

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: P954361

Luminaire Tested: **GALN-SB7C-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954361
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-SB7C-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52299 lumens
Efficiency: N/A
Efficacy: 149.2 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

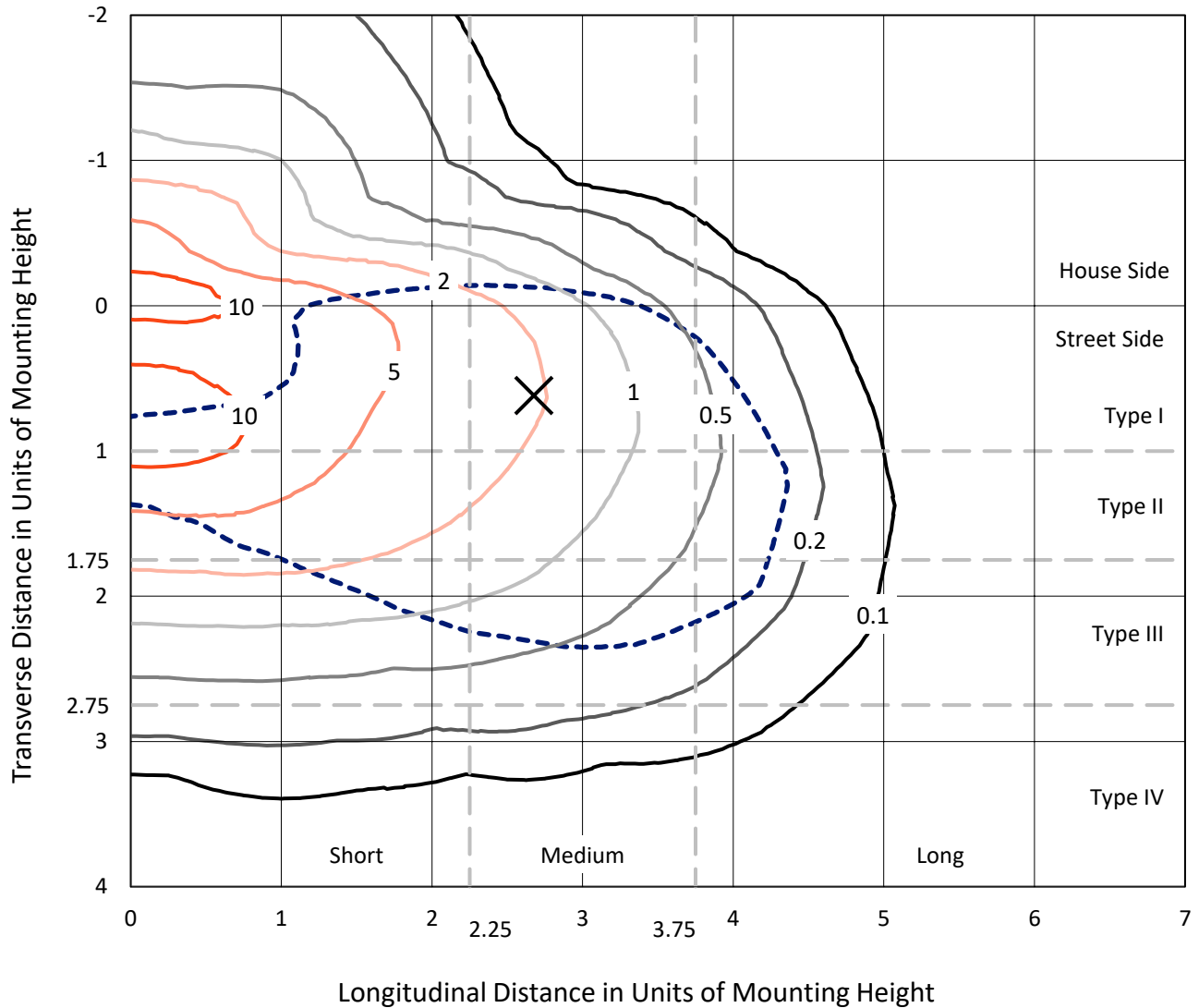
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

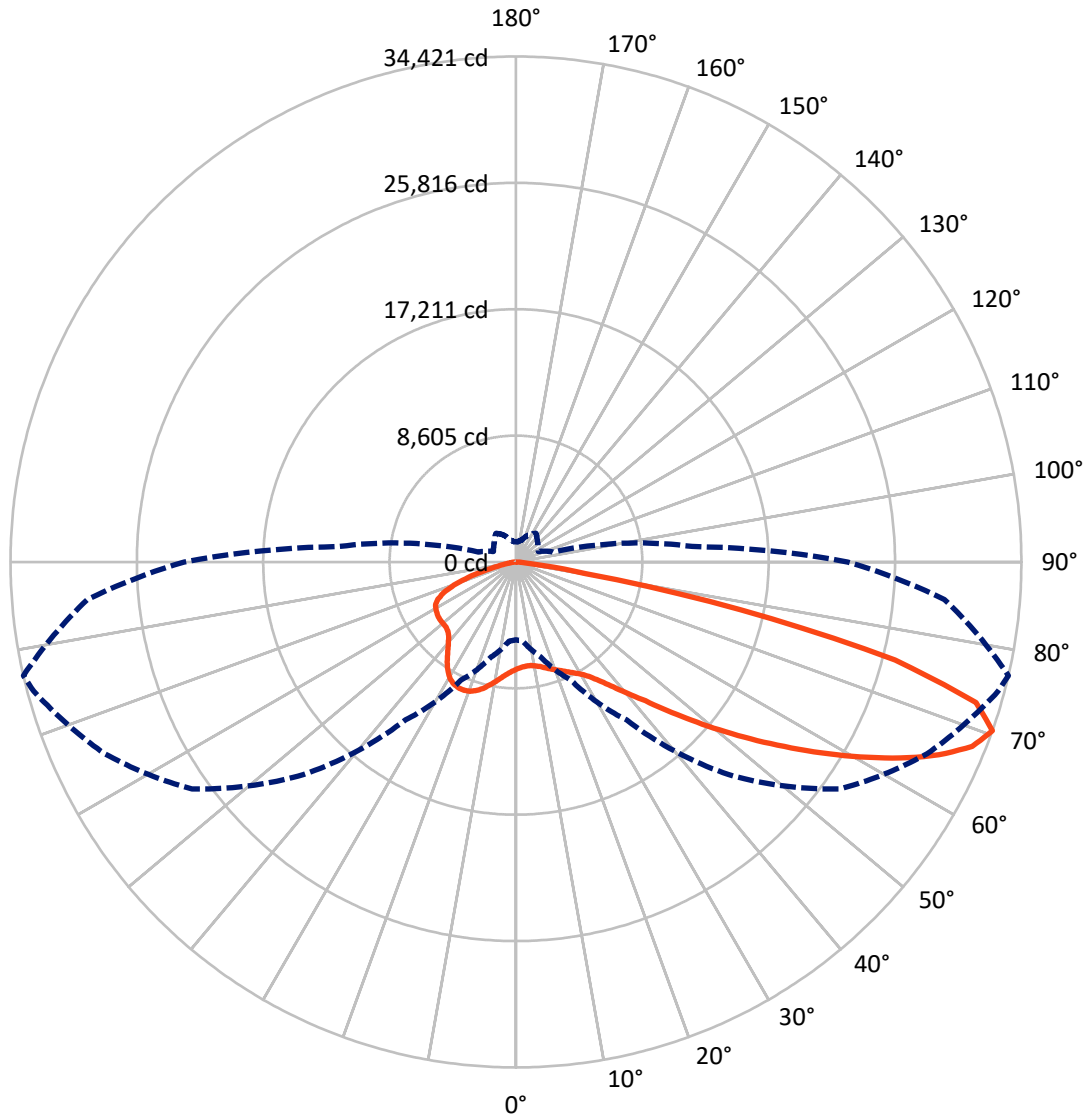
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	11452.7	0.0	11452.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	40846.3	0.0	40846.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	52299.0	0.0	52299.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.9	1.3
10°-20°	2008.3	3.8
20°-30°	3434.5	6.6
30°-40°	5523.0	10.6
40°-50°	8622.9	16.5
50°-60°	11518.2	22.0
60°-70°	12276.6	23.5
70°-80°	7557.4	14.5
80°-90°	662.2	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°	52299.0	100.0
0°-180°	52299.0	100.0



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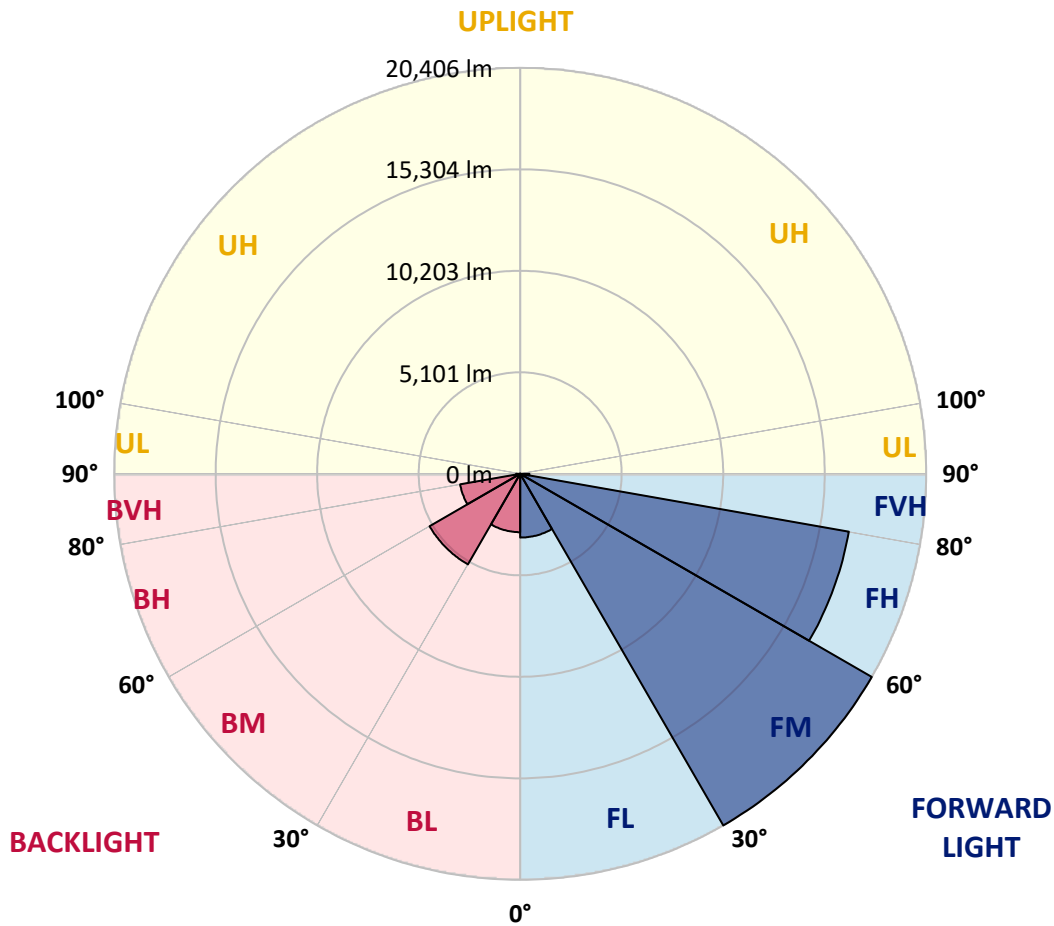
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3204.2	6.1			
FM (30°-60°)	20405.9	39.0			
FH (60°-80°)	16773.2	32.1			G5
FVH (80°-90°)	463.1	0.9			G3/500
BL (0°-30°)	2934.5	5.6	B4/5000		
BM (30°-60°)	5258.2	10.1	B4/8500		
BH (60°-80°)	3060.8	5.9	B4/5000		G4/5000
BVH (80°-90°)	199.2	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°	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2
2.5°	6725.7	6723.0	6757.8	6768.5	6832.8	6878.3	6964.1	7055.1	7173.0	7186.4
5°	6337.3	6337.3	6377.5	6420.3	6503.4	6594.4	6725.7	6883.7	7087.3	7119.4
7.5°	6007.8	6029.3	6064.1	6147.1	6243.5	6374.8	6575.7	6800.7	7068.5	7119.4
10°	5742.7	5766.8	5809.6	5876.6	6021.2	6203.4	6465.9	6755.1	7114.1	7194.4
12.5°	5659.6	5683.7	5707.8	5758.7	5892.7	6106.9	6420.3	6776.6	7223.9	7304.2
15°	5852.5	5881.9	5863.2	5849.8	5919.4	6115.0	6441.8	6854.2	7360.5	7475.6
17.5°	6297.1	6307.8	6265.0	6139.1	6128.4	6232.8	6543.5	6961.4	7531.9	7657.8
20°	7014.9	6996.2	6907.8	6658.7	6516.7	6495.3	6717.6	7122.1	7708.7	7842.6
22.5°	7989.9	7968.5	7791.7	7398.0	7081.9	6873.0	6969.4	7331.0	7906.9	8056.9
25°	9205.9	9176.5	8916.7	8381.0	7890.8	7373.9	7312.3	7606.9	8150.6	8289.9
27.5°	10625.5	10601.4	10320.2	9613.1	8906.0	8059.6	7738.1	7931.0	8405.1	8563.1
30°	12152.3	12221.9	11723.7	10963.0	10068.4	8954.2	8311.3	8330.1	8734.5	8876.5
32.5°	13946.9	14067.4	13467.4	12503.2	11281.8	9926.5	9034.5	8887.2	9214.0	9331.8
35°	15725.4	15862.0	15363.8	14297.7	12891.5	11072.8	9789.9	9527.4	9851.5	9980.0
37.5°	17262.8	17445.0	17187.8	16261.1	14613.8	12454.9	10775.5	10280.0	10636.3	10797.0
40°	18476.2	18754.7	18736.0	18157.4	16644.1	14131.7	12026.4	11209.5	11611.2	11785.3
42.5°	19461.9	19702.9	19911.8	19882.4	18762.8	16036.1	13496.9	12417.4	12722.8	12923.7
45°	20142.2	20399.3	20849.3	21334.1	20801.1	18074.4	15181.6	13850.4	14129.0	14431.7
47.5°	20750.2	21042.2	21626.1	22394.8	22531.4	20120.8	17027.1	15519.1	15773.6	16087.0
50°	20803.8	21055.6	21960.9	23051.0	23760.8	22086.8	19009.2	17391.4	17629.8	17964.6
52.5°	19510.1	19906.5	21486.8	23032.3	24326.0	23731.4	20977.9	19338.6	19606.5	20008.3
55°	15144.1	15725.4	20096.7	22314.4	24125.1	24794.7	22850.1	21409.1	21752.0	22172.5
57.5°	13044.2	13298.7	15953.0	21007.3	23209.1	25070.6	24430.4	23501.0	24052.8	24513.5
60°	11723.7	11935.3	13504.9	18974.4	22003.7	24634.0	25651.8	25450.9	26404.5	26953.6
62.5°	10309.5	10510.4	11938.0	15843.2	20460.9	23908.1	26423.2	27250.9	28815.1	29415.1
65°	8906.0	9077.4	10446.1	13312.1	18500.3	23182.3	26822.3	28807.1	31046.3	31667.7
67.5°	7341.7	7483.7	8777.4	11230.9	16116.4	22188.6	27020.5	30031.2	32988.2	33521.2
70°	5298.0	5407.9	6744.4	8881.8	13124.6	20479.7	26940.2	30899.0	33995.3	34421.2
72.5°	2504.4	2603.5	4173.1	5766.8	9270.2	17153.0	25314.3	30210.6	32972.1	32760.5
75°	1336.6	1422.3	2397.2	3163.3	4896.3	11758.5	20715.4	26024.1	27687.5	26658.9
77.5°	905.3	972.3	1483.9	1899.0	2236.5	5582.0	13314.7	18018.2	17335.1	15637.0
80°	717.8	787.5	1216.0	1285.7	1082.1	2016.9	5501.6	8340.8	5991.8	4791.8
82.5°	551.8	629.4	1023.2	932.1	589.3	827.7	1601.7	2638.3	1534.8	1167.8
85°	337.5	420.5	803.5	594.6	332.1	377.7	543.7	733.9	468.7	391.1
87.5°	171.4	241.1	407.1	217.0	150.0	88.4	144.6	144.6	123.2	107.1
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°
7296.2	0°	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2
7258.7	2.5°	7323.0	7376.5	7467.6	7553.3	7620.3	7684.6	7748.9	7783.7	7794.4	7837.2
7298.9	5°	7408.7	7507.8	7684.6	7850.6	7955.1	8019.4	8064.9	8091.7	8097.1	8110.4
7408.7	7.5°	7566.7	7724.7	7971.2	8137.2	8214.9	8209.6	8190.8	8123.8	8097.1	8072.9
7569.4	10°	7789.0	7998.0	8300.6	8415.8	8367.6	8239.0	8072.9	7877.4	7786.3	7698.0
7789.0	12.5°	8064.9	8330.1	8627.4	8622.0	8383.7	8054.2	7668.5	7368.5	7178.3	7041.7
8059.6	15°	8399.7	8705.1	8932.7	8750.6	8228.3	7636.4	7071.2	6680.1	6508.7	6358.7
8332.8	17.5°	8745.2	9072.0	9176.5	8710.4	7837.2	7017.6	6377.5	6069.4	5900.7	5820.3
8627.4	20°	9082.7	9406.8	9321.1	8480.1	7242.6	6315.9	5745.3	5576.6	5541.8	5560.5
8914.0	22.5°	9439.0	9728.3	9350.6	8035.4	6484.6	5598.0	5284.6	5290.0	5367.7	5423.9
9214.0	25°	9803.2	9998.8	9272.9	7392.6	5670.3	5070.4	4992.7	5078.4	5231.1	5340.9
9551.5	27.5°	10154.1	10239.8	9104.2	6597.1	4971.3	4692.7	4706.1	4882.9	5113.2	5265.9
9961.3	30°	10550.5	10454.1	8780.1	5702.5	4486.5	4368.6	4481.1	4687.3	4917.7	5054.3
10478.2	32.5°	10997.9	10638.9	8265.8	4874.8	4143.6	4108.8	4293.6	4427.5	4529.3	4569.5
11163.9	35°	11555.0	10898.7	7606.9	4293.6	3835.6	3918.6	4095.4	4028.4	3988.3	3966.8
12085.3	37.5°	12278.2	11249.6	6835.5	3915.9	3586.5	3782.0	3854.3	3645.4	3487.4	3409.7
13202.2	40°	13148.7	11763.9	6093.5	3624.0	3428.5	3664.2	3538.3	3286.5	3085.6	2975.8
14458.5	42.5°	14115.6	12302.3	5469.5	3404.4	3340.1	3567.7	3305.2	3005.3	2681.2	2646.3
15955.7	45°	15130.8	12856.7	5043.6	3235.6	3297.2	3484.7	3171.3	2686.5	2456.2	2598.1
17458.4	47.5°	16145.9	13365.6	4786.4	3109.7	3275.8	3391.0	3053.5	2509.7	2346.4	2552.6
19068.1	50°	17276.2	13821.0	4671.3	3018.7	3251.7	3353.5	2876.7	2464.2	2231.2	2367.8
20734.1	52.5°	18398.5	14174.5	4585.6	2927.6	3216.9	3324.0	2791.0	2410.6	2091.9	2099.9
22410.9	55°	19518.1	14404.9	4491.8	2807.1	3139.2	3259.7	2782.9	2351.7	1987.4	1949.9
24184.0	57.5°	20712.7	14536.1	4376.6	2673.1	3005.3	3096.3	2774.9	2306.2	1955.3	1893.7
25997.4	60°	21928.7	14729.0	4226.6	2509.7	2825.8	2900.8	2756.2	2290.1	1936.5	1832.1
27706.2	62.5°	23018.9	14795.9	4047.2	2354.4	2595.4	2707.9	2716.0	2276.7	1885.7	1706.2
29125.8	65°	23734.0	14506.7	3733.8	2177.6	2346.4	2509.7	2638.3	2231.2	1794.6	1615.1
29827.6	67.5°	23704.6	13681.7	3243.6	1949.9	2105.3	2290.1	2525.8	2153.5	1684.8	1502.6
29297.2	70°	22601.0	12053.2	2622.2	1684.8	1840.1	2054.4	2381.2	2038.3	1553.5	1379.4
26050.9	72.5°	19384.2	9433.6	1904.4	1374.1	1532.1	1810.7	2193.7	1899.0	1419.6	1269.6
19252.9	75°	13847.8	5970.3	1291.0	1055.3	1191.9	1534.8	1960.6	1735.7	1296.4	1275.0
9642.5	77.5°	7073.9	2852.6	854.4	771.4	830.3	1210.7	1647.3	1550.8	1315.1	1052.6
2742.8	80°	2300.8	1052.6	538.4	525.0	551.8	806.2	1275.0	1272.3	996.4	715.2
664.3	82.5°	733.9	452.7	350.9	337.5	324.1	506.2	889.3	1007.1	672.3	452.7
238.4	85°	292.0	270.5	206.2	190.2	136.6	238.4	466.1	669.6	500.9	326.8
61.6	87.5°	107.1	107.1	56.2	40.2	29.5	80.4	125.9	200.9	286.6	168.7
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>
7296.2
7861.3
8131.9
8078.3
7671.2
7009.6
6342.6
5844.4
5552.5
5437.3
5370.4
5303.4
5086.4
4590.9
3988.3
3428.5
2983.8
2681.2
2673.1
2649.0
2469.6
2156.2
1976.7
1901.7
1840.1
1706.2
1615.1
1510.7
1395.5
1261.6
1202.6
937.5
632.1
450.0
334.8
166.1
0.0

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