

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: P942224

Luminaire Tested: **GALN-SB6A-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19000 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

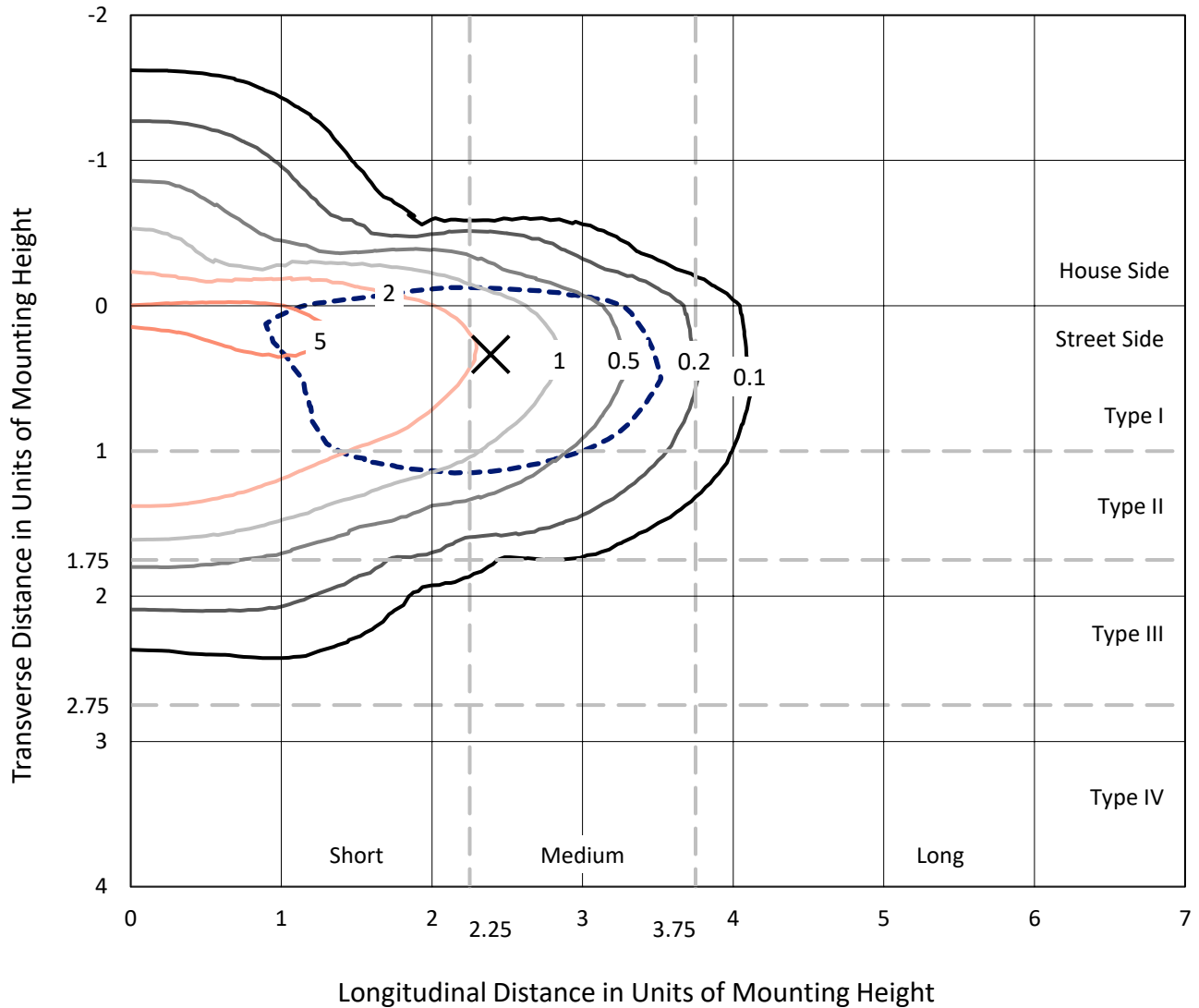
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

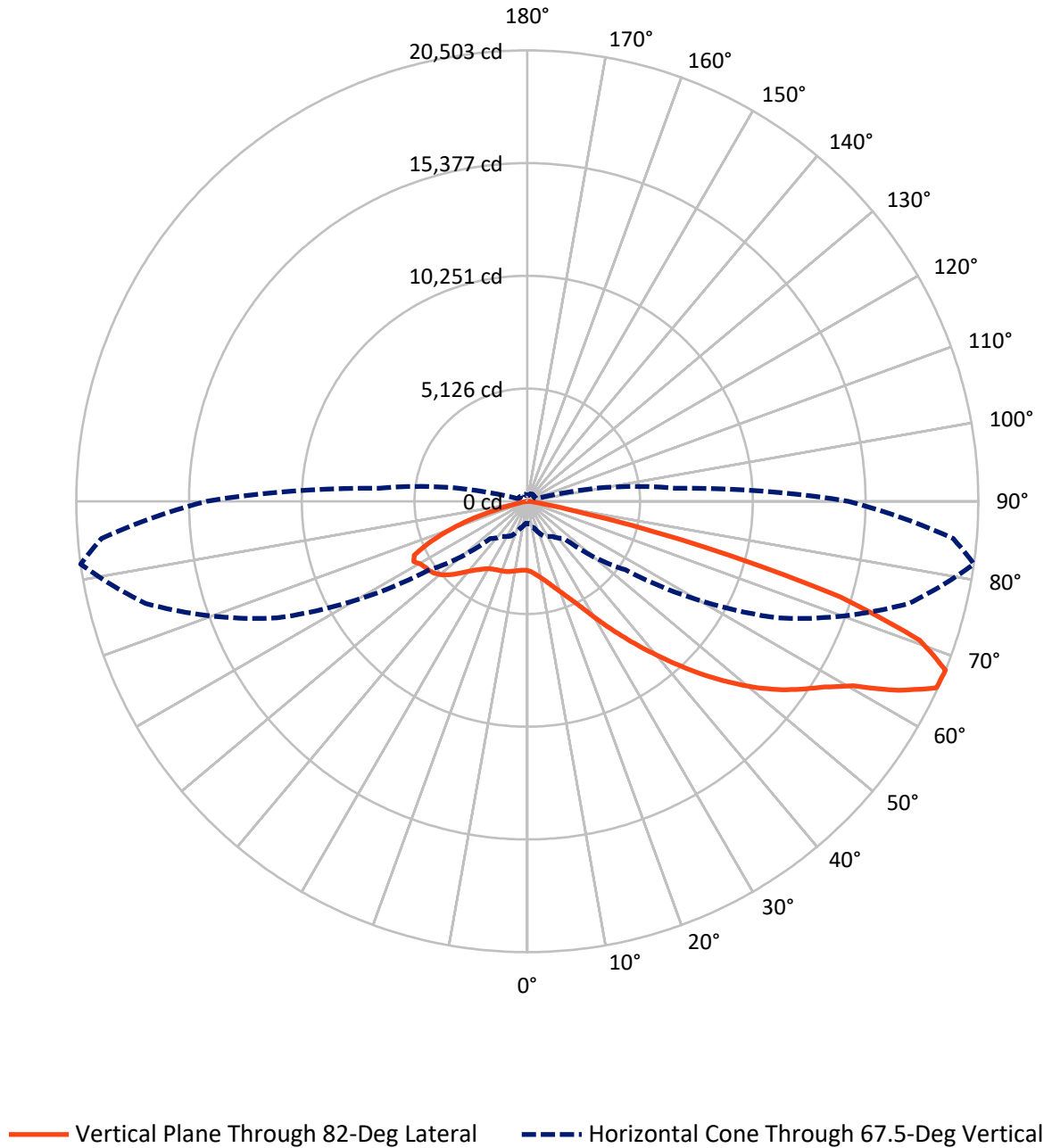
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3441.7	0.0	3441.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15558.3	0.0	15558.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	19000.0	0.0	19000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	1.5
10°-20°	728.7	3.8
20°-30°	1167.2	6.1
30°-40°	2064.0	10.9
40°-50°	3616.3	19.0
50°-60°	4823.1	25.4
60°-70°	4490.0	23.6
70°-80°	1723.3	9.1
80°-90°	107.0	0.6
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°	19000.0	100.0
0°-180°	19000.0	100.0

Coefficient of Utilization



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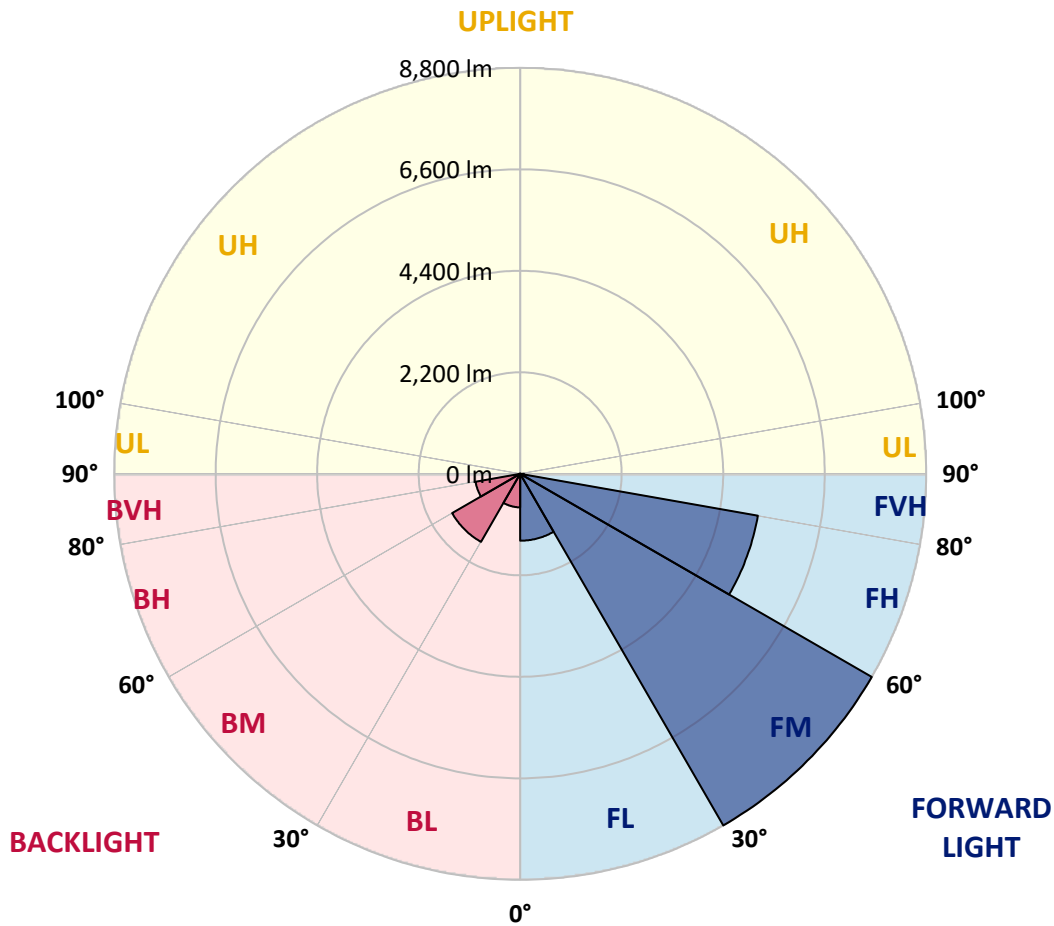
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.5	7.6			
FM (30°-60°)	8800.0	46.3			
FH (60°-80°)	5231.0	27.5			G3/7500
FVH (80°-90°)	77.8	0.4			G1/100
BL (0°-30°)	726.9	3.8	B2/1000		
BM (30°-60°)	1703.3	9.0	B2/2500		
BH (60°-80°)	982.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	29.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7
2.5°	3326.9	3346.0	3335.1	3329.6	3320.0	3306.3	3295.4	3261.2	3225.6	3202.4
5°	3393.9	3413.0	3411.7	3417.1	3424.0	3428.1	3425.4	3387.0	3336.4	3296.8
7.5°	3336.4	3358.3	3376.1	3403.5	3451.3	3502.0	3526.6	3518.4	3466.4	3411.7
10°	3173.6	3196.9	3239.3	3303.6	3404.8	3514.3	3605.9	3648.3	3615.5	3555.3
12.5°	2875.4	2898.7	2982.1	3121.7	3291.3	3481.4	3656.5	3770.1	3778.3	3718.1
15°	2540.3	2563.5	2652.5	2827.6	3086.1	3391.2	3683.9	3898.7	3971.2	3919.2
17.5°	2332.4	2352.9	2419.9	2560.8	2830.3	3210.6	3674.3	4035.5	4201.0	4159.9
20°	2269.4	2287.2	2318.7	2417.2	2641.5	3023.2	3611.4	4164.0	4448.6	4425.3
22.5°	2336.5	2352.9	2362.5	2406.2	2547.1	2900.1	3532.1	4295.4	4735.8	4738.6
25°	2491.0	2507.5	2496.5	2523.9	2585.4	2861.8	3502.0	4449.9	5097.0	5127.1
27.5°	2745.5	2746.8	2720.9	2719.5	2729.1	2919.2	3533.4	4615.5	5552.5	5608.6
30°	3255.7	3235.2	3135.3	3027.3	2978.0	3091.6	3621.0	4811.1	6090.1	6190.0
32.5°	4042.3	4012.2	3828.9	3570.4	3310.4	3369.3	3778.3	5034.1	6675.6	6856.2
35°	4895.9	4887.7	4696.2	4311.8	3857.6	3764.6	4034.1	5326.8	7314.4	7601.7
37.5°	5689.3	5685.2	5575.8	5123.0	4570.3	4315.9	4444.5	5709.8	7998.4	8414.3
40°	6414.3	6426.6	6317.2	5912.3	5355.5	5023.1	5002.6	6183.1	8759.0	9299.3
42.5°	7040.8	7054.5	6943.7	6644.1	6131.2	5805.6	5687.9	6763.2	9501.8	10250.1
45°	7466.3	7551.1	7534.7	7295.3	6927.3	6589.4	6511.5	7490.9	10348.6	11258.2
47.5°	7586.7	7664.6	7787.7	7820.6	7596.2	7263.8	7356.8	8367.8	11204.9	12267.8
50°	7289.8	7362.3	7618.1	7958.7	8114.7	8012.1	8179.0	9307.5	12081.8	13274.6
52.5°	6704.3	6778.2	7101.0	7640.0	8276.1	8598.9	9003.9	10233.6	12931.2	14228.1
55°	5857.6	5935.5	6350.0	6960.1	7968.3	8841.1	9691.9	11158.4	13709.6	15085.8
57.5°	4705.8	4763.2	5194.1	6047.7	7194.1	8600.3	10199.4	12167.9	14442.8	15928.4
60°	3066.9	3117.6	3618.2	4570.3	5910.9	7796.0	10300.7	13293.8	15416.8	17024.2
62.5°	2039.6	2073.8	2370.7	3069.7	4162.7	6251.5	9708.4	14192.5	16845.0	18931.1
65°	1399.4	1433.6	1730.5	2217.4	2689.4	4135.3	8005.3	14073.5	18139.0	20445.4
67.5°	998.6	1027.3	1279.0	1738.7	1946.6	2402.1	5426.7	12552.3	17953.0	20502.9
70°	715.4	731.9	939.8	1354.3	1547.2	1443.2	3017.7	9600.3	15719.1	18932.5
72.5°	500.7	506.1	652.5	1031.4	1246.2	1053.3	1436.3	6400.6	11888.9	14860.1
75°	339.3	346.1	439.1	756.5	1000.0	804.4	760.6	3432.2	6979.3	8225.5
77.5°	207.9	210.7	283.2	517.1	748.3	612.8	489.7	1454.1	2700.3	2651.1
80°	117.6	117.6	180.6	321.5	510.2	395.3	343.4	618.3	855.0	751.0
82.5°	65.7	67.0	131.3	199.7	337.9	233.9	188.8	285.9	369.3	326.9
85°	27.4	30.1	80.7	94.4	161.4	116.3	76.6	120.4	136.8	121.7
87.5°	2.7	4.1	24.6	17.8	19.2	23.3	10.9	23.3	19.2	19.2
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°
3147.7	0°	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7
3194.2	2.5°	3168.2	3147.7	3095.7	3035.5	2956.1	2917.8	2865.9	2830.3	2800.2	2802.9
3273.5	5°	3229.7	3177.8	3061.5	2916.5	2735.9	2607.3	2470.5	2376.1	2299.5	2283.1
3382.9	7.5°	3314.5	3232.5	3028.6	2767.4	2462.3	2231.1	2024.6	1891.9	1797.5	1767.4
3515.6	10°	3424.0	3305.0	2986.2	2580.0	2140.8	1846.7	1625.1	1521.2	1456.9	1435.0
3671.6	12.5°	3551.2	3388.4	2930.2	2351.5	1809.8	1526.6	1385.7	1333.8	1313.2	1306.4
3863.1	15°	3711.3	3492.4	2845.3	2080.7	1529.4	1331.0	1270.8	1264.0	1266.7	1264.0
4092.9	17.5°	3901.4	3605.9	2707.2	1801.6	1340.6	1231.2	1209.3	1214.7	1221.6	1220.2
4350.1	20°	4109.3	3718.1	2530.7	1554.0	1212.0	1160.0	1147.7	1153.2	1158.7	1155.9
4646.9	22.5°	4346.0	3838.5	2335.1	1361.1	1125.8	1094.4	1080.7	1082.0	1082.0	1076.6
5023.1	25°	4629.1	3971.2	2129.9	1224.3	1060.2	1035.5	1019.1	1013.7	1005.4	989.0
5480.0	27.5°	4967.0	4112.1	1932.9	1128.6	1008.2	984.9	965.8	952.1	931.6	904.2
6028.6	30°	5347.3	4283.1	1766.0	1068.4	967.1	943.9	922.0	901.5	871.4	837.2
6659.2	32.5°	5794.6	4466.4	1644.3	1028.7	930.2	905.6	879.6	855.0	822.1	787.9
7367.8	35°	6328.1	4688.0	1573.1	1001.3	901.5	868.6	839.9	812.6	787.9	757.8
8137.9	37.5°	6906.8	4923.3	1551.3	987.7	882.3	831.7	798.9	779.7	777.0	759.2
8971.0	40°	7540.2	5202.3	1567.7	979.5	861.8	796.1	760.6	756.5	763.3	731.9
9861.6	42.5°	8210.4	5533.4	1595.0	969.9	833.1	760.6	726.4	726.4	720.9	677.1
10802.7	45°	8935.5	5915.0	1622.4	946.6	798.9	725.0	699.0	689.4	666.2	623.8
11749.3	47.5°	9665.9	6303.5	1642.9	904.2	757.8	694.9	671.7	649.8	615.6	577.3
12678.2	50°	10359.5	6652.3	1621.0	841.3	711.3	666.2	641.6	611.5	574.5	548.5
13557.8	52.5°	10979.2	6954.7	1528.0	767.4	662.1	636.1	614.2	582.7	552.7	525.3
14351.2	55°	11518.2	7199.5	1363.8	697.7	618.3	610.1	588.2	548.5	507.5	484.3
15137.8	57.5°	12035.2	7385.6	1158.7	640.2	578.6	581.4	548.5	513.0	474.7	450.1
16197.9	60°	12723.3	7634.5	950.7	586.9	536.2	544.4	508.9	482.9	435.0	403.5
18015.9	62.5°	13823.2	8021.7	755.1	521.2	487.0	489.7	474.7	443.2	385.8	348.8
19363.4	65°	14695.9	7879.4	595.1	450.1	430.9	435.0	435.0	400.8	339.3	296.8
19435.9	67.5°	14597.4	6746.7	474.7	380.3	377.6	380.3	389.9	361.1	300.9	266.8
17955.7	70°	13447.0	5366.5	380.3	316.0	328.3	321.5	348.8	329.7	270.9	236.7
13920.3	72.5°	10972.3	3865.8	290.0	261.3	251.7	262.6	314.6	296.8	225.7	187.4
7373.3	75°	6411.6	2062.9	216.1	206.6	181.9	218.9	279.1	253.1	172.4	138.2
2259.9	77.5°	2087.5	719.5	158.7	151.8	135.4	176.5	238.0	213.4	140.9	109.4
662.1	80°	559.5	217.5	108.1	99.9	87.5	131.3	188.8	169.6	101.2	71.1
284.5	82.5°	224.3	91.7	62.9	56.1	47.9	90.3	149.1	136.8	75.2	45.1
88.9	85°	72.5	30.1	23.3	17.8	21.9	56.1	88.9	93.0	53.4	23.3
13.7	87.5°	9.6	4.1	4.1	5.5	4.1	9.6	27.4	26.0	15.0	2.7
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>
3147.7
2775.6
2246.2
1737.3
1418.6
1302.3
1262.6
1217.5
1154.6
1073.8
986.3
901.5
834.5
789.3
755.1
757.8
733.2
677.1
622.4
575.9
544.4
522.6
481.5
447.3
399.4
346.1
292.7
261.3
232.6
183.3
134.1
105.3
69.8
45.1
17.8
0.0
0.0

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