

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: P951964

Luminaire Tested: **GALN-SB5D-950-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951964  
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-SB5D-950-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

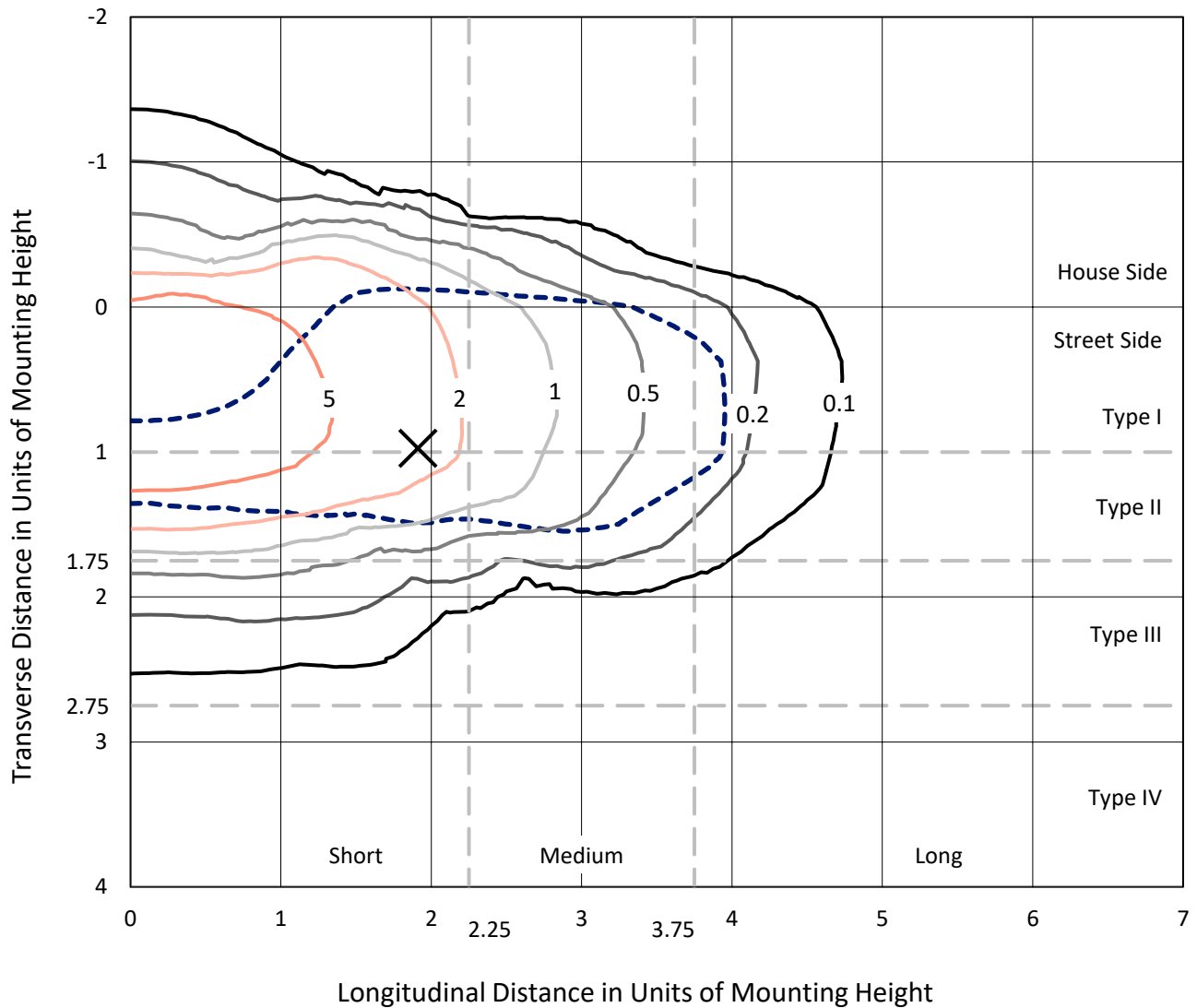
Lumens per Lamp: N/A  
Luminaire Lumens: 27329 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

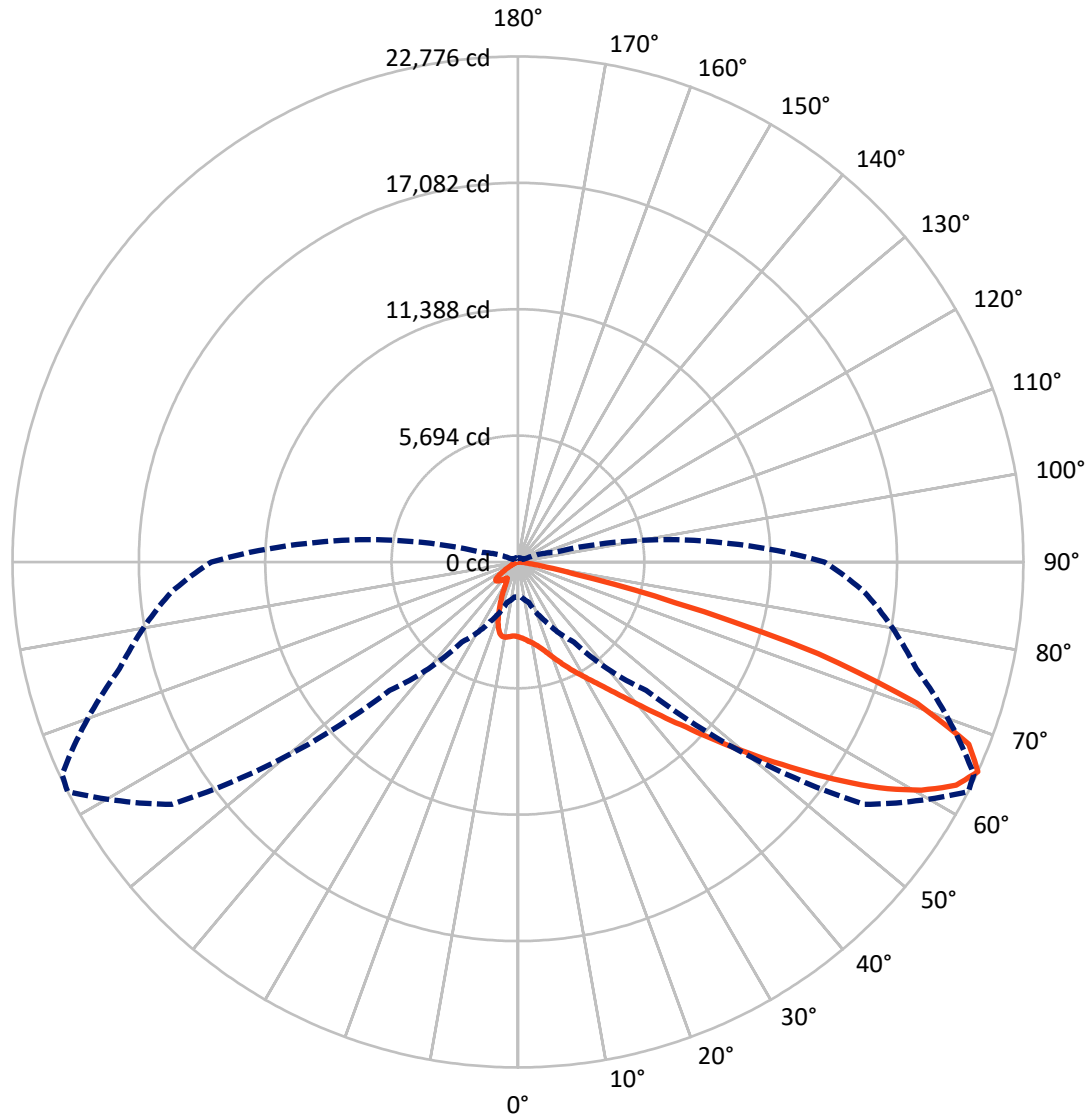
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	4017.2	0.0	4017.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	23311.9	0.0	23311.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	27329.0	0.0	27329.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.8	1.2
10°-20°	881.8	3.2
20°-30°	1535.4	5.6
30°-40°	2767.3	10.1
40°-50°	5488.5	20.1
50°-60°	7476.2	27.4
60°-70°	5967.5	21.8
70°-80°	2700.4	9.9
80°-90°	194.1	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°	27329.0	100.0
0°-180°	27329.0	100.0

**Coefficient of Utilization**



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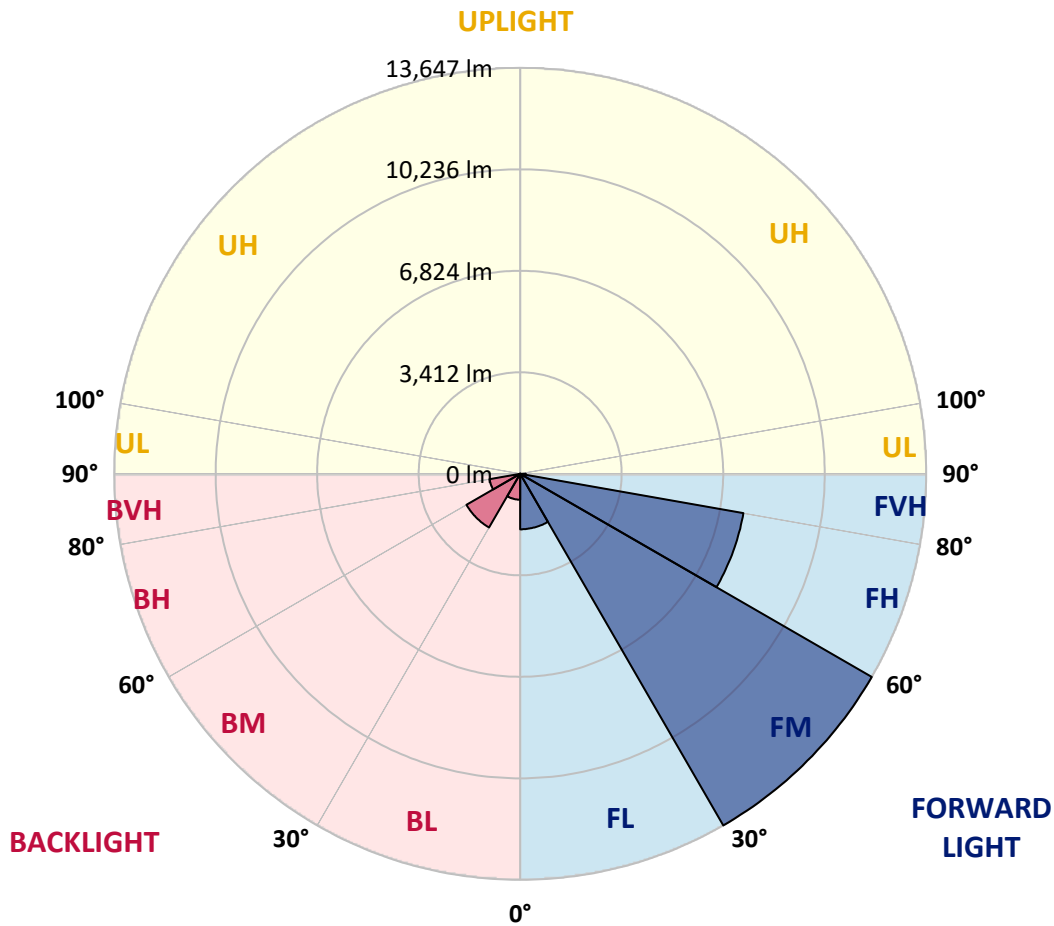
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.5	6.8			
FM (30°-60°)	13647.4	49.9			
FH (60°-80°)	7619.2	27.9			G4/12000
FVH (80°-90°)	179.7	0.7			G2/225
BL (0°-30°)	869.4	3.2	B2/1000		
BM (30°-60°)	2084.7	7.6	B2/2500		
BH (60°-80°)	1048.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.4	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°	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9
2.5°	3451.9	3442.5	3455.6	3450.0	3446.2	3438.7	3435.0	3431.2	3423.7	3418.0
5°	3461.3	3455.6	3468.8	3480.1	3491.4	3502.6	3508.3	3515.8	3508.3	3493.2
7.5°	3382.3	3378.6	3406.8	3440.6	3491.4	3534.6	3581.6	3607.9	3609.8	3604.2
10°	3376.7	3367.3	3395.5	3436.8	3502.6	3579.7	3662.5	3718.9	3726.4	3750.8
12.5°	3465.0	3455.6	3495.1	3540.2	3607.9	3688.8	3790.3	3869.3	3880.5	3914.4
15°	3613.6	3600.4	3645.5	3703.8	3790.3	3882.4	3989.6	4061.0	4070.4	4111.8
17.5°	3786.5	3773.4	3826.0	3888.1	3982.1	4108.0	4232.1	4311.1	4322.4	4348.7
20°	4008.4	3991.5	4032.8	4089.2	4188.9	4339.3	4487.8	4600.6	4598.7	4598.7
22.5°	4266.0	4239.6	4275.4	4320.5	4414.5	4596.9	4794.3	4927.8	4927.8	4875.1
25°	4542.3	4516.0	4555.5	4596.9	4679.6	4886.4	5117.7	5283.1	5290.6	5200.4
27.5°	4888.3	4854.4	4884.5	4933.4	4982.3	5192.9	5467.4	5659.1	5662.9	5523.8
30°	5553.8	5458.0	5364.0	5311.3	5333.9	5542.6	5835.9	6048.3	6067.1	5875.3
32.5°	6772.2	6753.4	6422.5	5990.0	5764.4	5918.6	6247.6	6503.3	6514.6	6268.3
35°	8665.4	8642.9	8110.8	7287.3	6552.2	6422.5	6747.7	7050.4	7042.9	6764.6
37.5°	10925.3	10904.6	10203.3	9101.6	7911.5	7183.9	7392.6	7710.3	7757.3	7392.6
40°	12856.2	12779.1	12335.4	11273.1	9716.4	8447.3	8310.1	8520.7	8569.5	8137.1
42.5°	14318.9	14253.1	14027.5	13363.8	11901.1	10316.2	9391.1	9472.0	9526.5	9007.6
45°	15076.6	15061.6	15151.8	15089.8	14127.1	12609.9	10936.6	10600.1	10620.7	9972.1
47.5°	15183.8	15176.2	15588.0	16170.8	16041.1	15196.9	12920.1	12006.4	11933.0	11060.7
50°	14552.0	14537.0	15326.6	16419.0	17319.6	17370.3	15172.5	13591.3	13429.6	12186.9
52.5°	12534.7	12530.9	13828.2	15646.3	17768.9	19273.0	17398.5	15332.3	15061.6	13378.9
55°	9645.0	9714.5	11201.7	13350.7	16949.2	20188.6	19397.1	17265.0	16849.5	14578.4
57.5°	6832.3	6933.8	8404.1	10318.0	14407.3	19647.1	20748.9	19201.5	18754.1	15774.1
60°	3670.0	3760.2	5232.3	7516.7	10718.5	17627.9	21461.4	20882.4	20459.3	16909.7
62.5°	2186.6	2216.6	2825.8	4852.6	7249.7	13467.2	21158.7	22162.7	21814.9	17862.9
65°	1569.9	1575.5	1882.0	2963.1	4401.3	8182.2	19036.1	22775.6	22668.5	18581.1
67.5°	1321.7	1318.0	1445.8	1968.5	2998.8	4098.6	14589.6	21908.9	22363.9	19036.1
70°	1133.7	1139.3	1289.8	1442.0	2254.3	2320.1	7253.5	19075.6	20045.7	19156.4
72.5°	844.2	863.0	1002.1	1314.2	1701.5	1596.2	2504.3	14144.1	15898.2	18049.0
75°	596.0	605.4	705.0	1105.5	1269.1	1161.9	1278.5	7311.7	9560.4	13837.6
77.5°	458.7	475.7	534.0	772.7	1250.3	816.0	782.1	2530.6	3888.1	8359.0
80°	248.2	278.3	385.4	558.4	878.0	577.2	387.3	1007.7	1318.0	3908.7
82.5°	127.8	142.9	268.9	402.3	500.1	503.9	191.8	419.3	543.4	1207.0
85°	50.8	62.0	180.5	221.9	257.6	248.2	86.5	169.2	195.5	334.7
87.5°	11.3	18.8	65.8	50.8	48.9	52.6	20.7	39.5	37.6	39.5
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°
3372.9	0°	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9	3372.9
3395.5	2.5°	3393.6	3386.1	3365.4	3342.8	3316.5	3301.5	3292.1	3290.2	3277.0	3267.6
3470.7	5°	3450.0	3442.5	3403.0	3356.0	3305.2	3265.7	3228.1	3194.3	3145.4	3136.0
3579.7	7.5°	3562.8	3542.1	3478.2	3414.3	3318.4	3203.7	3064.6	2904.8	2761.9	2718.6
3724.5	10°	3701.9	3673.7	3592.9	3480.1	3267.6	2955.5	2619.0	2306.9	2058.7	1989.2
3895.6	12.5°	3859.9	3835.4	3728.3	3519.6	3055.2	2489.3	1974.1	1586.8	1346.2	1286.0
4078.0	15°	4047.9	4012.2	3863.6	3459.4	2675.4	1891.4	1355.6	1126.2	1039.7	1028.4
4286.6	17.5°	4247.2	4188.9	3984.0	3243.2	2164.0	1344.3	1047.2	981.4	943.8	932.5
4497.2	20°	4429.5	4354.3	4055.4	2916.0	1616.9	1047.2	938.2	894.9	861.1	847.9
4707.8	22.5°	4611.9	4504.7	4055.4	2470.5	1212.7	928.8	861.1	821.6	782.1	765.2
4933.4	25°	4801.8	4658.9	3984.0	1974.1	975.8	851.7	787.8	744.5	710.7	690.0
5147.7	27.5°	4986.0	4788.6	3820.4	1504.1	868.6	784.0	720.1	678.7	646.8	631.7
5380.9	30°	5160.9	4916.5	3591.0	1141.2	799.0	718.2	658.0	622.3	590.4	575.3
5683.6	32.5°	5397.8	5078.2	3346.6	936.3	738.9	656.2	601.6	567.8	539.6	528.3
6076.5	35°	5726.8	5316.9	3136.0	919.4	688.1	605.4	550.9	518.9	490.7	481.3
6584.1	37.5°	6193.1	5702.4	3025.1	1032.2	646.8	560.3	509.5	475.7	449.3	441.8
7229.0	40°	6768.4	6225.0	3085.3	1145.0	618.6	520.8	471.9	438.1	415.5	406.1
7969.8	42.5°	7450.9	6869.9	3418.0	1231.5	599.8	486.9	436.2	398.6	383.5	379.8
8810.2	45°	8234.9	7578.7	3927.5	1323.6	569.7	455.0	400.5	372.3	361.0	359.1
9723.9	47.5°	9126.0	8357.1	4517.9	1438.3	539.6	424.9	372.3	353.5	344.1	340.3
10677.1	50°	10009.7	9141.1	5125.2	1502.2	515.1	396.7	349.7	334.7	327.1	325.3
11684.9	52.5°	10934.7	9947.7	5615.9	1442.0	494.5	374.1	330.9	319.6	312.1	310.2
12613.6	55°	11816.5	10600.1	5700.5	1224.0	453.1	351.6	310.2	304.6	295.2	295.2
13555.6	57.5°	12576.0	10927.2	5102.6	898.7	411.7	317.7	289.5	283.9	276.4	274.5
14405.4	60°	13273.6	10833.2	3938.8	605.4	366.6	283.9	263.2	259.5	251.9	242.5
15144.3	62.5°	13666.5	10419.6	2694.2	394.8	321.5	248.2	233.1	231.3	214.3	195.5
15691.4	65°	13815.0	9569.8	1680.8	287.7	268.9	212.5	201.2	197.4	173.0	152.3
16001.6	67.5°	13685.3	8171.0	847.9	227.5	212.5	176.7	165.4	165.4	148.5	129.7
15982.8	70°	13166.4	6125.4	357.2	182.4	163.6	135.4	135.4	142.9	126.0	105.3
15153.7	72.5°	12040.2	4121.2	189.9	139.1	122.2	95.9	110.9	116.6	99.6	79.0
12403.1	75°	9571.6	2513.7	131.6	103.4	77.1	67.7	84.6	88.4	67.7	52.6
8503.7	77.5°	6546.5	1443.9	88.4	65.8	48.9	39.5	58.3	54.5	35.7	24.4
3278.9	80°	2874.7	601.6	50.8	30.1	18.8	15.0	20.7	15.0	11.3	7.5
449.3	82.5°	336.5	141.0	18.8	11.3	7.5	3.8	1.9	0.0	0.0	0.0
137.2	85°	69.6	16.9	9.4	3.8	1.9	0.0	0.0	0.0	0.0	0.0
24.4	87.5°	13.2	3.8	1.9	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

180°
3372.9
3277.0
3132.3
2698.0
1962.8
1269.1
1017.1
926.9
840.4
755.8
682.5
631.7
577.2
528.3
481.3
439.9
404.2
379.8
357.2
340.3
325.3
310.2
293.3
272.6
240.7
191.8
150.4
127.8
103.4
79.0
50.8
26.3
7.5
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