

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: P943245

Luminaire Tested: **GALN-SB7C-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50478 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

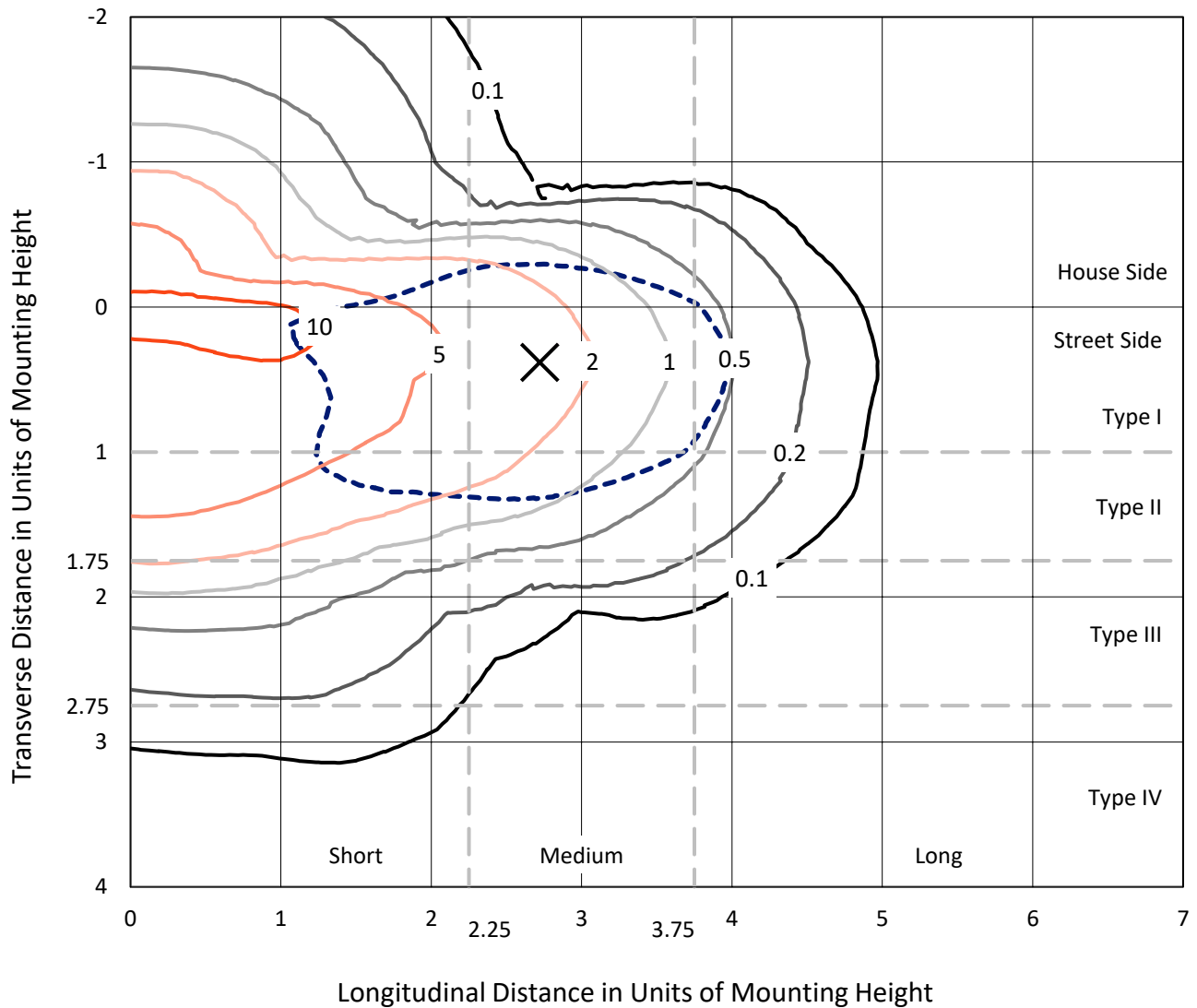
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943245
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Iso-Footcandle Lines of Horizontal Illumination

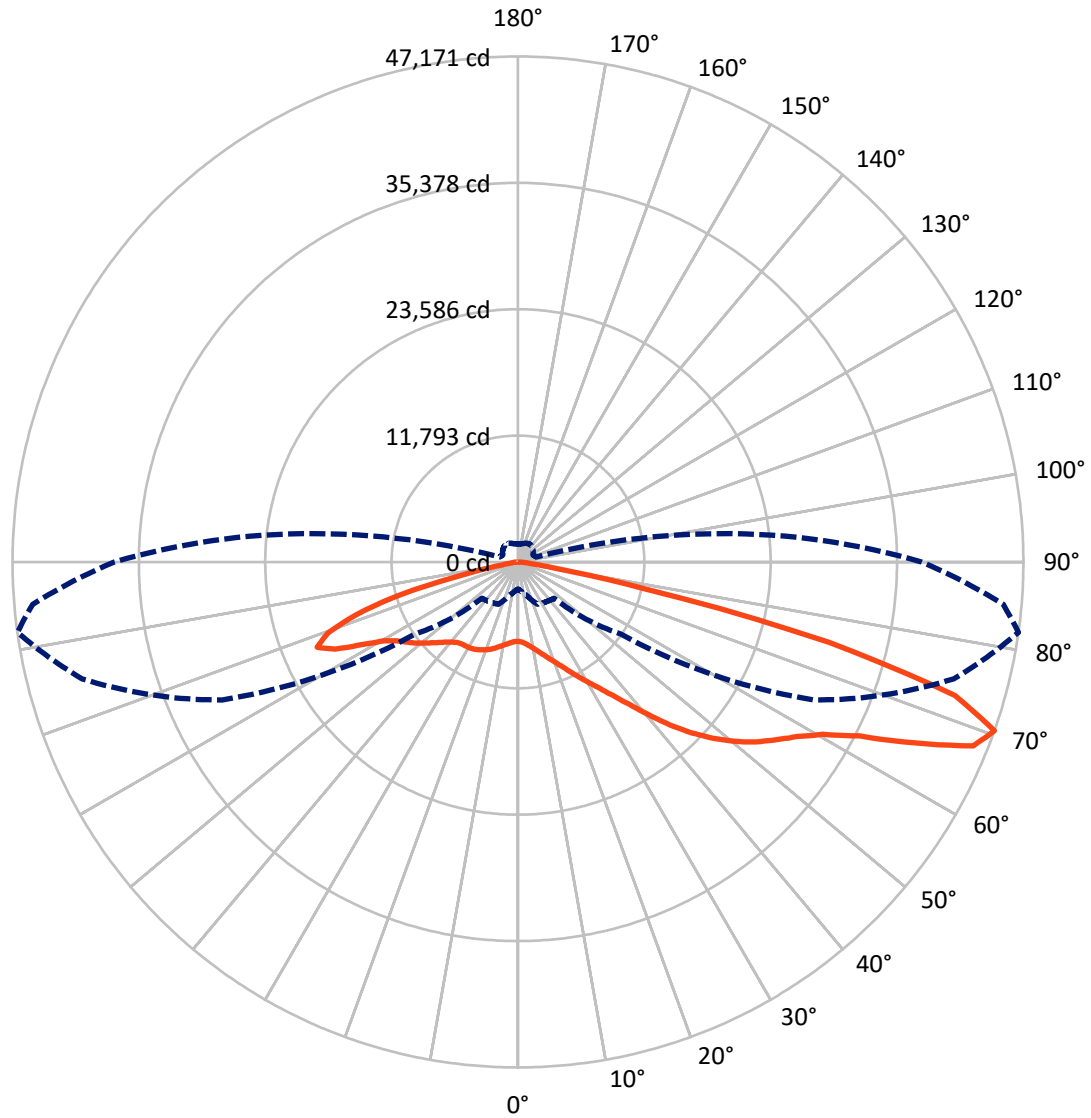
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P943245
CATALOG NUMBER: GALN-SB7C-850-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12444.1	0.0	12444.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	38033.9	0.0	38033.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	50478.0	0.0	50478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.8	1.4
10°-20°	2007.6	4.0
20°-30°	3358.5	6.7
30°-40°	5246.8	10.4
40°-50°	8356.1	16.6
50°-60°	11628.6	23.0
60°-70°	12164.0	24.1
70°-80°	6357.6	12.6
80°-90°	660.2	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°	50478.0	100.0
0°-180°	50478.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943245

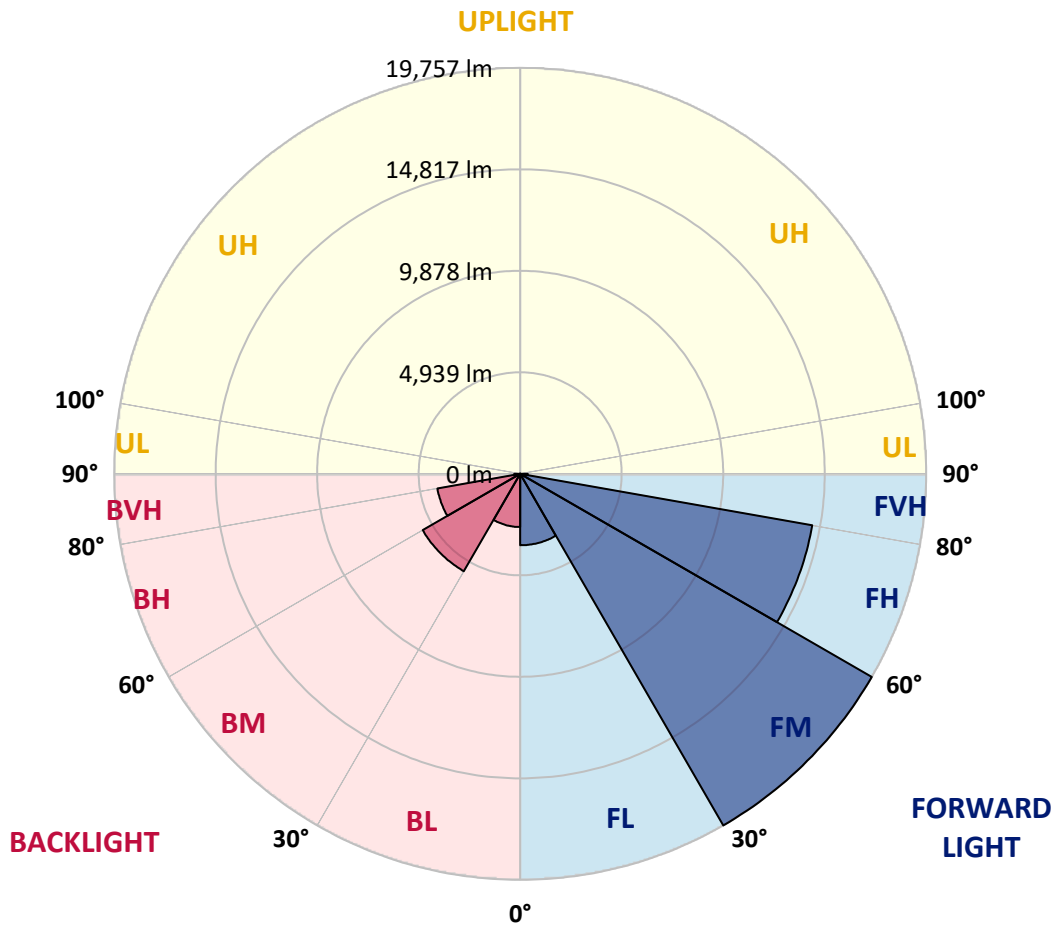
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3476.0	6.9			
FM (30°-60°)	19756.6	39.1			
FH (60°-80°)	14431.8	28.6			G5
FVH (80°-90°)	369.6	0.7			G3/500
BL (0°-30°)	2588.8	5.1	B4/5000		
BM (30°-60°)	5474.9	10.8	B4/8500		
BH (60°-80°)	4089.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	290.6	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 II Medium



REPORT NUMBER: P943245

CATALOG NUMBER: GALN-SB7C-850-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7
2.5°	7577.5	7620.3	7607.0	7593.6	7593.6	7574.8	7572.1	7545.3	7523.9	7489.1
5°	7673.9	7719.4	7714.1	7724.8	7759.6	7767.7	7775.7	7759.6	7716.8	7673.9
7.5°	7588.2	7639.1	7655.2	7719.4	7826.6	7923.0	7995.3	8024.8	7984.6	7923.0
10°	7298.9	7355.2	7411.4	7564.1	7754.3	7981.9	8174.8	8290.0	8281.9	8223.0
12.5°	6712.3	6771.3	6891.8	7189.1	7537.3	7939.1	8298.0	8539.1	8622.1	8579.2
15°	6243.6	6294.5	6385.6	6690.9	7143.6	7754.3	8343.5	8812.3	9023.9	8999.8
17.5°	6230.2	6251.6	6307.9	6452.5	6800.7	7465.0	8295.3	9080.1	9484.6	9481.9
20°	6465.9	6473.9	6506.1	6535.5	6733.8	7245.4	8172.1	9302.4	10001.5	10001.5
22.5°	6792.7	6787.3	6819.5	6792.7	6889.1	7226.6	8094.4	9498.0	10577.4	10620.3
25°	7282.9	7256.1	7248.0	7186.4	7205.2	7400.7	8180.2	9720.3	11260.4	11348.8
27.5°	7936.4	7893.6	7864.1	7722.1	7673.9	7759.6	8442.6	9988.1	12021.1	12173.8
30°	8788.2	8710.5	8667.6	8421.2	8247.1	8260.5	8839.1	10344.4	12816.6	13063.1
32.5°	9950.6	9830.1	9714.9	9310.5	8991.7	8887.3	9350.7	10837.2	13679.1	14072.9
35°	11252.4	11156.0	11032.8	10408.7	9918.5	9677.4	10041.7	11525.6	14688.9	15313.0
37.5°	12505.9	12422.9	12481.8	11640.8	11008.7	10657.8	10947.0	12449.7	15934.4	16855.8
40°	13802.3	13738.0	13746.1	12942.5	12205.9	11812.2	12045.2	13609.5	17362.1	18690.6
42.5°	15211.2	15163.0	15002.3	14289.8	13462.2	13095.2	13309.5	14948.7	18894.2	20779.8
45°	16788.9	16759.4	16609.4	15792.5	14844.3	14431.8	14721.1	16427.3	20434.3	22745.9
47.5°	18152.2	18176.3	18157.6	17469.2	16486.2	15880.8	16226.4	17970.1	21867.3	24594.0
50°	18808.5	18934.3	19119.2	18904.9	18294.2	17678.1	17745.1	19459.3	23233.3	26327.0
52.5°	18465.6	18704.0	19207.6	19550.4	19786.1	19657.5	19478.1	20937.9	24519.0	27891.3
55°	17188.0	17522.8	18358.5	19186.1	20388.8	21323.6	21559.3	22577.1	25772.6	29268.0
57.5°	14860.3	15404.1	16154.1	17828.1	19853.1	22129.8	23986.0	24851.2	27101.1	30738.5
60°	10869.4	11597.9	12530.0	15021.0	17978.1	21698.6	26051.1	28343.9	28989.4	32642.9
62.5°	6956.1	7406.1	8263.2	10609.6	14008.6	19488.8	26683.3	32709.9	32190.3	35766.1
65°	4762.4	5051.7	5836.5	7154.3	9056.0	14506.8	24990.4	35983.0	37274.1	40715.9
67.5°	3460.6	3680.3	4349.9	5504.3	5900.7	8584.6	19392.4	35833.0	42215.9	45815.8
70°	2523.2	2678.5	3241.0	4349.9	4540.1	4775.8	11747.9	30459.9	42108.8	47171.1
72.5°	1869.6	1976.7	2354.4	3374.9	3674.9	3224.9	5815.0	22137.8	36183.9	42665.9
75°	1352.6	1433.0	1711.6	2582.1	2941.0	2456.2	2900.8	12937.2	25239.5	30012.6
77.5°	1033.9	1095.5	1277.6	1891.0	2354.4	1842.8	1800.0	5951.6	11967.6	12026.5
80°	830.3	870.5	969.6	1331.2	1805.3	1379.4	1173.2	2402.6	3782.0	3200.8
82.5°	610.7	677.7	819.6	934.8	1291.0	950.9	715.2	1213.4	1438.4	1237.5
85°	348.2	393.7	495.5	669.6	825.0	581.2	409.8	538.4	669.6	549.1
87.5°	123.2	160.7	174.1	262.5	358.9	241.1	158.0	155.4	219.6	163.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943245
 CATALOG NUMBER: GALN-SB7C-850-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7400.7	0°	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7	7400.7
7481.1	2.5°	7454.3	7440.9	7387.3	7315.0	7240.0	7167.7	7143.6	7092.7	7057.9	7039.1
7655.2	5°	7604.3	7561.4	7435.5	7274.8	7106.1	6923.9	6795.4	6677.5	6591.8	6511.4
7893.6	7.5°	7818.6	7743.6	7526.6	7245.4	6945.4	6642.7	6417.7	6246.3	6131.1	6056.1
8172.1	10°	8067.7	7952.5	7620.3	7199.8	6736.4	6302.5	6037.3	5890.0	5817.7	5777.5
8490.9	12.5°	8354.3	8190.9	7716.8	7095.4	6417.7	5922.2	5740.0	5697.2	5699.9	5702.5
8892.6	15°	8707.8	8480.1	7794.4	6867.7	6002.5	5630.2	5598.1	5667.7	5740.0	5774.9
9348.0	17.5°	9106.9	8785.5	7807.8	6492.7	5595.4	5442.7	5544.5	5694.5	5804.3	5852.5
9856.9	20°	9535.5	9096.2	7711.4	5962.3	5260.6	5290.0	5472.2	5665.0	5785.6	5847.2
10438.1	22.5°	10025.6	9428.3	7481.1	5405.2	4987.4	5124.0	5338.3	5525.8	5651.6	5713.2
11121.1	25°	10585.4	9800.6	7119.5	4936.5	4751.7	4936.5	5150.8	5306.1	5407.9	5464.1
11884.5	27.5°	11206.9	10189.0	6637.3	4564.2	4545.4	4743.6	4920.4	5040.9	5094.5	5137.4
12696.1	30°	11831.0	10542.6	6053.4	4282.9	4366.0	4553.5	4679.3	4732.9	4749.0	4757.0
13601.4	32.5°	12505.9	10847.9	5440.0	4049.9	4194.5	4368.6	4443.6	4467.7	4392.7	4341.9
14699.6	35°	13322.9	11174.7	4840.1	3865.1	4025.8	4175.8	4199.9	4178.5	4090.1	3985.6
16076.4	37.5°	14332.7	11581.9	4360.6	3733.8	3867.8	3966.9	3937.4	3932.0	3940.1	3816.9
17731.7	40°	15570.1	12112.2	4009.7	3632.1	3739.2	3760.6	3677.6	3723.1	3763.3	3575.8
19547.7	42.5°	16944.2	12752.4	3787.4	3562.4	3632.1	3581.2	3452.6	3503.5	3498.1	3251.7
21371.8	45°	18345.1	13448.8	3709.7	3511.5	3532.9	3431.2	3289.2	3302.6	3190.1	2967.8
23120.8	47.5°	19737.9	14196.1	3757.9	3468.7	3409.7	3294.6	3184.7	3125.8	2959.7	2793.7
24797.6	50°	21103.9	14980.9	3934.7	3383.0	3241.0	3174.0	3093.7	2989.2	2812.4	2670.5
26383.3	52.5°	22370.9	15771.0	4132.9	3241.0	3029.4	3069.6	3018.7	2898.1	2724.0	2579.4
27883.2	55°	23570.8	16561.2	4210.6	3045.5	2831.2	2978.5	2949.0	2726.7	2517.8	2399.9
29452.8	57.5°	24877.9	17512.1	4124.9	2796.4	2670.5	2874.0	2761.5	2515.1	2394.6	2306.2
31496.5	60°	26688.6	19004.0	3940.1	2488.3	2517.8	2718.7	2525.8	2424.0	2292.8	2193.7
34560.7	62.5°	29696.6	21786.9	3642.8	2183.0	2338.3	2488.3	2413.3	2311.5	2177.6	2081.2
39799.9	65°	34142.9	25654.7	3083.0	1944.6	2137.4	2263.3	2292.8	2191.0	2051.7	1950.0
44390.8	67.5°	37892.8	28081.4	2333.0	1746.4	1931.2	2081.2	2164.2	2065.1	1917.8	1818.7
45464.9	70°	37686.5	26319.0	1781.2	1550.9	1749.1	1901.7	2008.9	1931.2	1773.2	1679.4
41297.2	72.5°	33473.3	22017.3	1441.0	1352.6	1564.2	1714.2	1842.8	1783.9	1623.2	1532.1
30253.7	75°	24591.3	15629.1	1151.8	1151.8	1333.9	1518.7	1660.7	1623.2	1475.9	1411.6
12701.5	77.5°	10365.8	6557.0	902.7	956.2	1108.9	1304.4	1481.2	1494.6	1366.0	1446.4
3358.8	80°	2756.2	1808.0	688.4	752.7	870.5	1076.8	1288.4	1283.0	1143.7	1068.7
1248.2	82.5°	1050.0	712.5	490.2	530.3	629.4	825.0	1020.5	1052.7	913.4	790.2
490.2	85°	404.5	305.3	302.7	318.7	367.0	546.4	771.4	798.2	688.4	583.9
136.6	87.5°	104.5	91.1	112.5	107.1	168.7	292.0	442.0	458.0	420.5	243.7
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>
7400.7
7060.5
6543.6
6072.2
5788.2
5707.9
5772.2
5863.2
5863.2
5729.3
5480.2
5153.4
4775.8
4357.9
3991.0
3824.9
3581.2
3249.0
2975.8
2793.7
2659.8
2582.1
2389.2
2298.2
2188.3
2081.2
1955.3
1821.4
1687.5
1532.1
1392.8
1312.5
993.7
790.2
602.7
348.2
0.0

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