

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: P955723

Luminaire Tested: **GALN-SB8C-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955723  
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-SB8C-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

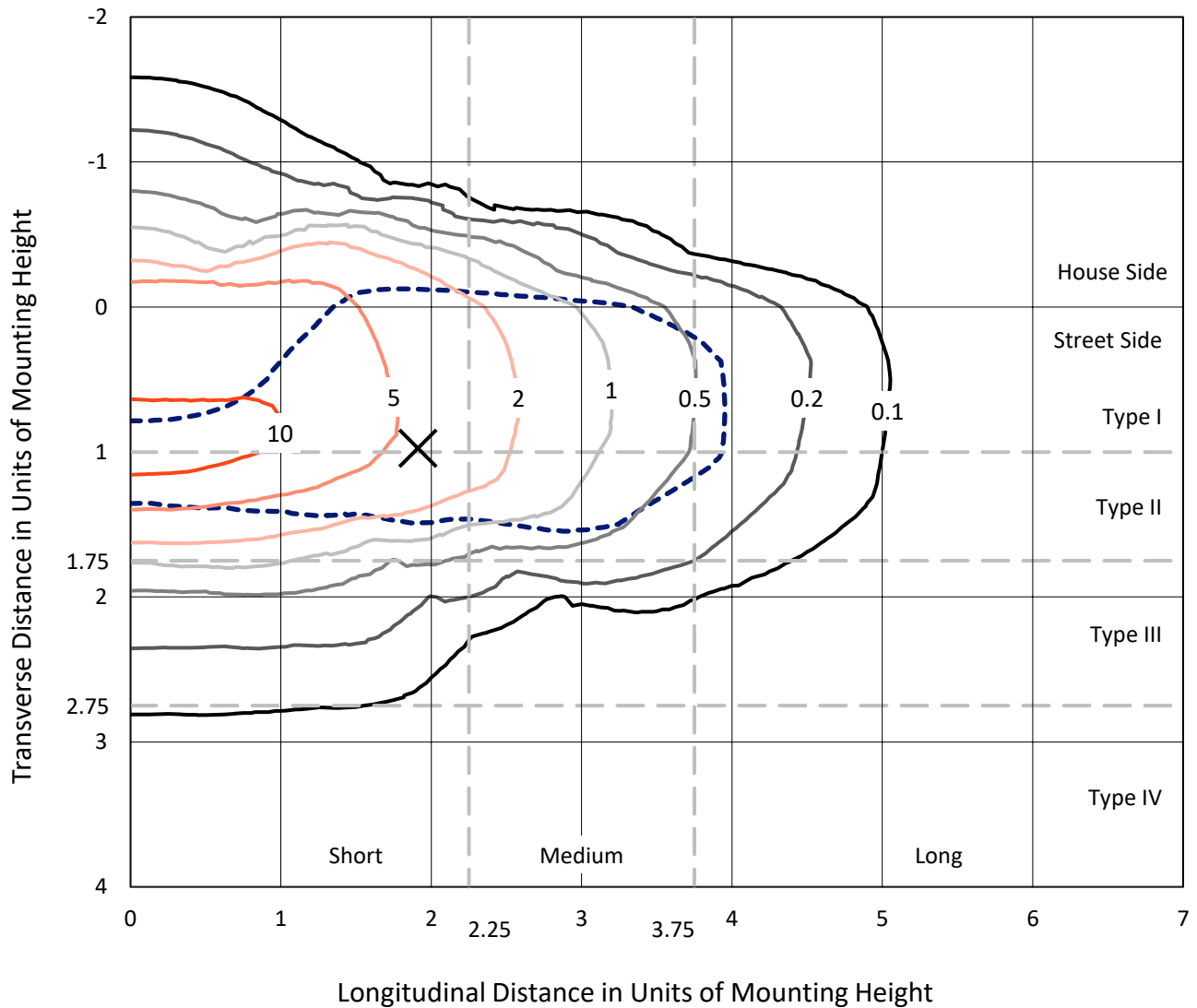
Lumens per Lamp: N/A  
Luminaire Lumens: 41586 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

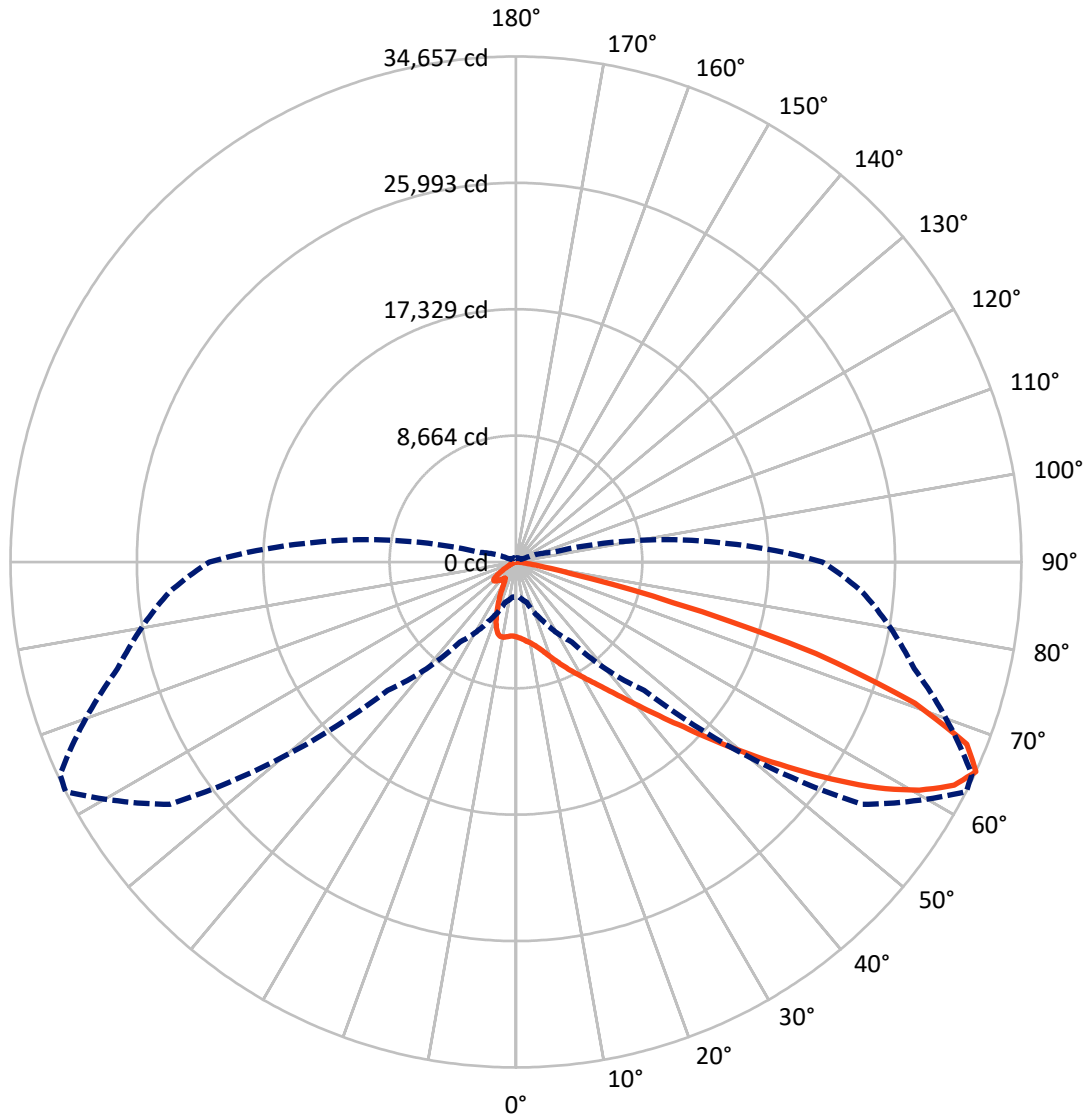
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	6112.8	0.0	6112.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	35473.2	0.0	35473.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	41586.0	0.0	41586.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.6	1.2
10°-20°	1341.8	3.2
20°-30°	2336.3	5.6
30°-40°	4211.0	10.1
40°-50°	8351.7	20.1
50°-60°	11376.5	27.4
60°-70°	9080.6	21.8
70°-80°	4109.2	9.9
80°-90°	295.4	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°	41586.0	100.0
0°-180°	41586.0	100.0

**Coefficient of Utilization**



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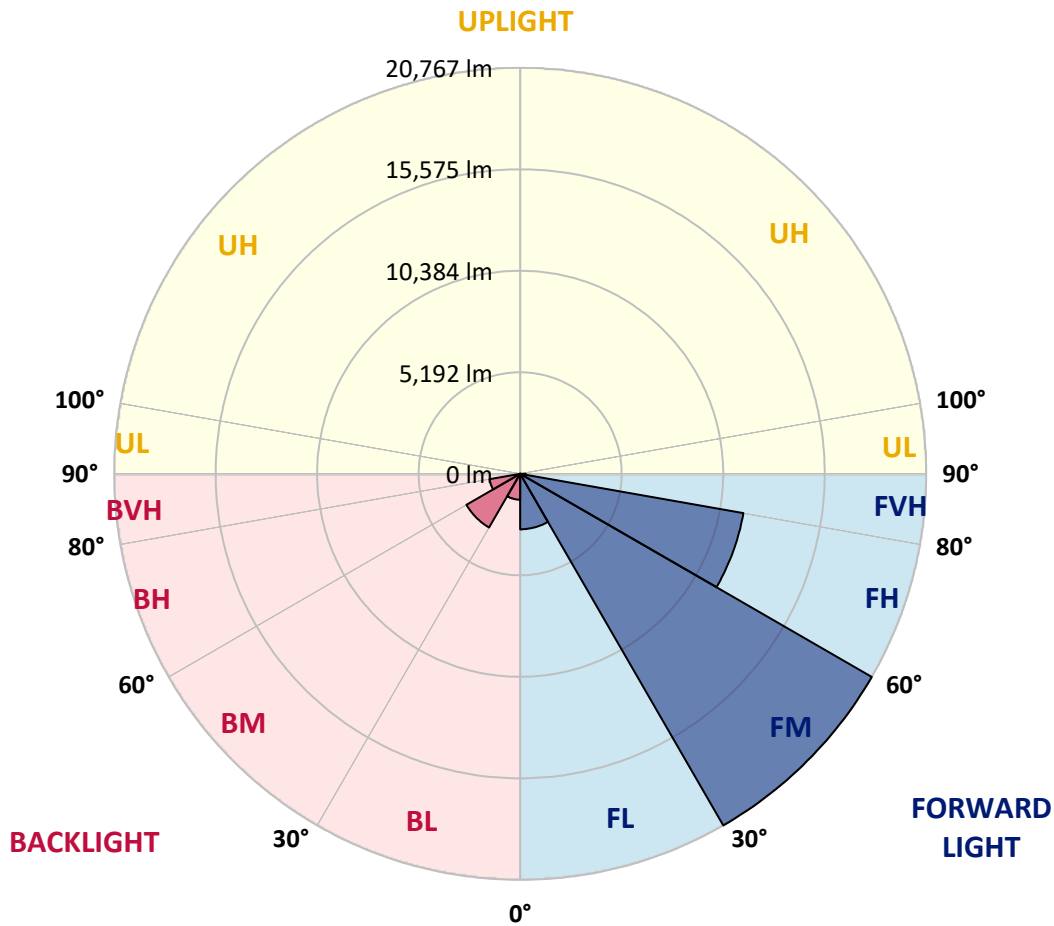
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2838.8	6.8			
FM (30°-60°)	20767.0	49.9			
FH (60°-80°)	11594.0	27.9			G4/12000
FVH (80°-90°)	273.4	0.7			G3/500
BL (0°-30°)	1322.9	3.2	B3/2500		
BM (30°-60°)	3172.2	7.6	B3/5000		
BH (60°-80°)	1595.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	21.9	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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5
2.5°	5252.7	5238.4	5258.4	5249.8	5244.1	5232.6	5226.9	5221.2	5209.7	5201.2
5°	5267.0	5258.4	5278.4	5295.6	5312.7	5329.9	5338.5	5349.9	5338.5	5315.6
7.5°	5146.8	5141.1	5184.0	5235.5	5312.7	5378.5	5450.1	5490.1	5493.0	5484.4
10°	5138.2	5123.9	5166.8	5229.8	5329.9	5447.2	5573.1	5658.9	5670.4	5707.5
12.5°	5272.7	5258.4	5318.5	5387.1	5490.1	5613.1	5767.6	5887.8	5904.9	5956.4
15°	5498.7	5478.7	5547.3	5636.0	5767.6	5907.8	6070.9	6179.6	6193.9	6256.8
17.5°	5761.9	5741.9	5822.0	5916.4	6059.4	6251.1	6439.9	6560.1	6577.3	6617.3
20°	6099.5	6073.7	6136.7	6222.5	6374.1	6603.0	6829.0	7000.7	6997.8	6997.8
22.5°	6491.4	6451.4	6505.7	6574.4	6717.5	6995.0	7295.4	7498.5	7498.5	7418.4
25°	6912.0	6871.9	6932.0	6995.0	7120.8	7435.5	7787.4	8039.2	8050.6	7913.3
27.5°	7438.4	7386.9	7432.7	7507.1	7581.4	7901.9	8319.6	8611.4	8617.1	8405.4
30°	8451.2	8305.3	8162.2	8082.1	8116.4	8434.0	8880.3	9203.6	9232.2	8940.4
32.5°	10305.0	10276.4	9772.9	9114.9	8771.6	9006.2	9506.9	9895.9	9913.1	9538.3
35°	13186.0	13151.7	12342.0	11088.9	9970.3	9772.9	10267.9	10728.5	10717.0	10293.6
37.5°	16624.8	16593.4	15526.2	13849.7	12038.8	10931.6	11249.2	11732.7	11804.2	11249.2
40°	19563.0	19445.7	18770.5	17154.1	14785.3	12854.1	12645.3	12965.7	13040.1	12382.1
42.5°	21788.8	21688.7	21345.4	20335.4	18109.7	15697.9	14290.3	14413.3	14496.3	13706.7
45°	22941.8	22918.9	23056.2	22961.8	21497.0	19188.2	16642.0	16129.9	16161.4	15174.3
47.5°	23104.8	23093.4	23719.9	24606.8	24409.4	23124.9	19660.3	18269.9	18158.3	16830.8
50°	22143.6	22120.7	23322.3	24984.5	26354.8	26432.1	23087.7	20681.6	20435.6	18544.5
52.5°	19073.8	19068.1	21042.1	23808.6	27038.6	29327.3	26475.0	23330.8	22918.9	20358.3
55°	14676.5	14782.4	17045.4	20315.4	25791.2	30720.6	29516.2	26271.9	25639.6	22183.6
57.5°	10396.6	10551.1	12788.3	15700.8	21923.3	29896.7	31573.2	29218.6	28537.7	24003.2
60°	5584.5	5721.8	7962.0	11438.0	16310.1	26824.0	32657.5	31776.3	31132.6	25731.2
62.5°	3327.3	3373.0	4300.0	7384.0	11031.7	20492.8	32196.8	33724.6	33195.3	27181.6
65°	2388.9	2397.5	2863.8	4508.8	6697.4	12450.7	28966.9	34657.2	34494.2	28274.5
67.5°	2011.2	2005.5	2200.1	2995.4	4563.2	6236.8	22200.8	33338.4	34030.7	28966.9
70°	1725.1	1733.7	1962.6	2194.3	3430.2	3530.4	11037.4	29026.9	30503.2	29150.0
72.5°	1284.6	1313.2	1524.9	1999.8	2589.1	2428.9	3810.8	21522.7	24192.0	27464.9
75°	906.9	921.2	1072.8	1682.2	1931.1	1768.1	1945.4	11126.1	14547.8	21056.4
77.5°	698.1	723.8	812.5	1175.8	1902.5	1241.6	1190.1	3850.8	5916.4	12719.7
80°	377.6	423.4	586.5	849.7	1336.1	878.3	589.4	1533.5	2005.5	5947.9
82.5°	194.5	217.4	409.1	612.2	761.0	766.7	291.8	638.0	826.8	1836.7
85°	77.2	94.4	274.6	337.6	391.9	377.6	131.6	257.5	297.5	509.2
87.5°	17.2	28.6	100.1	77.2	74.4	80.1	31.5	60.1	57.2	60.1
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°
5132.5	0°	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5
5166.8	2.5°	5164.0	5152.5	5121.1	5086.7	5046.7	5023.8	5009.5	5006.6	4986.6	4972.3
5281.3	5°	5249.8	5238.4	5178.3	5106.7	5029.5	4969.4	4912.2	4860.7	4786.3	4772.0
5447.2	7.5°	5421.5	5390.0	5292.7	5195.4	5049.5	4875.0	4663.3	4420.1	4202.7	4136.9
5667.5	10°	5633.2	5590.2	5467.2	5295.6	4972.3	4497.4	3985.3	3510.4	3132.7	3026.9
5927.8	12.5°	5873.5	5836.3	5673.2	5355.7	4649.0	3787.9	3004.0	2414.6	2048.4	1956.9
6205.3	15°	6159.6	6105.2	5879.2	5264.1	4071.1	2878.1	2062.7	1713.7	1582.1	1564.9
6522.9	17.5°	6462.8	6374.1	6062.3	4935.1	3292.9	2045.6	1593.5	1493.4	1436.2	1419.0
6843.3	20°	6740.3	6625.9	6171.0	4437.3	2460.4	1593.5	1427.6	1361.8	1310.3	1290.3
7163.8	22.5°	7017.8	6854.8	6171.0	3759.3	1845.3	1413.3	1310.3	1250.2	1190.1	1164.4
7507.1	25°	7306.8	7089.4	6062.3	3004.0	1484.8	1296.0	1198.7	1132.9	1081.4	1050.0
7833.2	27.5°	7587.2	7286.8	5813.4	2288.7	1321.7	1193.0	1095.7	1032.8	984.2	961.3
8188.0	30°	7853.2	7481.3	5464.4	1736.6	1215.9	1092.9	1001.3	947.0	898.3	875.4
8648.6	32.5°	8213.7	7727.4	5092.4	1424.7	1124.3	998.5	915.5	864.0	821.1	803.9
9246.5	35°	8714.4	8090.7	4772.0	1399.0	1047.1	921.2	838.3	789.6	746.7	732.4
10019.0	37.5°	9423.9	8677.2	4603.2	1570.6	984.2	852.6	775.3	723.8	683.8	672.3
11000.3	40°	10299.3	9472.5	4694.8	1742.3	941.2	792.5	718.1	666.6	632.3	618.0
12127.5	42.5°	11337.8	10453.8	5201.2	1873.9	912.6	741.0	663.7	606.5	583.6	577.9
13406.3	45°	12530.8	11532.4	5976.5	2014.1	866.9	692.3	609.4	566.5	549.3	546.4
14796.7	47.5°	13886.9	12716.8	6874.8	2188.6	821.1	646.6	566.5	537.9	523.5	517.8
16247.2	50°	15231.6	13909.8	7798.9	2285.9	783.9	603.7	532.1	509.2	497.8	494.9
17780.6	52.5°	16639.1	15137.2	8545.6	2194.3	752.4	569.3	503.5	486.4	474.9	472.1
19193.9	55°	17980.9	16129.9	8674.3	1862.5	689.5	535.0	472.1	463.5	449.2	449.2
20627.3	57.5°	19136.7	16627.7	7764.5	1367.5	626.5	483.5	440.6	432.0	420.6	417.7
21920.4	60°	20198.1	16484.6	5993.6	921.2	557.9	432.0	400.5	394.8	383.4	369.1
23044.7	62.5°	20796.1	15855.2	4099.7	600.8	489.2	377.6	354.8	351.9	326.1	297.5
23877.3	65°	21022.1	14562.1	2557.7	437.7	409.1	323.3	306.1	300.4	263.2	231.7
24349.3	67.5°	20824.7	12433.6	1290.3	346.2	323.3	268.9	251.8	251.8	226.0	197.4
24320.7	70°	20035.1	9320.9	543.6	277.5	248.9	206.0	206.0	217.4	191.7	160.2
23059.0	72.5°	18321.4	6271.1	289.0	211.7	186.0	145.9	168.8	177.4	151.6	120.2
18873.5	75°	14565.0	3825.1	200.3	157.4	117.3	103.0	128.7	134.5	103.0	80.1
12940.0	77.5°	9961.7	2197.2	134.5	100.1	74.4	60.1	88.7	83.0	54.4	37.2
4989.5	80°	4374.4	915.5	77.2	45.8	28.6	22.9	31.5	22.9	17.2	11.4
683.8	82.5°	512.1	214.6	28.6	17.2	11.4	5.7	2.9	0.0	0.0	0.0
208.8	85°	105.9	25.7	14.3	5.7	2.9	0.0	0.0	0.0	0.0	0.0
37.2	87.5°	20.0	5.7	2.9	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>
5132.5
4986.6
4766.3
4105.4
2986.8
1931.1
1547.8
1410.4
1278.8
1150.1
1038.5
961.3
878.3
803.9
732.4
669.5
615.1
577.9
543.6
517.8
494.9
472.1
446.3
414.8
366.2
291.8
228.9
194.5
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120.2
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