

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: P943685

Luminaire Tested: **GALN-SB8B-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943685
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-SB8B-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47732 lumens
Efficiency: N/A
Efficacy: 163.0 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

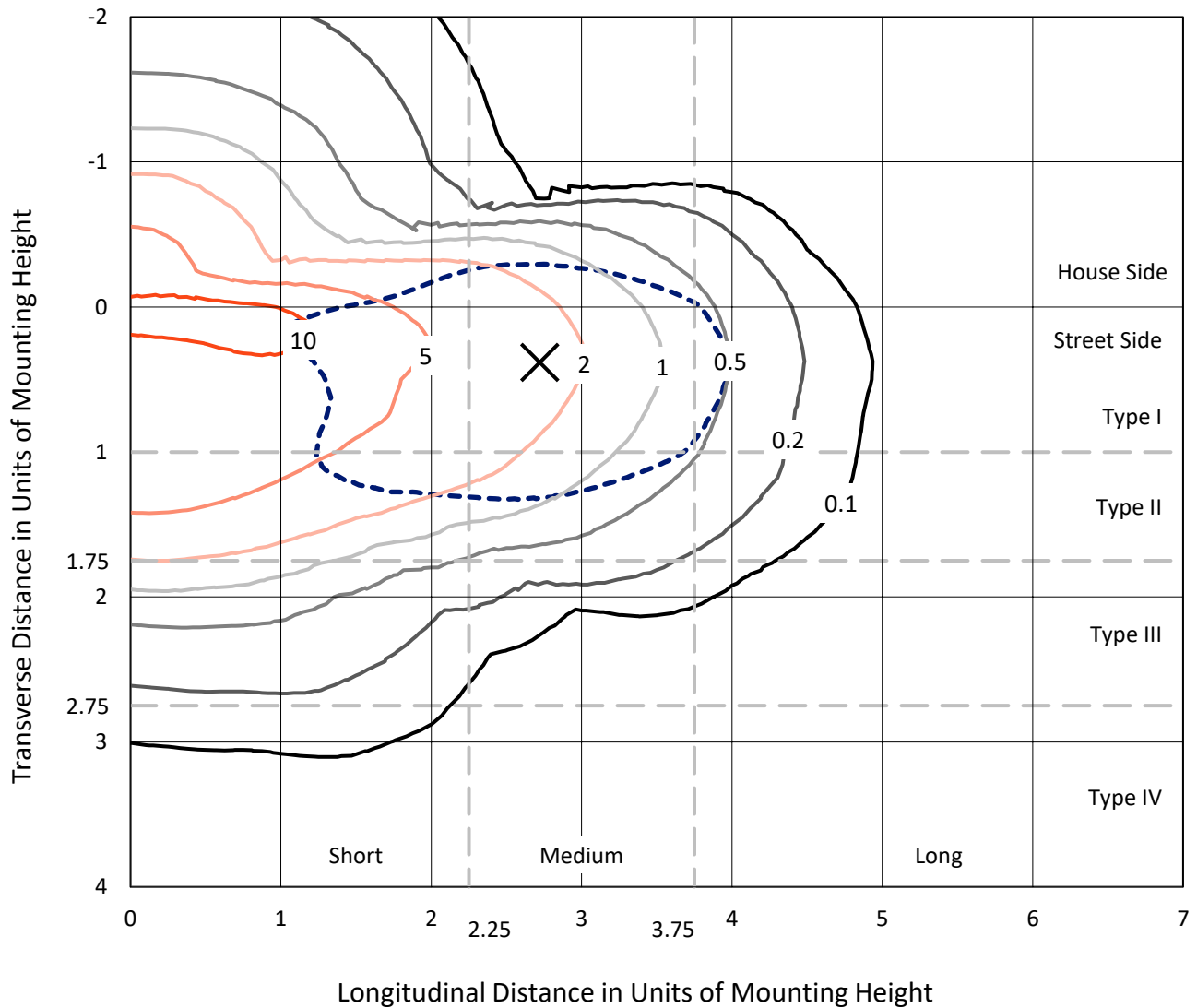
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

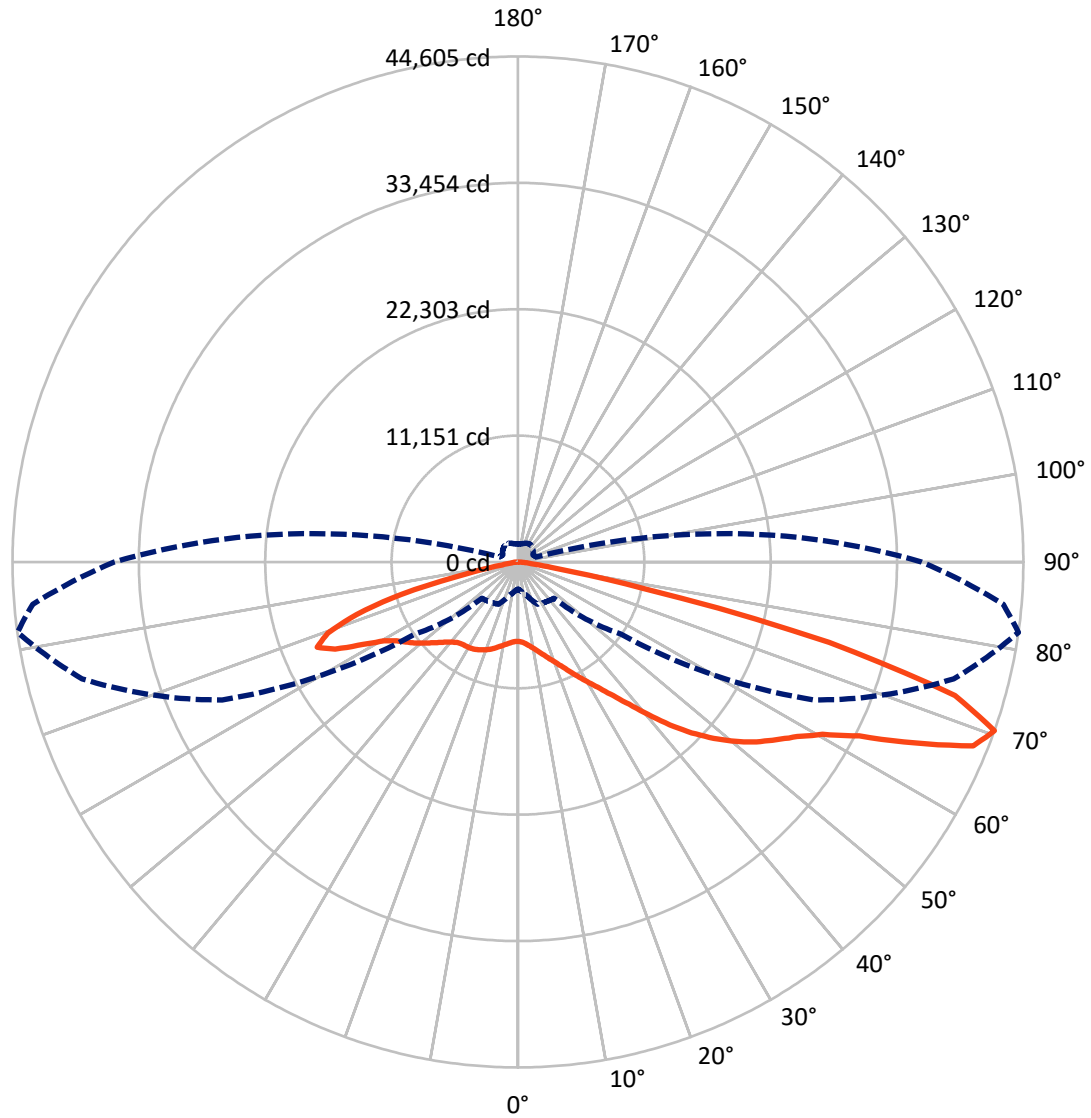
× Max cd
 - - - 1/2 Max cd



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

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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	11767.1	0.0	11767.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	35964.9	0.0	35964.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	47732.0	0.0	47732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.7	1.4
10°-20°	1898.4	4.0
20°-30°	3175.8	6.7
30°-40°	4961.4	10.4
40°-50°	7901.5	16.6
50°-60°	10996.0	23.0
60°-70°	11502.3	24.1
70°-80°	6011.7	12.6
80°-90°	624.2	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°	47732.0	100.0
0°-180°	47732.0	100.0

Coefficient of Utilization



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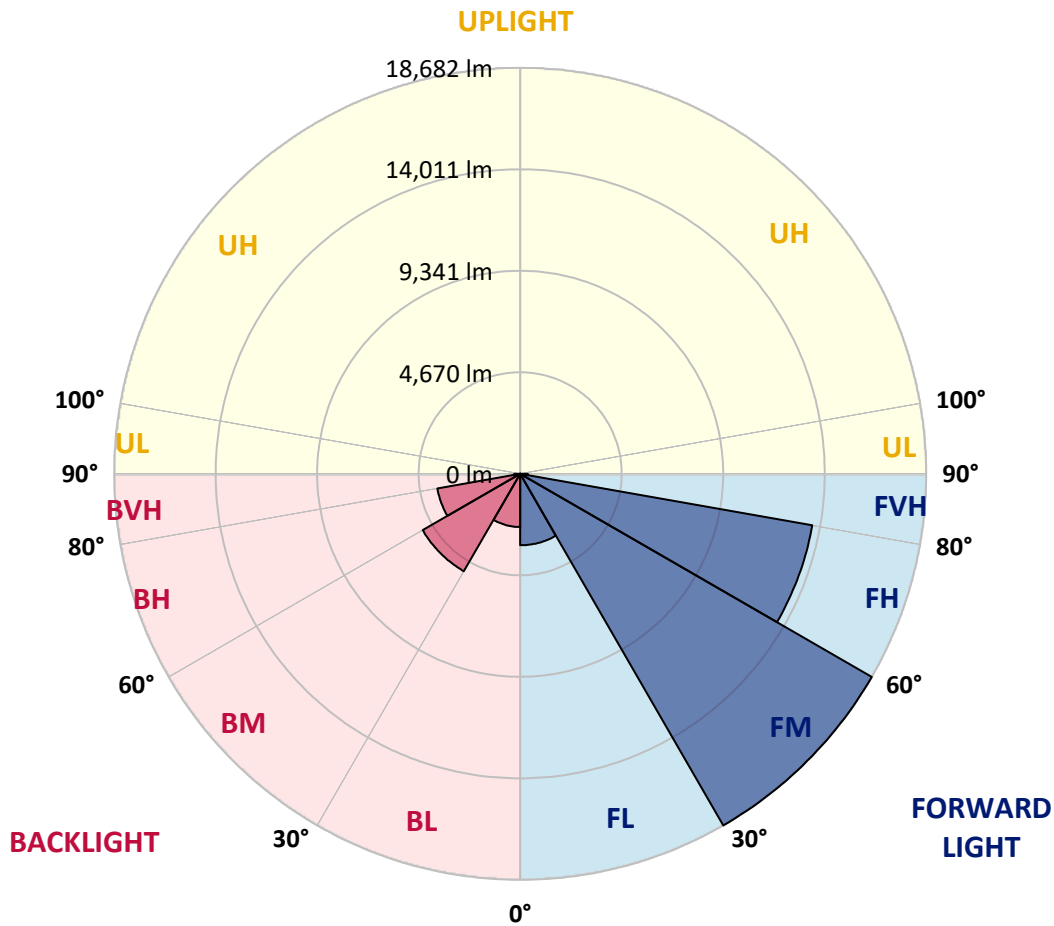
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3286.9	6.9			
FM (30°-60°)	18681.8	39.1			
FH (60°-80°)	13646.7	28.6			G5
FVH (80°-90°)	349.5	0.7			G3/500
BL (0°-30°)	2448.0	5.1	B3/2500		
BM (30°-60°)	5177.1	10.8	B4/8500		
BH (60°-80°)	3867.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	274.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1
2.5°	7165.3	7205.8	7193.1	7180.5	7180.5	7162.7	7160.2	7134.9	7114.6	7081.7
5°	7256.5	7299.5	7294.4	7304.6	7337.5	7345.1	7352.7	7337.5	7297.0	7256.5
7.5°	7175.4	7223.5	7238.7	7299.5	7400.8	7492.0	7560.4	7588.2	7550.3	7492.0
10°	6901.9	6955.1	7008.2	7152.6	7332.4	7547.7	7730.1	7839.0	7831.4	7775.7
12.5°	6347.2	6402.9	6516.9	6798.0	7127.3	7507.2	7846.6	8074.5	8153.1	8112.5
15°	5903.9	5952.1	6038.2	6326.9	6755.0	7332.4	7889.7	8332.9	8533.0	8510.2
17.5°	5891.3	5911.5	5964.7	6101.5	6430.8	7058.9	7844.1	8586.2	8968.6	8966.1
20°	6114.2	6121.8	6152.2	6180.0	6367.4	6851.2	7727.6	8796.4	9457.5	9457.5
22.5°	6423.2	6418.1	6448.5	6423.2	6514.3	6833.5	7654.1	8981.3	10002.0	10042.5
25°	6886.7	6861.3	6853.7	6795.5	6813.2	6998.1	7735.2	9191.5	10647.9	10731.4
27.5°	7504.7	7464.1	7436.3	7302.0	7256.5	7337.5	7983.4	9444.8	11367.2	11511.5
30°	8310.1	8236.6	8196.1	7963.1	7798.5	7811.1	8358.2	9781.6	12119.4	12352.4
32.5°	9409.3	9295.4	9186.4	8804.0	8502.6	8403.8	8842.0	10247.7	12935.0	13307.3
35°	10640.3	10549.1	10432.6	9842.4	9378.9	9151.0	9495.4	10898.6	13889.8	14480.0
37.5°	11825.6	11747.1	11802.8	11007.5	10409.8	10078.0	10351.5	11772.4	15067.6	15938.9
40°	13051.5	12990.7	12998.3	12238.5	11541.9	11169.6	11390.0	12869.1	16417.6	17673.8
42.5°	14383.7	14338.1	14186.2	13512.5	12729.8	12382.8	12585.5	14135.5	17866.3	19649.4
45°	15875.5	15847.7	15705.9	14933.3	14036.7	13646.7	13920.2	15533.6	19322.7	21508.5
47.5°	17164.7	17187.5	17169.8	16518.9	15589.3	15016.9	15343.7	16992.5	20677.7	23256.1
50°	17785.3	17904.3	18079.1	17876.5	17299.0	16716.4	16779.8	18400.7	21969.4	24894.8
52.5°	17461.1	17686.5	18162.7	18486.9	18709.7	18588.2	18418.5	19798.8	23185.2	26374.0
55°	16252.9	16569.5	17359.8	18142.4	19279.6	20163.6	20386.5	21348.9	24370.5	27675.8
57.5°	14051.9	14566.1	15275.3	16858.3	18773.1	20925.9	22681.2	23499.3	25626.8	29066.3
60°	10278.1	10967.0	11848.4	14203.9	17000.1	20518.2	24633.9	26802.0	27412.4	30867.2
62.5°	6577.7	7003.2	7813.7	10032.4	13246.5	18428.6	25231.7	30930.5	30439.1	33820.4
65°	4503.3	4776.8	5519.0	6765.1	8563.4	13717.6	23631.0	34025.5	35246.4	38501.0
67.5°	3272.4	3480.1	4113.3	5204.9	5579.7	8117.6	18337.4	33883.7	39919.4	43323.4
70°	2385.9	2532.8	3064.7	4113.3	4293.1	4516.0	11108.8	28802.9	39818.0	44605.0
72.5°	1767.9	1869.2	2226.3	3191.3	3475.0	3049.5	5498.7	20933.5	34215.5	40344.9
75°	1279.1	1355.0	1618.5	2441.6	2781.0	2322.6	2743.0	12233.4	23866.5	28379.9
77.5°	977.7	1035.9	1208.1	1788.2	2226.3	1742.6	1702.0	5627.9	11316.5	11372.2
80°	785.2	823.2	916.9	1258.8	1707.1	1304.4	1109.4	2271.9	3576.3	3026.7
82.5°	577.5	640.8	775.0	883.9	1220.8	899.1	676.3	1147.4	1360.1	1170.2
85°	329.3	372.3	468.6	633.2	780.1	549.6	387.5	509.1	633.2	519.2
87.5°	116.5	152.0	164.6	248.2	339.4	228.0	149.4	146.9	207.7	154.5
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°
6998.1	0°	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1	6998.1
7074.1	2.5°	7048.8	7036.1	6985.4	6917.1	6846.1	6777.8	6755.0	6706.8	6673.9	6656.2
7238.7	5°	7190.6	7150.1	7031.0	6879.1	6719.5	6547.3	6425.7	6314.3	6233.2	6157.2
7464.1	7.5°	7393.2	7322.3	7117.1	6851.2	6567.5	6281.3	6068.6	5906.5	5797.6	5726.6
7727.6	10°	7628.8	7519.9	7205.8	6808.1	6370.0	5959.7	5708.9	5569.6	5501.2	5463.2
8029.0	12.5°	7899.8	7745.3	7297.0	6709.4	6068.6	5600.0	5427.8	5387.3	5389.8	5392.3
8408.9	15°	8234.1	8018.8	7370.4	6494.1	5676.0	5323.9	5293.5	5359.4	5427.8	5460.7
8839.4	17.5°	8611.5	8307.6	7383.1	6139.5	5291.0	5146.6	5242.9	5384.7	5488.6	5534.2
9320.7	20°	9016.7	8601.4	7291.9	5638.0	4974.4	5002.3	5174.5	5356.9	5470.8	5529.1
9870.3	22.5°	9480.2	8915.4	7074.1	5111.2	4716.1	4845.2	5047.9	5225.2	5344.2	5402.4
10516.2	25°	10009.6	9267.5	6732.2	4667.9	4493.2	4667.9	4870.6	5017.5	5113.7	5166.9
11238.0	27.5°	10597.2	9634.7	6276.3	4315.9	4298.2	4485.6	4652.7	4766.7	4817.4	4857.9
12005.4	30°	11187.3	9969.1	5724.1	4049.9	4128.5	4305.7	4424.8	4475.4	4490.6	4498.2
12861.5	32.5°	11825.6	10257.8	5144.1	3829.6	3966.4	4131.0	4201.9	4224.7	4153.8	4105.7
13900.0	35°	12598.1	10566.8	4576.8	3654.8	3806.8	3948.6	3971.4	3951.2	3867.6	3768.8
15201.8	37.5°	13553.0	10951.8	4123.4	3530.7	3657.4	3751.1	3723.2	3718.1	3725.7	3609.2
16767.1	40°	14723.1	11453.3	3791.6	3434.5	3535.8	3556.0	3477.5	3520.6	3558.6	3381.3
18484.3	42.5°	16022.5	12058.6	3581.4	3368.6	3434.5	3386.3	3264.8	3312.9	3307.8	3074.8
20209.2	45°	17347.1	12717.2	3507.9	3320.5	3340.8	3244.5	3110.3	3122.9	3016.6	2806.3
21863.1	47.5°	18664.2	13423.8	3553.5	3280.0	3224.2	3115.3	3011.5	2955.8	2798.7	2641.7
23448.6	50°	19955.9	14165.9	3720.7	3198.9	3064.7	3001.4	2925.4	2826.6	2659.4	2525.2
24948.0	52.5°	21153.9	14913.1	3908.1	3064.7	2864.6	2902.6	2854.5	2740.5	2575.9	2439.1
26366.4	55°	22288.6	15660.3	3981.6	2879.8	2677.2	2816.5	2788.6	2578.4	2380.8	2269.4
27850.6	57.5°	23524.6	16559.4	3900.5	2644.2	2525.2	2717.7	2611.3	2378.3	2264.3	2180.7
29783.1	60°	25236.8	17970.2	3725.7	2353.0	2380.8	2570.8	2388.4	2292.2	2168.1	2074.4
32680.6	62.5°	28081.1	20601.7	3444.6	2064.2	2211.1	2353.0	2282.0	2185.8	2059.2	1968.0
37634.8	65°	32285.5	24259.1	2915.2	1838.8	2021.2	2140.2	2168.1	2071.8	1940.1	1843.9
41976.0	67.5°	35831.4	26553.8	2206.1	1651.4	1826.1	1968.0	2046.5	1952.8	1813.5	1719.8
42991.6	70°	35636.4	24887.2	1684.3	1466.5	1653.9	1798.3	1899.6	1826.1	1676.7	1588.1
39050.6	72.5°	31652.3	20819.6	1362.6	1279.1	1479.2	1621.0	1742.6	1686.8	1534.9	1448.8
28607.9	75°	23253.6	14778.8	1089.1	1089.1	1261.3	1436.1	1570.3	1534.9	1395.6	1334.8
12010.5	77.5°	9801.9	6200.3	853.6	904.2	1048.6	1233.5	1400.6	1413.3	1291.7	1367.7
3176.1	80°	2606.2	1709.6	650.9	711.7	823.2	1018.2	1218.3	1213.2	1081.5	1010.6
1180.3	82.5°	992.9	673.7	463.5	501.5	595.2	780.1	965.0	995.4	863.7	747.2
463.5	85°	382.5	288.7	286.2	301.4	347.0	516.7	729.4	754.8	650.9	552.1
129.2	87.5°	98.8	86.1	106.4	101.3	159.6	276.1	417.9	433.1	397.6	230.5
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>
6998.1
6676.4
6187.6
5741.8
5473.4
5397.4
5458.2
5544.3
5544.3
5417.6
5182.1
4873.1
4516.0
4120.9
3773.9
3616.8
3386.3
3072.3
2813.9
2641.7
2515.1
2441.6
2259.3
2173.1
2069.3
1968.0
1848.9
1722.3
1595.7
1448.8
1317.1
1241.1
939.7
747.2
569.9
329.3
0.0

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