

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: P942384

Luminaire Tested: **GALN-SB6B-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942384
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-SB6B-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 450mA 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: 23851 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

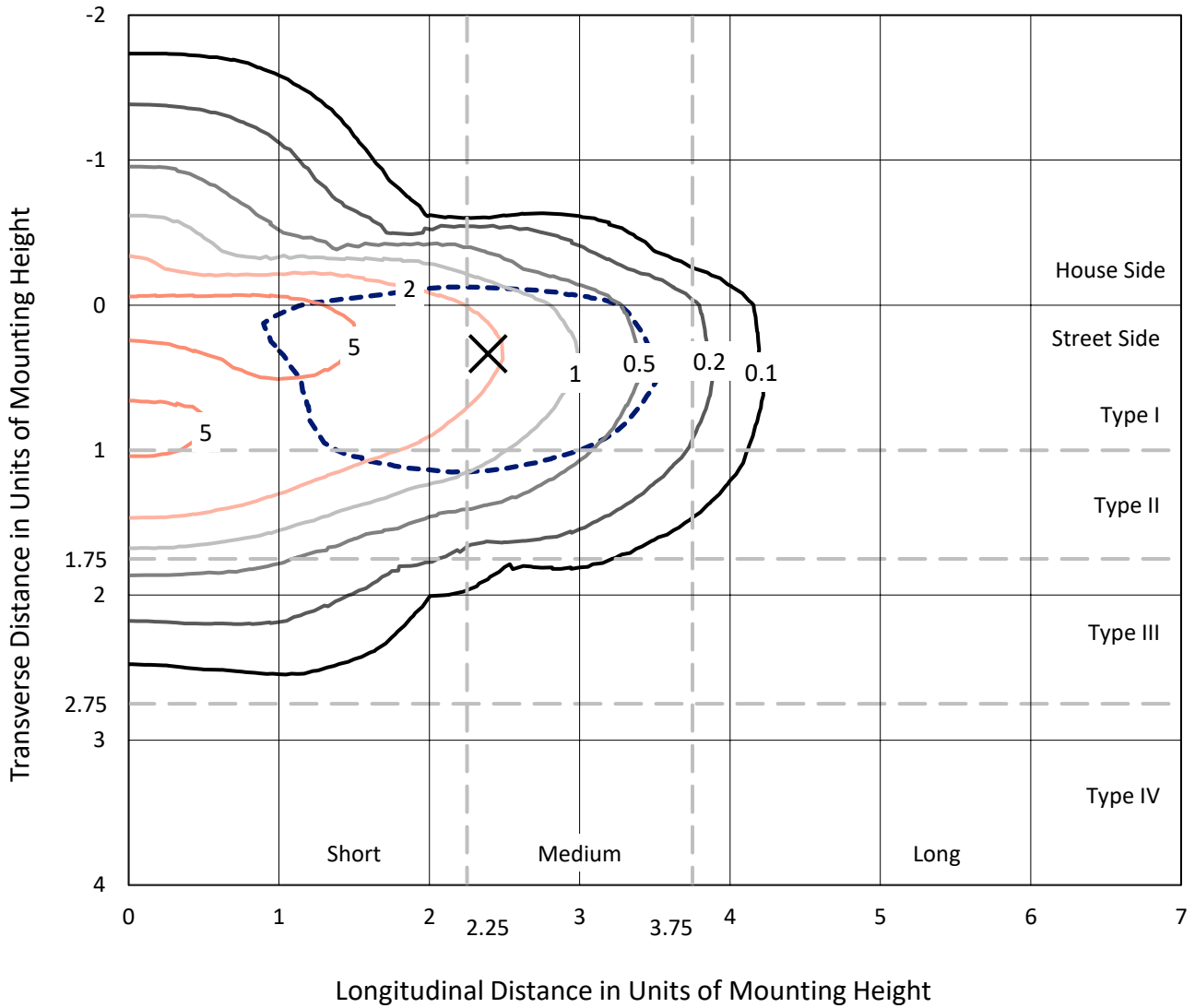
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

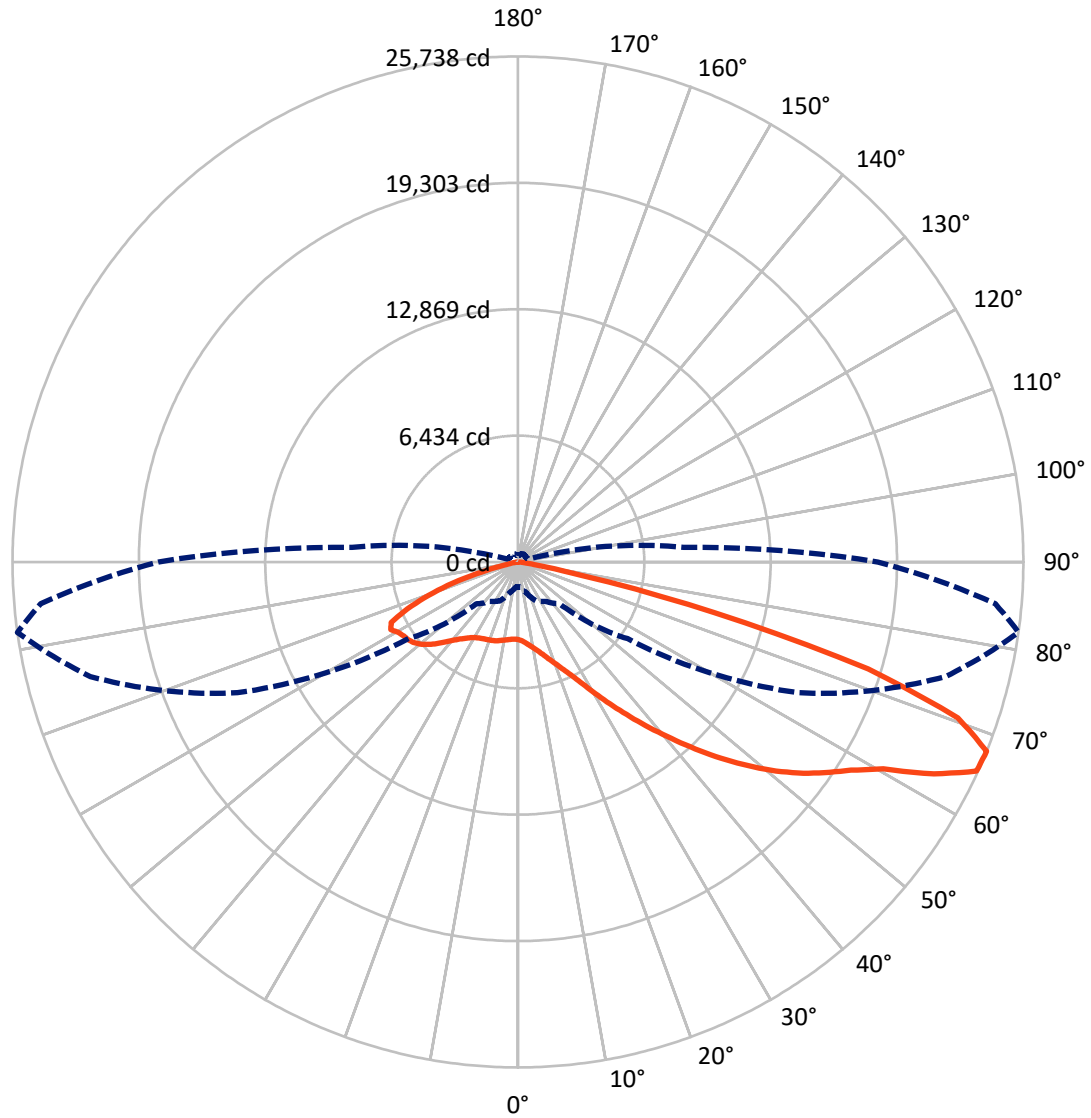
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4320.4	0.0	4320.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19530.6	0.0	19530.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	23851.0	0.0	23851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.0	1.5
10°-20°	914.8	3.8
20°-30°	1465.2	6.1
30°-40°	2590.9	10.9
40°-50°	4539.5	19.0
50°-60°	6054.5	25.4
60°-70°	5636.4	23.6
70°-80°	2163.3	9.1
80°-90°	134.4	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°	23851.0	100.0
0°-180°	23851.0	100.0

Coefficient of Utilization



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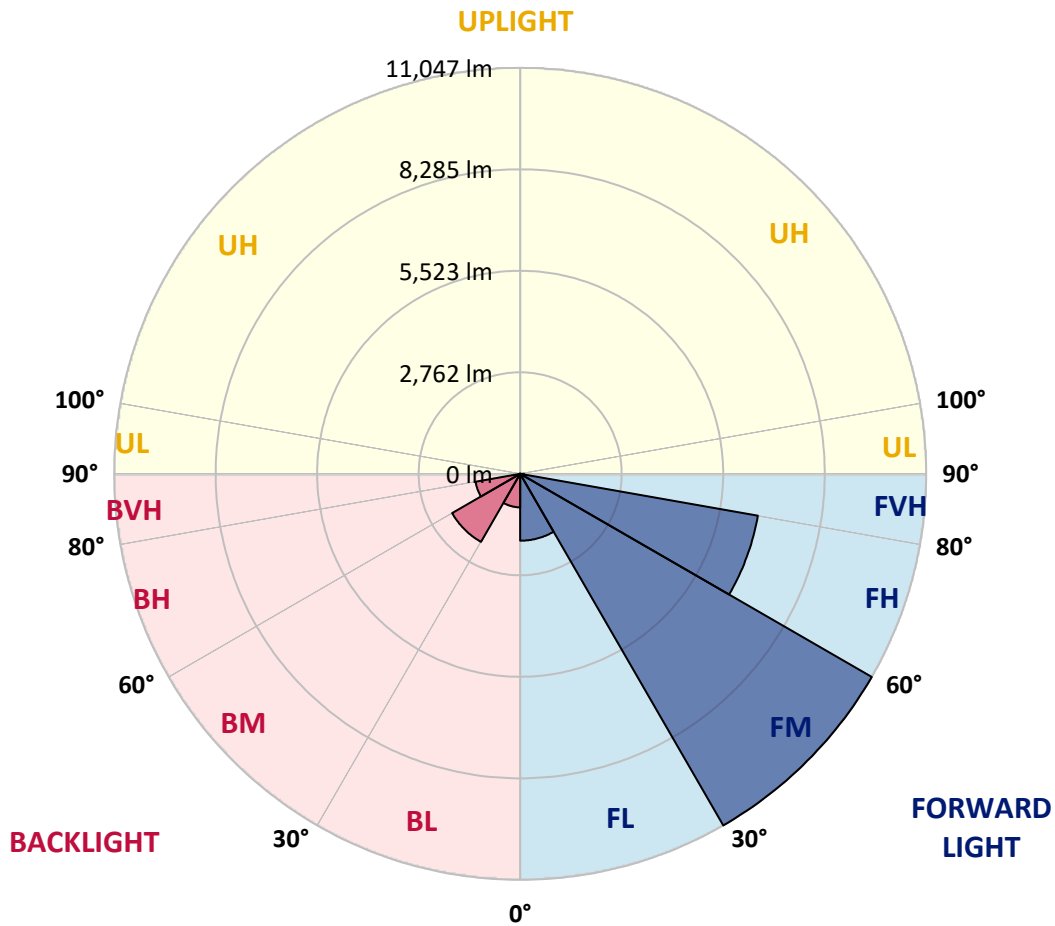
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1819.6	7.6			
FM (30°-60°)	11046.8	46.3			
FH (60°-80°)	6566.5	27.5			G3/7500
FVH (80°-90°)	97.7	0.4			G1/100
BL (0°-30°)	912.5	3.8	B2/1000		
BM (30°-60°)	2138.1	9.0	B2/2500		
BH (60°-80°)	1233.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	36.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3
2.5°	4176.3	4200.3	4186.6	4179.7	4167.7	4150.5	4136.8	4093.8	4049.2	4020.0
5°	4260.4	4284.4	4282.7	4289.6	4298.2	4303.3	4299.9	4251.8	4188.3	4138.5
7.5°	4188.3	4215.8	4238.1	4272.4	4332.5	4396.1	4427.0	4416.7	4351.4	4282.7
10°	3983.9	4013.1	4066.4	4147.1	4274.1	4411.5	4526.6	4579.8	4538.6	4463.0
12.5°	3609.6	3638.8	3743.5	3918.7	4131.6	4370.3	4590.1	4732.6	4742.9	4667.4
15°	3188.9	3218.1	3329.7	3549.5	3874.0	4257.0	4624.5	4894.1	4985.1	4919.8
17.5°	2927.8	2953.6	3037.7	3214.6	3552.9	4030.3	4612.4	5065.8	5273.6	5222.0
20°	2848.9	2871.2	2910.7	3034.3	3315.9	3795.0	4533.4	5227.2	5584.4	5555.2
22.5°	2933.0	2953.6	2965.6	3020.6	3197.4	3640.5	4433.8	5392.0	5945.0	5948.4
25°	3127.0	3147.6	3133.9	3168.3	3245.5	3592.4	4396.1	5586.1	6398.3	6436.1
27.5°	3446.4	3448.2	3415.5	3413.8	3425.8	3664.5	4435.6	5793.9	6970.2	7040.6
30°	4087.0	4061.2	3935.8	3800.2	3738.4	3880.9	4545.5	6039.4	7645.0	7770.4
32.5°	5074.4	5036.6	4806.5	4481.9	4155.7	4229.5	4742.9	6319.3	8380.0	8606.7
35°	6145.9	6135.6	5895.2	5412.7	4842.5	4725.8	5064.1	6686.8	9181.9	9542.5
37.5°	7141.9	7136.7	6999.4	6431.0	5737.2	5417.8	5579.2	7167.6	10040.5	10562.6
40°	8052.0	8067.5	7930.1	7421.8	6722.9	6305.6	6279.8	7761.8	10995.3	11673.6
42.5°	8838.5	8855.7	8716.6	8340.5	7696.5	7287.8	7140.2	8489.9	11927.8	12867.1
45°	9372.5	9479.0	9458.4	9157.9	8696.0	8271.8	8173.9	9403.4	12990.7	14132.7
47.5°	9523.7	9621.5	9776.1	9817.3	9535.7	9118.4	9235.2	10504.2	14065.7	15400.0
50°	9151.0	9242.0	9563.2	9990.7	10186.5	10057.7	10267.2	11683.9	15166.4	16663.8
52.5°	8416.1	8508.8	8914.0	9590.6	10389.1	10794.4	11302.7	12846.5	16232.8	17860.7
55°	7353.1	7451.0	7971.3	8737.2	10002.8	11098.3	12166.4	14007.3	17209.9	18937.4
57.5°	5907.2	5979.3	6520.3	7591.8	9030.8	10796.1	12803.5	15274.6	18130.3	19995.2
60°	3850.0	3913.5	4542.0	5737.2	7420.1	9786.4	12930.6	16687.9	19353.0	21370.7
62.5°	2560.4	2603.3	2975.9	3853.4	5225.5	7847.7	12187.0	17816.1	21145.7	23764.5
65°	1756.7	1799.6	2172.3	2783.6	3376.0	5191.1	10049.1	17666.7	22770.2	25665.4
67.5°	1253.6	1289.6	1605.6	2182.6	2443.6	3015.4	6812.2	15757.1	22536.7	25737.6
70°	898.1	918.7	1179.7	1700.0	1942.2	1811.7	3788.2	12051.4	19732.5	23766.2
72.5°	628.5	635.4	819.1	1294.8	1564.4	1322.3	1803.1	8034.8	14924.3	18654.1
75°	425.9	434.5	551.2	949.6	1255.3	1009.7	954.8	4308.5	8761.2	10325.6
77.5°	261.0	264.5	355.5	649.1	939.3	769.3	614.8	1825.4	3389.8	3328.0
80°	147.7	147.7	226.7	403.5	640.5	496.3	431.0	776.2	1073.3	942.7
82.5°	82.4	84.1	164.9	250.7	424.2	293.6	237.0	358.9	463.6	410.4
85°	34.3	37.8	101.3	118.5	202.6	146.0	96.2	151.1	171.7	152.8
87.5°	3.4	5.2	30.9	22.3	24.0	29.2	13.7	29.2	24.0	24.0
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°
3951.3	0°	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3	3951.3
4009.7	2.5°	3977.1	3951.3	3886.0	3810.5	3710.9	3662.8	3597.6	3552.9	3515.1	3518.6
4109.3	5°	4054.3	3989.1	3843.1	3661.1	3434.4	3273.0	3101.3	2982.8	2886.6	2866.0
4246.7	7.5°	4160.8	4057.8	3801.9	3473.9	3091.0	2800.8	2541.5	2374.9	2256.4	2218.6
4413.2	10°	4298.2	4148.8	3748.7	3238.7	2687.4	2318.2	2040.0	1909.5	1828.8	1801.4
4609.0	12.5°	4457.9	4253.5	3678.3	2951.9	2271.9	1916.4	1739.5	1674.3	1648.5	1639.9
4849.4	15°	4658.8	4384.0	3571.8	2611.9	1919.8	1670.8	1595.3	1586.7	1590.1	1586.7
5137.9	17.5°	4897.5	4526.6	3398.4	2261.6	1682.9	1545.5	1518.0	1524.9	1533.5	1531.8
5460.7	20°	5158.5	4667.4	3176.8	1950.8	1521.4	1456.2	1440.7	1447.6	1454.5	1451.0
5833.4	22.5°	5455.6	4818.5	2931.3	1708.6	1413.3	1373.8	1356.6	1358.3	1358.3	1351.4
6305.6	25°	5811.0	4985.1	2673.7	1536.9	1330.8	1299.9	1279.3	1272.5	1262.2	1241.5
6879.1	27.5°	6235.2	5161.9	2426.4	1416.7	1265.6	1236.4	1212.4	1195.2	1169.4	1135.1
7567.8	30°	6712.6	5376.6	2216.9	1341.1	1214.1	1184.9	1157.4	1131.6	1093.9	1050.9
8359.4	32.5°	7274.1	5606.7	2064.1	1291.3	1167.7	1136.8	1104.2	1073.3	1032.0	989.1
9248.9	35°	7943.8	5884.9	1974.8	1257.0	1131.6	1090.4	1054.4	1020.0	989.1	951.3
10215.7	37.5°	8670.2	6180.2	1947.3	1239.8	1107.6	1044.1	1002.9	978.8	975.4	953.1
11261.5	40°	9465.3	6530.6	1967.9	1229.5	1081.8	999.4	954.8	949.6	958.2	918.7
12379.4	42.5°	10306.7	6946.1	2002.3	1217.5	1045.8	954.8	911.8	911.8	905.0	850.0
13560.8	45°	11216.8	7425.2	2036.6	1188.3	1002.9	910.1	877.5	865.5	836.3	783.0
14749.1	47.5°	12133.8	7912.9	2062.4	1135.1	951.3	872.3	843.2	815.7	772.7	724.7
15915.1	50°	13004.4	8350.8	2034.9	1056.1	892.9	836.3	805.4	767.6	721.2	688.6
17019.3	52.5°	13782.3	8730.3	1918.1	963.4	831.1	798.5	771.0	731.5	693.8	659.4
18015.3	55°	14458.9	9037.7	1712.1	875.8	776.2	765.9	738.4	688.6	637.1	607.9
19002.7	57.5°	15108.0	9271.2	1454.5	803.7	726.4	729.8	688.6	644.0	595.9	565.0
20333.5	60°	15971.8	9583.8	1193.5	736.7	673.1	683.5	638.8	606.2	546.1	506.6
22615.7	62.5°	17352.4	10069.7	947.9	654.3	611.3	614.8	595.9	556.4	484.3	437.9
24307.1	65°	18448.0	9891.1	747.0	565.0	540.9	546.1	546.1	503.1	425.9	372.6
24398.1	67.5°	18324.4	8469.3	595.9	477.4	474.0	477.4	489.4	453.3	377.8	334.9
22540.1	70°	16880.2	6736.6	477.4	396.7	412.1	403.5	437.9	413.8	340.0	297.1
17474.3	72.5°	13773.8	4852.8	364.0	328.0	316.0	329.7	395.0	372.6	283.3	235.3
9255.8	75°	8048.6	2589.6	271.3	259.3	228.4	274.8	350.3	317.7	216.4	173.4
2836.8	77.5°	2620.5	903.3	199.2	190.6	170.0	221.5	298.8	267.9	176.9	137.4
831.1	80°	702.3	273.0	135.7	125.4	109.9	164.9	237.0	212.9	127.1	89.3
357.2	82.5°	281.6	115.1	79.0	70.4	60.1	113.3	187.2	171.7	94.4	56.7
111.6	85°	91.0	37.8	29.2	22.3	27.5	70.4	111.6	116.8	67.0	29.2
17.2	87.5°	12.0	5.2	5.2	6.9	5.2	12.0	34.3	32.6	18.9	3.4
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>
3951.3
3484.2
2819.7
2180.9
1780.7
1634.8
1585.0
1528.3
1449.3
1348.0
1238.1
1131.6
1047.5
990.8
947.9
951.3
920.4
850.0
781.3
722.9
683.5
656.0
604.5
561.5
501.4
434.5
367.5
328.0
291.9
230.1
168.3
132.2
87.6
56.7
22.3
0.0
0.0

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