

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: P941904

Luminaire Tested: **GALN-SB5C-930-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5C-930-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

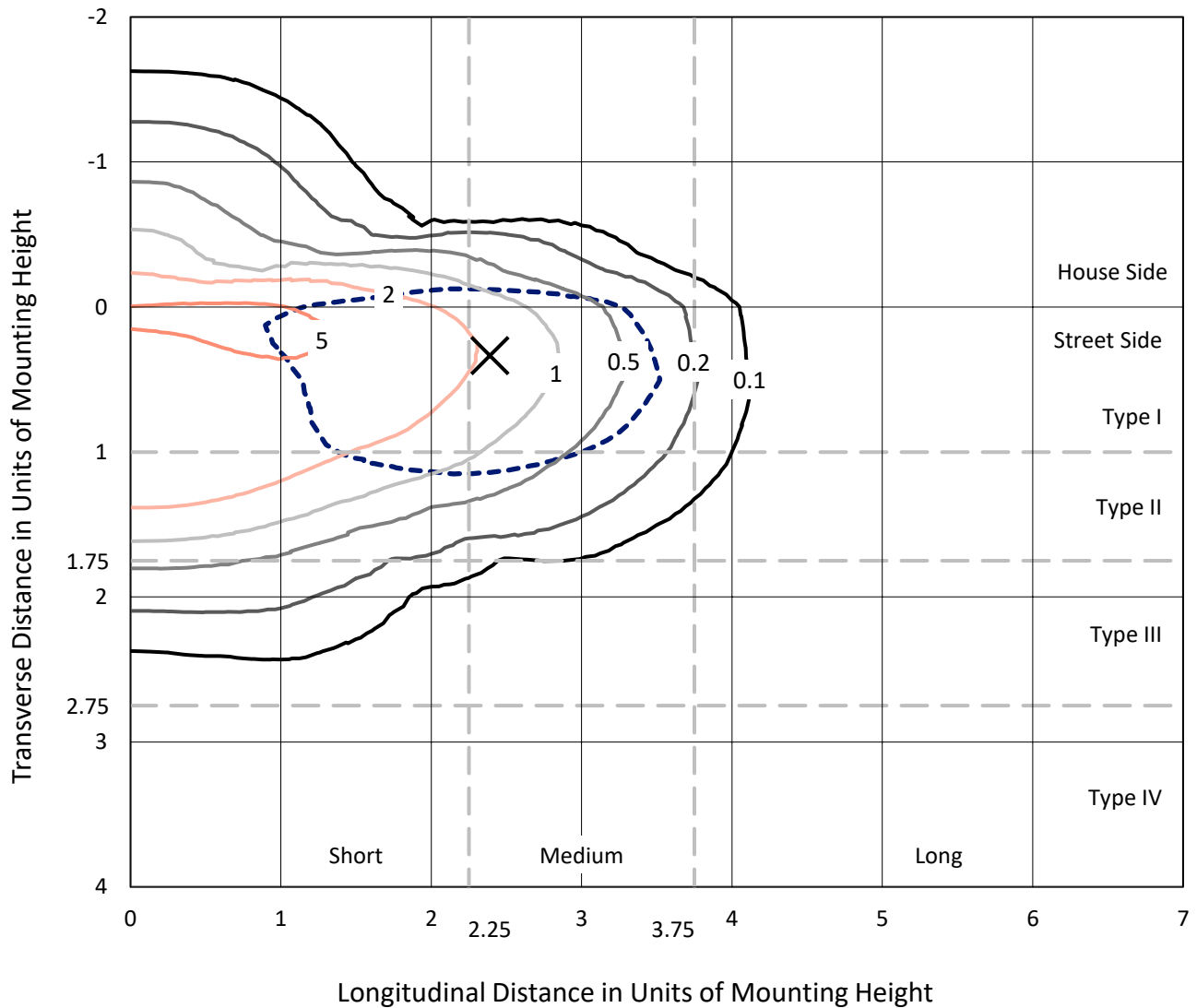
Lumens per Lamp: N/A  
Luminaire Lumens: 19217 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

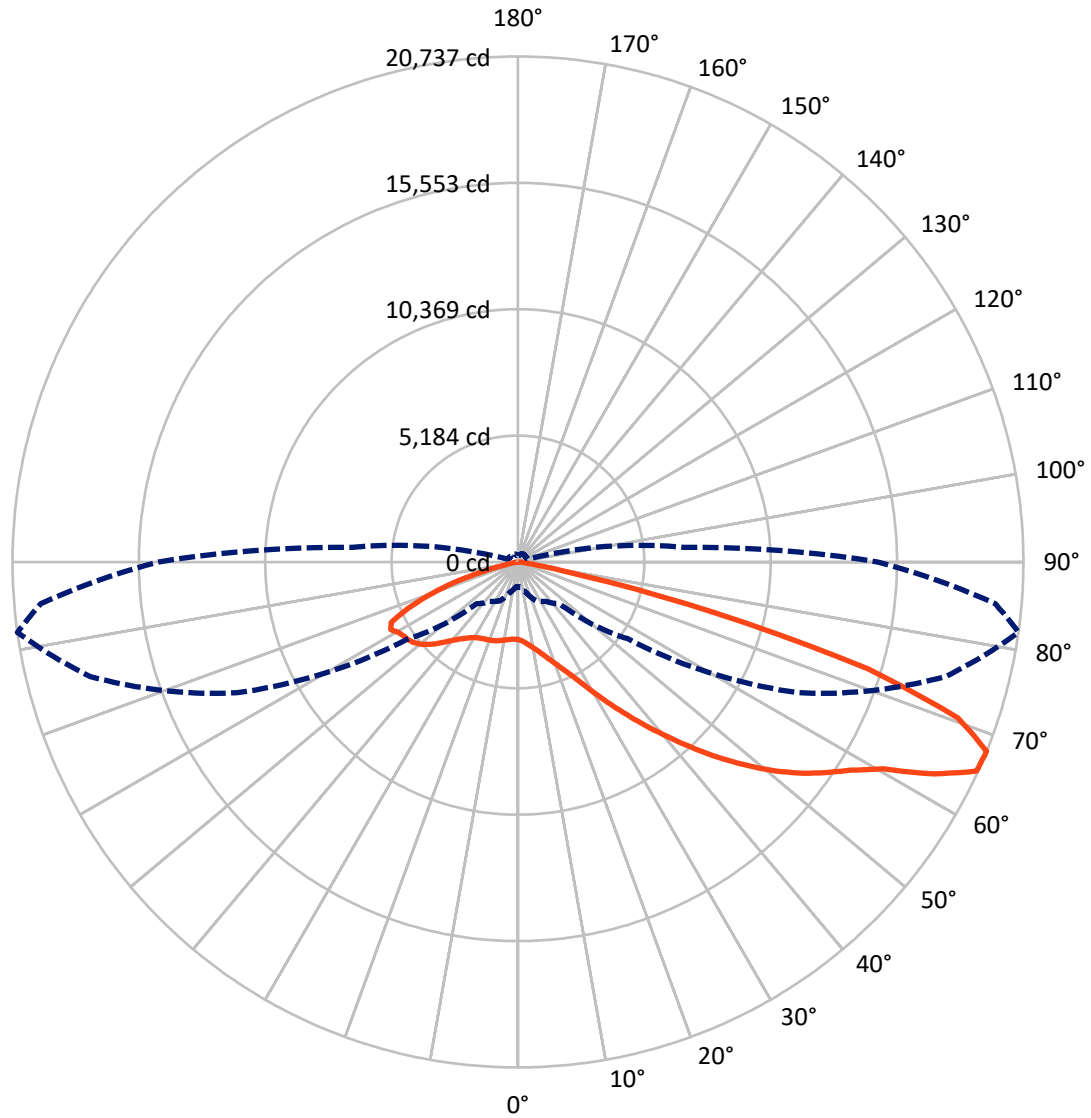
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3481.0	0.0	3481.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	15736.0	0.0	15736.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	19217.0	0.0	19217.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.6	1.5
10°-20°	737.1	3.8
20°-30°	1180.5	6.1
30°-40°	2087.5	10.9
40°-50°	3657.6	19.0
50°-60°	4878.2	25.4
60°-70°	4541.3	23.6
70°-80°	1743.0	9.1
80°-90°	108.3	0.6
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°	19217.0	100.0
0°-180°	19217.0	100.0

**Coefficient of Utilization**



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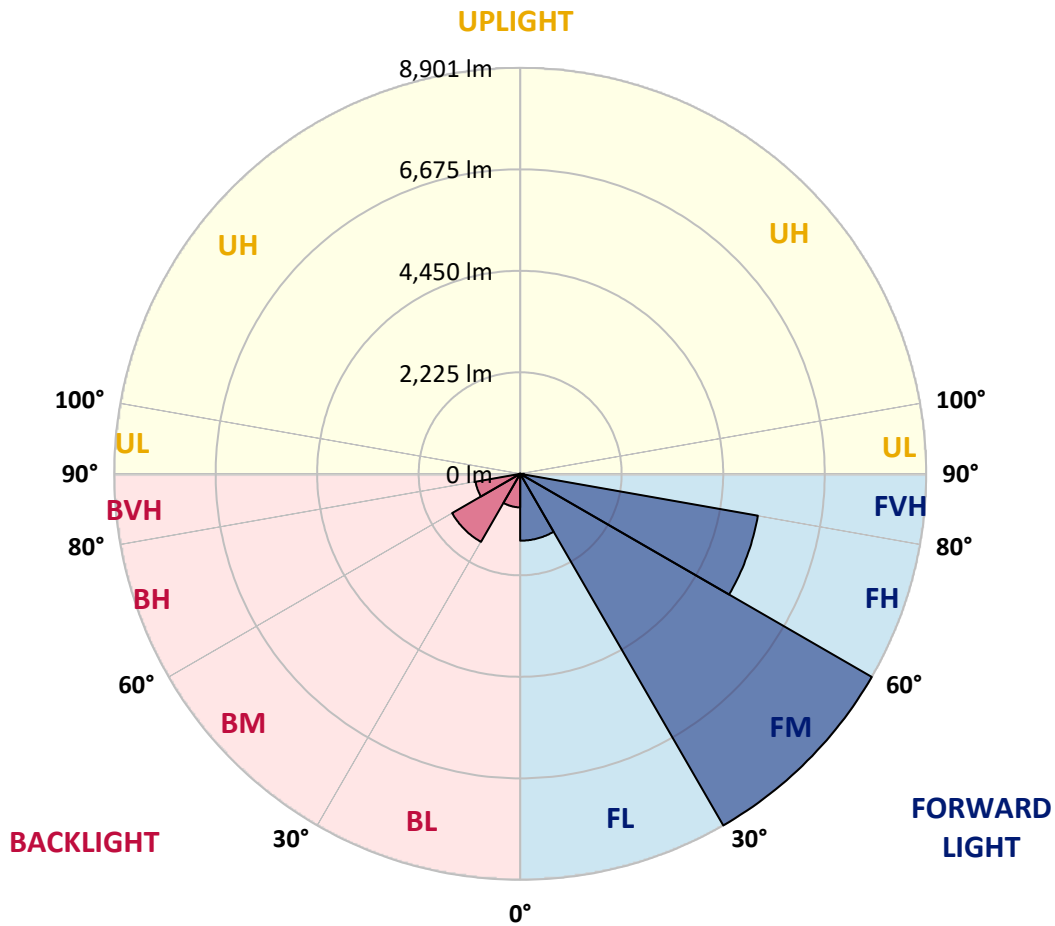
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1466.0	7.6			
FM (30°-60°)	8900.5	46.3			
FH (60°-80°)	5290.7	27.5			G3/7500
FVH (80°-90°)	78.7	0.4			G1/100
BL (0°-30°)	735.2	3.8	B2/1000		
BM (30°-60°)	1722.7	9.0	B2/2500		
BH (60°-80°)	993.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	29.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6
2.5°	3364.9	3384.2	3373.2	3367.6	3357.9	3344.1	3333.0	3298.4	3262.5	3238.9
5°	3432.7	3452.0	3450.6	3456.2	3463.1	3467.2	3464.5	3425.7	3374.5	3334.4
7.5°	3374.5	3396.7	3414.7	3442.3	3490.8	3542.0	3566.9	3558.6	3506.0	3450.6
10°	3209.9	3233.4	3276.3	3341.3	3443.7	3554.4	3647.1	3690.0	3656.8	3595.9
12.5°	2908.3	2931.8	3016.2	3157.3	3328.9	3521.2	3698.3	3813.1	3821.4	3760.6
15°	2569.3	2592.8	2682.8	2859.8	3121.3	3429.9	3726.0	3943.2	4016.5	3963.9
17.5°	2359.0	2379.7	2447.5	2590.1	2862.6	3247.3	3716.3	4081.5	4249.0	4207.5
20°	2295.4	2313.3	2345.2	2444.8	2671.7	3057.7	3652.6	4211.6	4499.4	4475.9
22.5°	2363.1	2379.7	2389.4	2433.7	2576.2	2933.2	3572.4	4344.4	4789.9	4792.7
25°	2519.5	2536.1	2525.0	2552.7	2615.0	2894.4	3542.0	4500.8	5155.2	5185.6
27.5°	2776.8	2778.2	2751.9	2750.5	2760.2	2952.5	3573.8	4668.2	5615.9	5672.7
30°	3292.9	3272.2	3171.2	3061.9	3012.0	3126.9	3662.3	4866.0	6159.7	6260.7
32.5°	4088.5	4058.0	3872.6	3611.1	3348.3	3407.7	3821.4	5091.6	6751.8	6934.5
35°	4951.8	4943.5	4749.8	4361.0	3901.7	3807.6	4080.2	5387.6	7398.0	7688.5
37.5°	5754.3	5750.1	5639.5	5181.5	4622.5	4365.2	4495.2	5775.0	8089.8	8510.4
40°	6487.6	6500.0	6389.4	5979.8	5416.7	5080.5	5059.7	6253.8	8859.0	9405.5
42.5°	7121.3	7135.1	7023.0	6720.0	6201.2	5871.9	5752.9	6840.4	9610.3	10367.1
45°	7551.6	7637.3	7620.7	7378.6	7006.4	6664.7	6585.8	7576.5	10466.7	11386.8
47.5°	7673.3	7752.2	7876.7	7909.9	7683.0	7346.8	7440.9	8463.3	11332.9	12407.9
50°	7373.1	7446.4	7705.1	8049.6	8207.4	8103.6	8272.4	9413.8	12219.7	13426.2
52.5°	6780.9	6855.6	7182.1	7727.3	8370.6	8697.2	9106.7	10350.5	13078.9	14390.6
55°	5924.5	6003.3	6422.6	7039.6	8059.3	8942.0	9802.6	11285.8	13866.2	15258.1
57.5°	4759.5	4817.6	5253.4	6116.8	7276.2	8698.5	10315.9	12306.9	14607.8	16110.3
60°	3102.0	3153.2	3659.6	4622.5	5978.4	7885.0	10418.3	13445.6	15592.9	17218.6
62.5°	2062.9	2097.5	2397.7	3104.7	4210.2	6322.9	9819.2	14354.6	17037.3	19147.3
65°	1415.4	1450.0	1750.2	2242.8	2720.1	4182.5	8096.7	14234.2	18346.2	20678.9
67.5°	1010.0	1039.1	1293.6	1758.5	1968.8	2429.6	5488.6	12695.7	18158.0	20737.0
70°	723.6	740.2	950.5	1369.7	1564.8	1459.7	3052.2	9709.9	15898.7	19148.7
72.5°	506.4	511.9	660.0	1043.2	1260.4	1065.4	1452.8	6473.7	12024.7	15029.8
75°	343.1	350.0	444.1	765.1	1011.4	813.5	769.3	3471.4	7059.0	8319.4
77.5°	210.3	213.1	286.4	523.0	756.8	619.8	495.3	1470.7	2731.2	2681.4
80°	119.0	119.0	182.6	325.1	516.1	399.9	347.3	625.4	864.7	759.6
82.5°	66.4	67.8	132.8	202.0	341.7	236.6	190.9	289.2	373.6	330.7
85°	27.7	30.4	81.6	95.5	163.3	117.6	77.5	121.8	138.4	123.1
87.5°	2.8	4.2	24.9	18.0	19.4	23.5	11.1	23.5	19.4	19.4
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°
3183.6	0°	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6	3183.6
3230.6	2.5°	3204.4	3183.6	3131.0	3070.2	2989.9	2951.2	2898.6	2862.6	2832.2	2834.9
3310.9	5°	3266.6	3214.0	3096.4	2949.8	2767.2	2637.1	2498.7	2403.3	2325.8	2309.2
3421.6	7.5°	3352.4	3269.4	3063.2	2799.0	2490.4	2256.6	2047.7	1913.5	1818.0	1787.6
3555.8	10°	3463.1	3342.7	3020.3	2609.4	2165.3	1867.8	1643.7	1538.5	1473.5	1451.4
3713.5	12.5°	3591.8	3427.1	2963.6	2378.4	1830.5	1544.1	1401.6	1349.0	1328.2	1321.3
3907.2	15°	3753.6	3532.3	2877.8	2104.4	1546.8	1346.2	1285.3	1278.4	1281.2	1278.4
4139.7	17.5°	3946.0	3647.1	2738.1	1822.2	1355.9	1245.2	1223.1	1228.6	1235.5	1234.1
4399.8	20°	4156.3	3760.6	2559.6	1571.7	1225.8	1173.3	1160.8	1166.4	1171.9	1169.1
4700.0	22.5°	4395.6	3882.3	2361.8	1376.7	1138.7	1106.9	1093.0	1094.4	1094.4	1088.9
5080.5	25°	4682.0	4016.5	2154.2	1238.3	1072.3	1047.4	1030.8	1025.2	1016.9	1000.3
5542.6	27.5°	5023.8	4159.0	1955.0	1141.4	1019.7	996.2	976.8	963.0	942.2	914.5
6097.4	30°	5408.4	4332.0	1786.2	1080.6	978.2	954.7	932.5	911.8	881.3	846.7
6735.2	32.5°	5860.8	4517.4	1663.1	1040.4	940.8	915.9	889.6	864.7	831.5	796.9
7451.9	35°	6400.4	4741.5	1591.1	1012.8	911.8	878.6	849.5	821.8	796.9	766.5
8230.9	37.5°	6985.7	4979.5	1569.0	998.9	892.4	841.2	808.0	788.6	785.9	767.9
9073.5	40°	7626.3	5261.7	1585.6	990.6	871.7	805.2	769.3	765.1	772.0	740.2
9974.2	42.5°	8304.2	5596.6	1613.2	981.0	842.6	769.3	734.7	734.7	729.1	684.9
10926.1	45°	9037.5	5982.6	1640.9	957.4	808.0	733.3	707.0	697.3	673.8	630.9
11883.5	47.5°	9776.3	6375.5	1661.7	914.5	766.5	702.9	679.3	657.2	622.6	583.9
12823.0	50°	10477.8	6728.3	1639.5	850.9	719.5	673.8	648.9	618.5	581.1	554.8
13712.6	52.5°	11104.6	7034.1	1545.5	776.2	669.7	643.4	621.2	589.4	559.0	531.3
14515.1	55°	11649.7	7281.8	1379.4	705.6	625.4	617.1	594.9	554.8	513.3	489.8
15310.6	57.5°	12172.7	7469.9	1171.9	647.5	585.3	588.0	554.8	518.8	480.1	455.2
16382.9	60°	12868.6	7721.7	961.6	593.6	542.4	550.7	514.7	488.4	440.0	408.2
18221.7	62.5°	13981.0	8113.3	763.7	527.1	492.6	495.3	480.1	448.3	390.2	352.8
19584.5	65°	14863.7	7969.4	601.9	455.2	435.8	440.0	440.0	405.4	343.1	300.2
19657.8	67.5°	14764.1	6823.8	480.1	384.6	381.9	384.6	394.3	365.3	304.4	269.8
18160.8	70°	13600.5	5427.8	384.6	319.6	332.1	325.1	352.8	333.4	273.9	239.4
14079.3	72.5°	11097.7	3910.0	293.3	264.3	254.6	265.6	318.2	300.2	228.3	189.5
7457.5	75°	6484.8	2086.4	218.6	208.9	184.0	221.4	282.2	256.0	174.3	139.7
2285.7	77.5°	2111.3	727.8	160.5	153.6	137.0	178.5	240.7	215.8	142.5	110.7
669.7	80°	565.9	220.0	109.3	101.0	88.5	132.8	190.9	171.6	102.4	71.9
287.8	82.5°	226.9	92.7	63.6	56.7	48.4	91.3	150.8	138.4	76.1	45.7
89.9	85°	73.3	30.4	23.5	18.0	22.1	56.7	89.9	94.1	54.0	23.5
13.8	87.5°	9.7	4.2	4.2	5.5	4.2	9.7	27.7	26.3	15.2	2.8
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>
3183.6
2807.3
2271.8
1757.1
1434.8
1317.2
1277.0
1231.4
1167.7
1086.1
997.6
911.8
844.0
798.3
763.7
766.5
741.6
684.9
629.5
582.5
550.7
528.5
487.0
452.4
404.0
350.0
296.1
264.3
235.2
185.4
135.6
106.5
70.6
45.7
18.0
0.0
0.0

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