

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: P942365

Luminaire Tested: **GALN-SB6B-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942365  
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-SB6B-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30402 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

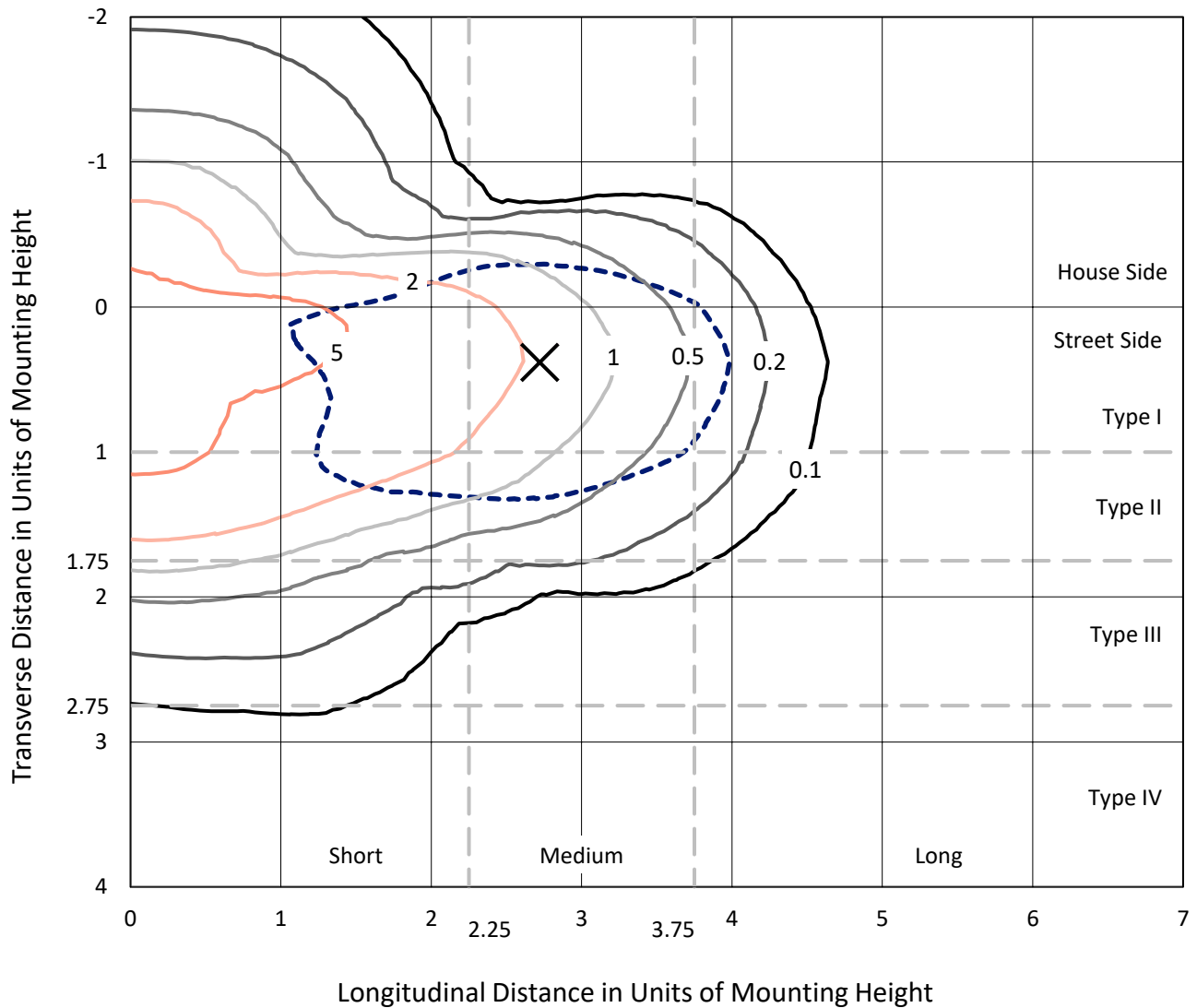
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

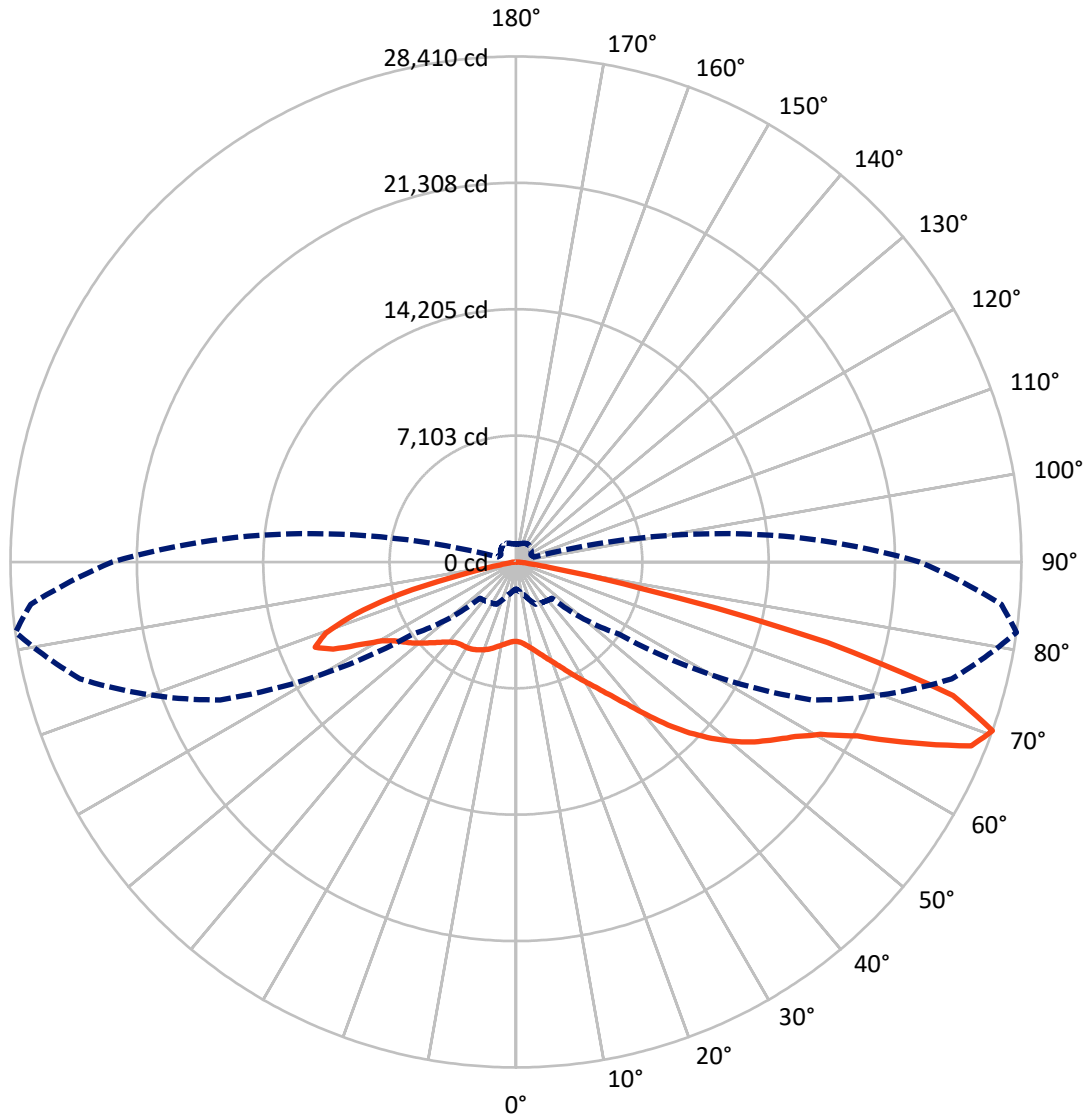
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	7494.8	0.0	7494.8
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	22907.2	0.0	22907.2
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	30402.0	0.0	30402.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.8	1.4
10°-20°	1209.1	4.0
20°-30°	2022.7	6.7
30°-40°	3160.0	10.4
40°-50°	5032.7	16.6
50°-60°	7003.7	23.0
60°-70°	7326.2	24.1
70°-80°	3829.0	12.6
80°-90°	397.6	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°	30402.0	100.0
0°-180°	30402.0	100.0

**Coefficient of Utilization**



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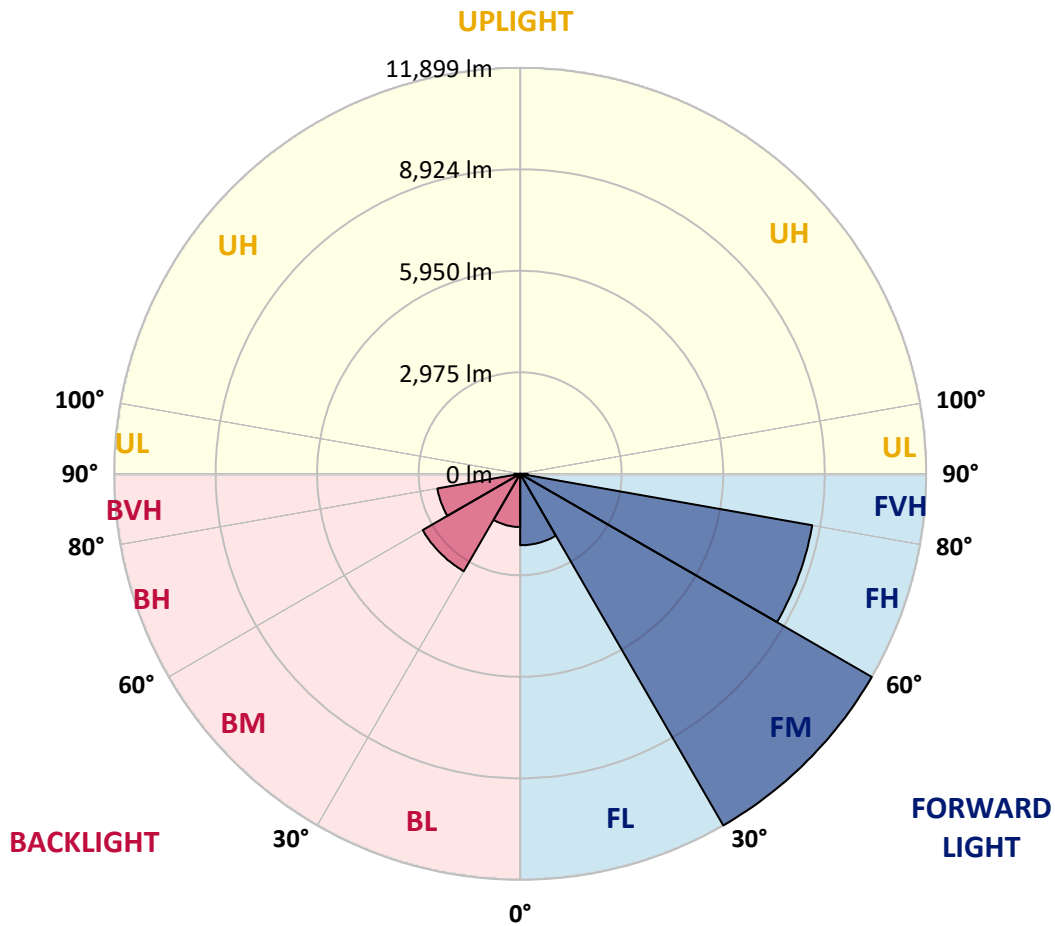
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2093.5	6.9			
FM (30°-60°)	11899.0	39.1			
FH (60°-80°)	8692.0	28.6			G4/12000
FVH (80°-90°)	222.6	0.7			G2/225
BL (0°-30°)	1559.2	5.1	B3/2500		
BM (30°-60°)	3297.4	10.8	B3/5000		
BH (60°-80°)	2463.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	175.0	0.6			G2/225
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3
2.5°	4563.8	4589.6	4581.5	4573.5	4573.5	4562.2	4560.6	4544.4	4531.5	4510.5
5°	4621.9	4649.3	4646.1	4652.5	4673.5	4678.3	4683.2	4673.5	4647.7	4621.9
7.5°	4570.2	4600.9	4610.6	4649.3	4713.8	4771.9	4815.4	4833.2	4809.0	4771.9
10°	4396.0	4429.9	4463.8	4555.7	4670.3	4807.4	4923.5	4992.9	4988.1	4952.6
12.5°	4042.7	4078.2	4150.8	4329.9	4539.6	4781.6	4997.7	5142.9	5192.9	5167.1
15°	3760.4	3791.1	3845.9	4029.8	4302.4	4670.3	5025.2	5307.5	5434.9	5420.4
17.5°	3752.3	3765.2	3799.1	3886.2	4096.0	4496.0	4996.1	5468.8	5712.4	5710.8
20°	3894.3	3899.1	3918.5	3936.2	4055.6	4363.7	4921.9	5602.7	6023.7	6023.7
22.5°	4091.1	4087.9	4107.2	4091.1	4149.2	4352.5	4875.1	5720.5	6370.6	6396.4
25°	4386.3	4370.2	4365.4	4328.3	4339.5	4457.3	4926.8	5854.4	6782.0	6835.2
27.5°	4780.0	4754.1	4736.4	4650.9	4621.9	4673.5	5084.9	6015.7	7240.1	7332.1
30°	5293.0	5246.2	5220.4	5071.9	4967.1	4975.2	5323.6	6230.2	7719.2	7867.7
32.5°	5993.1	5920.5	5851.1	5607.5	5415.6	5352.6	5631.7	6527.1	8238.7	8475.8
35°	6777.1	6719.0	6644.8	6269.0	5973.7	5828.5	6047.9	6941.7	8846.9	9222.8
37.5°	7532.1	7482.1	7517.6	7011.0	6630.3	6419.0	6593.2	7498.2	9597.0	10152.0
40°	8312.9	8274.2	8279.0	7795.1	7351.4	7114.3	7254.6	8196.7	10456.9	11257.0
42.5°	9161.4	9132.4	9035.6	8606.5	8108.0	7887.0	8016.1	9003.4	11379.6	12515.3
45°	10111.6	10093.9	10003.5	9511.5	8940.4	8692.0	8866.2	9893.8	12307.2	13699.4
47.5°	10932.8	10947.3	10936.0	10521.4	9929.3	9564.8	9772.9	10823.1	13170.3	14812.5
50°	11328.0	11403.8	11515.1	11386.1	11018.3	10647.2	10687.6	11720.0	13993.0	15856.3
52.5°	11121.5	11265.1	11568.4	11774.9	11916.8	11839.4	11731.3	12610.5	14767.4	16798.4
55°	10352.0	10553.7	11057.0	11555.5	12279.8	12842.8	12984.8	13597.8	15522.4	17627.6
57.5°	8950.1	9277.6	9729.3	10737.6	11957.2	13328.4	14446.3	14967.4	16322.5	18513.3
60°	6546.4	6985.2	7546.6	9046.9	10827.9	13068.7	15690.1	17071.0	17459.8	19660.3
62.5°	4189.5	4460.5	4976.8	6389.9	8437.1	11737.8	16070.8	19700.6	19387.6	21541.3
65°	2868.3	3042.5	3515.2	4308.9	5454.3	8737.2	15051.3	21671.9	22449.5	24522.5
67.5°	2084.3	2216.6	2619.9	3315.2	3553.9	5170.4	11679.7	21581.6	25425.9	27594.0
70°	1519.6	1613.2	1952.0	2619.9	2734.4	2876.4	7075.6	18345.5	25361.4	28410.3
72.5°	1126.0	1190.6	1418.0	2032.7	2213.3	1942.3	3502.3	13333.2	21792.9	25696.9
75°	814.7	863.1	1030.8	1555.1	1771.3	1479.3	1747.1	7791.8	15201.3	18076.1
77.5°	622.7	659.8	769.5	1138.9	1418.0	1109.9	1084.1	3584.6	7207.8	7243.3
80°	500.1	524.3	584.0	801.8	1087.3	830.8	706.6	1447.1	2277.9	1927.8
82.5°	367.8	408.1	493.6	563.0	777.6	572.7	430.7	730.8	866.3	745.3
85°	209.7	237.1	298.4	403.3	496.9	350.1	246.8	324.3	403.3	330.7
87.5°	74.2	96.8	104.9	158.1	216.2	145.2	95.2	93.6	132.3	98.4
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°
4457.3	0°	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3	4457.3
4505.7	2.5°	4489.6	4481.5	4449.2	4405.7	4360.5	4317.0	4302.4	4271.8	4250.8	4239.5
4610.6	5°	4579.9	4554.1	4478.3	4381.5	4279.9	4170.2	4092.7	4021.7	3970.1	3921.7
4754.1	7.5°	4709.0	4663.8	4533.1	4363.7	4183.1	4000.8	3865.3	3762.0	3692.6	3647.5
4921.9	10°	4859.0	4789.6	4589.6	4336.3	4057.2	3795.9	3636.2	3547.5	3503.9	3479.7
5113.9	12.5°	5031.6	4933.2	4647.7	4273.4	3865.3	3566.8	3457.1	3431.3	3432.9	3434.5
5355.9	15°	5244.6	5107.4	4694.5	4136.3	3615.2	3391.0	3371.6	3413.6	3457.1	3478.1
5630.1	17.5°	5484.9	5291.3	4702.5	3910.4	3370.0	3278.1	3339.4	3429.7	3495.8	3524.9
5936.6	20°	5743.0	5478.5	4644.4	3591.0	3168.4	3186.1	3295.8	3411.9	3484.5	3521.6
6286.7	22.5°	6038.3	5678.5	4505.7	3255.5	3003.8	3086.1	3215.1	3328.1	3403.9	3441.0
6698.1	25°	6375.4	5902.8	4287.9	2973.2	2861.8	2973.2	3102.2	3195.8	3257.1	3291.0
7157.8	27.5°	6749.7	6136.7	3997.5	2748.9	2737.6	2857.0	2963.5	3036.1	3068.3	3094.1
7646.6	30°	7125.6	6349.6	3645.9	2579.5	2629.5	2742.5	2818.3	2850.6	2860.2	2865.1
8191.9	32.5°	7532.1	6533.5	3276.4	2439.2	2526.3	2631.2	2676.3	2690.8	2645.7	2615.0
8853.3	35°	8024.1	6730.3	2915.1	2327.9	2424.7	2515.0	2529.5	2516.6	2463.4	2400.5
9682.5	37.5°	8632.3	6975.5	2626.3	2248.8	2329.5	2389.2	2371.4	2368.2	2373.0	2298.8
10679.5	40°	9377.6	7295.0	2415.0	2187.5	2252.0	2265.0	2214.9	2242.4	2266.6	2153.6
11773.2	42.5°	10205.2	7680.5	2281.1	2145.6	2187.5	2156.9	2079.4	2110.1	2106.9	1958.4
12871.8	45°	11048.9	8100.0	2234.3	2114.9	2127.8	2066.5	1981.0	1989.1	1921.3	1787.4
13925.3	47.5°	11887.8	8550.0	2263.3	2089.1	2053.6	1984.3	1918.1	1882.6	1782.6	1682.6
14935.1	50°	12710.5	9022.7	2369.8	2037.5	1952.0	1911.7	1863.3	1800.3	1693.9	1608.4
15890.2	52.5°	13473.6	9498.6	2489.2	1952.0	1824.5	1848.7	1818.1	1745.5	1640.6	1553.5
16793.6	55°	14196.3	9974.5	2536.0	1834.2	1705.2	1793.9	1776.1	1642.3	1516.4	1445.4
17738.9	57.5°	14983.5	10547.2	2484.4	1684.2	1608.4	1731.0	1663.2	1514.8	1442.2	1389.0
18969.8	60°	16074.1	11445.8	2373.0	1498.7	1516.4	1637.4	1521.3	1460.0	1380.9	1321.2
20815.3	62.5°	17885.7	13121.9	2194.0	1314.8	1408.3	1498.7	1453.5	1392.2	1311.5	1253.5
23970.8	65°	20563.7	15451.4	1856.8	1171.2	1287.3	1363.2	1380.9	1319.6	1235.7	1174.4
26735.8	67.5°	22822.2	16912.9	1405.1	1051.8	1163.1	1253.5	1303.5	1243.8	1155.1	1095.4
27382.7	70°	22697.9	15851.5	1072.8	934.1	1053.4	1145.4	1209.9	1163.1	1067.9	1011.5
24872.6	72.5°	20160.3	13260.6	867.9	814.7	942.1	1032.5	1109.9	1074.4	977.6	922.8
18221.3	75°	14810.9	9413.1	693.7	693.7	803.4	914.7	1000.2	977.6	888.9	850.2
7649.9	77.5°	6243.1	3949.2	543.7	575.9	667.9	785.6	892.1	900.2	822.7	871.1
2023.0	80°	1660.0	1088.9	414.6	453.3	524.3	648.5	776.0	772.7	688.8	643.7
751.8	82.5°	632.4	429.1	295.2	319.4	379.1	496.9	614.6	634.0	550.1	475.9
295.2	85°	243.6	183.9	182.3	192.0	221.0	329.1	464.6	480.7	414.6	351.7
82.3	87.5°	62.9	54.8	67.8	64.5	101.6	175.8	266.2	275.9	253.3	146.8
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>
4457.3
4252.4
3941.1
3657.2
3486.2
3437.8
3476.5
3531.3
3531.3
3450.7
3300.6
3103.8
2876.4
2624.7
2403.7
2303.7
2156.9
1956.8
1792.3
1682.6
1601.9
1555.1
1439.0
1384.1
1318.0
1253.5
1177.6
1097.0
<b>1016.3</b>
922.8
838.9
790.5
598.5
475.9
363.0
209.7
0.0

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