

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: P955434

Luminaire Tested: **GALN-SB8B-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43469 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

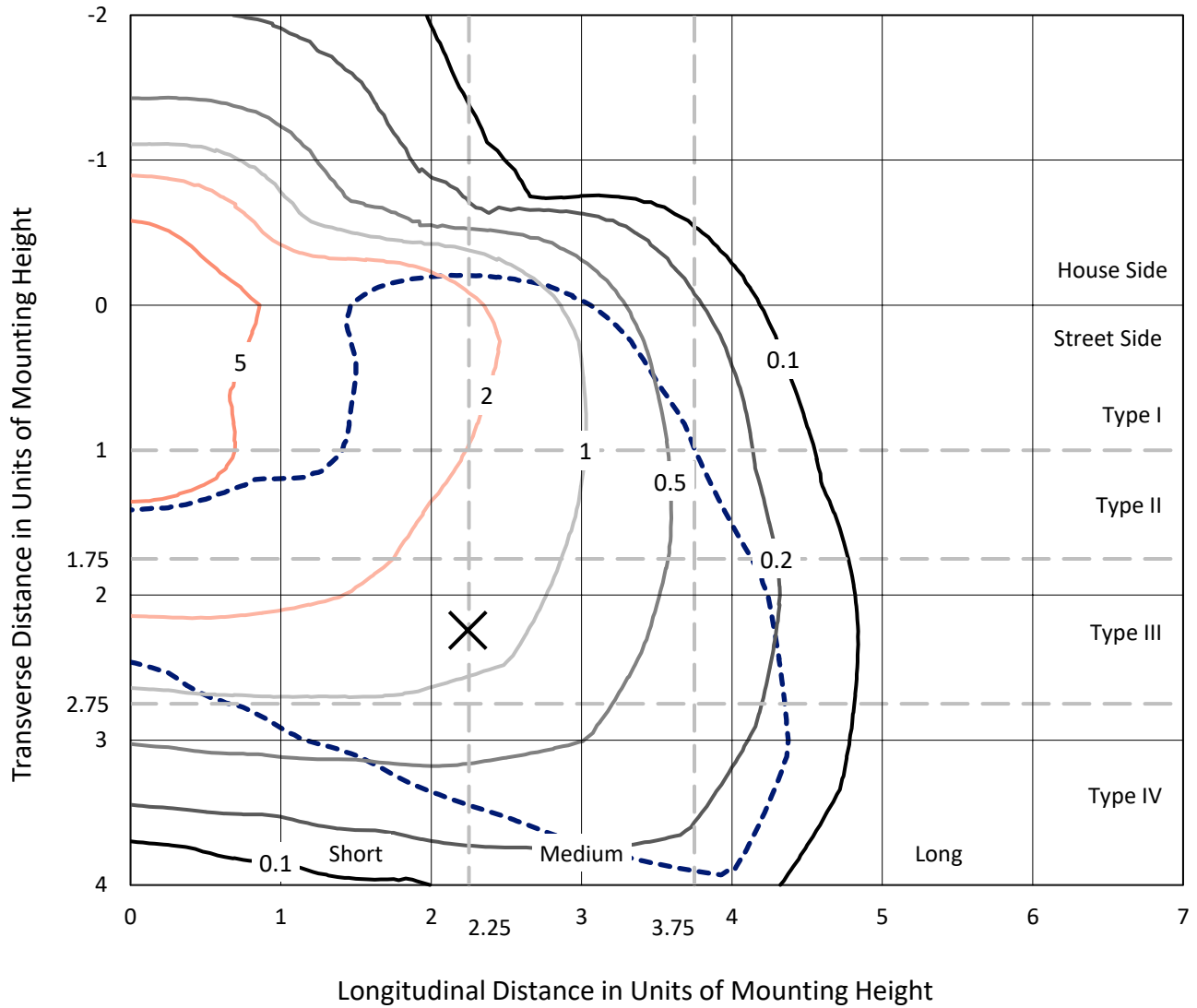
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

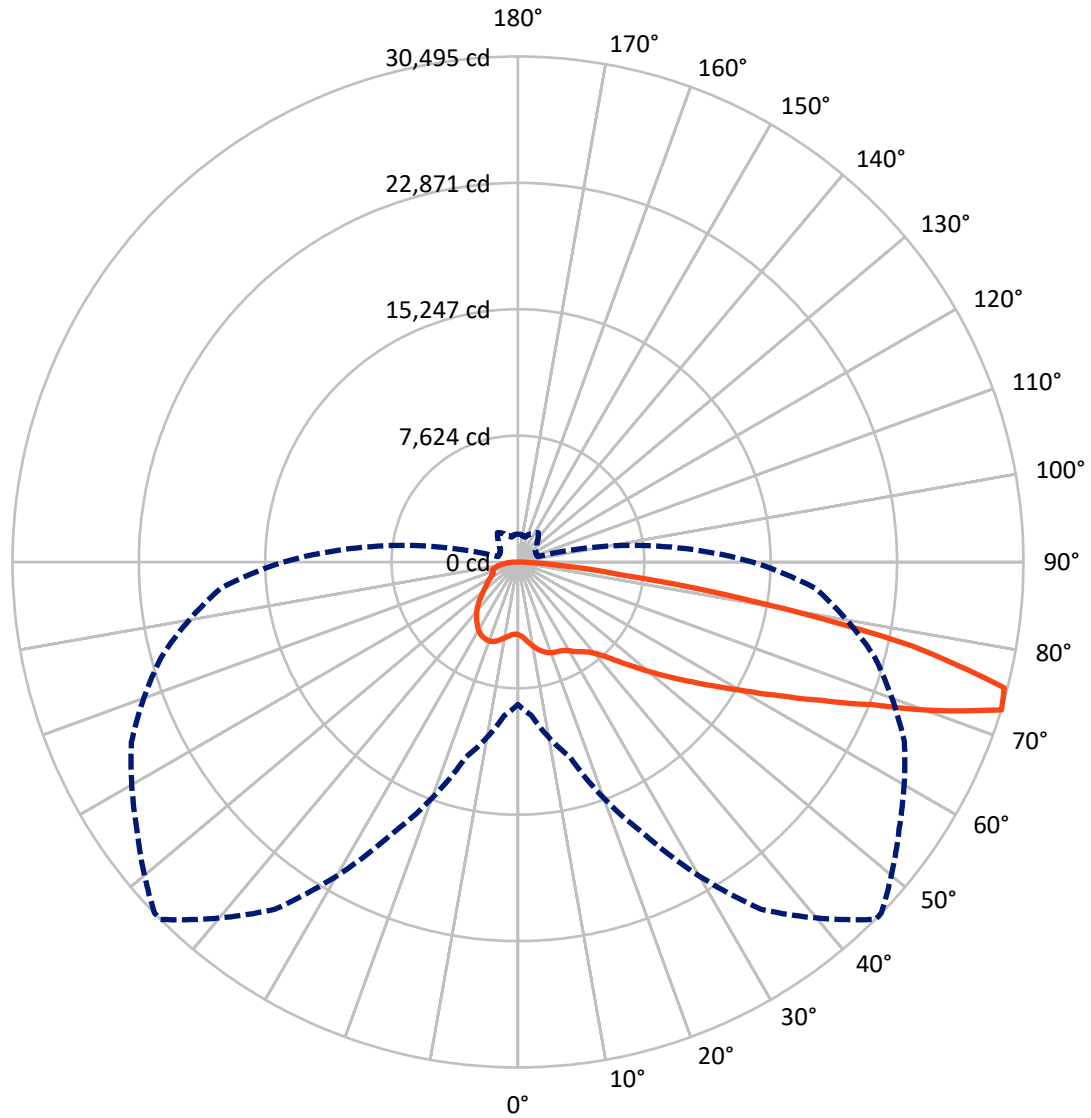
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9826.8	0.0	9826.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	33642.2	0.0	33642.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	43469.0	0.0	43469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.3	1.0
10°-20°	1488.1	3.4
20°-30°	2588.6	6.0
30°-40°	3711.0	8.5
40°-50°	5225.2	12.0
50°-60°	8003.5	18.4
60°-70°	11594.3	26.7
70°-80°	9258.7	21.3
80°-90°	1153.1	2.7
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°	43469.0	100.0
0°-180°	43469.0	100.0

Coefficient of Utilization

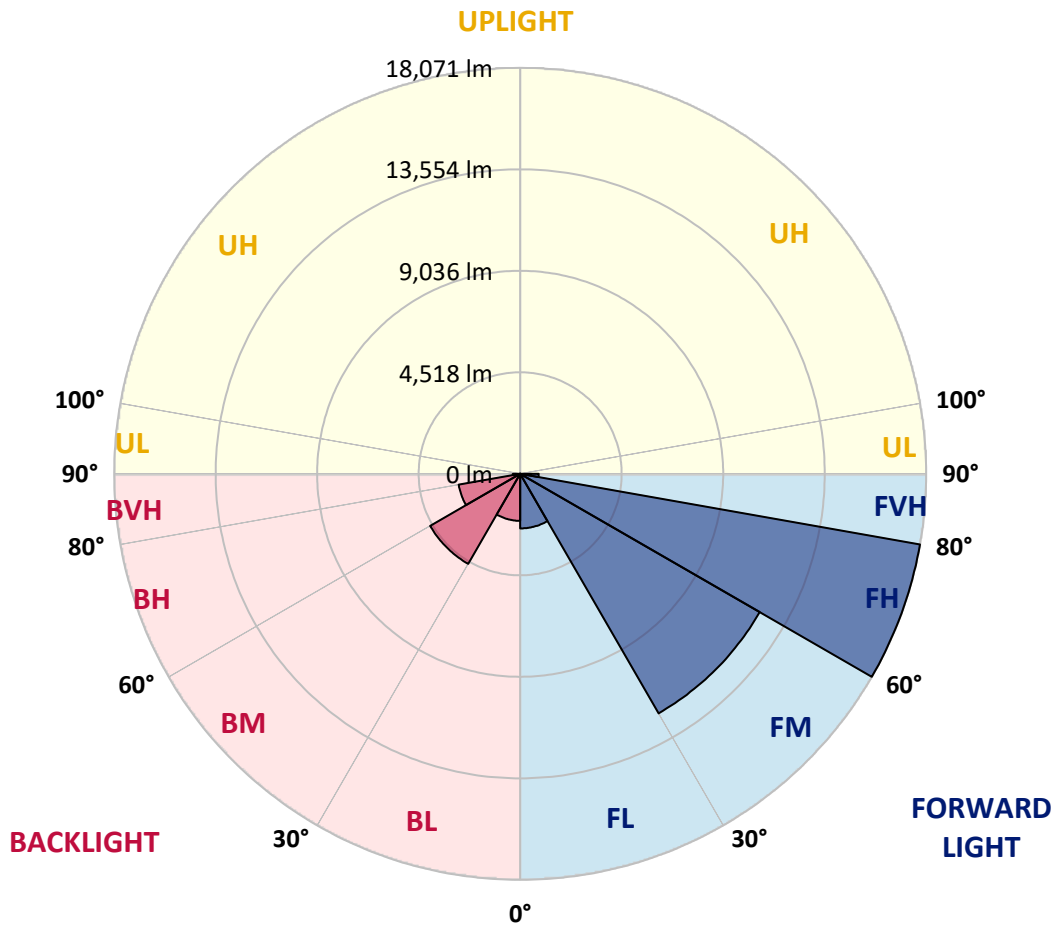


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.9	5.6			
FM (30°-60°)	12312.7	28.3			
FH (60°-80°)	18071.3	41.6			G5
FVH (80°-90°)	827.3	1.9			G5
BL (0°-30°)	2092.2	4.8	B3/2500		
BM (30°-60°)	4627.0	10.6	B3/5000		
BH (60°-80°)	2781.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	325.9	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2
2.5°	4556.9	4586.7	4559.2	4534.0	4522.6	4492.8	4490.5	4472.2	4460.7	4428.7
5°	4875.2	4914.1	4868.3	4818.0	4772.2	4698.9	4689.7	4637.1	4577.5	4508.8
7.5°	5234.7	5269.1	5216.4	5140.8	5060.7	4939.3	4937.0	4840.9	4747.0	4630.2
10°	5548.4	5594.2	5523.3	5420.2	5319.5	5182.1	5166.0	5056.1	4937.0	4785.9
12.5°	5825.5	5857.6	5788.9	5662.9	5546.2	5408.8	5388.2	5266.8	5134.0	4962.2
15°	6045.4	6086.6	5995.0	5859.9	5736.2	5601.1	5582.8	5472.9	5340.1	5159.2
17.5°	6189.6	6224.0	6130.1	5979.0	5859.9	5747.7	5733.9	5642.3	5525.6	5342.4
20°	6244.6	6281.2	6182.8	6029.3	5919.4	5832.4	5825.5	5759.1	5679.0	5511.8
22.5°	6299.5	6333.9	6205.7	6045.4	5949.2	5894.2	5891.9	5848.4	5816.4	5679.0
25°	6521.7	6530.8	6359.1	6127.8	5990.4	5942.3	5940.0	5937.7	5951.5	5843.8
27.5°	6714.0	6711.7	6565.2	6347.6	6134.7	6033.9	6031.6	6054.5	6098.0	6008.7
30°	6995.7	6970.5	6796.5	6569.7	6375.1	6219.4	6205.7	6185.0	6219.4	6148.4
32.5°	7593.3	7513.2	7231.5	6828.5	6574.3	6455.3	6436.9	6308.7	6322.4	6278.9
35°	8449.8	8344.4	7968.9	7318.5	6821.6	6652.2	6643.0	6480.4	6453.0	6414.0
37.5°	9468.8	9338.2	8900.9	8028.4	7247.6	6881.2	6867.4	6720.9	6608.7	6567.5
40°	10492.4	10327.5	9965.7	8894.0	7875.0	7263.6	7220.1	6998.0	6869.7	6801.0
42.5°	11486.2	11348.8	11039.7	9864.9	8649.0	7822.3	7726.2	7346.0	7249.9	7185.7
45°	12365.5	12241.9	12015.2	10902.3	9555.8	8582.6	8488.7	7868.1	7838.4	7838.4
47.5°	13080.0	13052.5	12812.0	11960.2	10625.2	9448.2	9285.6	8594.0	8674.2	8797.8
50°	13872.3	13796.7	13540.2	13002.1	11882.3	10439.7	10306.9	9484.8	9784.8	10123.7
52.5°	14600.5	14641.7	14355.4	14087.5	13302.1	11545.7	11312.2	10535.9	11183.9	11744.9
55°	15349.3	15351.6	15271.4	15234.8	14790.5	12768.5	12512.1	11799.9	12830.4	13526.5
57.5°	16052.3	16056.8	16175.9	16498.8	16517.1	14179.1	13888.3	13352.5	14660.0	15369.9
60°	16679.7	16711.8	17036.9	17792.6	18035.3	15795.8	15521.0	15186.7	16551.5	17265.9
62.5°	16890.4	17007.2	17730.8	18804.7	19535.2	17778.9	17508.6	17309.4	18539.1	19203.2
65°	16533.1	16801.1	18200.2	19640.6	21078.6	20135.2	19867.3	19649.7	20604.6	21229.7
67.5°	15656.1	16001.9	18172.7	20517.6	22951.8	22970.1	22720.5	22209.8	22818.9	23059.4
70°	13345.6	13863.1	16572.1	20845.0	25102.0	26846.9	26606.5	25292.0	25028.7	23865.4
72.5°	8598.6	9294.7	12202.9	18149.8	25580.6	30494.7	30481.0	28074.3	25727.1	22299.1
75°	3137.2	3563.1	5669.8	11392.3	21472.5	30309.2	30398.5	27598.0	23485.3	17224.7
77.5°	1142.7	1250.3	1850.2	4378.3	13205.9	24318.8	24504.3	22063.3	16716.3	8644.4
80°	600.0	659.5	948.0	1699.1	5658.4	14442.5	14733.3	13112.0	7856.7	2603.6
82.5°	332.0	359.5	531.3	922.8	2548.7	6175.9	6349.9	5179.8	2763.9	1103.7
85°	178.6	190.1	249.6	503.8	1245.7	2141.1	2189.2	1548.0	1101.4	648.0
87.5°	52.7	64.1	82.4	160.3	487.8	480.9	492.3	306.8	435.1	327.5
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°
4385.2	0°	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2	4385.2
4419.5	2.5°	4405.8	4398.9	4373.7	4362.3	4348.5	4346.2	4357.7	4360.0	4362.3	4364.6
4469.9	5°	4447.0	4424.1	4401.2	4387.5	4392.0	4394.3	4417.2	4433.3	4444.7	4453.9
4563.8	7.5°	4527.2	4508.8	4469.9	4467.6	4474.5	4495.1	4524.9	4561.5	4582.1	4598.1
4685.2	10°	4646.2	4611.9	4566.1	4572.9	4586.7	4616.5	4678.3	4708.1	4742.4	4772.2
4834.0	12.5°	4767.6	4737.8	4685.2	4689.7	4712.6	4765.3	4824.8	4861.5	4884.4	4907.3
4994.3	15°	4925.6	4872.9	4815.7	4815.7	4856.9	4914.1	4941.6	4971.4	4985.1	5010.3
5166.0	17.5°	5088.2	5019.5	4943.9	4939.3	4989.7	5017.2	5033.2	5037.8	5042.4	5069.9
5333.2	20°	5250.8	5175.2	5067.6	5058.4	5069.9	5065.3	5063.0	5058.4	5065.3	5099.6
5504.9	22.5°	5411.1	5324.0	5175.2	5134.0	5101.9	5058.4	5056.1	5053.8	5058.4	5092.8
5690.4	25°	5598.8	5493.5	5294.3	5170.6	5063.0	5003.5	5010.3	5012.6	5017.2	5044.7
5882.8	27.5°	5802.6	5685.8	5404.2	5159.2	4964.5	4923.3	4911.9	4918.7	4934.8	4978.3
6075.1	30°	6006.4	5869.0	5504.9	5113.4	4840.9	4783.6	4747.0	4763.0	4813.4	4856.9
6242.3	32.5°	6191.9	6054.5	5585.1	5012.6	4682.9	4593.6	4545.5	4566.1	4616.5	4632.5
6427.8	35°	6409.5	6253.7	5619.4	4852.3	4511.1	4373.7	4309.6	4279.8	4305.0	4289.0
6645.3	37.5°	6652.2	6489.6	5614.9	4641.6	4309.6	4151.6	4062.3	3950.1	3897.4	3842.5
6965.9	40°	7011.7	6778.1	5559.9	4387.5	4060.0	3915.7	3755.5	3565.4	3446.3	3338.7
7483.4	42.5°	7501.7	7178.9	5459.1	4108.1	3778.4	3643.2	3425.7	3203.6	3015.8	2837.2
8268.9	45°	8232.2	7703.3	5333.2	3810.4	3473.8	3341.0	3105.1	2855.5	2642.6	2413.6
9384.0	47.5°	9285.6	8408.5	5214.1	3471.5	3153.2	3031.8	2818.9	2587.6	2335.7	2113.6
10996.1	50°	10732.8	9420.7	5104.2	3141.8	2837.2	2745.6	2576.1	2340.3	2086.1	1907.5
12885.3	52.5°	12573.9	10796.9	5058.4	2823.5	2541.8	2507.5	2372.3	2152.5	1912.1	1760.9
15088.2	55°	14687.5	12443.4	5058.4	2518.9	2283.0	2294.5	2200.6	1996.8	1788.4	1653.3
17359.8	57.5°	16844.6	14110.4	4966.8	2237.2	2063.2	2111.3	2051.8	1873.1	1685.4	1545.7
19748.2	60°	18832.2	15507.3	4595.8	1980.8	1868.6	1944.1	1905.2	1751.8	1522.8	1406.0
21745.0	62.5°	20359.6	16295.0	3881.4	1777.0	1708.3	1795.3	1774.7	1591.5	1493.0	1444.9
23384.6	65°	21124.4	16166.8	2967.7	1596.1	1573.2	1708.3	1664.8	1657.9	1580.0	1525.1
23918.1	67.5°	20655.0	15063.0	2152.5	1463.3	1495.3	1628.1	1795.3	1822.8	1678.5	1570.9
22415.9	70°	18596.4	13066.2	1602.9	1337.3	1396.8	1630.4	2047.2	1907.5	1646.4	1520.5
17978.1	72.5°	14147.1	9743.6	1243.4	1204.5	1268.6	1641.9	2159.4	1868.6	1554.8	1680.8
11199.9	75°	8090.2	5349.2	998.4	1041.9	1108.3	1534.2	2102.1	1767.8	1483.9	1543.4
4437.8	77.5°	3084.5	2056.3	824.4	881.6	890.8	1339.6	2010.5	1760.9	1412.9	1378.5
1330.4	80°	1069.4	803.8	682.4	700.7	689.3	1190.8	1928.1	1531.9	1156.4	1035.0
549.6	82.5°	437.4	400.7	540.4	517.5	490.0	925.1	1557.1	1252.6	945.7	835.8
265.6	85°	190.1	254.2	357.2	313.7	283.9	641.2	1248.0	1060.2	799.2	689.3
87.0	87.5°	38.9	96.2	151.1	142.0	146.6	428.2	886.2	753.4	565.6	423.6
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>
4385.2
4373.7
4458.5
4602.7
4765.3
4916.4
5019.5
5079.0
5113.4
5115.7
5081.3
5021.8
4905.0
4689.7
4339.4
3876.8
3345.6
2821.2
2386.1
2088.4
1896.0
1749.5
1639.6
1522.8
1387.7
1428.9
1506.8
1552.6
1499.9
1667.1
1543.4
1257.2
1000.7
826.7
687.0
332.0
0.0

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