

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: P943555

Luminaire Tested: **GALN-SB8A-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32294 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

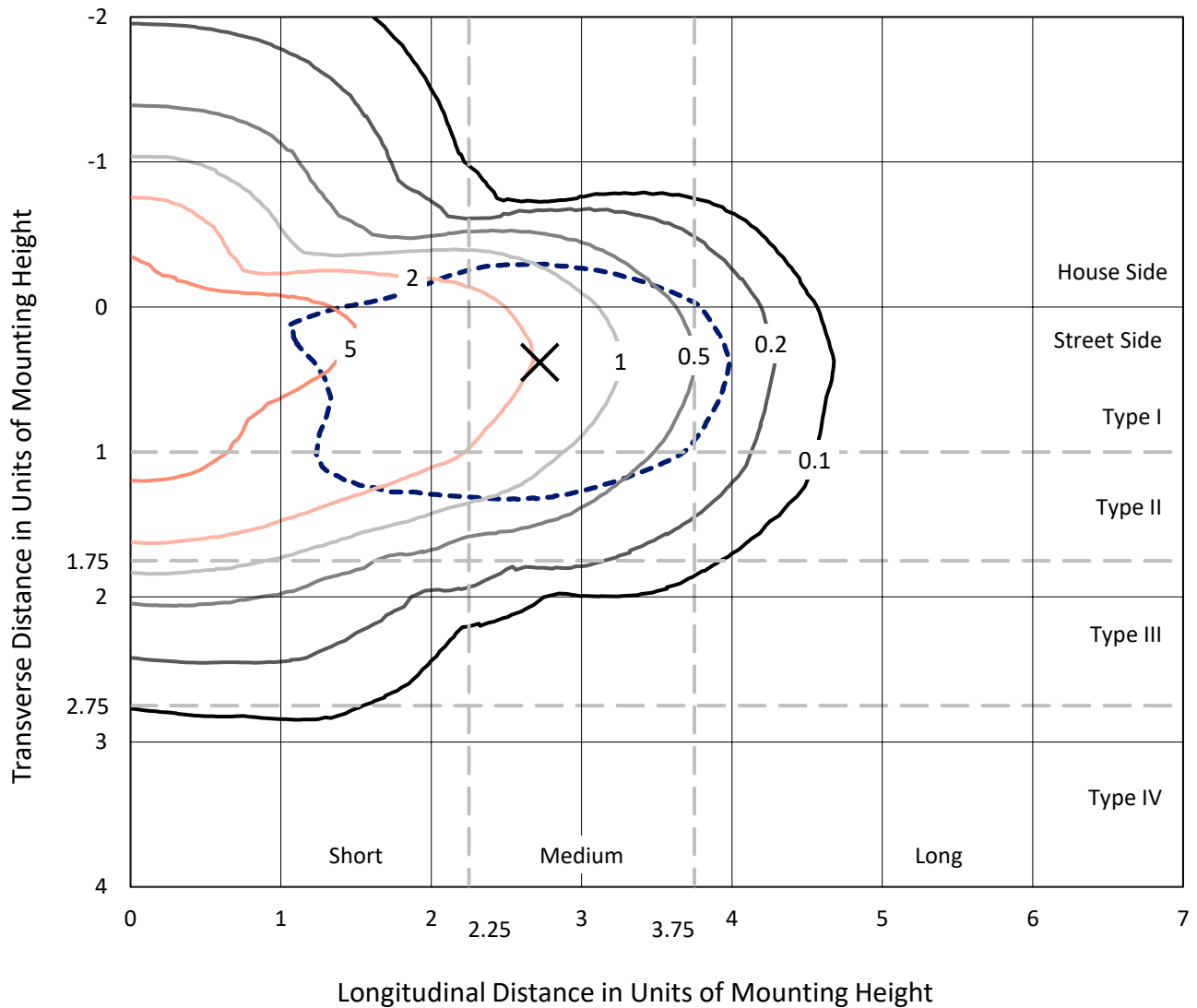
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

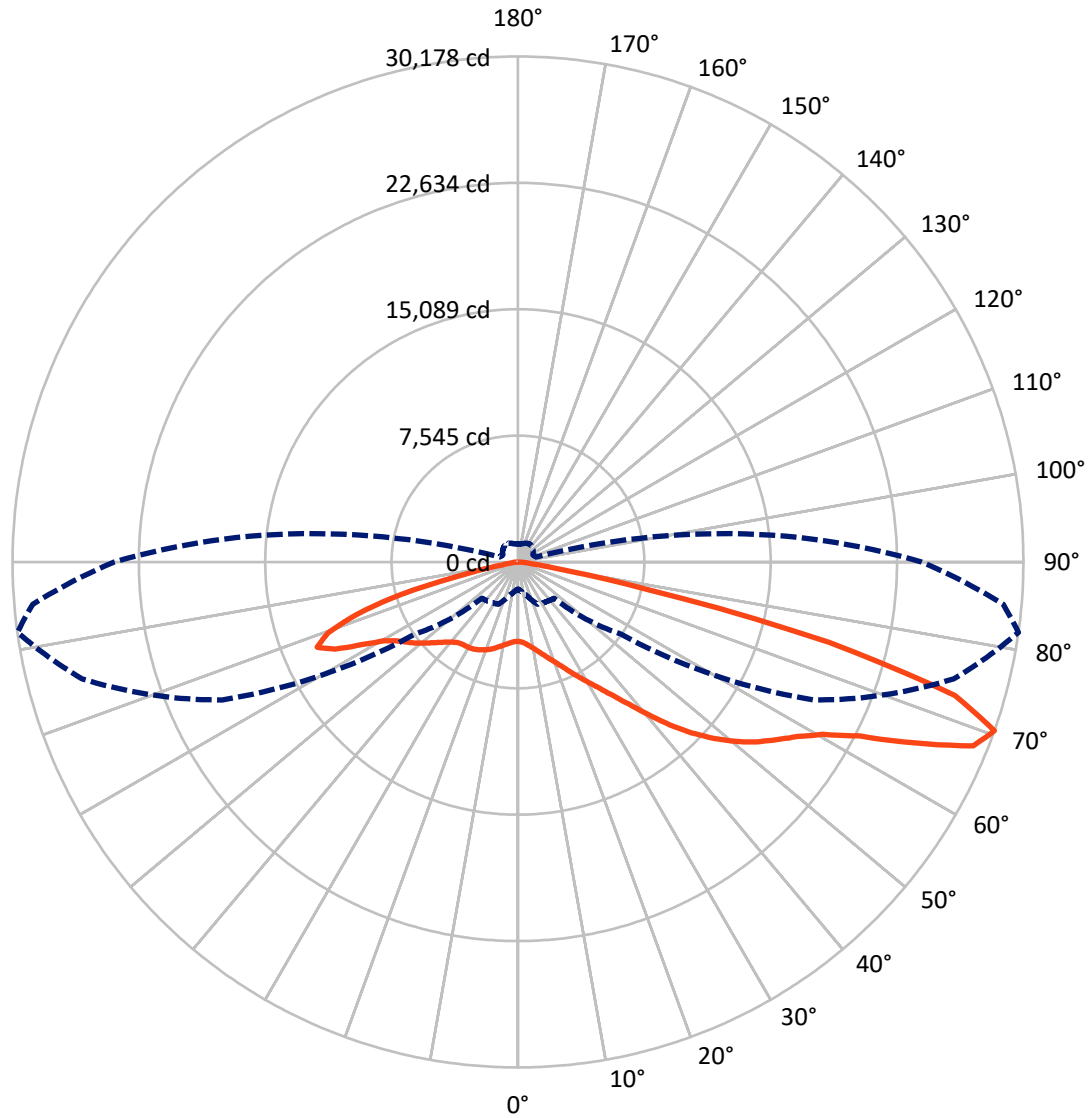
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7961.3	0.0	7961.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	24332.7	0.0	24332.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	32294.0	0.0	32294.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.0	1.4
10°-20°	1284.4	4.0
20°-30°	2148.6	6.7
30°-40°	3356.7	10.4
40°-50°	5345.9	16.6
50°-60°	7439.5	23.0
60°-70°	7782.1	24.1
70°-80°	4067.3	12.6
80°-90°	422.3	1.3
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°	32294.0	100.0
0°-180°	32294.0	100.0

**Coefficient of Utilization**



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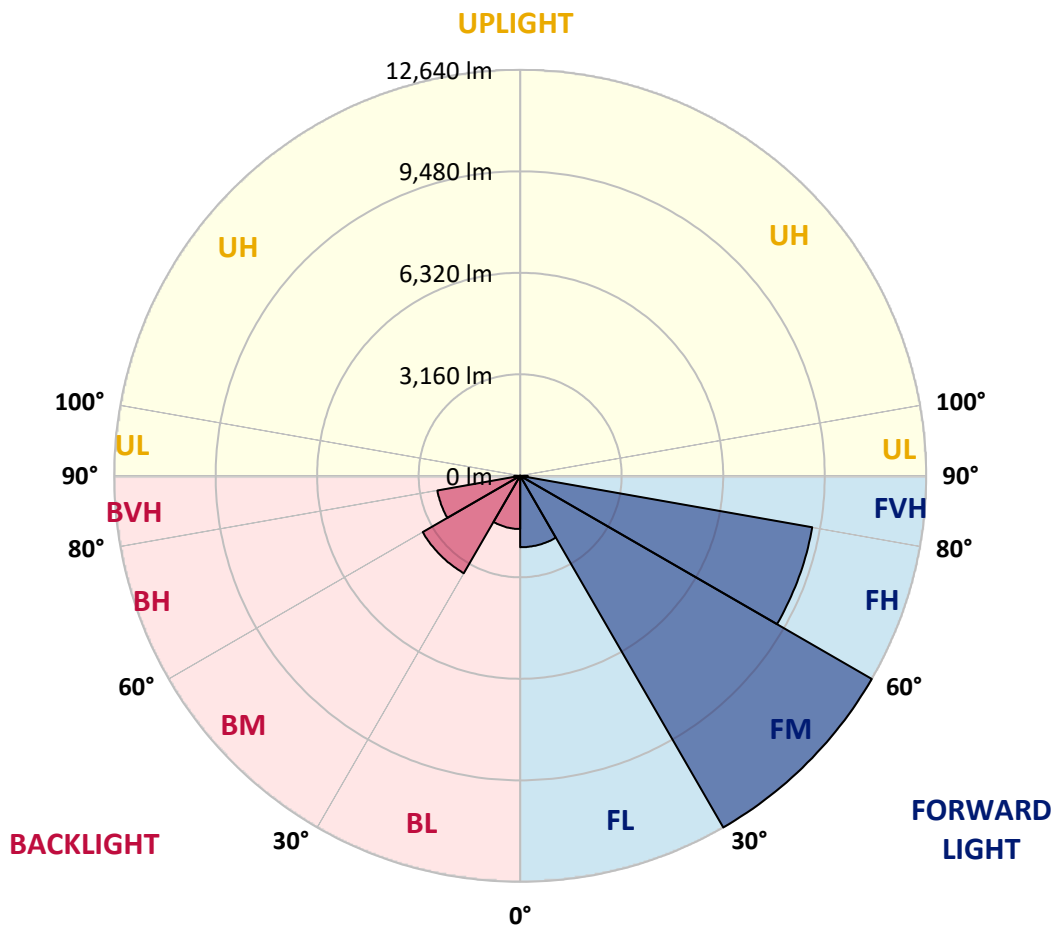
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2223.8	6.9			
FM (30°-60°)	12639.5	39.1			
FH (60°-80°)	9233.0	28.6			G4/12000
FVH (80°-90°)	236.4	0.7			G3/500
BL (0°-30°)	1656.2	5.1	B3/2500		
BM (30°-60°)	3502.6	10.8	B3/5000		
BH (60°-80°)	2616.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	185.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7
2.5°	4847.8	4875.2	4866.7	4858.1	4858.1	4846.1	4844.4	4827.2	4813.5	4791.3
5°	4909.5	4938.6	4935.2	4942.1	4964.3	4969.5	4974.6	4964.3	4936.9	4909.5
7.5°	4854.7	4887.2	4897.5	4938.6	5007.2	5068.9	5115.1	5134.0	5108.3	5068.9
10°	4669.6	4705.6	4741.6	4839.2	4960.9	5106.6	5229.9	5303.6	5298.5	5260.8
12.5°	4294.3	4332.0	4409.1	4599.3	4822.1	5079.1	5308.8	5463.0	5516.1	5488.7
15°	3994.4	4027.0	4085.2	4280.6	4570.2	4960.9	5337.9	5637.8	5773.2	5757.7
17.5°	3985.9	3999.6	4035.6	4128.1	4350.9	4775.8	5307.0	5809.1	6067.9	6066.2
20°	4136.7	4141.8	4162.4	4181.2	4308.0	4635.3	5228.2	5951.4	6398.6	6398.6
22.5°	4345.7	4342.3	4362.9	4345.7	4407.4	4623.3	5178.5	6076.5	6767.0	6794.5
25°	4659.3	4642.2	4637.0	4597.6	4609.6	4734.7	5233.4	6218.7	7204.0	7260.6
27.5°	5077.4	5050.0	5031.2	4940.3	4909.5	4964.3	5401.3	6390.1	7690.7	7788.4
30°	5622.4	5572.7	5545.2	5387.6	5276.2	5284.8	5654.9	6618.0	8199.6	8357.3
32.5°	6366.1	6288.9	6215.3	5956.5	5752.6	5685.8	5982.2	6933.3	8751.4	9003.3
35°	7198.9	7137.2	7058.4	6659.1	6345.5	6191.3	6424.3	7373.7	9397.4	9796.7
37.5°	8000.8	7947.7	7985.4	7447.3	7042.9	6818.5	7003.5	7964.9	10194.3	10783.7
40°	8830.2	8789.1	8794.2	8280.2	7808.9	7557.0	7706.1	8706.9	11107.6	11957.6
42.5°	9731.6	9700.7	9597.9	9142.1	8612.6	8377.8	8514.9	9563.7	12087.8	13294.2
45°	10740.9	10722.1	10626.1	10103.4	9496.8	9232.9	9418.0	10509.6	13073.1	14552.0
47.5°	11613.1	11628.6	11616.6	11176.2	10547.3	10160.0	10381.0	11496.6	13989.9	15734.4
50°	12033.0	12113.5	12231.7	12094.7	11704.0	11309.8	11352.7	12449.4	14863.9	16843.1
52.5°	11813.6	11966.1	12288.3	12507.6	12658.4	12576.2	12461.4	13395.3	15686.4	17843.8
55°	10996.2	11210.4	11745.1	12274.6	13044.0	13642.0	13792.8	14444.0	16488.4	18724.6
57.5°	9507.1	9855.0	10334.8	11405.8	12701.3	14157.8	15345.4	15898.9	17338.3	19665.4
60°	6953.8	7419.9	8016.3	9609.9	11501.7	13882.0	16666.6	18133.4	18546.4	20883.8
62.5°	4450.2	4738.1	5286.5	6787.6	8962.2	12468.2	17071.0	20926.6	20594.2	22881.8
65°	3046.8	3231.9	3734.0	4577.1	5793.7	9280.9	15988.0	23020.6	23846.6	26048.6
67.5°	2214.0	2354.5	2782.9	3521.5	3775.1	5492.1	12406.5	22924.7	27008.2	29311.3
70°	1614.2	1713.6	2073.5	2782.9	2904.6	3055.4	7515.9	19487.2	26939.7	30178.4
72.5°	1196.1	1264.6	1506.3	2159.1	2351.1	2063.2	3720.2	14163.0	23149.2	27296.1
75°	865.4	916.8	1095.0	1651.9	1881.5	1571.4	1855.8	8276.7	16147.3	19201.0
77.5°	661.5	700.9	817.4	1209.8	1506.3	1179.0	1151.5	3807.6	7656.4	7694.1
80°	531.2	556.9	620.3	851.7	1155.0	882.5	750.6	1537.1	2419.6	2047.8
82.5°	390.7	433.5	524.4	598.0	826.0	608.3	457.5	776.3	920.2	791.7
85°	222.8	251.9	317.0	428.4	527.8	371.9	262.2	344.4	428.4	351.3
87.5°	78.8	102.8	111.4	167.9	229.6	154.2	101.1	99.4	140.5	104.5
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°
4734.7	0°	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7	4734.7
4786.1	2.5°	4769.0	4760.4	4726.1	4679.9	4631.9	4585.6	4570.2	4537.6	4515.4	4503.4
4897.5	5°	4864.9	4837.5	4757.0	4654.2	4546.2	4429.7	4347.4	4272.0	4217.2	4165.8
5050.0	7.5°	5002.0	4954.0	4815.2	4635.3	4443.4	4249.8	4105.8	3996.1	3922.5	3874.5
5228.2	10°	5161.4	5087.7	4875.2	4606.2	4309.7	4032.1	3862.5	3768.2	3722.0	3696.3
5432.1	12.5°	5344.7	5240.2	4936.9	4539.4	4105.8	3788.8	3672.3	3644.8	3646.6	3648.3
5689.2	15°	5570.9	5425.3	4986.6	4393.7	3840.2	3602.0	3581.4	3626.0	3672.3	3694.5
5980.5	17.5°	5826.3	5620.6	4995.2	4153.8	3579.7	3482.1	3547.2	3643.1	3713.4	3744.2
6306.1	20°	6100.5	5819.4	4933.5	3814.5	3365.5	3384.4	3500.9	3624.3	3701.4	3740.8
6677.9	22.5°	6414.0	6031.9	4786.1	3458.1	3190.7	3278.1	3415.2	3535.2	3615.7	3655.1
7114.9	25°	6772.2	6270.1	4554.8	3158.2	3039.9	3158.2	3295.3	3394.7	3459.8	3495.8
7603.3	27.5°	7169.7	6518.6	4246.3	2920.0	2908.0	3034.8	3147.9	3225.0	3259.3	3286.7
8122.5	30°	7569.0	6744.8	3872.8	2740.1	2793.2	2913.1	2993.7	3027.9	3038.2	3043.4
8701.7	32.5°	8000.8	6940.1	3480.3	2591.0	2683.5	2794.9	2842.9	2858.3	2810.3	2777.8
9404.3	35°	8523.5	7149.2	3096.5	2472.7	2575.6	2671.5	2686.9	2673.2	2616.7	2549.9
10285.1	37.5°	9169.5	7409.6	2789.8	2388.8	2474.5	2537.9	2519.0	2515.6	2520.7	2441.9
11344.1	40°	9961.2	7748.9	2565.3	2323.7	2392.2	2405.9	2352.8	2381.9	2407.6	2287.7
12505.9	42.5°	10840.3	8158.5	2423.0	2279.1	2323.7	2291.1	2208.8	2241.4	2238.0	2080.3
13672.9	45°	11736.5	8604.0	2373.3	2246.5	2260.3	2195.1	2104.3	2112.9	2040.9	1898.7
14791.9	47.5°	12627.6	9082.1	2404.2	2219.1	2181.4	2107.7	2037.5	1999.8	1893.5	1787.3
15864.6	50°	13501.5	9584.2	2517.3	2164.3	2073.5	2030.6	1979.2	1912.4	1799.3	1708.5
16879.1	52.5°	14312.1	10089.7	2644.1	2073.5	1938.1	1963.8	1931.2	1854.1	1742.7	1650.2
17838.7	55°	15079.8	10595.3	2693.8	1948.4	1811.3	1905.5	1886.7	1744.5	1610.8	1535.4
18842.9	57.5°	15916.0	11203.6	2639.0	1789.0	1708.5	1838.7	1766.7	1609.1	1532.0	1475.4
20150.3	60°	17074.4	12158.1	2520.7	1591.9	1610.8	1739.3	1615.9	1550.8	1466.9	1403.4
22110.7	62.5°	18998.8	13938.5	2330.5	1396.6	1496.0	1591.9	1544.0	1478.8	1393.2	1331.5
25462.5	65°	21843.4	16413.0	1972.4	1244.1	1367.5	1448.0	1466.9	1401.7	1312.6	1247.5
28399.7	67.5°	24242.4	17965.5	1492.6	1117.3	1235.5	1331.5	1384.6	1321.2	1226.9	1163.5
29086.8	70°	24110.5	16837.9	1139.6	992.2	1119.0	1216.7	1285.2	1235.5	1134.4	1074.4
26420.4	72.5°	21415.0	14085.9	921.9	865.4	1000.7	1096.7	1179.0	1141.3	1038.4	980.2
19355.2	75°	15732.7	9998.9	736.9	736.9	853.4	971.6	1062.4	1038.4	944.2	903.1
8125.9	77.5°	6631.7	4194.9	577.5	611.8	709.4	834.5	947.6	956.2	873.9	925.3
2148.9	80°	1763.3	1156.7	440.4	481.5	556.9	688.9	824.2	820.8	731.7	683.7
798.5	82.5°	671.7	455.8	313.6	339.3	402.7	527.8	652.9	673.4	584.3	505.5
313.6	85°	258.8	195.4	193.6	203.9	234.8	349.6	493.5	510.7	440.4	373.6
87.4	87.5°	66.8	58.3	72.0	68.5	108.0	186.8	282.7	293.0	269.0	155.9
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>
4734.7
4517.1
4186.3
3884.8
3703.1
3651.7
3692.8
3751.1
3751.1
3665.4
3506.0
3297.0
3055.4
2788.0
2553.3
2447.0
2291.1
2078.6
1903.8
1787.3
1701.6
1651.9
1528.5
1470.3
1400.0
1331.5
1250.9
1165.3
1079.6
980.2
891.1
839.7
635.7
505.5
385.6
222.8
0.0

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