

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: P941694

Luminaire Tested: **GALN-SB5B-835-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941694  
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-SB5B-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

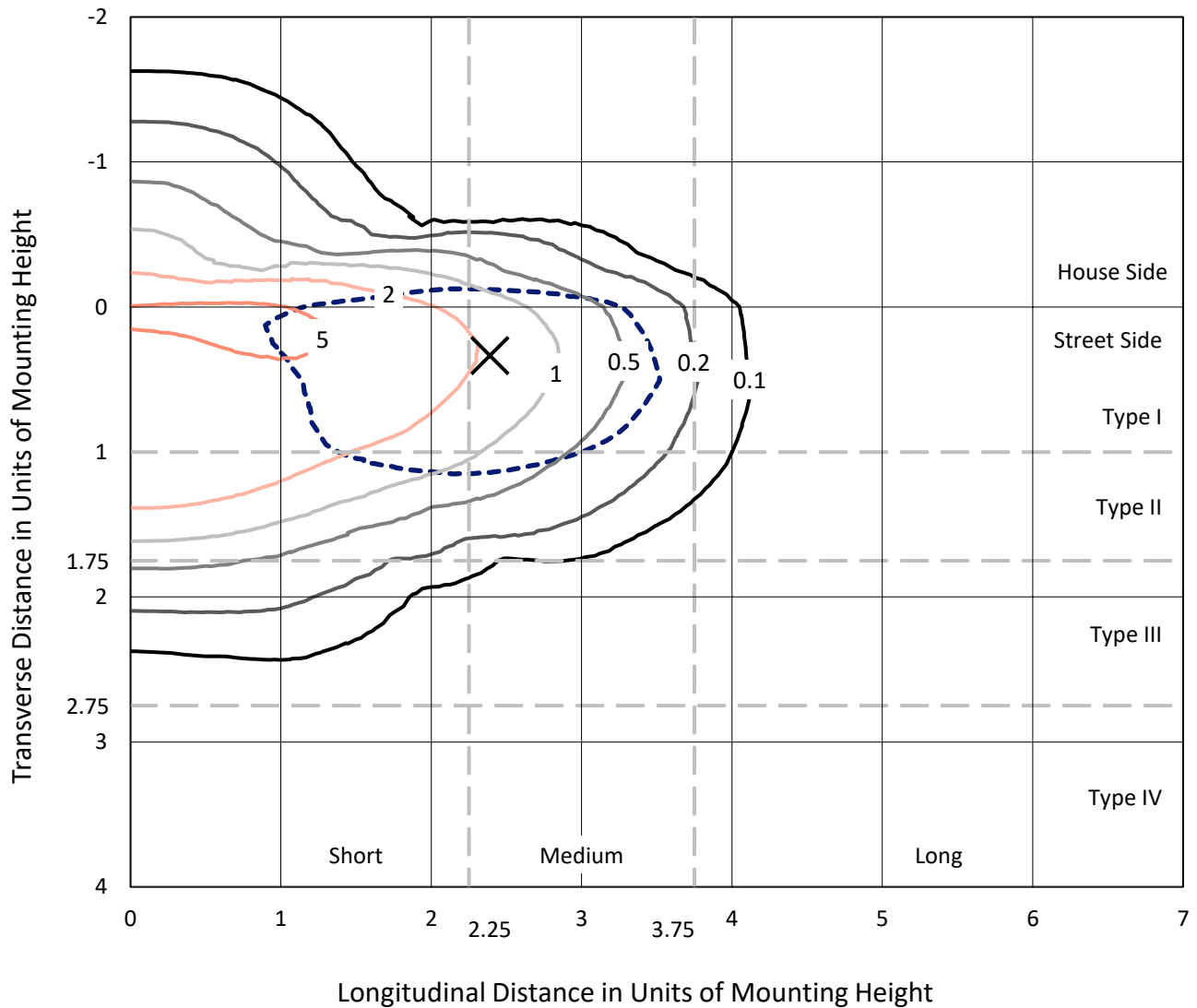
Lumens per Lamp: N/A  
Luminaire Lumens: 19266 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

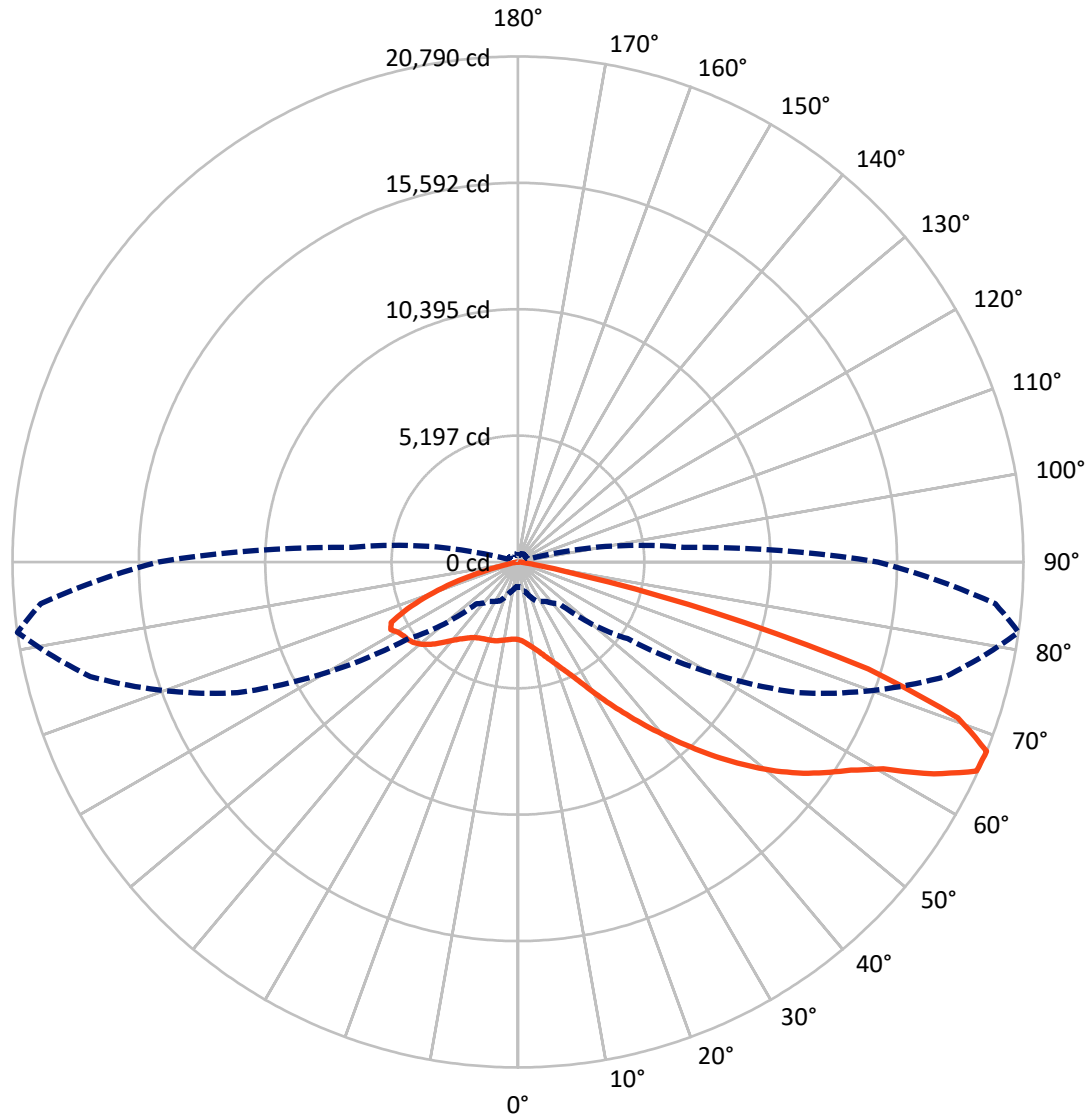
✕ Max cd  
 - - - 1/2 Max cd



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



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3489.9	0.0	3489.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	15776.1	0.0	15776.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	19266.0	0.0	19266.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.4	1.5
10°-20°	738.9	3.8
20°-30°	1183.5	6.1
30°-40°	2092.9	10.9
40°-50°	3666.9	19.0
50°-60°	4890.6	25.4
60°-70°	4552.9	23.6
70°-80°	1747.4	9.1
80°-90°	108.5	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°	19266.0	100.0
0°-180°	19266.0	100.0

**Coefficient of Utilization**



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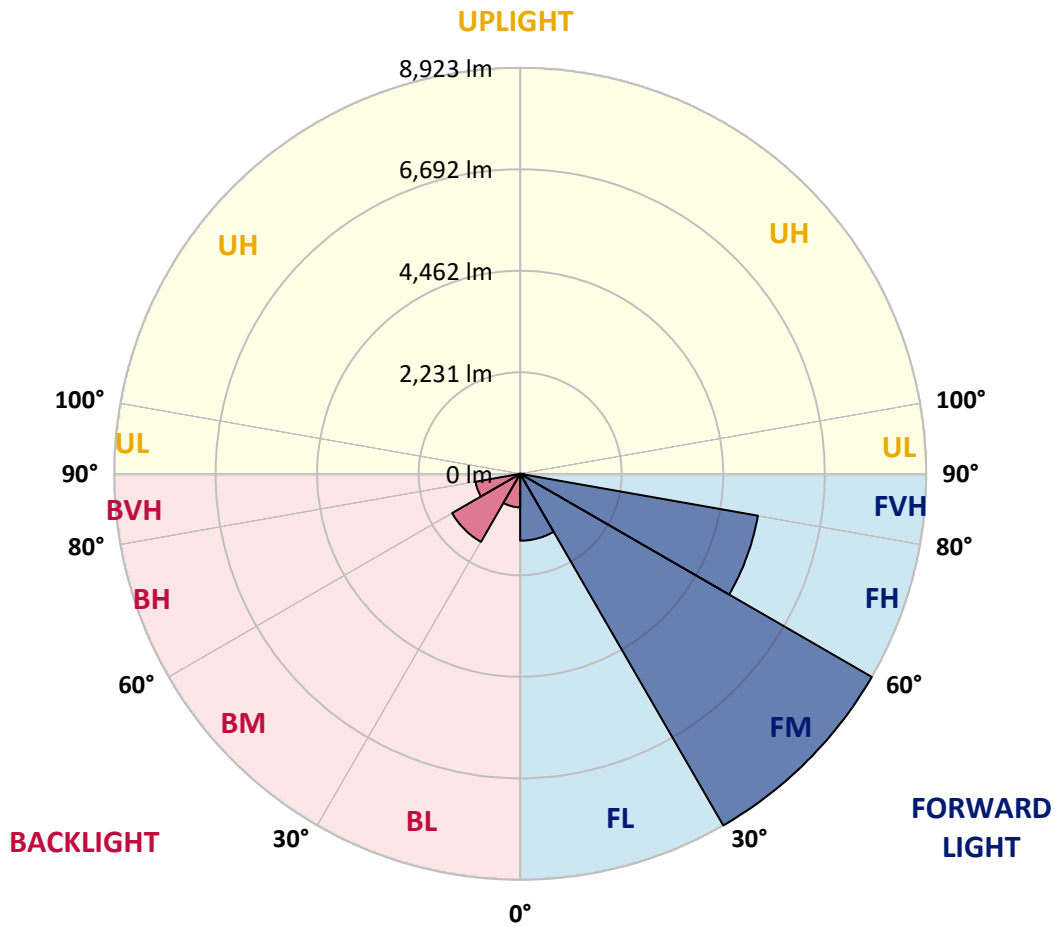
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.8	7.6			
FM (30°-60°)	8923.2	46.3			
FH (60°-80°)	5304.2	27.5			G3/7500
FVH (80°-90°)	78.9	0.4			G1/100
BL (0°-30°)	737.1	3.8	B2/1000		
BM (30°-60°)	1727.1	9.0	B2/2500		
BH (60°-80°)	996.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	29.6	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°	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7
2.5°	3373.4	3392.9	3381.8	3376.2	3366.5	3352.6	3341.5	3306.9	3270.8	3247.2
5°	3441.4	3460.8	3459.4	3465.0	3471.9	3476.1	3473.3	3434.5	3383.1	3342.9
7.5°	3383.1	3405.3	3423.4	3451.1	3499.7	3551.0	3576.0	3567.6	3514.9	3459.4
10°	3218.1	3241.7	3284.7	3349.9	3452.5	3563.5	3656.4	3699.4	3666.1	3605.1
12.5°	2915.7	2939.3	3023.9	3165.4	3337.4	3530.2	3707.7	3822.9	3831.2	3770.1
15°	2575.9	2599.4	2689.6	2867.1	3129.3	3438.6	3735.5	3953.2	4026.8	3974.1
17.5°	2365.0	2385.8	2453.8	2596.7	2869.9	3255.5	3725.8	4092.0	4259.8	4218.2
20°	2301.2	2319.2	2351.1	2451.0	2678.5	3065.5	3662.0	4222.3	4510.9	4487.3
22.5°	2369.2	2385.8	2395.5	2439.9	2582.8	2940.7	3581.5	4355.5	4802.2	4804.9
25°	2525.9	2542.6	2531.5	2559.2	2621.6	2901.8	3551.0	4512.2	5168.3	5198.9
27.5°	2783.9	2785.3	2758.9	2757.6	2767.3	2960.1	3582.9	4680.1	5630.3	5687.1
30°	3301.3	3280.5	3179.2	3069.7	3019.7	3134.9	3671.7	4878.4	6175.4	6276.6
32.5°	4098.9	4068.4	3882.5	3620.3	3356.8	3416.4	3831.2	5104.5	6769.1	6952.2
35°	4964.4	4956.1	4761.9	4372.1	3911.6	3817.3	4090.6	5401.4	7416.8	7708.1
37.5°	5769.0	5764.8	5653.8	5194.7	4634.3	4376.3	4506.7	5789.8	8110.4	8532.1
40°	6504.1	6516.6	6405.6	5995.1	5430.5	5093.4	5072.6	6269.7	8881.6	9429.5
42.5°	7139.4	7153.3	7040.9	6737.2	6217.0	5886.9	5767.6	6857.8	9634.8	10393.6
45°	7570.8	7656.8	7640.2	7397.4	7024.3	6681.7	6602.6	7595.8	10493.4	11415.9
47.5°	7692.9	7771.9	7896.8	7930.1	7702.6	7365.5	7459.8	8484.9	11361.8	12439.5
50°	7391.9	7465.4	7724.8	8070.2	8228.3	8124.3	8293.5	9437.8	12250.9	13460.4
52.5°	6798.2	6873.1	7200.5	7747.0	8392.0	8719.3	9129.9	10376.9	13112.3	14427.3
55°	5939.6	6018.6	6438.9	7057.6	8079.9	8964.8	9827.6	11314.6	13901.5	15297.0
57.5°	4771.6	4829.9	5266.8	6132.4	7294.8	8720.7	10342.2	12338.3	14645.0	16151.4
60°	3109.9	3161.2	3668.9	4634.3	5993.7	7905.1	10444.9	13479.9	15632.7	17262.5
62.5°	2068.2	2102.8	2403.8	3112.7	4221.0	6339.1	9844.3	14391.2	17080.8	19196.1
65°	1419.0	1453.7	1754.7	2248.5	2727.0	4193.2	8117.3	14270.5	18393.0	20731.6
67.5°	1012.6	1041.7	1296.9	1763.0	1973.8	2435.8	5502.6	12728.1	18204.3	20789.9
70°	725.5	742.1	952.9	1373.2	1568.8	1463.4	3059.9	9734.7	15939.2	19197.5
72.5°	507.7	513.2	661.6	1045.9	1263.7	1068.1	1456.5	6490.3	12055.3	15068.1
75°	344.0	350.9	445.3	767.1	1014.0	815.6	771.2	3480.2	7077.0	8340.7
77.5°	210.8	213.6	287.1	524.3	758.7	621.4	496.6	1474.5	2738.1	2688.2
80°	119.3	119.3	183.1	326.0	517.4	400.9	348.2	627.0	866.9	761.5
82.5°	66.6	68.0	133.2	202.5	342.6	237.2	191.4	289.9	374.5	331.5
85°	27.7	30.5	81.8	95.7	163.7	117.9	77.7	122.1	138.7	123.5
87.5°	2.8	4.2	25.0	18.0	19.4	23.6	11.1	23.6	19.4	19.4
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°
3191.7	0°	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7	3191.7
3238.9	2.5°	3212.5	3191.7	3139.0	3078.0	2997.5	2958.7	2906.0	2869.9	2839.4	2842.2
3319.3	5°	3275.0	3222.2	3104.3	2957.3	2774.2	2643.8	2505.1	2409.4	2331.7	2315.1
3430.3	7.5°	3361.0	3277.7	3071.0	2806.1	2496.8	2262.4	2052.9	1918.4	1822.7	1792.1
3564.9	10°	3471.9	3351.2	3028.0	2616.1	2170.8	1872.6	1647.9	1542.5	1477.3	1455.1
3723.0	12.5°	3600.9	3435.9	2971.2	2384.4	1835.1	1548.0	1405.1	1352.4	1331.6	1324.7
3917.2	15°	3763.2	3541.3	2885.2	2109.8	1550.8	1349.7	1288.6	1281.7	1284.5	1281.7
4150.2	17.5°	3956.0	3656.4	2745.1	1826.8	1359.4	1248.4	1226.2	1231.7	1238.7	1237.3
4411.0	20°	4166.9	3770.1	2566.1	1575.7	1229.0	1176.3	1163.8	1169.3	1174.9	1172.1
4712.0	22.5°	4406.8	3892.2	2367.8	1380.2	1141.6	1109.7	1095.8	1097.2	1097.2	1091.7
5093.4	25°	4694.0	4026.8	2159.7	1241.5	1075.0	1050.0	1033.4	1027.8	1019.5	1002.9
5556.7	27.5°	5036.6	4169.6	1960.0	1144.4	1022.3	998.7	979.3	965.4	944.6	916.9
6113.0	30°	5422.2	4343.0	1790.8	1083.3	980.7	957.1	934.9	914.1	883.6	848.9
6752.4	32.5°	5875.8	4528.9	1667.3	1043.1	943.2	918.3	891.9	866.9	833.6	799.0
7470.9	35°	6416.7	4753.6	1595.2	1015.4	914.1	880.8	851.7	823.9	799.0	768.5
8251.9	37.5°	7003.5	4992.2	1573.0	1001.5	894.7	843.4	810.1	790.6	787.9	769.8
9096.6	40°	7645.7	5275.2	1589.6	993.2	873.9	807.3	771.2	767.1	774.0	742.1
9999.6	42.5°	8325.4	5610.8	1617.4	983.5	844.7	771.2	736.6	736.6	731.0	686.6
10954.0	45°	9060.6	5997.8	1645.1	959.9	810.1	735.2	708.8	699.1	675.5	632.5
11913.8	47.5°	9801.3	6391.8	1665.9	916.9	768.5	704.6	681.1	658.9	624.2	585.4
12855.7	50°	10504.5	6745.5	1643.7	853.1	721.3	675.5	650.6	620.0	582.6	556.2
13747.6	52.5°	11132.9	7052.0	1549.4	778.2	671.4	645.0	622.8	590.9	560.4	532.6
14552.1	55°	11679.4	7300.3	1382.9	707.4	627.0	618.6	596.5	556.2	514.6	491.0
15349.7	57.5°	12203.7	7489.0	1174.9	649.2	586.7	589.5	556.2	520.2	481.3	456.4
16424.7	60°	12901.4	7741.4	964.0	595.1	543.7	552.1	516.0	489.6	441.1	409.2
18268.1	62.5°	14016.7	8134.0	765.7	528.5	493.8	496.6	481.3	449.4	391.2	353.7
19634.4	65°	14901.6	7989.7	603.4	456.4	436.9	441.1	441.1	406.4	344.0	301.0
19708.0	67.5°	14801.8	6841.2	481.3	385.6	382.8	385.6	395.3	366.2	305.2	270.5
18207.1	70°	13635.2	5441.6	385.6	320.4	332.9	326.0	353.7	334.3	274.6	240.0
14115.2	72.5°	11126.0	3920.0	294.1	264.9	255.2	266.3	319.0	301.0	228.9	190.0
7476.5	75°	6501.4	2091.8	219.2	209.5	184.5	221.9	283.0	256.6	174.8	140.1
2291.5	77.5°	2116.7	729.6	160.9	154.0	137.3	178.9	241.4	216.4	142.9	111.0
671.4	80°	567.3	220.5	109.6	101.3	88.8	133.2	191.4	172.0	102.6	72.1
288.5	82.5°	227.5	92.9	63.8	56.9	48.5	91.5	151.2	138.7	76.3	45.8
90.2	85°	73.5	30.5	23.6	18.0	22.2	56.9	90.2	94.3	54.1	23.6
13.9	87.5°	9.7	4.2	4.2	5.5	4.2	9.7	27.7	26.4	15.3	2.8
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>
3191.7
2814.4
2277.6
1761.6
1438.4
1320.5
1280.3
1234.5
1170.7
1088.9
1000.1
914.1
846.1
800.4
765.7
768.5
743.5
686.6
631.1
584.0
552.1
529.9
488.3
453.6
405.0
350.9
296.8
264.9
235.8
185.9
135.9
106.8
70.7
45.8
18.0
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