

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: P951507

Luminaire Tested: **GALN-SB5C-850-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951507  
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-SB5C-850-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

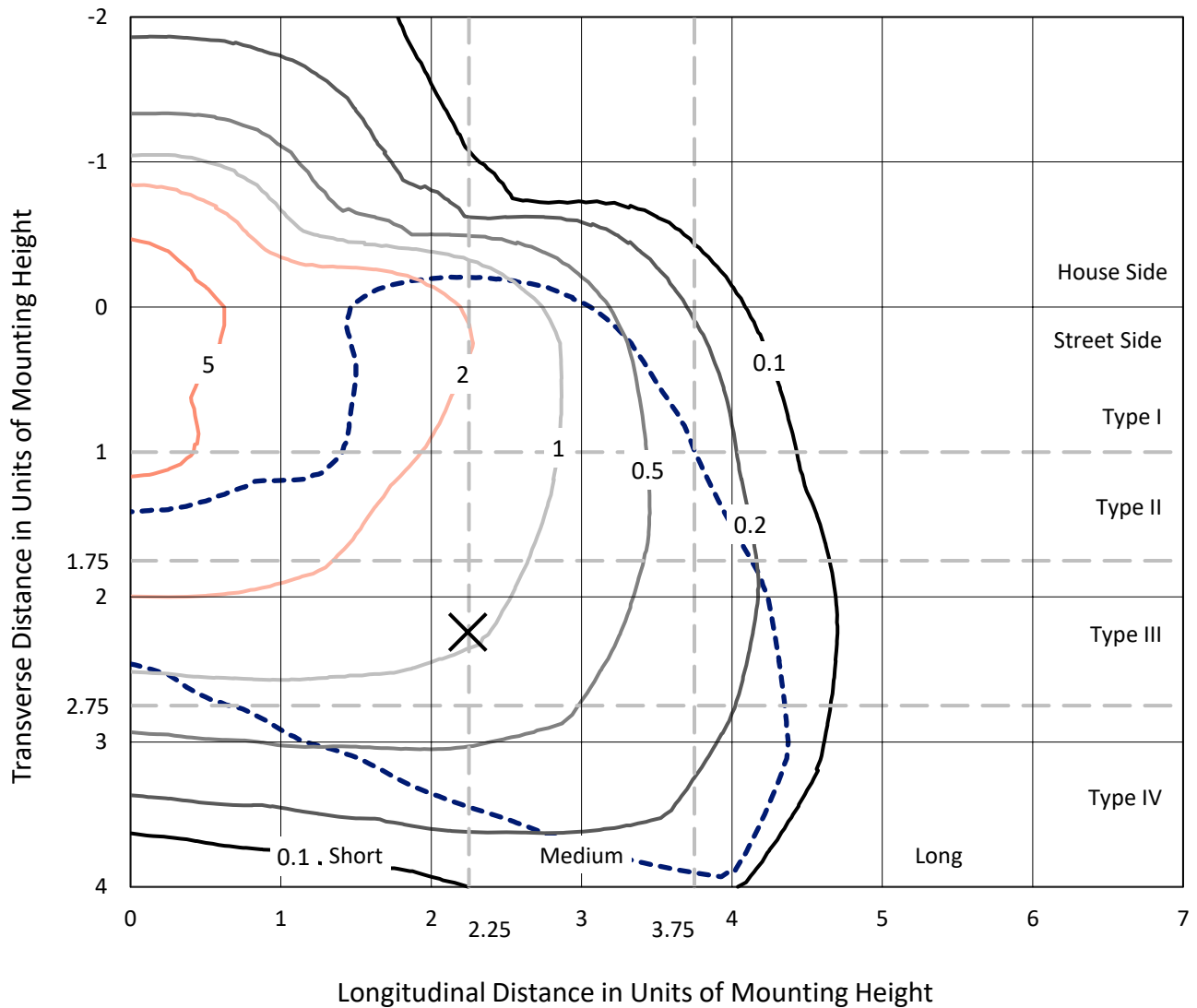
Lumens per Lamp: N/A  
Luminaire Lumens: 36115 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

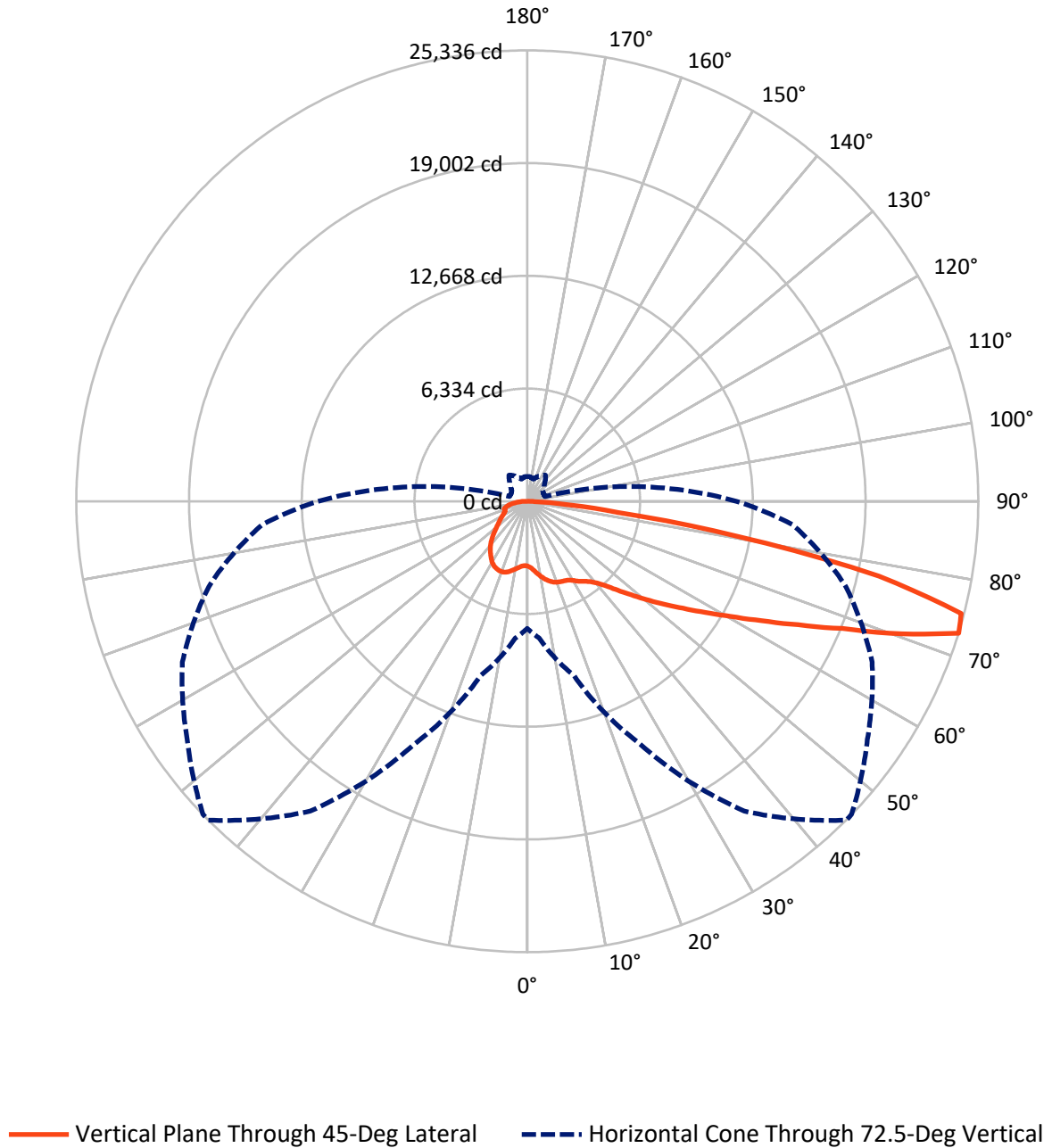
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8164.4	0.0	8164.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	27950.6	0.0	27950.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	36115.0	0.0	36115.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.8	1.0
10°-20°	1236.3	3.4
20°-30°	2150.7	6.0
30°-40°	3083.1	8.5
40°-50°	4341.2	12.0
50°-60°	6649.5	18.4
60°-70°	9632.8	26.7
70°-80°	7692.4	21.3
80°-90°	958.1	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°	36115.0	100.0
0°-180°	36115.0	100.0



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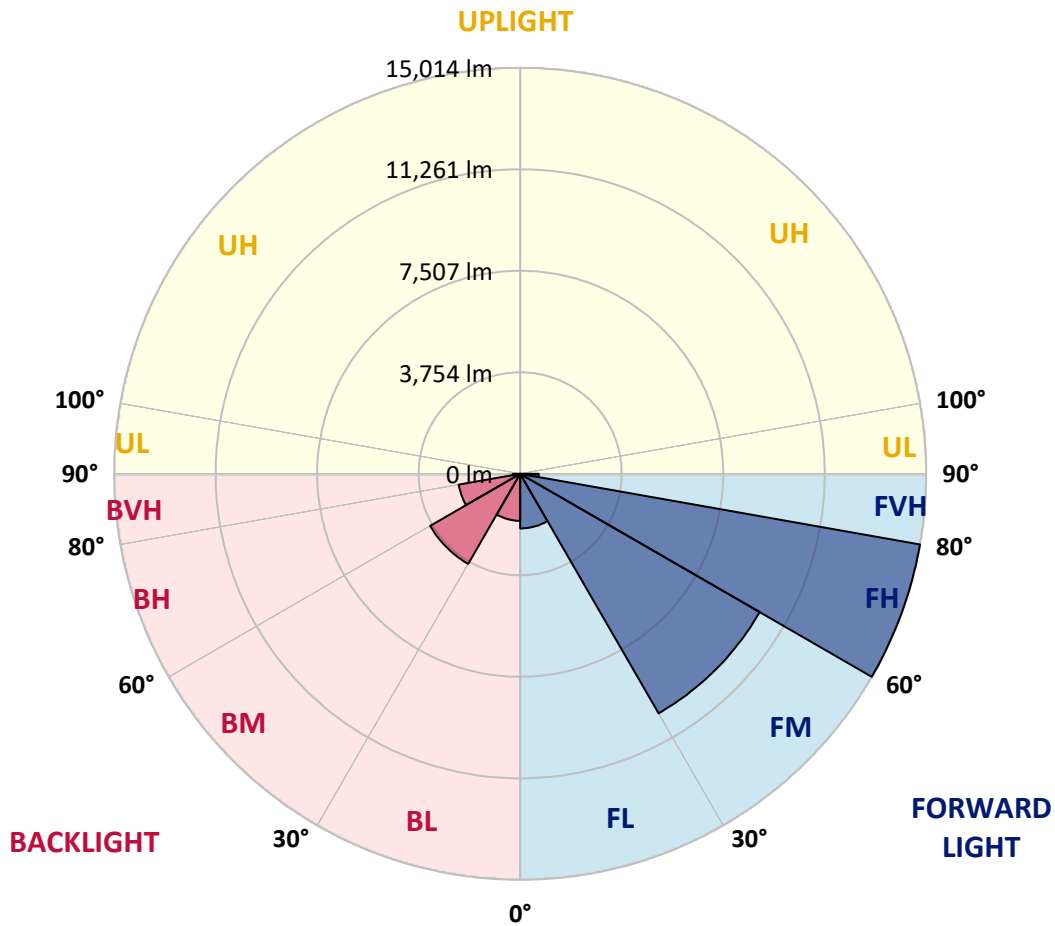
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2019.6	5.6			
FM (30°-60°)	10229.6	28.3			
FH (60°-80°)	15014.1	41.6			G5
FVH (80°-90°)	687.3	1.9			G4/750
BL (0°-30°)	1738.3	4.8	B3/2500		
BM (30°-60°)	3844.3	10.6	B3/5000		
BH (60°-80°)	2311.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	270.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3
2.5°	3786.0	3810.7	3787.9	3767.0	3757.5	3732.7	3730.8	3715.6	3706.1	3679.4
5°	4050.4	4082.8	4044.7	4002.9	3964.8	3903.9	3896.3	3852.6	3803.1	3746.0
7.5°	4349.1	4377.7	4333.9	4271.1	4204.5	4103.7	4101.8	4021.9	3943.9	3846.9
10°	4609.8	4647.8	4588.8	4503.2	4419.5	4305.4	4292.1	4200.7	4101.8	3976.2
12.5°	4840.0	4866.6	4809.5	4704.9	4607.9	4493.7	4476.6	4375.8	4265.4	4122.7
15°	5022.6	5056.9	4980.8	4868.5	4765.8	4653.5	4638.3	4547.0	4436.6	4286.3
17.5°	5142.5	5171.0	5093.0	4967.4	4868.5	4775.3	4763.9	4687.8	4590.7	4438.5
20°	5188.1	5218.6	5136.8	5009.3	4918.0	4845.7	4840.0	4784.8	4718.2	4579.3
22.5°	5233.8	5262.3	5155.8	5022.6	4942.7	4897.1	4895.2	4859.0	4832.4	4718.2
25°	5418.3	5425.9	5283.3	5091.1	4977.0	4937.0	4935.1	4933.2	4944.6	4855.2
27.5°	5578.2	5576.2	5454.5	5273.7	5096.8	5013.1	5011.2	5030.2	5066.4	4992.2
30°	5812.2	5791.2	5646.6	5458.3	5296.6	5167.2	5155.8	5138.7	5167.2	5108.2
32.5°	6308.7	6242.1	6008.1	5673.3	5462.1	5363.2	5347.9	5241.4	5252.8	5216.7
35°	7020.3	6932.7	6620.7	6080.4	5667.6	5526.8	5519.2	5384.1	5361.3	5328.9
37.5°	7866.9	7758.4	7395.0	6670.2	6021.4	5717.0	5705.6	5583.9	5490.6	5456.4
40°	8717.3	8580.3	8279.7	7389.3	6542.7	6034.8	5998.6	5814.1	5707.5	5650.4
42.5°	9543.0	9428.8	9172.0	8196.0	7185.8	6499.0	6419.1	6103.2	6023.3	5970.1
45°	10273.5	10170.8	9982.5	9057.8	7939.2	7130.6	7052.6	6537.0	6512.3	6512.3
47.5°	10867.1	10844.3	10644.5	9936.8	8827.6	7849.7	7714.7	7140.1	7206.7	7309.4
50°	11525.4	11462.6	11249.5	10802.4	9872.1	8673.5	8563.2	7880.2	8129.4	8411.0
52.5°	12130.4	12164.6	11926.8	11704.2	11051.7	9592.4	9398.4	8753.4	9291.8	9758.0
55°	12752.5	12754.4	12687.8	12657.4	12288.3	10608.4	10395.3	9803.6	10659.7	11238.1
57.5°	13336.6	13340.4	13439.3	13707.6	13722.8	11780.3	11538.7	11093.5	12179.8	12769.6
60°	13857.9	13884.5	14154.7	14782.5	14984.1	13123.5	12895.2	12617.4	13751.3	14344.9
62.5°	14032.9	14129.9	14731.1	15623.4	16230.3	14771.1	14546.6	14381.0	15402.7	15954.4
65°	13736.1	13958.7	15121.1	16317.8	17512.6	16728.7	16506.1	16325.4	17118.8	17638.1
67.5°	13007.4	13294.7	15098.3	17046.5	19068.8	19084.0	18876.7	18452.4	18958.5	19158.2
70°	11087.8	11517.8	13768.4	17318.5	20855.3	22305.0	22105.2	21013.2	20794.4	19827.9
72.5°	7143.9	7722.3	10138.5	15079.3	21252.9	25335.7	25324.3	23324.7	21374.7	18526.6
75°	2606.4	2960.3	4710.6	9465.0	17839.8	25181.6	25255.8	22929.0	19512.1	14310.7
77.5°	949.4	1038.8	1537.2	3637.6	10971.8	20204.6	20358.7	18330.7	13888.3	7182.0
80°	498.5	547.9	787.6	1411.7	4701.1	11999.1	12240.7	10893.8	6527.5	2163.2
82.5°	275.9	298.7	441.4	766.7	2117.5	5131.1	5275.7	4303.5	2296.3	917.0
85°	148.4	157.9	207.4	418.6	1035.0	1778.8	1818.8	1286.1	915.1	538.4
87.5°	43.8	53.3	68.5	133.2	405.2	399.5	409.0	254.9	361.5	272.1
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°
3643.3	0°	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3	3643.3
3671.8	2.5°	3660.4	3654.7	3633.8	3624.3	3612.9	3611.0	3620.5	3622.4	3624.3	3626.2
3713.7	5°	3694.7	3675.6	3656.6	3645.2	3649.0	3650.9	3669.9	3683.3	3692.8	3700.4
3791.7	7.5°	3761.3	3746.0	3713.7	3711.8	3717.5	3734.6	3759.4	3789.8	3806.9	3820.2
3892.5	10°	3860.2	3831.6	3793.6	3799.3	3810.7	3835.5	3886.8	3911.6	3940.1	3964.8
4016.2	12.5°	3961.0	3936.3	3892.5	3896.3	3915.4	3959.1	4008.6	4039.0	4058.0	4077.1
4149.4	15°	4092.3	4048.5	4001.0	4001.0	4035.2	4082.8	4105.6	4130.3	4141.8	4162.7
4292.1	17.5°	4227.4	4170.3	4107.5	4103.7	4145.6	4168.4	4181.7	4185.5	4189.3	4212.2
4430.9	20°	4362.4	4299.7	4210.2	4202.6	4212.2	4208.3	4206.4	4202.6	4208.3	4236.9
4573.6	22.5°	4495.6	4423.3	4299.7	4265.4	4238.8	4202.6	4200.7	4198.8	4202.6	4231.2
4727.7	25°	4651.6	4564.1	4398.6	4295.9	4206.4	4157.0	4162.7	4164.6	4168.4	4191.2
4887.5	27.5°	4821.0	4723.9	4489.9	4286.3	4124.6	4090.4	4080.9	4086.6	4099.9	4136.0
5047.4	30°	4990.3	4876.1	4573.6	4248.3	4021.9	3974.3	3943.9	3957.2	3999.1	4035.2
5186.2	32.5°	5144.4	5030.2	4640.2	4164.6	3890.6	3816.4	3776.5	3793.6	3835.5	3848.8
5340.3	35°	5325.1	5195.7	4668.8	4031.4	3747.9	3633.8	3580.5	3555.8	3576.7	3563.4
5521.1	37.5°	5526.8	5391.7	4664.9	3856.4	3580.5	3449.2	3375.0	3281.8	3238.1	3192.4
5787.4	40°	5825.5	5631.4	4619.3	3645.2	3373.1	3253.3	3120.1	2962.2	2863.3	2773.9
6217.4	42.5°	6232.6	5964.4	4535.6	3413.1	3139.1	3026.9	2846.2	2661.6	2505.6	2357.2
6870.0	45°	6839.5	6400.0	4430.9	3165.8	2886.1	2775.8	2579.8	2372.4	2195.5	2005.2
7796.5	47.5°	7714.7	6986.0	4332.0	2884.2	2619.8	2518.9	2342.0	2149.8	1940.6	1756.0
9135.8	50°	8917.0	7826.9	4240.7	2610.2	2357.2	2281.1	2140.3	1944.4	1733.2	1584.8
10705.4	52.5°	10446.7	8970.3	4202.6	2345.8	2111.8	2083.2	1971.0	1788.4	1588.6	1463.0
12535.6	55°	12202.7	10338.2	4202.6	2092.8	1896.8	1906.3	1828.3	1659.0	1485.9	1373.6
14422.9	57.5°	13994.8	11723.2	4126.5	1858.7	1714.2	1754.1	1704.6	1556.3	1400.2	1284.2
16407.2	60°	15646.2	12883.8	3818.3	1645.7	1552.4	1615.2	1582.9	1455.4	1265.2	1168.1
18066.2	62.5°	16915.2	13538.2	3224.7	1476.3	1419.3	1491.6	1474.4	1322.2	1240.4	1200.5
19428.4	65°	17550.6	13431.7	2465.6	1326.0	1307.0	1419.3	1383.1	1377.4	1312.7	1267.1
19871.7	67.5°	17160.6	12514.7	1788.4	1215.7	1242.3	1352.7	1491.6	1514.4	1394.5	1305.1
18623.6	70°	15450.3	10855.7	1331.8	1111.1	1160.5	1354.6	1700.8	1584.8	1367.9	1263.3
14936.6	72.5°	11753.7	8095.2	1033.1	1000.7	1054.0	1364.1	1794.1	1552.4	1291.8	1396.4
9305.2	75°	6721.6	4444.3	829.5	865.6	920.8	1274.7	1746.5	1468.7	1232.8	1282.3
3687.1	77.5°	2562.7	1708.5	684.9	732.5	740.1	1113.0	1670.4	1463.0	1173.8	1145.3
1105.4	80°	888.5	667.8	566.9	582.2	572.7	989.3	1601.9	1272.8	960.8	859.9
456.6	82.5°	363.4	332.9	449.0	430.0	407.1	768.6	1293.7	1040.7	785.7	694.4
220.7	85°	157.9	211.2	296.8	260.6	235.9	532.7	1036.9	880.9	664.0	572.7
72.3	87.5°	32.3	79.9	125.6	118.0	121.8	355.8	736.3	625.9	469.9	352.0
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>
3643.3
3633.8
3704.2
3824.0
3959.1
4084.7
4170.3
4219.8
4248.3
4250.2
4221.7
4172.2
4075.2
3896.3
3605.3
3220.9
2779.6
2343.9
1982.4
1735.1
1575.3
1453.5
1362.2
1265.2
1152.9
1187.2
1251.8
1289.9
1246.1
1385.0
1282.3
1044.5
831.4
686.8
570.8
275.9
0.0

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