

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: P956059

Luminaire Tested: **GALN-SB8D-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

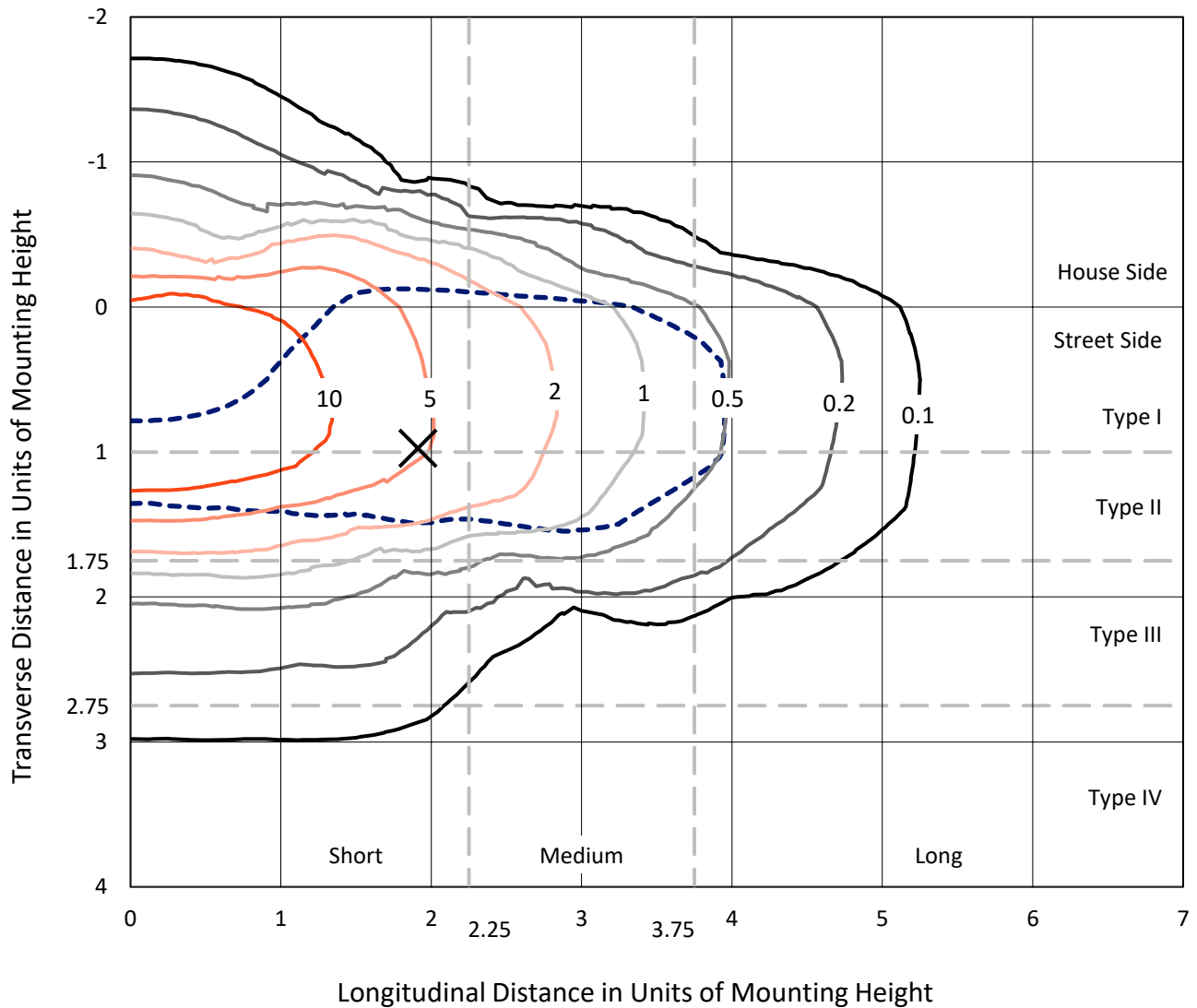
Lumens per Lamp: N/A  
Luminaire Lumens: 54683 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

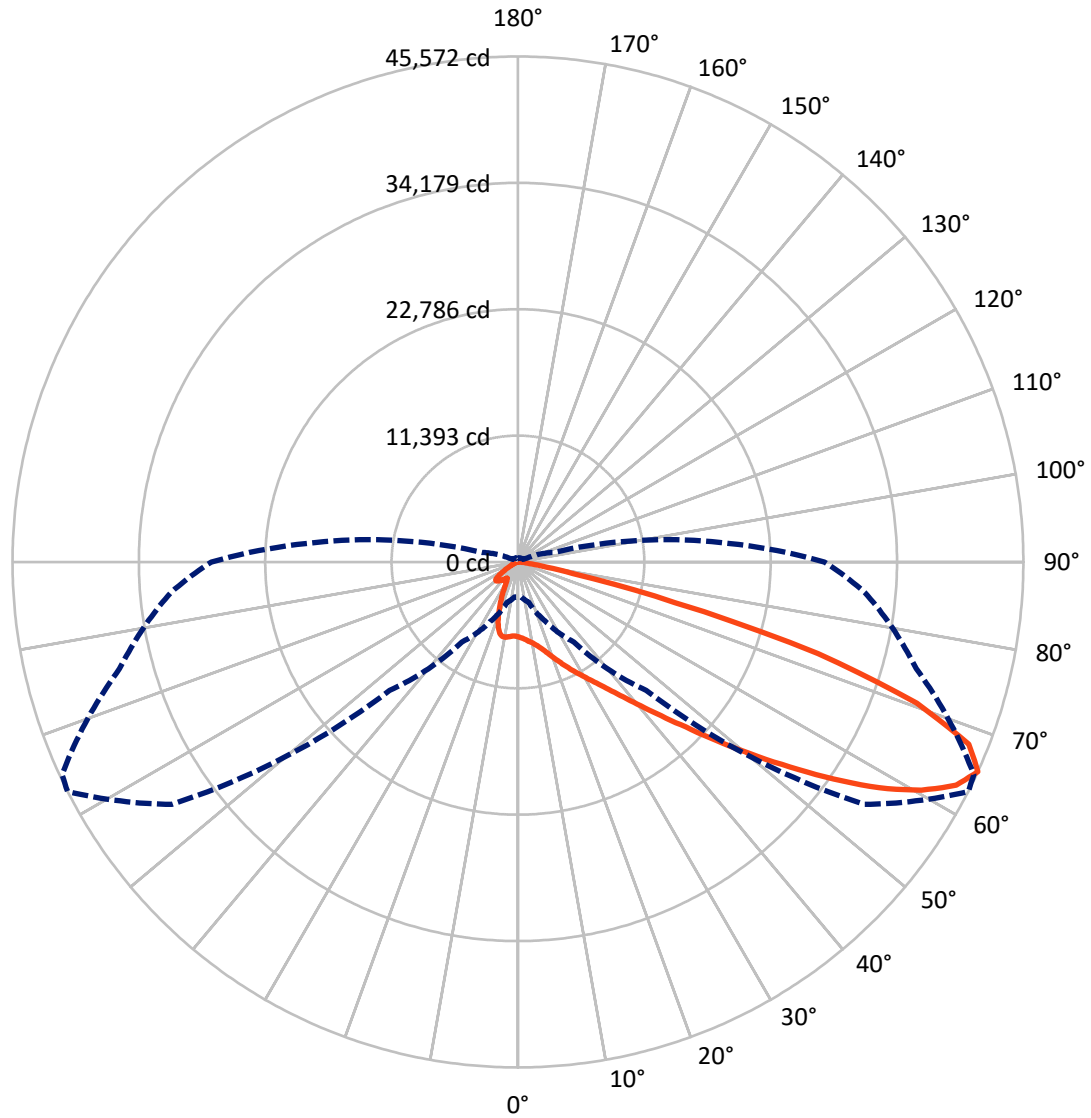
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8038.0	0.0	8038.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	46645.0	0.0	46645.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	54683.0	0.0	54683.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	635.9	1.2
10°-20°	1764.3	3.2
20°-30°	3072.1	5.6
30°-40°	5537.2	10.1
40°-50°	10982.0	20.1
50°-60°	14959.3	27.4
60°-70°	11940.4	21.8
70°-80°	5403.3	9.9
80°-90°	388.4	0.7
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°	54683.0	100.0
0°-180°	54683.0	100.0

**Coefficient of Utilization**



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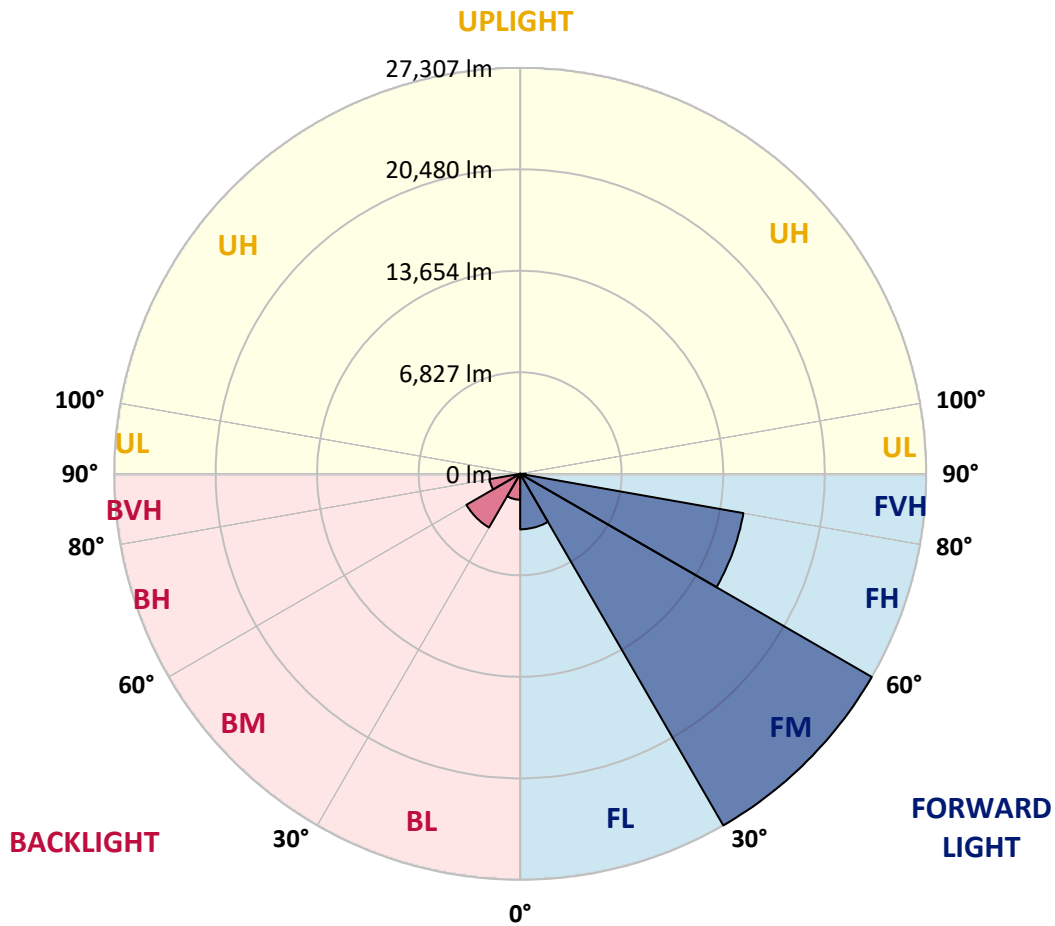
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3732.8	6.8			
FM (30°-60°)	27307.3	49.9			
FH (60°-80°)	15245.4	27.9			G5
FVH (80°-90°)	359.6	0.7			G3/500
BL (0°-30°)	1739.5	3.2	B3/2500		
BM (30°-60°)	4171.2	7.6	B3/5000		
BH (60°-80°)	2098.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	28.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9
2.5°	6906.9	6888.1	6914.4	6903.2	6895.6	6880.6	6873.1	6865.5	6850.5	6839.2
5°	6925.7	6914.4	6940.8	6963.3	6985.9	7008.5	7019.8	7034.8	7019.8	6989.7
7.5°	6767.7	6760.2	6816.6	6884.3	6985.9	7072.4	7166.5	7219.2	7222.9	7211.6
10°	6756.4	6737.6	6794.1	6876.8	7008.5	7162.7	7328.3	7441.1	7456.2	7505.1
12.5°	6933.3	6914.4	6993.4	7083.7	7219.2	7380.9	7584.1	7742.1	7764.6	7832.4
15°	7230.4	7204.1	7294.4	7411.0	7584.1	7768.4	7982.8	8125.8	8144.6	8227.4
17.5°	7576.5	7550.2	7655.5	7779.7	7967.8	8219.8	8468.1	8626.1	8648.7	8701.4
20°	8020.5	7986.6	8069.4	8182.2	8381.6	8682.6	8979.7	9205.5	9201.7	9201.7
22.5°	8535.8	8483.2	8554.6	8644.9	8833.0	9197.9	9592.9	9860.0	9860.0	9754.7
25°	9088.8	9036.2	9115.2	9197.9	9363.5	9777.3	10240.0	10571.0	10586.1	10405.5
27.5°	9781.0	9713.3	9773.5	9871.3	9969.1	10390.5	10939.7	11323.4	11331.0	11052.6
30°	11112.8	10920.9	10732.8	10627.5	10672.6	11090.2	11677.1	12102.2	12139.8	11756.1
32.5°	13550.5	13512.9	12850.8	11985.5	11534.1	11842.6	12500.9	13012.5	13035.1	12542.3
35°	17338.8	17293.6	16229.0	14581.3	13110.4	12850.8	13501.6	14107.3	14092.2	13535.5
37.5°	21860.6	21819.2	20416.0	18211.5	15830.2	14374.4	14791.9	15427.7	15521.8	14791.9
40°	25724.1	25569.9	24682.1	22556.6	19441.7	16902.4	16627.8	17049.1	17146.9	16281.7
42.5°	28650.9	28519.2	28067.8	26739.8	23813.1	20641.7	18790.9	18952.6	19061.7	18023.4
45°	30167.0	30136.9	30317.5	30193.3	28267.2	25231.3	21883.2	21209.8	21251.2	19953.3
47.5°	30381.4	30366.4	31190.2	32356.4	32096.8	30407.7	25852.0	24023.7	23877.0	22131.5
50°	29117.4	29087.3	30667.3	32853.0	34655.0	34756.5	30358.8	27195.0	26871.5	24384.9
52.5°	25080.8	25073.3	27669.0	31306.8	35554.1	38563.6	34813.0	30678.6	30136.9	26769.9
55°	19298.7	19437.9	22413.6	26713.5	33913.9	40395.7	38811.9	34545.9	33714.5	29170.1
57.5°	13670.9	13874.0	16815.9	20645.5	28827.7	39312.2	41516.7	38420.7	37525.3	31562.7
60°	7343.3	7523.9	10469.5	15040.2	21446.8	35271.9	42942.5	41783.8	40937.4	33834.9
62.5°	4375.1	4435.3	5654.2	9709.6	14506.0	26946.8	42336.8	44345.7	43649.8	35742.2
65°	3141.2	3152.5	3765.7	5928.8	8806.7	16372.0	38089.6	45572.1	45357.7	37179.2
67.5°	2644.6	2637.1	2892.9	3938.7	6000.3	8201.0	29192.6	43837.9	44748.2	38089.6
70°	2268.4	2279.7	2580.7	2885.4	4510.6	4642.2	14513.6	38168.6	40109.8	38330.4
72.5°	1689.1	1726.7	2005.1	2629.6	3404.6	3193.9	5010.9	28301.1	31810.9	36114.6
75°	1192.5	1211.3	1410.7	2212.0	2539.3	2324.9	2558.1	14630.2	19129.5	27687.9
77.5°	917.9	951.8	1068.4	1546.2	2501.7	1632.7	1565.0	5063.6	7779.7	16725.6
80°	496.6	556.8	771.2	1117.3	1756.8	1154.9	775.0	2016.4	2637.1	7821.1
82.5°	255.8	285.9	538.0	805.1	1000.7	1008.2	383.7	838.9	1087.2	2415.2
85°	101.6	124.1	361.1	443.9	515.4	496.6	173.0	338.6	391.2	669.6
87.5°	22.6	37.6	131.7	101.6	97.8	105.3	41.4	79.0	75.2	79.0
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°
6748.9	0°	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9	6748.9
6794.1	2.5°	6790.3	6775.2	6733.9	6688.7	6636.1	6606.0	6587.2	6583.4	6557.1	6538.2
6944.5	5°	6903.2	6888.1	6809.1	6715.1	6613.5	6534.5	6459.2	6391.5	6293.7	6274.9
7162.7	7.5°	7128.9	7087.5	6959.6	6831.7	6639.8	6410.3	6132.0	5812.2	5526.3	5439.8
7452.4	10°	7407.3	7350.8	7189.1	6963.3	6538.2	5913.8	5240.4	4615.9	4119.3	3980.1
7794.7	12.5°	7723.3	7674.4	7459.9	7042.3	6113.1	4980.8	3950.0	3175.1	2693.5	2573.2
8159.6	15°	8099.5	8028.0	7730.8	6922.0	5353.2	3784.5	2712.4	2253.4	2080.4	2057.8
8577.2	17.5°	8498.2	8381.6	7971.5	6489.3	4330.0	2689.8	2095.4	1963.7	1888.5	1865.9
8998.6	20°	8863.1	8712.6	8114.5	5834.8	3235.3	2095.4	1877.2	1790.7	1723.0	1696.6
9419.9	22.5°	9228.0	9013.6	8114.5	4943.2	2426.4	1858.4	1723.0	1644.0	1565.0	1531.1
9871.3	25°	9608.0	9322.1	7971.5	3950.0	1952.4	1704.2	1576.3	1489.7	1422.0	1380.6
10300.2	27.5°	9976.7	9581.7	7644.3	3009.5	1738.0	1568.7	1440.8	1358.1	1294.1	1264.0
10766.7	30°	10326.5	9837.5	7185.3	2283.5	1598.8	1437.1	1316.7	1245.2	1181.2	1151.2
11372.3	32.5°	10800.5	10161.0	6696.2	1873.4	1478.4	1312.9	1203.8	1136.1	1079.7	1057.1
12158.6	35°	11458.9	10638.8	6274.9	1839.6	1376.9	1211.3	1102.2	1038.3	981.9	963.1
13174.3	37.5°	12391.8	11410.0	6053.0	2065.3	1294.1	1121.1	1019.5	951.8	899.1	884.1
14464.6	40°	13543.0	12455.8	6173.3	2291.0	1237.7	1042.1	944.2	876.5	831.4	812.6
15946.9	42.5°	14908.6	13746.1	6839.2	2464.1	1200.1	974.3	872.8	797.5	767.4	759.9
17628.4	45°	16477.3	15164.4	7858.7	2648.4	1139.9	910.4	801.3	744.9	722.3	718.5
19456.7	47.5°	18260.4	16721.8	9039.9	2877.9	1079.7	850.2	744.9	707.2	688.4	680.9
21364.0	50°	20028.6	18290.5	10255.0	3005.8	1030.8	793.8	699.7	669.6	654.6	650.8
23380.4	52.5°	21879.4	19904.4	11236.9	2885.4	989.4	748.6	662.1	639.5	624.5	620.7
25238.8	55°	23643.8	21209.8	11406.2	2449.0	906.6	703.5	620.7	609.4	590.6	590.6
27123.6	57.5°	25163.6	21864.4	10209.9	1798.2	823.9	635.8	579.3	568.1	553.0	549.2
28824.0	60°	26559.3	21676.3	7881.3	1211.3	733.6	568.1	526.7	519.1	504.1	485.3
30302.4	62.5°	27345.5	20848.7	5390.9	790.0	643.3	496.6	466.5	462.7	428.9	391.2
31397.1	65°	27642.7	19148.3	3363.2	575.6	538.0	425.1	402.5	395.0	346.1	304.7
32017.8	67.5°	27383.1	16349.4	1696.6	455.2	425.1	353.6	331.1	331.1	297.2	259.6
31980.2	70°	26344.8	12256.4	714.8	364.9	327.3	270.9	270.9	285.9	252.0	210.7
30321.2	72.5°	24091.4	8246.2	380.0	278.4	244.5	191.9	222.0	233.2	199.4	158.0
24817.5	75°	19152.0	5029.7	263.3	206.9	154.2	135.4	169.3	176.8	135.4	105.3
17015.2	77.5°	13099.1	2889.2	176.8	131.7	97.8	79.0	116.6	109.1	71.5	48.9
6560.8	80°	5752.0	1203.8	101.6	60.2	37.6	30.1	41.4	30.1	22.6	15.0
899.1	82.5°	673.4	282.1	37.6	22.6	15.0	7.5	3.8	0.0	0.0	0.0
274.6	85°	139.2	33.9	18.8	7.5	3.8	0.0	0.0	0.0	0.0	0.0
48.9	87.5°	26.3	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
6748.9
6557.1
6267.4
5398.4
3927.5
2539.3
2035.2
1854.6
1681.6
1512.3
1365.6
1264.0
1154.9
1057.1
963.1
880.3
808.8
759.9
714.8
680.9
650.8
620.7
586.9
545.5
481.5
383.7
301.0
255.8
206.9
158.0
101.6
52.7
15.0
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