

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: P943447

Luminaire Tested: **GALN-SB7D-935-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-935-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50377 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

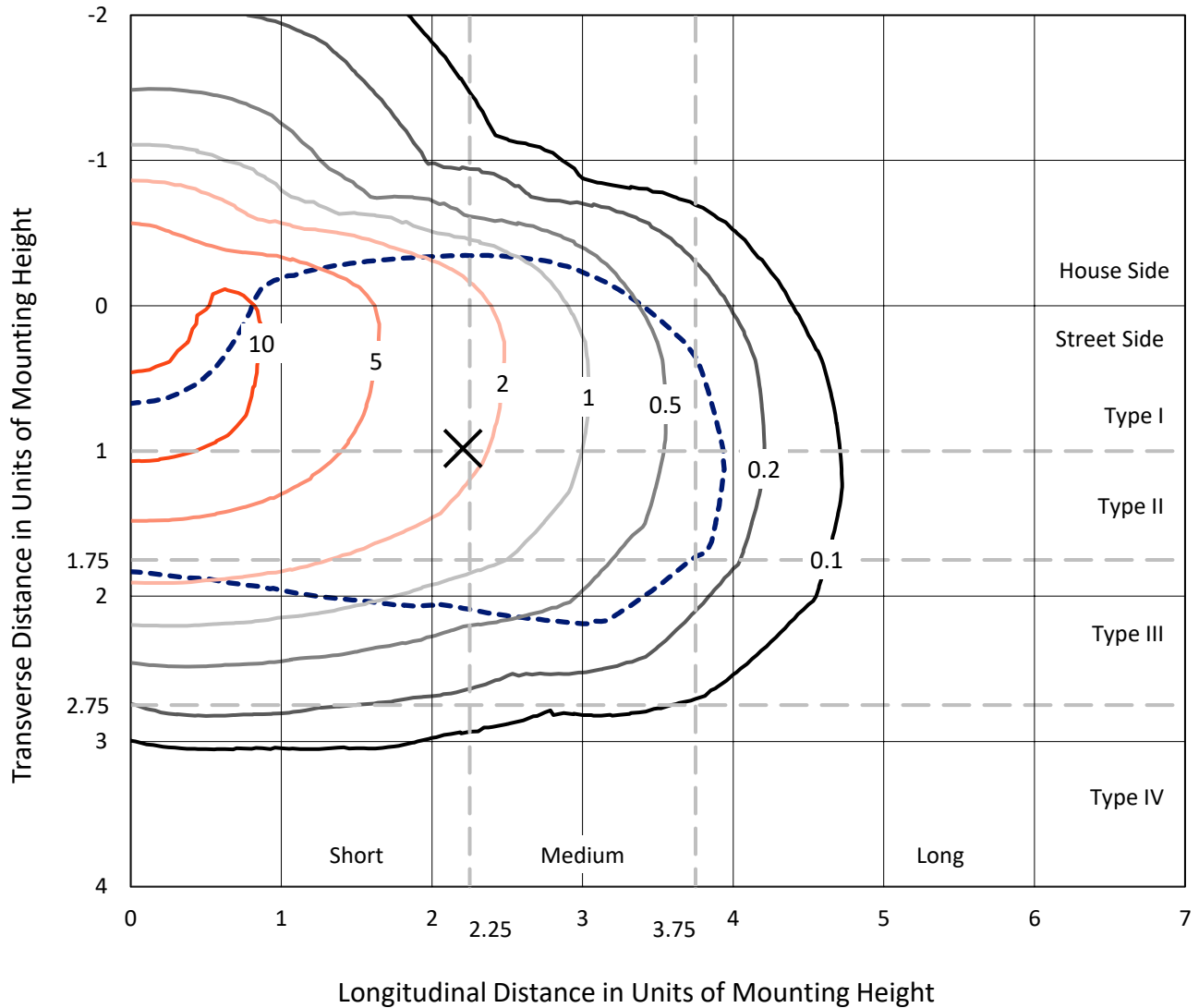
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943447
 CATALOG NUMBER: GALN-SB7D-935-U-T3

Iso-Footcandle Lines of Horizontal Illumination

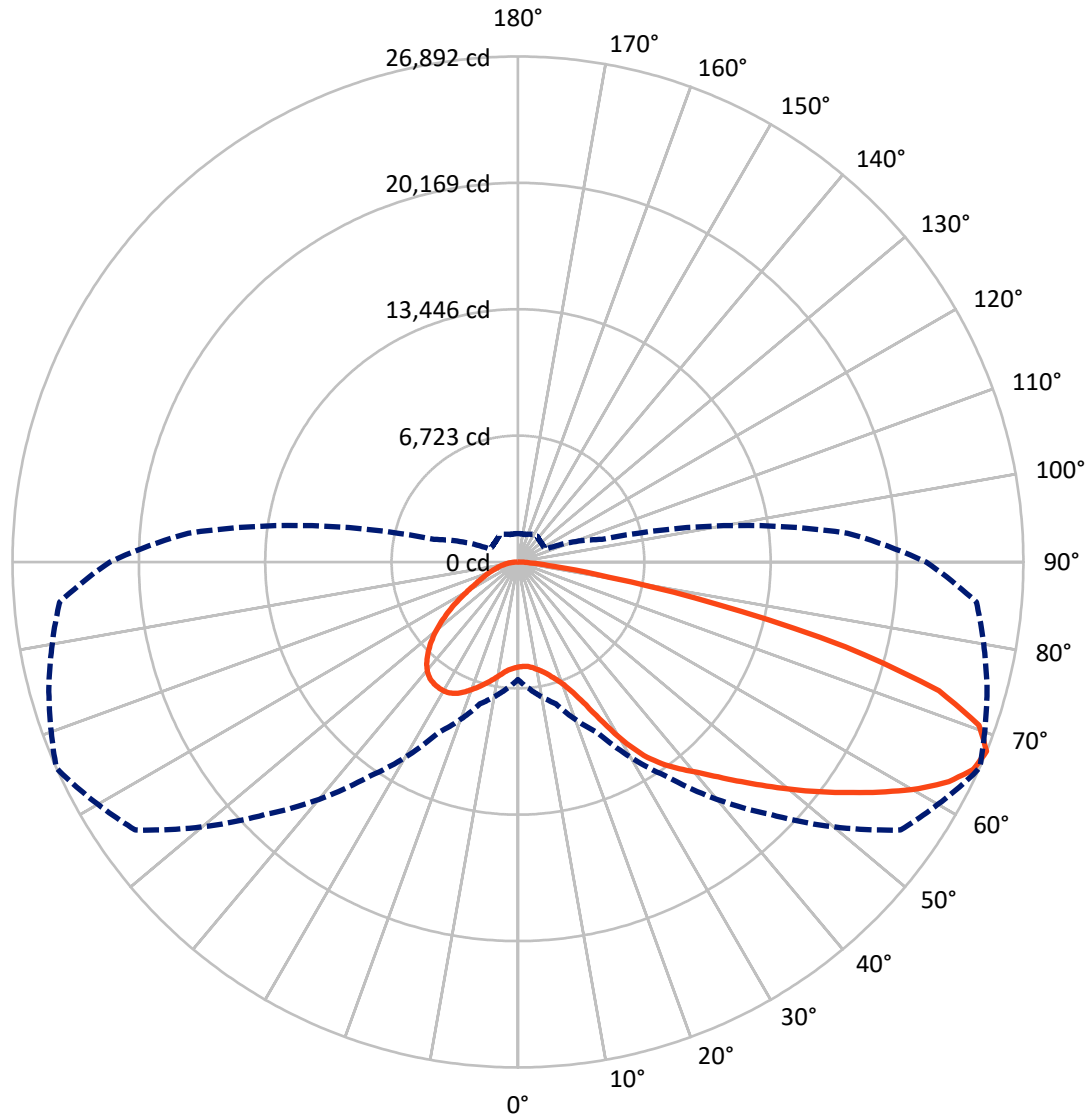
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Short - N/A

REPORT NUMBER: P943447
CATALOG NUMBER: GALN-SB7D-935-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12526.1	0.0	12526.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	37850.9	0.0	37850.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	50377.0	0.0	50377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.0	1.1
10°-20°	1830.3	3.6
20°-30°	3527.7	7.0
30°-40°	6185.4	12.3
40°-50°	9195.7	18.3
50°-60°	11656.4	23.1
60°-70°	11405.5	22.6
70°-80°	5440.5	10.8
80°-90°	581.4	1.2
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°	50377.0	100.0
0°-180°	50377.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943447

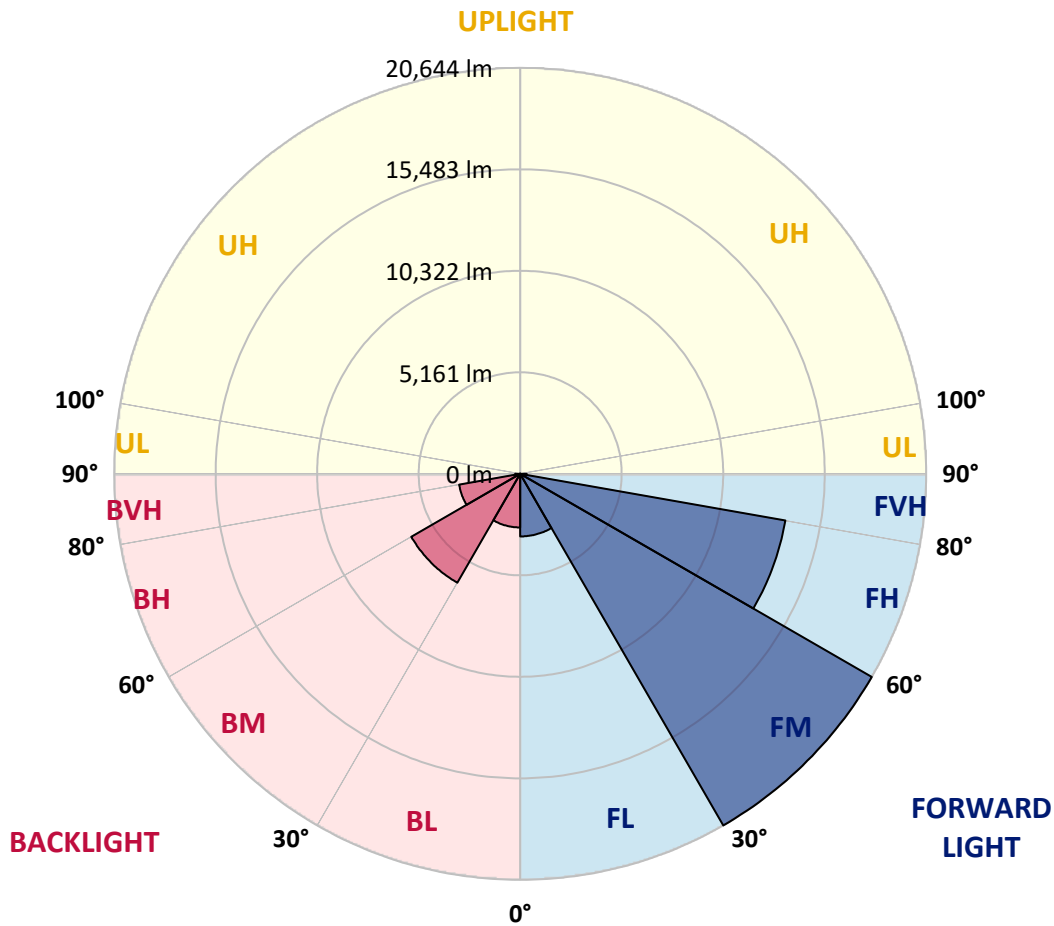
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3183.3	6.3			
FM (30°-60°)	20644.1	41.0			
FH (60°-80°)	13693.8	27.2			G5
FVH (80°-90°)	329.7	0.7			G3/500
BL (0°-30°)	2728.6	5.4	B4/5000		
BM (30°-60°)	6393.5	12.7	B4/8500		
BH (60°-80°)	3152.2	6.3	B4/5000		G4/5000
BVH (80°-90°)	251.8	0.5			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 III Short



REPORT NUMBER: P943447

CATALOG NUMBER: GALN-SB7D-935-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5
2.5°	5529.2	5561.0	5553.1	5539.8	5537.2	5542.5	5550.4	5558.4	5555.7	5568.9
5°	5513.4	5545.1	5542.5	5542.5	5553.1	5574.2	5587.5	5600.7	5587.5	5603.4
7.5°	5524.0	5547.8	5558.4	5568.9	5595.4	5635.1	5666.9	5696.0	5680.1	5698.6
10°	5658.9	5677.5	5688.1	5688.1	5706.6	5751.6	5783.3	5836.3	5823.0	5852.2
12.5°	5905.1	5923.6	5923.6	5913.0	5926.3	5955.4	5966.0	6024.2	6000.4	6048.0
15°	6206.8	6243.9	6214.8	6196.2	6201.5	6230.7	6228.0	6273.0	6249.2	6288.9
17.5°	6540.3	6588.0	6540.3	6537.7	6527.1	6558.9	6561.5	6601.2	6558.9	6588.0
20°	6934.7	7000.9	6961.2	6974.4	6950.6	6963.8	6977.1	7035.3	6969.1	6990.3
22.5°	7490.6	7570.0	7527.6	7577.9	7562.0	7551.4	7548.8	7652.0	7548.8	7556.7
25°	8300.5	8395.8	8321.7	8390.5	8390.5	8424.9	8464.6	8596.9	8424.9	8374.6
27.5°	9496.9	9592.1	9446.6	9488.9	9475.7	9560.4	9518.0	9846.2	9661.0	9578.9
30°	10936.7	11106.1	10830.9	10820.3	10807.0	10942.0	11002.9	11219.9	11032.0	10950.0
32.5°	12493.1	12670.4	12342.2	12246.9	12196.6	12278.7	12228.4	12403.1	12273.4	12146.3
35°	14139.4	14314.1	14001.8	13816.5	13615.3	13443.3	13263.3	13308.3	13186.5	12993.3
37.5°	15695.7	16016.0	15685.2	15486.6	15116.1	14779.9	14277.0	14067.9	13954.1	13776.8
40°	17281.2	17463.8	17212.4	17043.0	16640.7	16113.9	15309.3	14867.3	14713.8	14541.7
42.5°	18448.5	18623.2	18488.2	18371.7	18056.7	17445.3	16405.1	15851.9	15629.6	15436.4
45°	19374.9	19504.5	19419.9	19462.2	19327.2	18734.3	17540.6	16908.0	16677.7	16442.2
47.5°	19748.1	19885.7	20020.7	20272.1	20502.4	20065.7	18760.8	18051.4	17807.9	17567.1
50°	19705.7	19846.0	20237.7	20772.4	21487.0	21341.5	20047.2	19269.0	19044.0	18768.7
52.5°	19366.9	19525.7	20028.6	20918.0	22056.1	22297.0	21357.3	20526.2	20314.5	19986.3
55°	18477.6	18572.9	19327.2	20587.1	22191.1	22964.0	22641.1	21865.5	21653.8	21195.9
57.5°	16828.6	16966.2	18064.7	19695.1	21852.3	23416.6	23768.6	23273.6	23069.8	22410.8
60°	14676.7	14896.4	16153.7	18197.0	20989.4	23413.9	24792.9	24657.9	24488.5	23607.1
62.5°	12241.6	12495.7	13705.3	16079.5	19480.7	22749.6	25433.5	25817.3	25729.9	24710.9
65°	9401.6	9576.3	10780.6	13340.1	17133.0	21322.9	25507.6	26608.7	26624.5	25549.9
67.5°	6259.8	6762.7	7808.2	10010.3	13988.5	18991.1	24856.5	26738.4	26891.9	25838.4
70°	3054.5	3716.2	4740.5	6505.9	10010.3	15415.2	23154.5	25674.3	26015.8	24996.7
72.5°	1267.8	1482.2	2040.7	3210.6	5746.3	10402.1	19734.8	22789.3	23421.9	22148.7
75°	854.9	926.4	1167.3	1646.3	2617.7	5129.6	14232.0	16992.7	18011.7	16728.0
77.5°	659.1	704.1	849.6	1151.4	1556.3	1940.1	7617.6	10240.6	10767.3	9968.0
80°	518.8	553.2	635.2	839.0	1103.7	1037.6	2596.5	4639.9	4944.3	4147.6
82.5°	450.0	463.2	455.3	569.1	733.2	606.1	852.3	1712.5	1889.8	1371.1
85°	325.6	362.6	378.5	352.0	389.1	307.0	349.4	606.1	667.0	595.5
87.5°	132.3	195.9	240.9	227.6	142.9	87.3	108.5	177.3	203.8	222.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943447
 CATALOG NUMBER: GALN-SB7D-935-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5587.5	0°	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5	5587.5
5590.1	2.5°	5592.8	5611.3	5624.5	5640.4	5651.0	5666.9	5698.6	5717.2	5719.8	5733.1
5632.5	5°	5643.1	5669.5	5698.6	5741.0	5788.6	5828.3	5889.2	5931.6	5947.4	5960.7
5735.7	7.5°	5751.6	5788.6	5841.6	5915.7	5984.5	6037.4	6111.5	6161.8	6212.1	6230.7
5899.8	10°	5913.0	5966.0	6042.7	6143.3	6217.4	6286.2	6363.0	6405.3	6455.6	6476.8
6095.7	12.5°	6114.2	6169.8	6270.4	6410.6	6479.5	6527.1	6553.6	6543.0	6553.6	6572.1
6331.2	15°	6344.5	6405.3	6519.2	6670.0	6717.7	6675.3	6617.1	6564.2	6556.2	6561.5
6617.1	17.5°	6617.1	6662.1	6794.4	6921.5	6887.1	6712.4	6585.3	6500.6	6458.3	6445.1
6982.4	20°	6998.2	6998.2	7106.8	7186.2	6955.9	6659.4	6460.9	6323.3	6236.0	6198.9
7480.0	22.5°	7461.4	7419.1	7487.9	7432.3	6942.7	6511.2	6236.0	5997.7	5865.4	5812.5
8176.1	25°	8049.0	7998.7	7980.2	7636.1	6847.4	6275.7	5828.3	5539.8	5423.4	5394.3
9179.2	27.5°	8935.7	8808.7	8567.8	7747.3	6672.7	5905.1	5351.9	5084.6	5018.4	5021.1
10468.2	30°	10116.2	9862.1	9271.9	7765.8	6386.8	5381.0	4864.9	4674.3	4642.6	4655.8
11550.8	32.5°	11209.4	10968.5	9991.8	7681.1	5947.4	4867.5	4428.2	4301.1	4253.5	4269.3
12376.6	35°	12066.9	12000.8	10658.8	7562.0	5407.5	4385.8	4036.4	3927.9	3835.3	3814.1
13154.8	37.5°	12876.9	12850.4	11159.1	7395.3	4872.8	4044.4	3721.5	3578.5	3443.5	3369.4
14015.0	40°	13766.2	13739.7	11487.3	7138.5	4399.0	3747.9	3438.2	3250.3	3083.6	2948.6
14989.0	42.5°	14766.7	14610.5	11643.4	6770.6	3996.7	3496.5	3208.0	2953.9	2734.2	2609.8
16090.1	45°	15859.9	15507.8	11640.8	6302.1	3657.9	3266.2	2961.8	2601.8	2398.0	2281.6
17220.3	47.5°	17019.2	16365.4	11497.9	5783.3	3329.7	3012.1	2580.7	2305.4	2170.4	2098.9
18448.5	50°	18215.5	17167.4	11254.4	5187.8	2993.6	2723.6	2342.5	2154.5	2051.3	1985.1
19666.0	52.5°	19340.4	17895.3	10960.6	4512.9	2652.1	2443.0	2236.6	2091.0	1982.5	1908.4
20846.5	55°	20385.9	18522.6	10545.0	3822.0	2374.2	2255.1	2186.3	2064.5	1940.1	1852.8
22045.5	57.5°	21315.0	18930.2	9827.7	3173.6	2175.7	2125.4	2133.4	2019.5	1876.6	1802.5
23226.0	60°	22087.9	19229.3	8766.3	2572.7	2014.2	1998.4	2051.3	1934.8	1768.1	1683.4
24223.9	62.5°	22551.1	19224.0	7464.1	2106.9	1876.6	1881.9	1942.8	1829.0	1659.6	1580.2
24745.3	65°	22511.4	18752.8	6034.8	1802.5	1744.3	1749.6	1829.0	1712.5	1569.6	1521.9
24483.3	67.5°	21714.7	17604.1	4629.3	1604.0	1598.7	1622.5	1715.2	1633.1	1514.0	1508.7
22921.6	70°	19557.5	15219.3	3335.0	1445.2	1447.8	1482.2	1604.0	1582.8	1484.9	1495.5
19271.6	72.5°	15682.5	11603.7	2239.2	1278.4	1281.1	1336.7	1498.1	1543.1	1455.8	1596.0
13673.6	75°	10444.4	7236.5	1439.9	1101.1	1103.7	1175.2	1405.5	1466.3	1376.4	1590.7
7114.7	77.5°	5018.4	3253.0	1042.9	926.4	926.4	992.6	1214.9	1312.8	1172.5	1236.1
2286.9	80°	1733.7	1222.8	820.5	746.4	730.5	775.5	1024.3	1138.1	1011.1	931.7
746.4	82.5°	682.9	635.2	659.1	579.7	526.7	555.8	796.7	939.6	743.8	672.3
420.8	85°	391.7	412.9	465.8	383.8	304.4	341.4	585.0	674.9	561.1	495.0
137.6	87.5°	105.9	145.6	214.4	198.5	137.6	145.6	277.9	373.2	322.9	248.8
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>
5587.5
5730.4
5958.0
6233.3
6487.4
6577.4
6580.0
6463.6
6191.0
5804.5
5399.5
5029.0
4700.8
4290.5
3830.0
3372.1
2961.8
2617.7
2276.3
2083.1
1961.3
1876.6
1818.4
1754.9
1646.3
1556.3
1519.3
1516.6
1492.8
1617.2
1604.0
1132.8
873.5
669.7
505.5
256.7
0.0

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