

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: P944195

Luminaire Tested: **GALN-SB9A-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944195  
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-SB9A-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

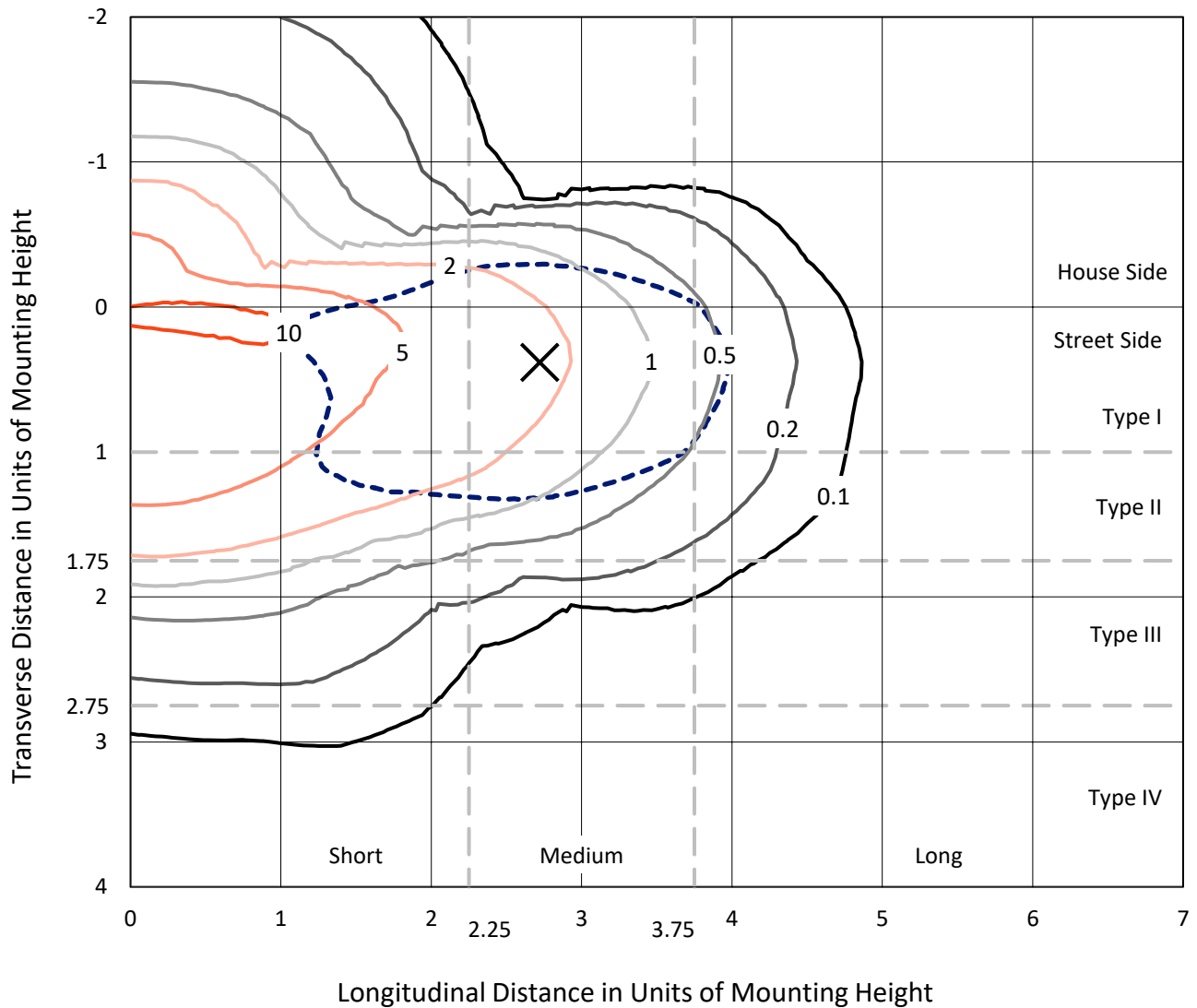
Lumens per Lamp: N/A  
Luminaire Lumens: 42831 lumens  
Efficiency: N/A  
Efficacy: 167.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

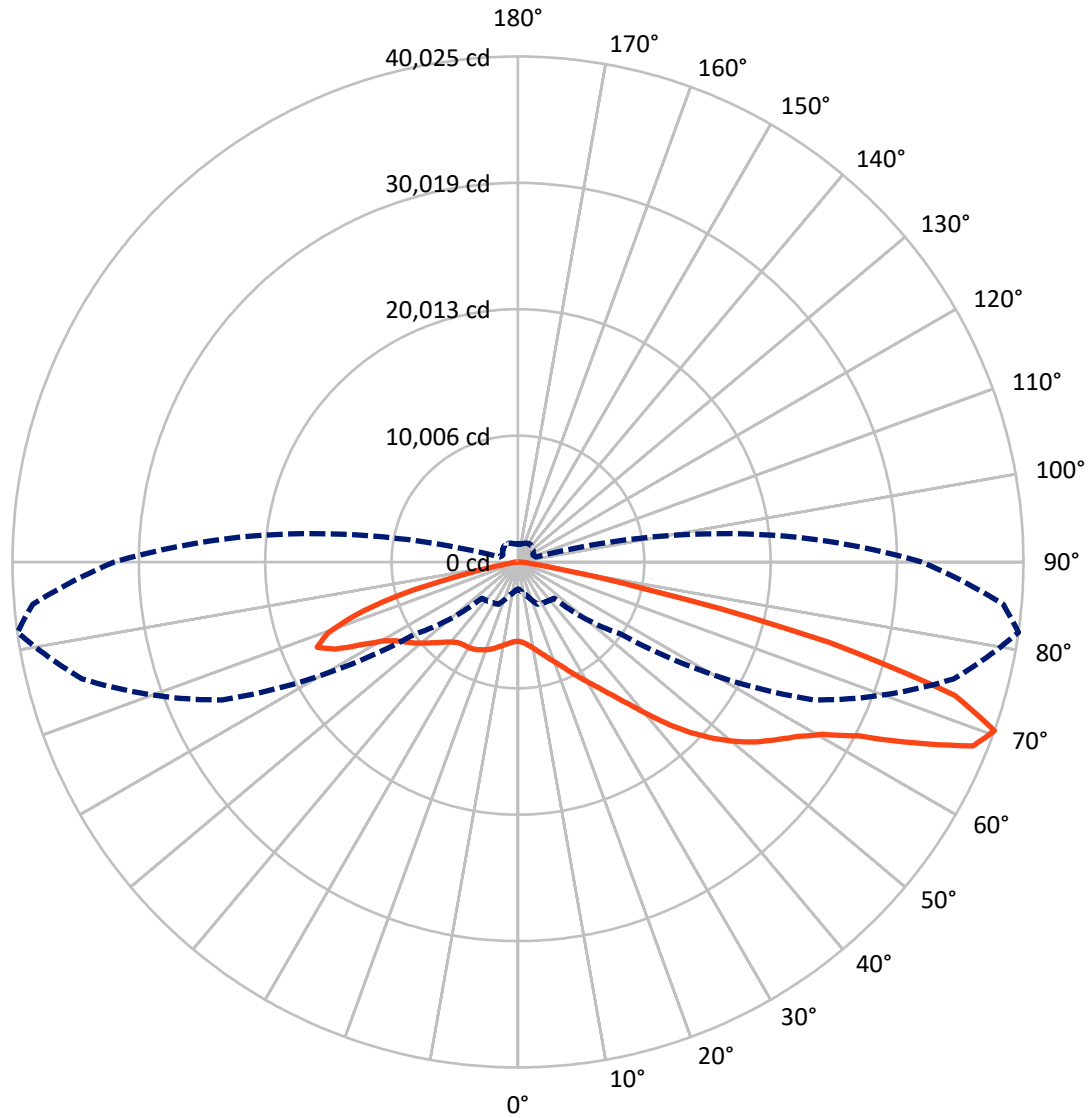
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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
<b>House Side</b>	Lumens	10558.9	0.0	10558.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	32272.1	0.0	32272.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	42831.0	0.0	42831.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.9	1.4
10°-20°	1703.4	4.0
20°-30°	2849.7	6.7
30°-40°	4451.9	10.4
40°-50°	7090.2	16.6
50°-60°	9866.9	23.0
60°-70°	10321.3	24.1
70°-80°	5394.4	12.6
80°-90°	560.2	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°	42831.0	100.0
0°-180°	42831.0	100.0

**Coefficient of Utilization**



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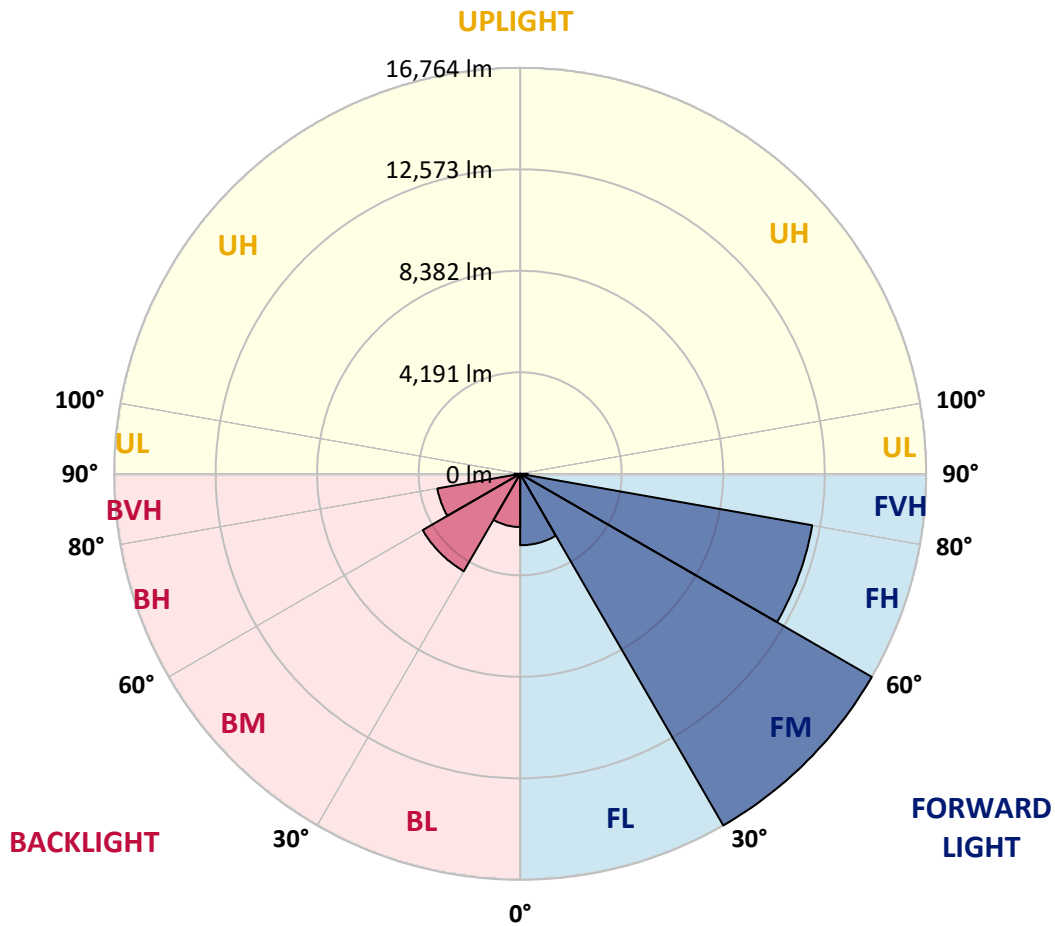
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2949.4	6.9			
FM (30°-60°)	16763.6	39.1			
FH (60°-80°)	12245.5	28.6			G5
FVH (80°-90°)	313.6	0.7			G3/500
BL (0°-30°)	2196.6	5.1	B3/2500		
BM (30°-60°)	4645.5	10.8	B3/5000		
BH (60°-80°)	3470.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	246.6	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6
2.5°	6429.6	6465.9	6454.6	6443.2	6443.2	6427.3	6425.0	6402.3	6384.1	6354.6
5°	6511.4	6550.0	6545.5	6554.6	6584.1	6590.9	6597.7	6584.1	6547.7	6511.4
7.5°	6438.7	6481.8	6495.5	6550.0	6640.9	6722.7	6784.1	6809.1	6775.0	6722.7
10°	6193.2	6240.9	6288.7	6418.2	6579.6	6772.7	6936.4	7034.1	7027.3	6977.3
12.5°	5695.5	5745.5	5847.7	6100.0	6395.5	6736.4	7040.9	7245.5	7315.9	7279.6
15°	5297.7	5340.9	5418.2	5677.3	6061.4	6579.6	7079.6	7477.3	7656.8	7636.4
17.5°	5286.4	5304.6	5352.3	5475.0	5770.5	6334.1	7038.7	7704.6	8047.7	8045.5
20°	5486.4	5493.2	5520.5	5545.5	5713.6	6147.7	6934.1	7893.2	8486.4	8486.4
22.5°	5763.6	5759.1	5786.4	5763.6	5845.5	6131.8	6868.2	8059.1	8975.0	9011.4
25°	6179.6	6156.8	6150.0	6097.7	6113.7	6279.6	6940.9	8247.7	9554.6	9629.6
27.5°	6734.1	6697.7	6672.7	6552.3	6511.4	6584.1	7163.7	8475.0	10200.0	10329.6
30°	7456.8	7390.9	7354.6	7145.5	6997.7	7009.1	7500.0	8777.3	10875.0	11084.1
32.5°	8443.2	8340.9	8243.2	7900.0	7629.6	7540.9	7934.1	9195.5	11606.8	11940.9
35°	9547.7	9465.9	9361.4	8831.8	8415.9	8211.4	8520.5	9779.6	12463.7	12993.2
37.5°	10611.4	10540.9	10590.9	9877.3	9340.9	9043.2	9288.7	10563.7	13520.5	14302.3
40°	11711.4	11656.8	11663.7	10981.8	10356.8	10022.8	10220.5	11547.8	14731.9	15859.1
42.5°	12906.8	12865.9	12729.6	12125.0	11422.8	11111.4	11293.2	12684.1	16031.9	17631.9
45°	14245.5	14220.5	14093.2	13400.0	12595.5	12245.5	12490.9	13938.7	17338.7	19300.0
47.5°	15402.3	15422.8	15406.9	14822.8	13988.7	13475.0	13768.2	15247.8	18554.6	20868.2
50°	15959.1	16065.9	16222.8	16040.9	15522.8	15000.0	15056.9	16511.4	19713.7	22338.7
52.5°	15668.2	15870.5	16297.8	16588.7	16788.7	16679.6	16527.3	17766.0	20804.6	23666.0
55°	14584.1	14868.2	15577.3	16279.6	17300.0	18093.2	18293.2	19156.9	21868.2	24834.1
57.5°	12609.1	13070.5	13706.9	15127.3	16845.5	18777.3	20352.3	21086.4	22995.5	26081.9
60°	9222.7	9840.9	10631.8	12745.5	15254.6	18411.4	22104.6	24050.1	24597.8	27697.8
62.5°	5902.3	6284.1	7011.4	9002.3	11886.4	16536.4	22641.0	27754.6	27313.7	30347.8
65°	4040.9	4286.4	4952.3	6070.5	7684.1	12309.1	21204.6	30531.9	31627.3	34547.8
67.5°	2936.4	3122.7	3690.9	4670.5	5006.8	7284.1	16454.6	30404.6	35820.5	38875.1
70°	2140.9	2272.7	2750.0	3690.9	3852.3	4052.3	9968.2	25845.5	35729.6	40025.1
72.5°	1586.4	1677.3	1997.7	2863.6	3118.2	2736.4	4934.1	18784.1	30702.3	36202.4
75°	1147.7	1215.9	1452.3	2190.9	2495.5	2084.1	2461.4	10977.3	21416.0	25466.0
77.5°	877.3	929.5	1084.1	1604.5	1997.7	1563.6	1527.3	5050.0	10154.6	10204.6
80°	704.5	738.6	822.7	1129.5	1531.8	1170.5	995.5	2038.6	3209.1	2715.9
82.5°	518.2	575.0	695.5	793.2	1095.5	806.8	606.8	1029.5	1220.5	1050.0
85°	295.5	334.1	420.5	568.2	700.0	493.2	347.7	456.8	568.2	465.9
87.5°	104.5	136.4	147.7	222.7	304.5	204.5	134.1	131.8	186.4	138.6
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°
6279.6	0°	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6	6279.6
6347.7	2.5°	6325.0	6313.7	6268.2	6206.8	6143.2	6081.8	6061.4	6018.2	5988.7	5972.7
6495.5	5°	6452.3	6415.9	6309.1	6172.7	6029.6	5875.0	5765.9	5665.9	5593.2	5525.0
6697.7	7.5°	6634.1	6570.5	6386.4	6147.7	5893.2	5636.4	5445.5	5300.0	5202.3	5138.6
6934.1	10°	6845.5	6747.7	6465.9	6109.1	5715.9	5347.7	5122.7	4997.7	4936.4	4902.3
7204.6	12.5°	7088.7	6950.0	6547.7	6020.5	5445.5	5025.0	4870.5	4834.1	4836.4	4838.6
7545.5	15°	7388.7	7195.5	6613.7	5827.3	5093.2	4777.3	4750.0	4809.1	4870.5	4900.0
7931.8	17.5°	7727.3	7454.6	6625.0	5509.1	4747.7	4618.2	4704.6	4831.8	4925.0	4965.9
8363.7	20°	8090.9	7718.2	6543.2	5059.1	4463.6	4488.6	4643.2	4806.8	4909.1	4961.4
8856.8	22.5°	8506.8	8000.0	6347.7	4586.4	4231.8	4347.7	4529.6	4688.6	4795.5	4847.7
9436.4	25°	8981.8	8315.9	6040.9	4188.6	4031.8	4188.6	4370.5	4502.3	4588.6	4636.4
10084.1	27.5°	9509.1	8645.5	5631.8	3872.7	3856.8	4025.0	4175.0	4277.3	4322.7	4359.1
10772.8	30°	10038.7	8945.5	5136.4	3634.1	3704.6	3863.6	3970.5	4015.9	4029.6	4036.4
11540.9	32.5°	10611.4	9204.6	4615.9	3436.4	3559.1	3706.8	3770.5	3790.9	3727.3	3684.1
12472.8	35°	11304.6	9481.8	4106.8	3279.6	3415.9	3543.2	3563.6	3545.5	3470.5	3381.8
13640.9	37.5°	12161.4	9827.3	3700.0	3168.2	3281.8	3365.9	3340.9	3336.4	3343.2	3238.6
15045.5	40°	13211.4	10277.3	3402.3	3081.8	3172.7	3190.9	3120.5	3159.1	3193.2	3034.1
16586.4	42.5°	14377.3	10820.5	3213.6	3022.7	3081.8	3038.6	2929.6	2972.7	2968.2	2759.1
18134.1	45°	15565.9	11411.4	3147.7	2979.6	2997.7	2911.4	2790.9	2802.3	2706.8	2518.2
19618.2	47.5°	16747.8	12045.5	3188.6	2943.2	2893.2	2795.5	2702.3	2652.3	2511.4	2370.5
21041.0	50°	17906.9	12711.4	3338.6	2870.5	2750.0	2693.2	2625.0	2536.4	2386.4	2265.9
22386.4	52.5°	18981.9	13381.8	3506.8	2750.0	2570.5	2604.6	2561.4	2459.1	2311.4	2188.6
23659.1	55°	20000.0	14052.3	3572.7	2584.1	2402.3	2527.3	2502.3	2313.6	2136.4	2036.4
24991.0	57.5°	21109.1	14859.1	3500.0	2372.7	2265.9	2438.6	2343.2	2134.1	2031.8	1956.8
26725.1	60°	22645.5	16125.0	3343.2	2111.4	2136.4	2306.8	2143.2	2056.8	1945.5	1861.4
29325.1	62.5°	25197.8	18486.4	3090.9	1852.3	1984.1	2111.4	2047.7	1961.4	1847.7	1765.9
33770.5	65°	28970.5	21768.2	2615.9	1650.0	1813.6	1920.5	1945.5	1859.1	1740.9	1654.5
37666.0	67.5°	32152.3	23827.3	1979.6	1481.8	1638.6	1765.9	1836.4	1752.3	1627.3	1543.2
38577.4	70°	31977.3	22331.9	1511.4	1315.9	1484.1	1613.6	1704.5	1638.6	1504.5	1425.0
35041.0	72.5°	28402.3	18681.9	1222.7	1147.7	1327.3	1454.5	1563.6	1513.6	1377.3	1300.0
25670.5	75°	20866.0	13261.4	977.3	977.3	1131.8	1288.6	1409.1	1377.3	1252.3	1197.7
10777.3	77.5°	8795.5	5563.6	765.9	811.4	940.9	1106.8	1256.8	1268.2	1159.1	1227.3
2850.0	80°	2338.6	1534.1	584.1	638.6	738.6	913.6	1093.2	1088.6	970.5	906.8
1059.1	82.5°	890.9	604.5	415.9	450.0	534.1	700.0	865.9	893.2	775.0	670.5
415.9	85°	343.2	259.1	256.8	270.5	311.4	463.6	654.5	677.3	584.1	495.5
115.9	87.5°	88.6	77.3	95.5	90.9	143.2	247.7	375.0	388.6	356.8	206.8
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>
6279.6
5990.9
5552.3
5152.3
4911.4
4843.2
4897.7
4975.0
4975.0
4861.4
4650.0
4372.7
4052.3
3697.7
3386.4
3245.5
3038.6
2756.8
2525.0
2370.5
2256.8
2190.9
2027.3
1950.0
1856.8
1765.9
1659.1
1545.5
<i>1431.8</i>
1300.0
1181.8
1113.6
843.2
670.5
511.4
295.5
0.0

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