

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: P950728

Luminaire Tested: **GALN-SB5A-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5A-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

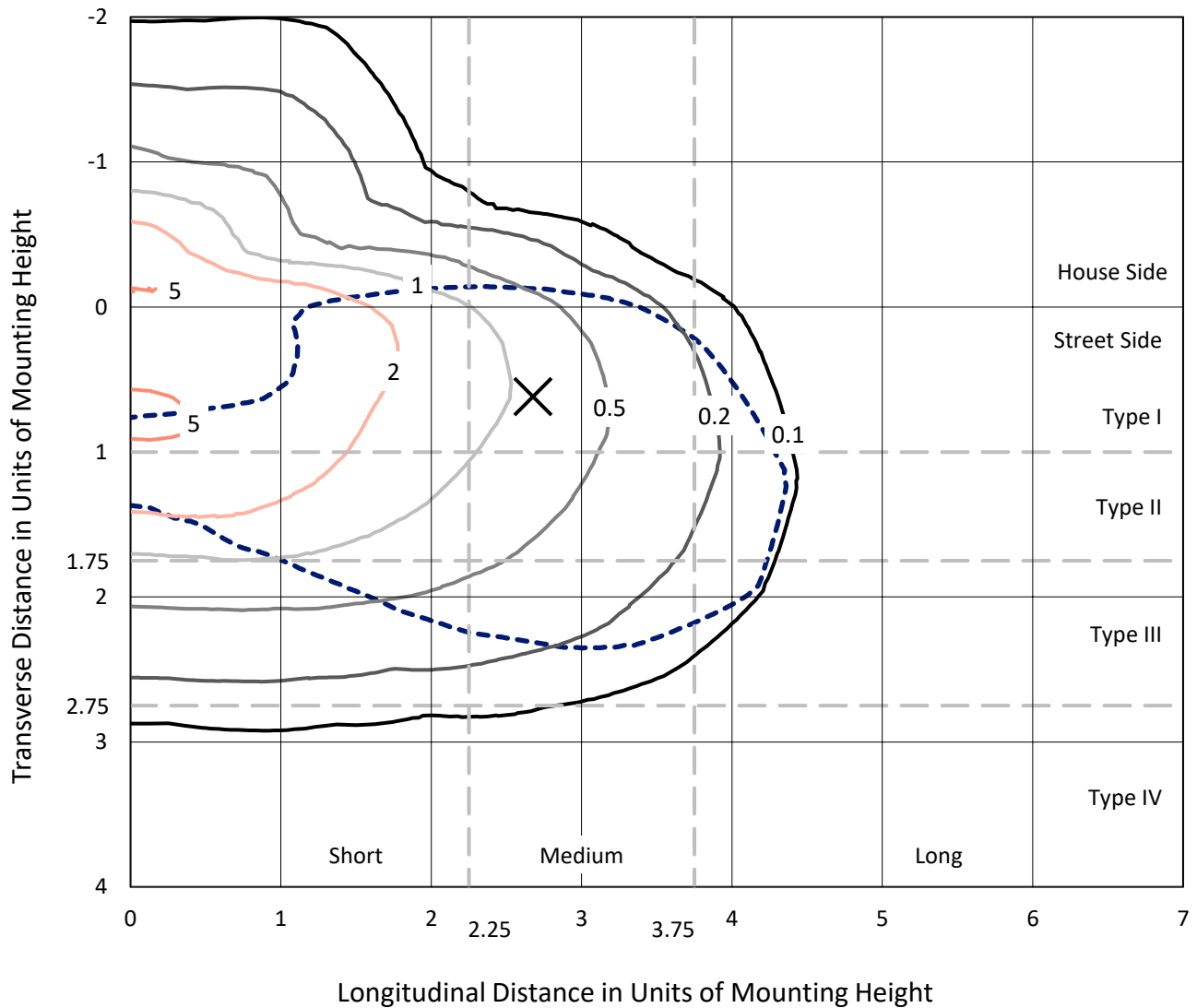
Lumens per Lamp: N/A  
Luminaire Lumens: 20902 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

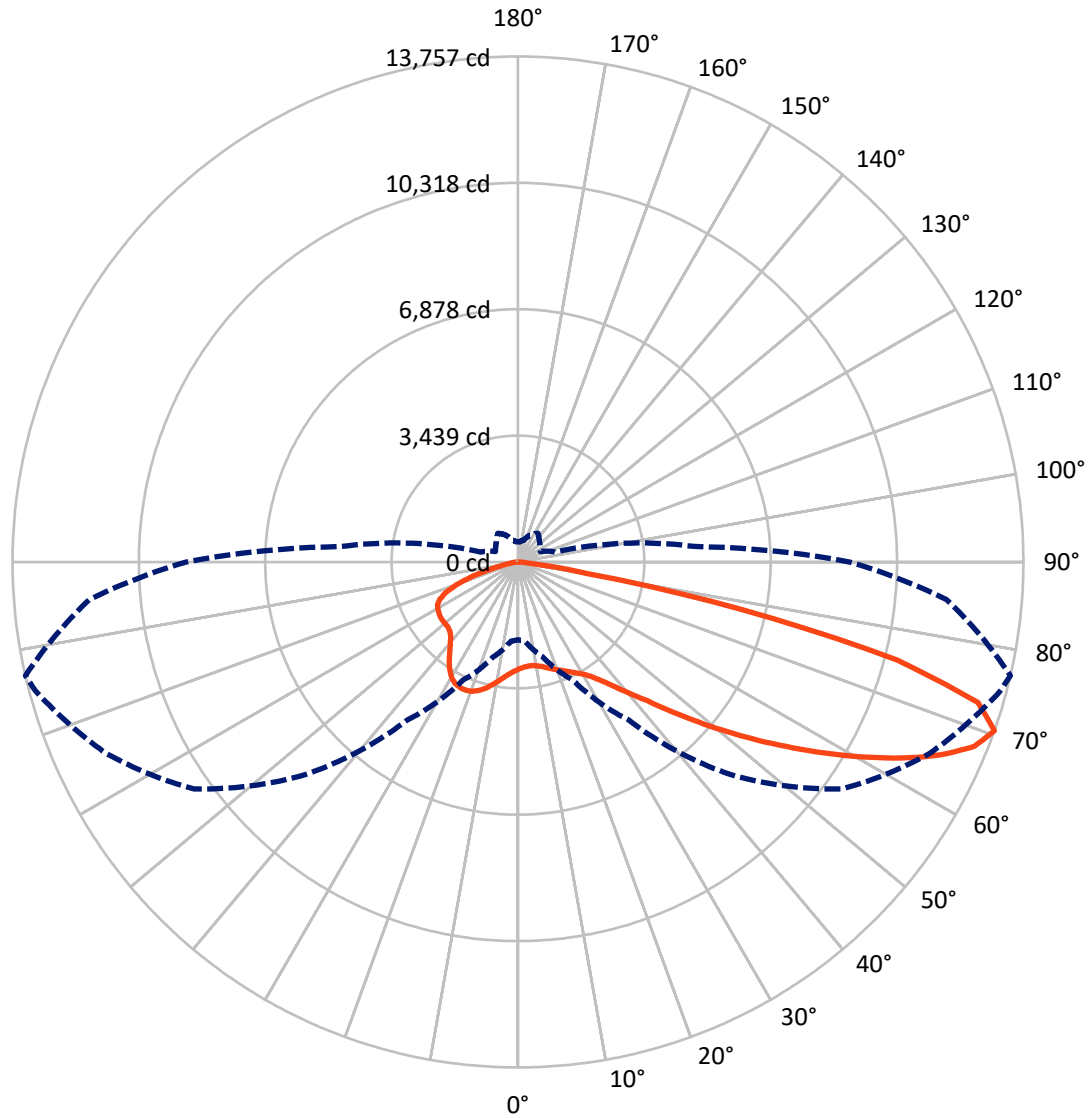
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4577.2	0.0	4577.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	16324.8	0.0	16324.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	20902.0	0.0	20902.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.1	1.3
10°-20°	802.7	3.8
20°-30°	1372.6	6.6
30°-40°	2207.4	10.6
40°-50°	3446.3	16.5
50°-60°	4603.4	22.0
60°-70°	4906.5	23.5
70°-80°	3020.4	14.5
80°-90°	264.7	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°	20902.0	100.0
0°-180°	20902.0	100.0

**Coefficient of Utilization**



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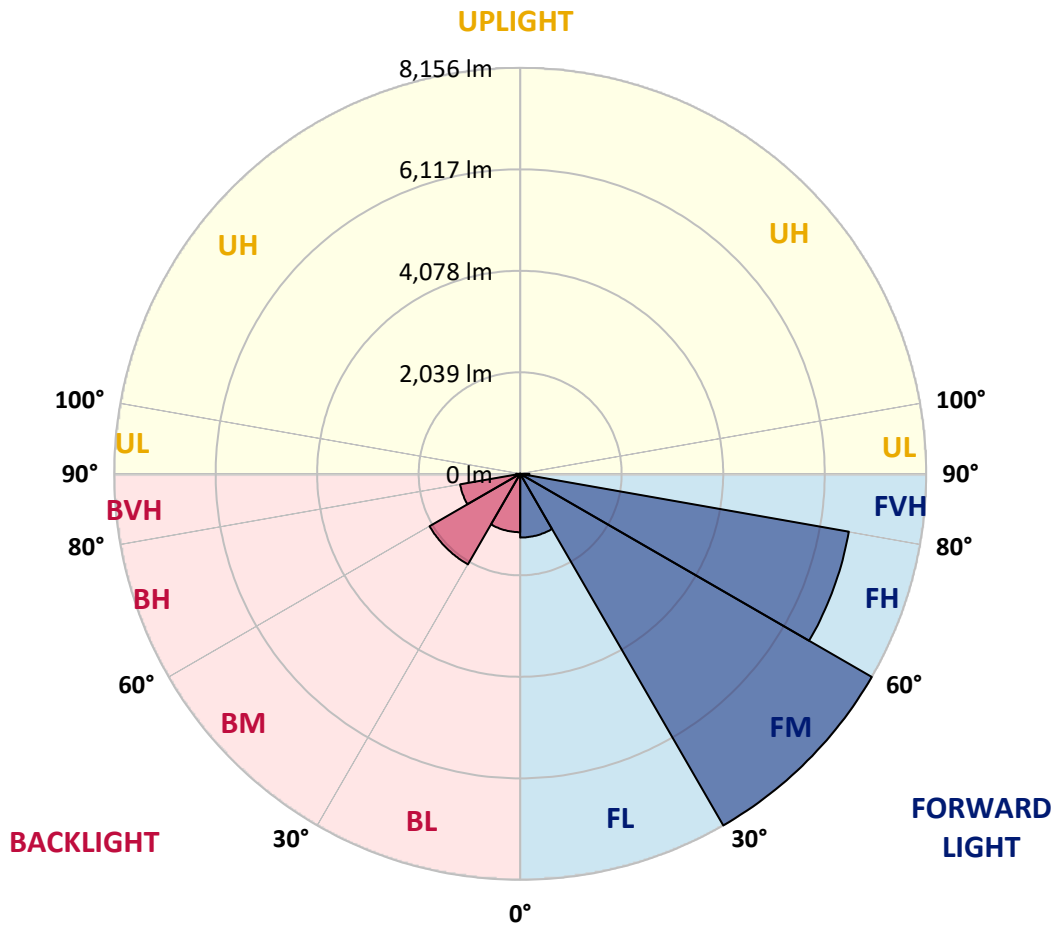
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.6	6.1			
FM (30°-60°)	8155.5	39.0			
FH (60°-80°)	6703.6	32.1			G3/7500
FVH (80°-90°)	185.1	0.9			G2/225
BL (0°-30°)	1172.8	5.6	B3/2500		
BM (30°-60°)	2101.5	10.1	B2/2500		
BH (60°-80°)	1223.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	79.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0
2.5°	2688.0	2686.9	2700.9	2705.1	2730.8	2749.0	2783.3	2819.7	2866.8	2872.1
5°	2532.8	2532.8	2548.8	2566.0	2599.2	2635.6	2688.0	2751.2	2832.5	2845.4
7.5°	2401.1	2409.7	2423.6	2456.8	2495.3	2547.8	2628.1	2718.0	2825.0	2845.4
10°	2295.1	2304.8	2321.9	2348.7	2406.5	2479.3	2584.2	2699.8	2843.2	2875.3
12.5°	2261.9	2271.6	2281.2	2301.6	2355.1	2440.7	2566.0	2708.3	2887.1	2919.2
15°	2339.0	2350.8	2343.3	2338.0	2365.8	2443.9	2574.5	2739.4	2941.7	2987.7
17.5°	2516.7	2521.0	2503.9	2453.6	2449.3	2491.0	2615.2	2782.2	3010.2	3060.5
20°	2803.6	2796.1	2760.8	2661.2	2604.5	2595.9	2684.8	2846.4	3080.9	3134.4
22.5°	3193.3	3184.7	3114.1	2956.7	2830.4	2746.9	2785.4	2929.9	3160.1	3220.0
25°	3679.3	3667.5	3563.7	3349.6	3153.7	2947.1	2922.4	3040.2	3257.5	3313.2
27.5°	4246.6	4237.0	4124.6	3842.0	3559.4	3221.1	3092.7	3169.7	3359.2	3422.4
30°	4856.8	4884.7	4685.5	4381.5	4024.0	3578.7	3321.7	3329.2	3490.9	3547.6
32.5°	5574.1	5622.2	5382.4	4997.1	4508.9	3967.2	3610.8	3551.9	3682.5	3729.6
35°	6284.9	6339.5	6140.3	5714.3	5152.3	4425.4	3912.6	3807.7	3937.3	3988.7
37.5°	6899.3	6972.1	6869.3	6499.0	5840.6	4977.8	4306.6	4108.5	4250.9	4315.2
40°	7384.3	7495.6	7488.1	7256.9	6652.0	5647.9	4806.5	4480.0	4640.6	4710.2
42.5°	7778.2	7874.5	7958.0	7946.3	7498.8	6409.0	5394.2	4962.8	5084.8	5165.1
45°	8050.1	8152.9	8332.7	8526.5	8313.4	7223.7	6067.5	5535.5	5646.8	5767.8
47.5°	8293.1	8409.8	8643.2	8950.4	9005.0	8041.5	6805.1	6202.4	6304.1	6429.4
50°	8314.5	8415.1	8777.0	9212.7	9496.3	8827.3	7597.3	6950.7	7046.0	7179.8
52.5°	7797.5	7955.9	8587.5	9205.2	9722.2	9484.6	8384.1	7729.0	7836.0	7996.6
55°	6052.6	6284.9	8031.9	8918.3	9641.9	9909.5	9132.4	8556.4	8693.5	8861.5
57.5°	5213.3	5315.0	6375.8	8395.9	9275.8	10019.8	9764.0	9392.5	9613.0	9797.1
60°	4685.5	4770.1	5397.4	7583.4	8794.1	9845.3	10252.1	10171.8	10552.9	10772.4
62.5°	4120.3	4200.6	4771.2	6332.0	8177.5	9555.2	10560.4	10891.2	11516.4	11756.1
65°	3559.4	3627.9	4174.9	5320.3	7393.9	9265.1	10719.9	11513.1	12408.1	12656.4
67.5°	2934.2	2991.0	3508.0	4488.6	6441.1	8868.0	10799.1	12002.4	13184.2	13397.2
70°	2117.4	2161.3	2695.5	3549.8	5245.4	8185.0	10767.0	12349.2	13586.7	13756.9
72.5°	1000.9	1040.5	1667.8	2304.8	3705.0	6855.4	10117.2	12074.1	13177.8	13093.2
75°	534.2	568.4	958.1	1264.3	1956.9	4699.5	8279.2	10400.9	11065.7	10654.6
77.5°	361.8	388.6	593.1	759.0	893.9	2230.9	5321.4	7201.2	6928.2	6249.5
80°	286.9	314.7	486.0	513.8	432.5	806.1	2198.8	3333.5	2394.7	1915.1
82.5°	220.5	251.6	408.9	372.5	235.5	330.8	640.2	1054.4	613.4	466.7
85°	134.9	168.1	321.1	237.6	132.7	150.9	217.3	293.3	187.3	156.3
87.5°	68.5	96.3	162.7	86.7	59.9	35.3	57.8	57.8	49.2	42.8
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°
2916.0	0°	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0
2901.0	2.5°	2926.7	2948.1	2984.5	3018.8	3045.5	3071.2	3096.9	3110.8	3115.1	3132.3
2917.1	5°	2961.0	3000.6	3071.2	3137.6	3179.4	3205.1	3223.3	3234.0	3236.1	3241.4
2961.0	7.5°	3024.1	3087.3	3185.8	3252.2	3283.2	3281.1	3273.6	3246.8	3236.1	3226.5
3025.2	10°	3113.0	3196.5	3317.5	3363.5	3344.2	3292.8	3226.5	3148.3	3111.9	3076.6
3113.0	12.5°	3223.3	3329.2	3448.1	3445.9	3350.6	3219.0	3064.8	2944.9	2868.9	2814.3
3221.1	15°	3357.1	3479.1	3570.1	3497.3	3288.6	3052.0	2826.1	2669.8	2601.3	2541.3
3330.3	17.5°	3495.2	3625.8	3667.5	3481.2	3132.3	2804.7	2548.8	2425.7	2358.3	2326.2
3448.1	20°	3630.0	3759.6	3725.3	3389.2	2894.6	2524.2	2296.2	2228.8	2214.8	2222.3
3562.6	22.5°	3772.4	3888.0	3737.1	3211.5	2591.7	2237.3	2112.1	2114.2	2145.3	2167.7
3682.5	25°	3918.0	3996.1	3706.0	2954.6	2266.2	2026.4	1995.4	2029.7	2090.7	2134.6
3817.4	27.5°	4058.2	4092.5	3638.6	2636.6	1986.8	1875.5	1880.9	1951.5	2043.6	2104.6
3981.2	30°	4216.7	4178.1	3509.1	2279.1	1793.1	1746.0	1790.9	1873.4	1965.4	2020.0
4187.8	32.5°	4395.4	4252.0	3303.5	1948.3	1656.1	1642.1	1716.0	1769.5	1810.2	1826.3
4461.8	35°	4618.1	4355.8	3040.2	1716.0	1532.9	1566.1	1636.8	1610.0	1594.0	1585.4
4830.1	37.5°	4907.1	4496.1	2731.9	1565.1	1433.4	1511.5	1540.4	1456.9	1393.8	1362.7
5276.5	40°	5255.0	4701.6	2435.4	1448.4	1370.2	1464.4	1414.1	1313.5	1233.2	1189.3
5778.5	42.5°	5641.5	4916.8	2185.9	1360.6	1334.9	1425.9	1321.0	1201.1	1071.6	1057.6
6376.9	45°	6047.2	5138.4	2015.7	1293.2	1317.8	1392.7	1267.5	1073.7	981.6	1038.4
6977.5	47.5°	6452.9	5341.8	1913.0	1242.8	1309.2	1355.2	1220.4	1003.1	937.8	1020.2
7620.8	50°	6904.7	5523.7	1866.9	1206.4	1299.6	1340.3	1149.7	984.9	891.7	946.3
8286.7	52.5°	7353.2	5665.0	1832.7	1170.0	1285.7	1328.5	1115.5	963.4	836.1	839.3
8956.8	55°	7800.7	5757.1	1795.2	1121.9	1254.6	1302.8	1112.2	939.9	794.3	779.3
9665.5	57.5°	8278.1	5809.6	1749.2	1068.4	1201.1	1237.5	1109.0	921.7	781.5	756.8
10390.2	60°	8764.1	5886.6	1689.2	1003.1	1129.4	1159.3	1101.5	915.3	774.0	732.2
11073.2	62.5°	9199.8	5913.4	1617.5	941.0	1037.3	1082.3	1085.5	909.9	753.6	681.9
11640.5	65°	9485.6	5797.8	1492.3	870.3	937.8	1003.1	1054.4	891.7	717.2	645.5
11921.0	67.5°	9473.9	5468.1	1296.4	779.3	841.4	915.3	1009.5	860.7	673.3	600.5
11709.0	70°	9032.8	4817.2	1048.0	673.3	735.4	821.1	951.7	814.6	620.9	551.3
10411.6	72.5°	7747.1	3770.3	761.1	549.2	612.3	723.7	876.7	759.0	567.4	507.4
7694.7	75°	5534.4	2386.1	516.0	421.8	476.4	613.4	783.6	693.7	518.1	509.6
3853.8	77.5°	2827.2	1140.1	341.5	308.3	331.9	483.9	658.4	619.8	525.6	420.7
1096.2	80°	919.6	420.7	215.2	209.8	220.5	322.2	509.6	508.5	398.2	285.8
265.5	82.5°	293.3	180.9	140.2	134.9	129.5	202.3	355.4	402.5	268.7	180.9
95.3	85°	116.7	108.1	82.4	76.0	54.6	95.3	186.3	267.6	200.2	130.6
24.6	87.5°	42.8	42.8	22.5	16.1	11.8	32.1	50.3	80.3	114.5	67.4
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>
2916.0
3141.9
3250.0
3228.6
3065.9
2801.5
2534.9
2335.8
2219.1
2173.1
2146.3
2119.6
2032.9
1834.8
1594.0
1370.2
1192.5
1071.6
1068.4
1058.7
987.0
861.7
790.0
760.0
735.4
681.9
645.5
603.8
557.7
504.2
480.7
374.7
252.6
179.8
133.8
66.4
0.0

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