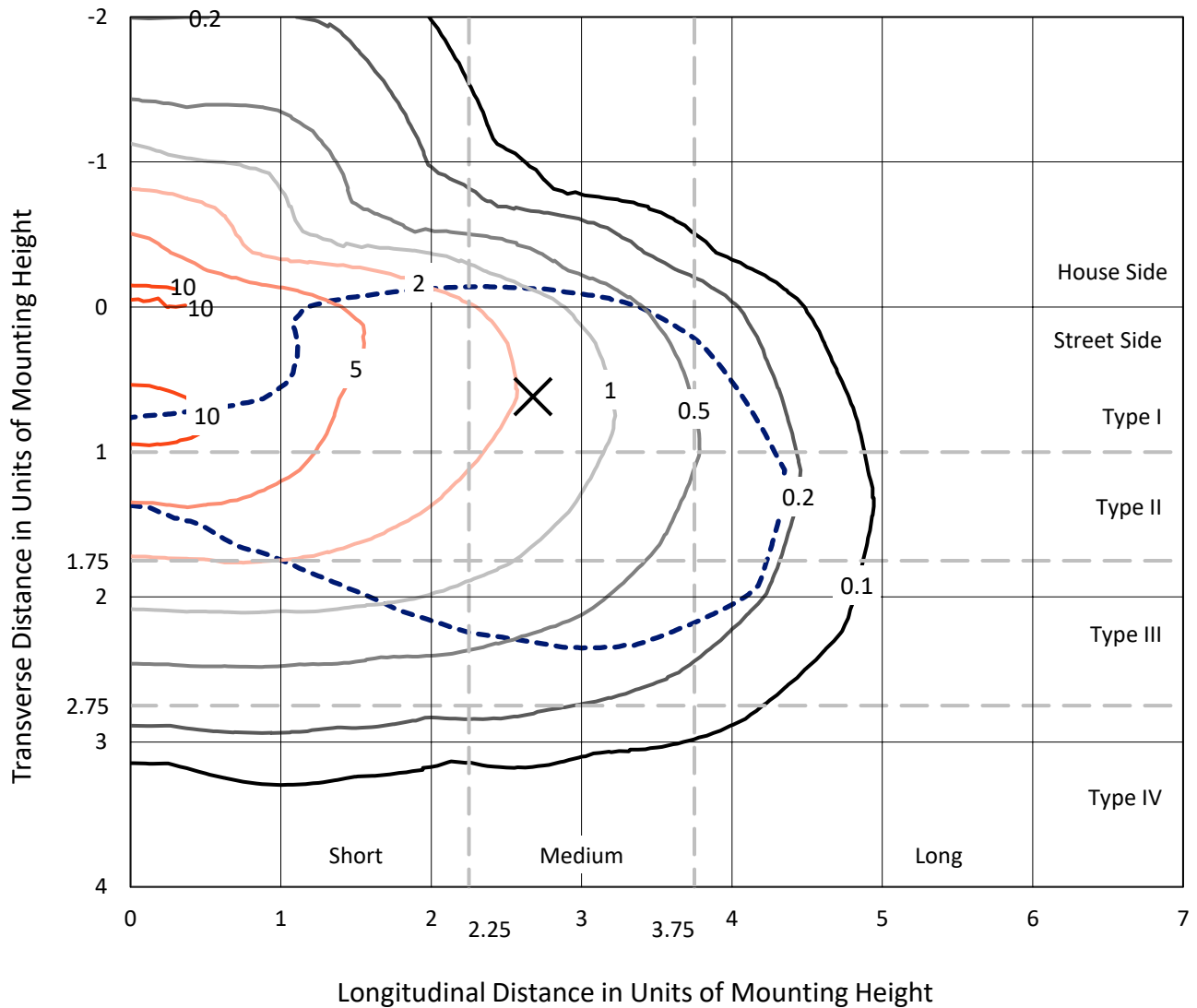
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

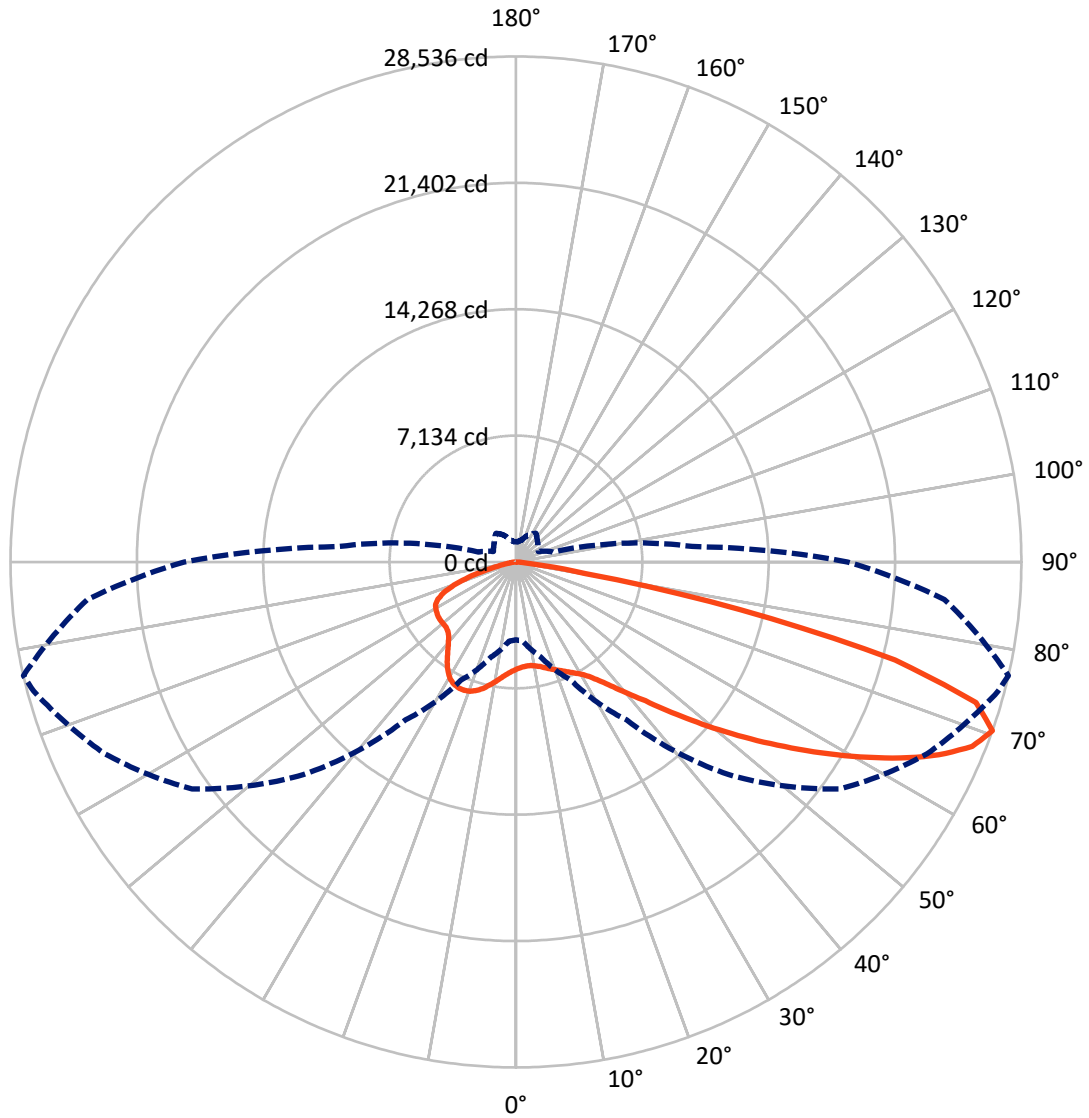
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P955390
CATALOG NUMBER: GALN-SB8B-835-U-T3R

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	9494.5	0.0	9494.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	33862.5	0.0	33862.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	43357.0	0.0	43357.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	1.3
10°-20°	1664.9	3.8
20°-30°	2847.3	6.6
30°-40°	4578.7	10.6
40°-50°	7148.6	16.5
50°-60°	9548.8	22.0
60°-70°	10177.5	23.5
70°-80°	6265.2	14.5
80°-90°	549.0	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°	43357.0	100.0
0°-180°	43357.0	100.0



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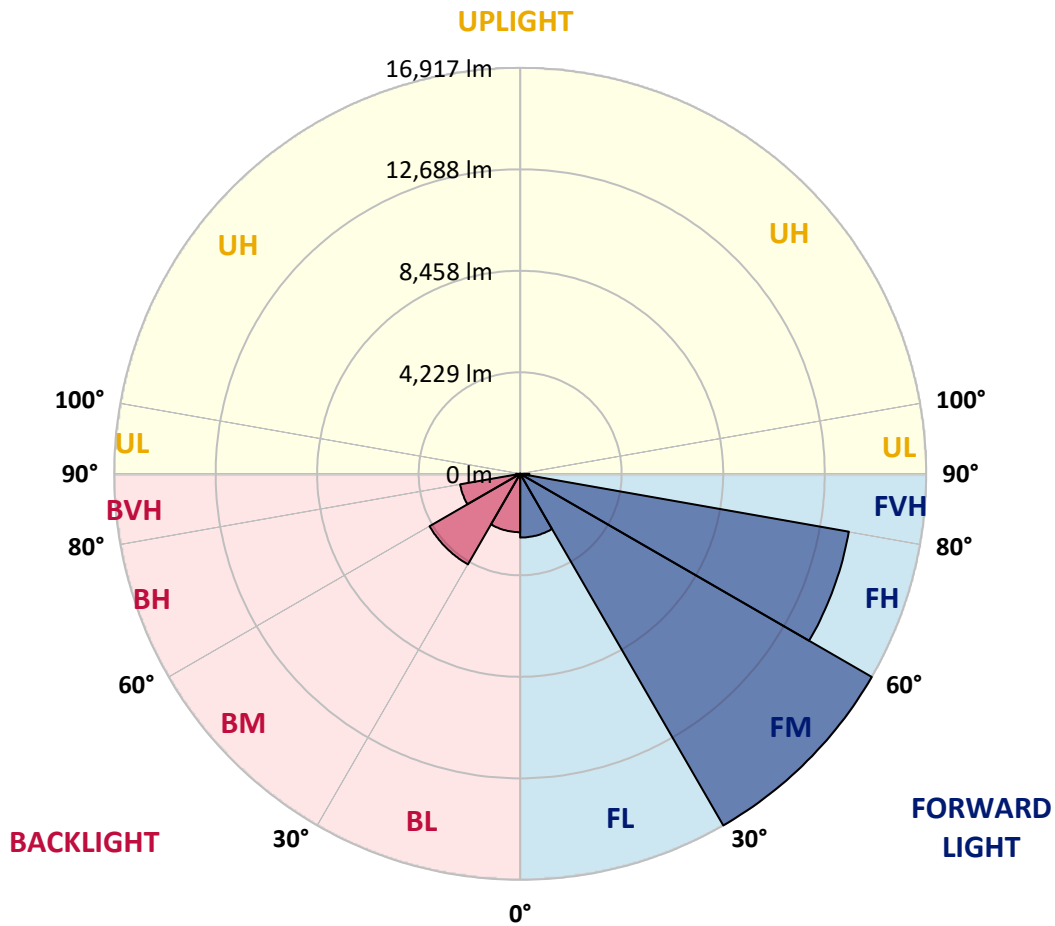
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2656.3	6.1			
FM (30°-60°)	16917.0	39.0			
FH (60°-80°)	13905.3	32.1			G5
FVH (80°-90°)	383.9	0.9			G3/500
BL (0°-30°)	2432.8	5.6	B3/2500		
BM (30°-60°)	4359.1	10.1	B3/5000		
BH (60°-80°)	2537.5	5.9	B4/5000		G4/5000
BVH (80°-90°)	165.1	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°	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7
2.5°	5575.7	5573.5	5602.4	5611.3	5664.5	5702.3	5773.4	5848.9	5946.6	5957.7
5°	5253.8	5253.8	5287.1	5322.6	5391.4	5466.9	5575.7	5706.7	5875.5	5902.1
7.5°	4980.6	4998.4	5027.3	5096.1	5176.0	5284.8	5451.4	5637.9	5860.0	5902.1
10°	4760.8	4780.8	4816.3	4871.8	4991.7	5142.7	5360.3	5600.2	5897.7	5964.3
12.5°	4692.0	4711.9	4731.9	4774.1	4885.1	5062.8	5322.6	5617.9	5988.7	6055.4
15°	4851.8	4876.3	4860.7	4849.6	4907.3	5069.4	5340.4	5682.3	6102.0	6197.5
17.5°	5220.4	5229.3	5193.8	5089.4	5080.6	5167.2	5424.7	5771.1	6244.1	6348.5
20°	5815.5	5800.0	5726.7	5520.2	5402.5	5384.8	5569.1	5904.4	6390.7	6501.7
22.5°	6623.8	6606.0	6459.5	6133.1	5871.1	5697.9	5777.8	6077.6	6555.0	6679.3
25°	7631.9	7607.5	7392.1	6948.0	6541.7	6113.1	6062.0	6306.3	6757.0	6872.5
27.5°	8808.8	8788.8	8555.7	7969.4	7383.2	6681.5	6415.1	6575.0	6968.0	7099.0
30°	10074.5	10132.2	9719.2	9088.6	8346.9	7423.2	6890.3	6905.8	7241.1	7358.8
32.5°	11562.2	11662.2	11164.8	10365.4	9352.8	8229.2	7489.8	7367.7	7638.6	7736.3
35°	13036.7	13149.9	12736.9	11853.1	10687.4	9179.6	8116.0	7898.4	8167.1	8273.7
37.5°	14311.3	14462.2	14249.1	13480.8	12115.2	10325.4	8933.2	8522.4	8817.7	8950.9
40°	15317.1	15548.1	15532.5	15052.9	13798.3	11715.5	9970.1	9292.9	9626.0	9770.3
42.5°	16134.3	16334.1	16507.3	16482.9	15554.7	13294.3	11189.2	10294.3	10547.5	10714.0
45°	16698.3	16911.5	17284.5	17686.4	17244.6	14984.1	12585.9	11482.3	11713.2	11964.2
47.5°	17202.4	17444.4	17928.5	18565.8	18679.0	16680.5	14115.8	12865.7	13076.6	13336.4
50°	17246.8	17455.5	18206.0	19109.8	19698.2	18310.4	15759.0	14417.8	14615.5	14893.0
52.5°	16174.3	16502.9	17813.0	19094.3	20166.8	19673.8	17391.1	16032.2	16254.2	16587.3
55°	12554.8	13036.7	16660.6	18499.2	20000.2	20555.4	18943.3	17748.6	18032.8	18381.5
57.5°	10813.9	11024.9	13225.4	17415.5	19240.8	20784.1	20253.4	19482.8	19940.3	20322.2
60°	9719.2	9894.6	11195.9	15730.2	18241.6	20422.1	21265.9	21099.4	21889.9	22345.1
62.5°	8546.8	8713.3	9896.9	13134.4	16962.6	19820.4	21905.4	22591.6	23888.4	24385.8
65°	7383.2	7525.3	8660.0	11036.0	15337.1	19218.6	22236.3	23881.7	25738.0	26253.2
67.5°	6086.4	6204.1	7276.6	9310.6	13360.9	18394.8	22400.6	24896.5	27347.9	27789.8
70°	4392.2	4483.2	5591.3	7363.2	10880.5	16978.1	22334.0	25615.9	28182.8	28535.9
72.5°	2076.2	2158.3	3459.6	4780.8	7685.2	14220.2	20986.1	25045.2	27334.6	27159.2
75°	1108.0	1179.1	1987.4	2622.4	4059.1	9748.1	17173.5	21574.6	22953.5	22100.8
77.5°	750.5	806.0	1230.2	1574.3	1854.1	4627.6	11038.2	14937.4	14371.2	12963.4
80°	595.1	652.8	1008.1	1065.8	897.1	1672.1	4560.9	6914.7	4967.3	3972.5
82.5°	457.4	521.8	848.2	772.7	488.5	686.1	1327.9	2187.2	1272.4	968.1
85°	279.8	348.6	666.2	493.0	275.3	313.1	450.8	608.4	388.6	324.2
87.5°	142.1	199.8	337.5	179.9	124.3	73.3	119.9	119.9	102.1	88.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955390
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6048.7	0°	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7	6048.7
6017.6	2.5°	6070.9	6115.3	6190.8	6261.9	6317.4	6370.7	6424.0	6452.8	6461.7	6497.2
6050.9	5°	6142.0	6224.1	6370.7	6508.3	6594.9	6648.2	6686.0	6708.2	6712.6	6723.7
6142.0	7.5°	6273.0	6404.0	6608.3	6745.9	6810.3	6805.9	6790.4	6734.8	6712.6	6692.6
6275.2	10°	6457.3	6630.5	6881.4	6976.9	6936.9	6830.3	6692.6	6530.5	6455.1	6381.8
6457.3	12.5°	6686.0	6905.8	7152.3	7147.9	6950.2	6677.1	6357.3	6108.7	5951.0	5837.7
6681.5	15°	6963.6	7216.7	7405.4	7254.4	6821.4	6330.7	5862.2	5538.0	5395.9	5271.5
6908.0	17.5°	7250.0	7520.9	7607.5	7221.1	6497.2	5817.8	5287.1	5031.7	4891.8	4825.2
7152.3	20°	7529.8	7798.5	7727.4	7030.2	6004.3	5236.0	4763.0	4623.1	4594.3	4609.8
7389.9	22.5°	7825.1	8064.9	7751.8	6661.6	5375.9	4640.9	4381.1	4385.5	4449.9	4496.6
7638.6	25°	8127.1	8289.2	7687.4	6128.6	4700.8	4203.4	4139.0	4210.1	4336.7	4427.7
7918.4	27.5°	8418.0	8489.0	7547.5	5469.1	4121.3	3890.4	3901.5	4048.0	4239.0	4365.5
8258.1	30°	8746.6	8666.7	7278.9	4727.5	3719.4	3621.7	3714.9	3885.9	4076.9	4190.1
8686.7	32.5°	9117.5	8819.9	6852.5	4041.3	3435.1	3406.3	3559.5	3670.5	3754.9	3788.2
9255.1	35°	9579.3	9035.3	6306.3	3559.5	3179.8	3248.6	3395.2	3339.7	3306.4	3288.6
10019.0	37.5°	10178.9	9326.2	5666.8	3246.4	2973.3	3135.4	3195.3	3022.1	2891.1	2826.7
10944.9	40°	10900.5	9752.5	5051.7	3004.4	2842.3	3037.7	2933.3	2724.6	2558.0	2467.0
11986.4	42.5°	11702.1	10198.8	4534.3	2822.3	2769.0	2957.7	2740.1	2491.4	2222.7	2193.9
13227.6	45°	12543.7	10658.5	4181.2	2682.4	2733.5	2888.9	2629.1	2227.2	2036.2	2153.9
14473.4	47.5°	13385.3	11080.4	3968.1	2578.0	2715.7	2811.2	2531.4	2080.6	1945.2	2116.2
15807.9	50°	14322.4	11457.9	3872.6	2502.5	2695.7	2780.1	2384.8	2042.9	1849.7	1962.9
17189.0	52.5°	15252.8	11751.0	3801.5	2427.0	2666.8	2755.7	2313.8	1998.5	1734.2	1740.9
18579.1	55°	16180.9	11942.0	3723.8	2327.1	2602.4	2702.4	2307.1	1949.6	1647.6	1616.5
20049.1	57.5°	17171.3	12050.8	3628.3	2216.1	2491.4	2566.9	2300.5	1911.9	1621.0	1569.9
21552.4	60°	18179.4	12210.6	3504.0	2080.6	2342.6	2404.8	2284.9	1898.5	1605.4	1518.8
22969.1	62.5°	19083.2	12266.2	3355.2	1951.8	2151.7	2244.9	2251.6	1887.4	1563.2	1414.5
24145.9	65°	19676.0	12026.3	3095.4	1805.3	1945.2	2080.6	2187.2	1849.7	1487.7	1339.0
24727.7	67.5°	19651.6	11342.4	2689.0	1616.5	1745.3	1898.5	2094.0	1785.3	1396.7	1245.7
24288.0	70°	18736.7	9992.3	2173.9	1396.7	1525.5	1703.1	1974.0	1689.8	1287.9	1143.6
21596.8	72.5°	16069.9	7820.7	1578.8	1139.1	1270.1	1501.1	1818.6	1574.3	1176.9	1052.5
15961.1	75°	11480.1	4949.5	1070.3	874.9	988.1	1272.4	1625.4	1438.9	1074.7	1057.0
7993.9	77.5°	5864.4	2364.9	708.3	639.5	688.4	1003.7	1365.6	1285.7	1090.3	872.7
2273.8	80°	1907.4	872.7	446.3	435.2	457.4	668.4	1057.0	1054.7	826.0	592.9
550.7	82.5°	608.4	375.3	290.9	279.8	268.7	419.7	737.2	834.9	557.4	375.3
197.6	85°	242.0	224.3	171.0	157.7	113.2	197.6	386.4	555.1	415.2	270.9
51.1	87.5°	88.8	88.8	46.6	33.3	24.4	66.6	104.4	166.5	237.6	139.9
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>
6048.7
6517.2
6741.5
6697.1
6359.6
5811.1
5258.2
4845.2
4603.1
4507.7
4452.1
4396.6
4216.8
3806.0
3306.4
2842.3
2473.7
2222.7
2216.1
2196.1
2047.3
1787.5
1638.7
1576.6
1525.5
1414.5
1339.0
1252.4
1156.9
1045.9
997.0
777.2
524.0
373.0
277.6
137.7
0.0

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