

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: P942059

Luminaire Tested: **GALN-SB5D-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48597 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

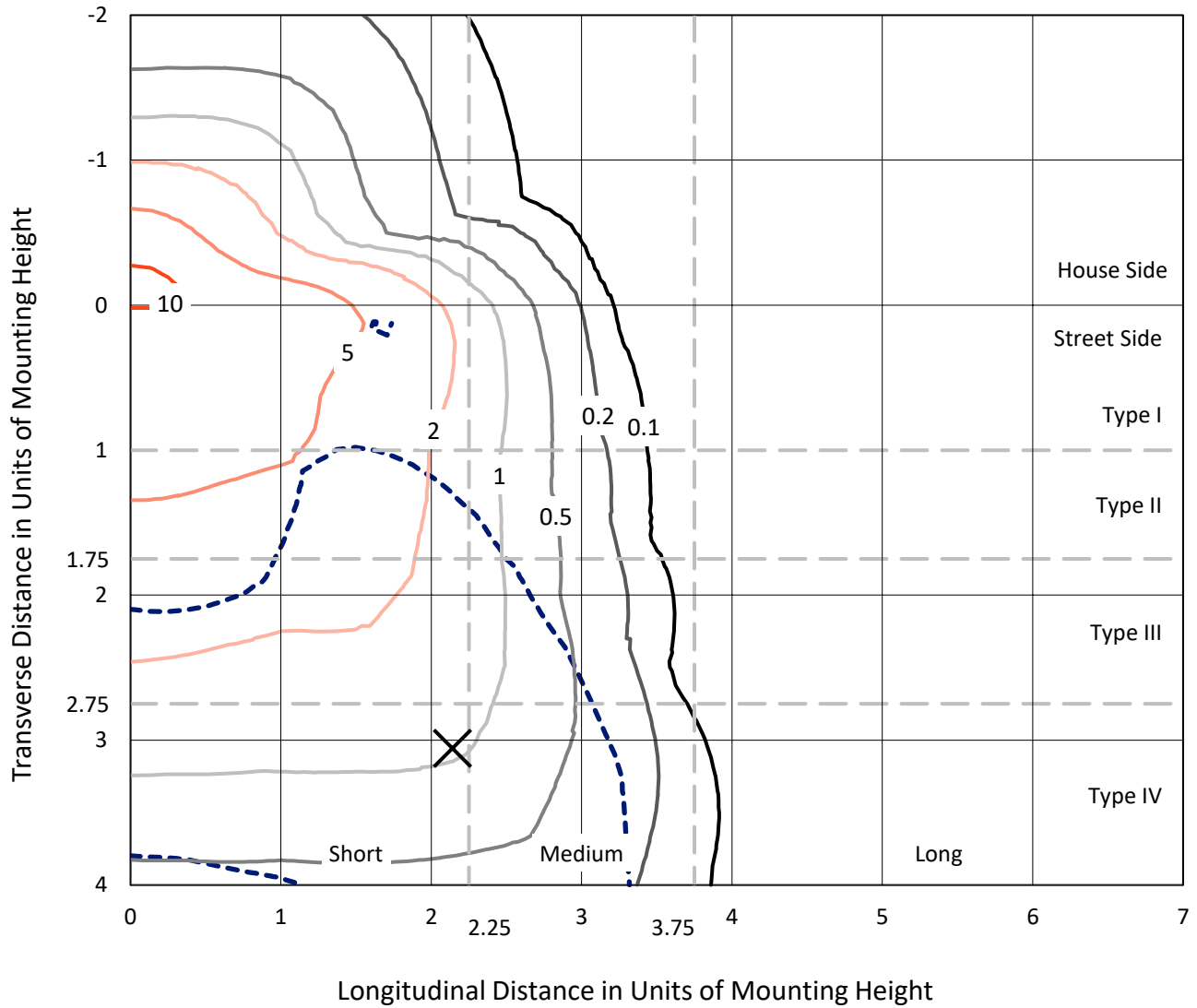
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

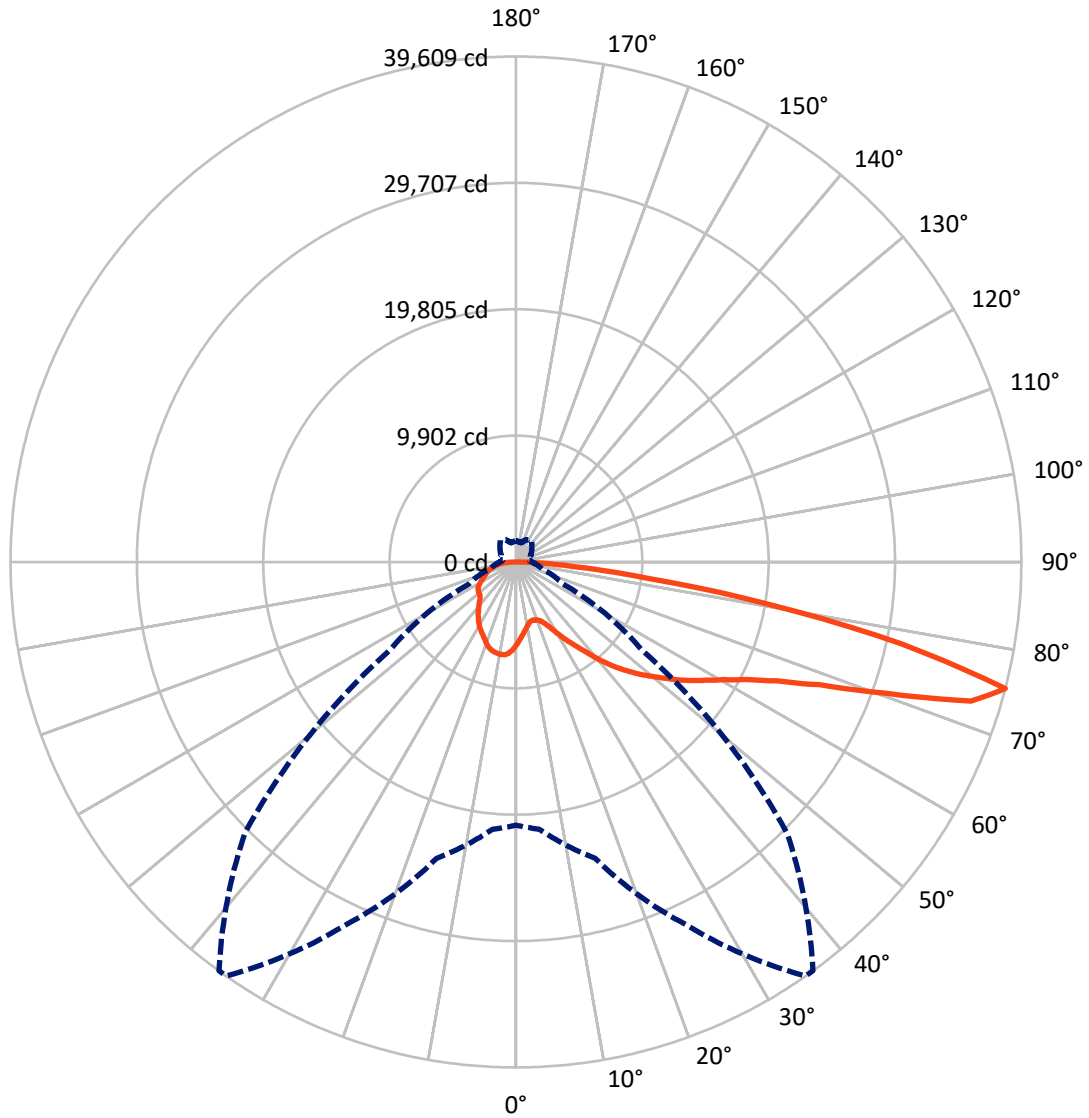
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11564.9	0.0	11564.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	37032.1	0.0	37032.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	48597.0	0.0	48597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.1	1.3
10°-20°	1768.6	3.6
20°-30°	2969.9	6.1
30°-40°	4615.6	9.5
40°-50°	6850.7	14.1
50°-60°	9457.9	19.5
60°-70°	11474.5	23.6
70°-80°	9482.8	19.5
80°-90°	1363.9	2.8
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°	48597.0	100.0
0°-180°	48597.0	100.0

Coefficient of Utilization



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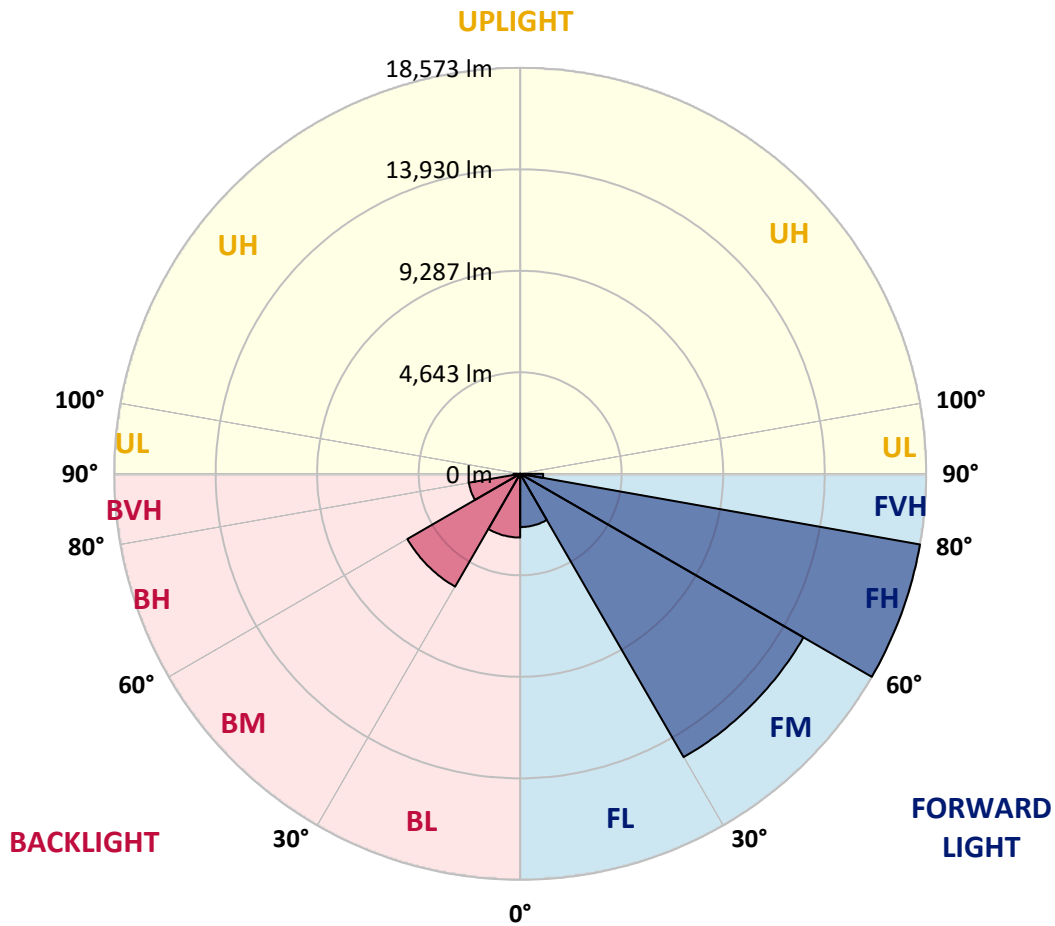
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2437.0	5.0			
FM (30°-60°)	14965.2	30.8			
FH (60°-80°)	18573.1	38.2			G5
FVH (80°-90°)	1056.8	2.2			G5
BL (0°-30°)	2914.5	6.0	B4/5000		
BM (30°-60°)	5958.9	12.3	B4/8500		
BH (60°-80°)	2384.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	307.1	0.6			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°	36°	45°	55°	65°	75°
0°	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9
2.5°	5971.5	6008.2	6024.0	6016.1	6055.5	6050.3	6105.5	6173.8	6268.3	6360.3
5°	5511.7	5551.1	5585.3	5616.8	5693.0	5716.6	5803.3	5934.7	6108.1	6284.1
7.5°	5083.5	5117.7	5170.2	5228.0	5356.7	5380.4	5524.9	5729.8	5971.5	6228.9
10°	4734.1	4768.2	4823.4	4889.1	5049.3	5078.2	5262.1	5535.4	5850.6	6176.4
12.5°	4584.3	4594.9	4626.4	4692.1	4831.3	4849.7	5052.0	5364.6	5732.4	6137.0
15°	4576.5	4597.5	4600.1	4634.3	4749.9	4757.7	4944.3	5254.3	5658.8	6129.1
17.5°	4655.3	4671.0	4647.4	4668.4	4765.6	4778.8	4925.9	5201.7	5635.2	6163.3
20°	4865.4	4878.6	4807.7	4778.8	4849.7	4860.2	5004.7	5235.9	5658.8	6234.2
22.5°	5312.1	5319.9	5146.6	5028.3	5033.6	5038.8	5164.9	5375.1	5750.8	6362.9
25°	6008.2	6003.0	5727.1	5498.6	5367.2	5338.3	5422.4	5601.0	5905.8	6533.7
27.5°	6822.7	6783.3	6507.4	6165.9	5879.5	5837.5	5819.1	5895.3	6126.5	6759.6
30°	7742.2	7705.4	7408.5	6961.9	6565.2	6496.9	6323.5	6284.1	6454.9	7067.0
32.5°	8751.0	8727.3	8372.7	7831.5	7300.8	7222.0	6930.4	6825.3	6959.3	7532.0
35°	9596.9	9575.9	9281.7	8724.7	8075.8	7978.6	7681.7	7563.5	7631.8	8128.3
37.5°	10361.4	10350.9	10098.7	9660.0	8990.0	8871.8	8538.2	8498.8	8485.6	8913.9
40°	11070.7	11044.5	10781.7	10550.6	10054.0	9946.3	9652.1	9617.9	9518.1	9880.6
42.5°	11856.2	11787.9	11407.0	11299.3	11165.3	11076.0	10900.0	10905.2	10684.5	10970.9
45°	12497.3	12457.9	12066.4	12003.4	12147.9	12111.1	12263.4	12302.9	11874.6	12113.7
47.5°	13185.6	13148.8	12817.8	12773.1	13164.6	13175.1	13713.6	13726.8	13035.8	13301.2
50°	14034.1	13981.6	13653.2	13708.4	14147.1	14186.5	15171.7	15082.4	14105.1	14507.0
52.5°	14593.7	14625.2	14554.3	14643.6	15242.6	15279.4	16606.1	16377.5	15163.8	15697.1
55°	15006.2	15069.2	15289.9	15494.8	16398.6	16435.3	17959.1	17609.7	16041.3	16800.5
57.5°	15536.9	15447.5	15860.0	16259.3	17496.7	17593.9	19275.3	18797.1	16818.9	17751.5
60°	16298.7	16235.7	16556.2	17147.3	18726.2	18881.2	20667.6	19866.4	17389.0	18505.5
62.5°	17843.5	17685.8	17735.8	18258.6	20276.2	20481.1	22238.7	20799.0	17672.7	18799.8
65°	20152.7	19882.1	19629.9	19992.5	22459.3	22661.6	24012.0	21532.0	17567.6	18229.7
67.5°	23061.0	22793.0	22483.0	22824.5	25675.0	25835.2	26200.4	21944.4	16740.1	16033.4
70°	25459.5	25359.7	25730.1	27135.6	30811.0	30816.3	29006.2	21602.9	14472.9	11367.6
72.5°	25141.6	25081.2	27033.2	31378.5	37284.2	37145.0	31662.2	19017.8	9749.3	5128.2
75°	20625.6	21017.1	24040.9	31302.3	39609.3	39590.9	30036.0	12090.1	4032.6	2125.3
77.5°	11060.2	11680.2	15607.8	23110.9	30921.3	31386.3	21116.9	4229.7	1731.3	1360.9
80°	3607.1	4148.2	6221.0	11766.9	20092.3	20005.6	9050.5	1660.3	1184.8	964.2
82.5°	1531.6	1594.7	2779.5	5556.4	10311.5	10151.2	2882.0	953.6	832.8	659.4
85°	599.0	669.9	1226.9	2569.3	4466.1	4368.9	1040.3	472.9	533.3	430.8
87.5°	197.0	239.1	438.7	880.1	1389.8	1339.8	254.8	162.9	231.2	197.0
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°
6475.9	0°	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9	6475.9
6494.3	2.5°	6531.0	6573.1	6623.0	6696.6	6759.6	6812.2	6867.3	6901.5	6914.6	6954.0
6504.8	5°	6578.3	6670.3	6793.8	6914.6	7032.8	7103.8	7166.8	7198.3	7227.2	7248.3
6533.7	7.5°	6657.2	6775.4	6969.8	7127.4	7227.2	7285.0	7327.1	7316.6	7327.1	7332.3
6565.2	10°	6725.5	6891.0	7122.2	7271.9	7348.1	7350.7	7340.2	7303.4	7285.0	7287.7
6612.5	12.5°	6806.9	6990.8	7240.4	7366.5	7387.5	7329.7	7285.0	7222.0	7198.3	7187.8
6683.4	15°	6917.2	7127.4	7369.1	7416.4	7363.8	7290.3	7214.1	7111.6	7059.1	7017.1
6804.3	17.5°	7051.2	7282.4	7468.9	7434.8	7321.8	7201.0	7077.5	6922.5	6814.8	6770.1
6969.8	20°	7237.7	7445.3	7545.1	7395.4	7224.6	7040.7	6830.5	6641.4	6541.6	6496.9
7180.0	22.5°	7463.7	7663.3	7618.7	7327.1	7085.4	6791.1	6528.4	6389.2	6339.3	6307.7
7450.5	25°	7734.3	7905.0	7671.2	7227.2	6856.8	6460.1	6257.8	6213.2	6189.5	6165.9
7781.6	27.5°	8086.3	8178.3	7710.6	7080.1	6499.5	6108.1	6034.5	6042.4	6034.5	5995.1
8241.3	30°	8551.3	8532.9	7747.4	6841.1	6089.7	5790.2	5795.5	5829.6	5834.9	5808.6
8882.3	32.5°	9163.4	8976.9	7765.8	6531.0	5698.2	5511.7	5517.0	5553.8	5580.0	5535.4
9720.4	35°	9904.3	9494.5	7736.9	6142.2	5396.1	5246.4	5207.0	5217.5	5225.4	5183.3
10737.1	37.5°	10768.6	10075.0	7608.2	5711.4	5146.6	4986.3	4902.2	4831.3	4789.3	4749.9
11887.8	40°	11717.0	10708.2	7371.7	5291.0	4868.1	4710.4	4584.3	4450.4	4308.5	4256.0
13106.8	42.5°	12710.1	11359.7	7085.4	4889.1	4547.6	4418.8	4284.9	4090.4	3877.6	3769.9
14373.0	45°	13739.9	12027.0	6804.3	4492.4	4219.2	4164.0	4009.0	3775.2	3544.0	3407.4
15641.9	47.5°	14748.7	12657.5	6391.8	4093.1	3911.8	3972.2	3851.4	3635.9	3378.5	3163.1
16900.3	50°	15712.9	13248.6	5716.6	3688.5	3662.2	3914.4	3798.8	3488.8	3194.6	2918.7
18135.1	52.5°	16669.1	13726.8	4852.3	3320.7	3528.2	3898.7	3730.5	3389.0	3029.1	2740.1
19296.3	55°	17480.9	13973.7	4019.5	3005.4	3333.8	3764.7	3649.1	3270.8	2795.3	2487.9
20092.3	57.5°	17943.3	13774.1	3325.9	2695.4	3065.9	3544.0	3509.8	3018.6	2516.8	2280.4
20247.3	60°	17743.6	12964.9	2758.5	2424.8	2811.0	3304.9	3268.2	2769.0	2304.0	2080.7
19417.1	62.5°	16642.9	11422.8	2309.2	2188.4	2579.8	3060.6	3026.5	2577.2	2141.1	1925.7
17213.0	65°	14425.6	9292.2	1959.8	1991.4	2346.0	2766.4	2816.3	2417.0	2012.4	1802.2
13316.9	67.5°	11002.4	6730.7	1686.6	1820.6	2117.5	2477.4	2621.9	2301.4	1904.7	1705.0
7705.4	70°	6271.0	3822.5	1455.4	1655.1	1915.2	2209.4	2472.1	2209.4	1789.1	1623.6
2887.2	72.5°	2377.6	1754.9	1258.4	1489.6	1720.8	1983.5	2306.6	2064.9	1655.1	1531.6
1492.2	75°	1268.9	1069.2	1058.7	1295.2	1497.5	1762.8	2099.1	1923.1	1555.3	1618.3
1032.5	77.5°	864.3	756.6	885.3	1108.6	1253.1	1518.5	1878.4	1707.6	1347.7	1342.5
714.6	80°	599.0	535.9	719.8	893.2	969.4	1276.8	1639.3	1465.9	1098.1	1024.6
441.4	82.5°	359.9	349.4	538.6	667.3	685.7	985.2	1358.2	1229.5	898.5	782.9
262.7	85°	197.0	207.5	344.2	391.4	399.3	688.3	1064.0	951.0	690.9	580.6
94.6	87.5°	55.2	70.9	126.1	155.0	191.8	357.3	633.1	564.8	346.8	241.7
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>
6475.9
6951.4
7253.5
7340.2
7292.9
7182.6
7030.2
6772.7
6491.6
6313.0
6165.9
6003.0
5821.7
5556.4
5212.2
4776.1
4279.6
3783.1
3396.9
3139.4
2895.1
2708.6
2461.6
2248.8
2049.2
1891.5
1768.1
1673.5
1602.6
1510.6
1670.9
1237.4
979.9
788.1
585.9
241.7
0.0

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