

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: P949932

Luminaire Tested: **GALN-SB4C-740-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-740-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

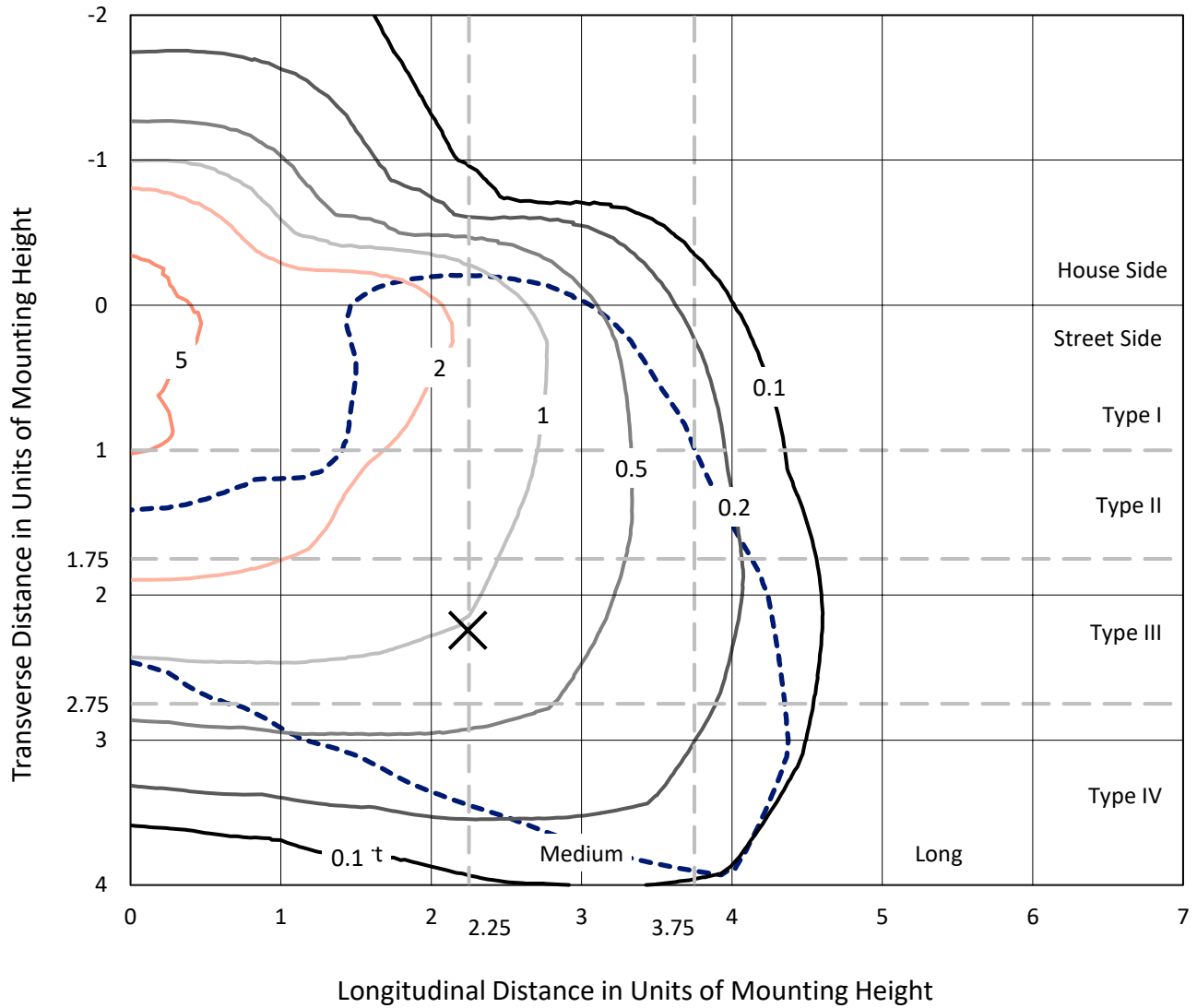
Lumens per Lamp: N/A  
Luminaire Lumens: 31693 lumens  
Efficiency: N/A  
Efficacy: 157.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

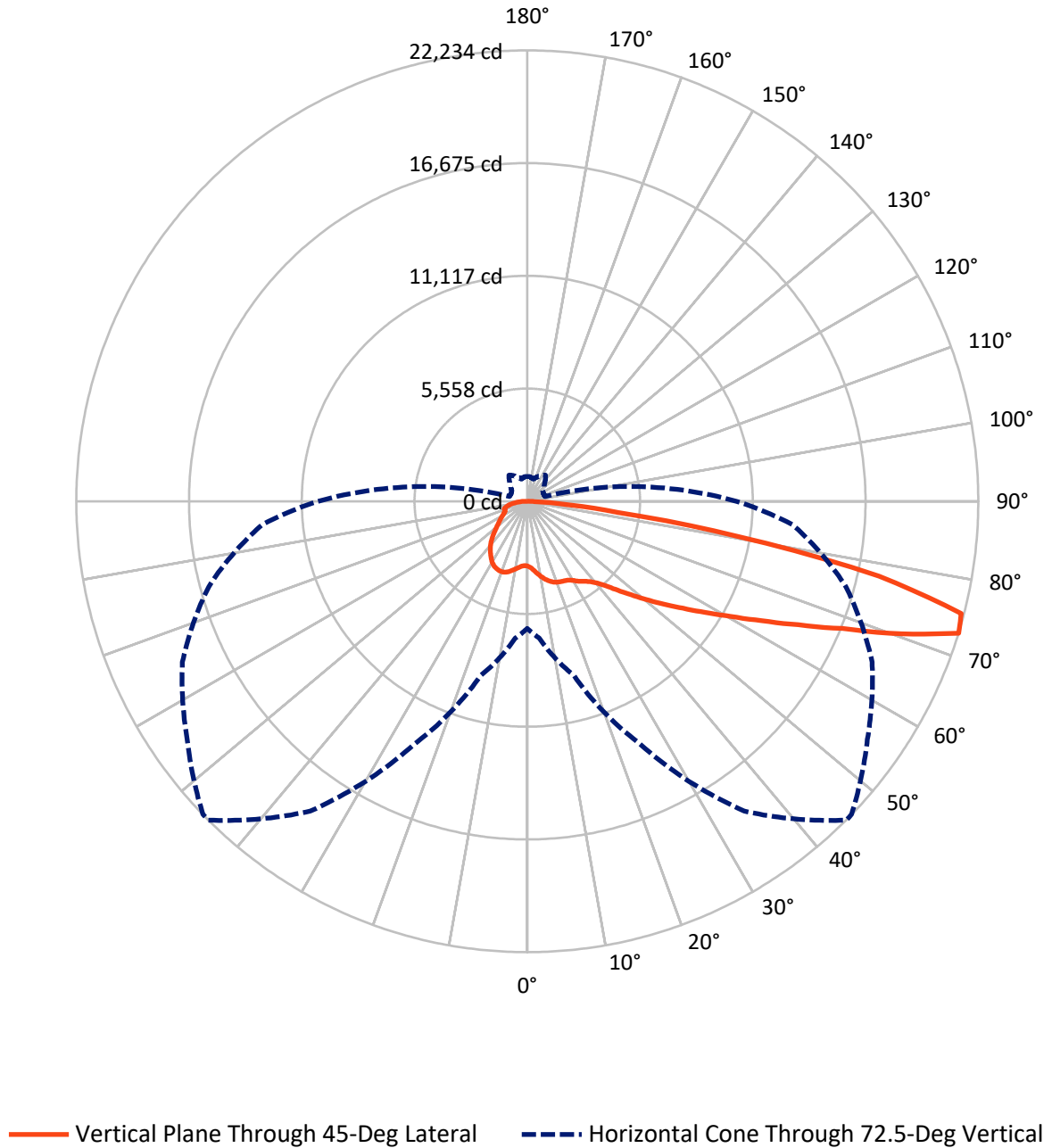
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7164.7	0.0	7164.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	24528.3	0.0	24528.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	31693.0	0.0	31693.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.4	1.0
10°-20°	1085.0	3.4
20°-30°	1887.4	6.0
30°-40°	2705.6	8.5
40°-50°	3809.7	12.0
50°-60°	5835.3	18.4
60°-70°	8453.4	26.7
70°-80°	6750.5	21.3
80°-90°	840.7	2.7
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°	31693.0	100.0
0°-180°	31693.0	100.0



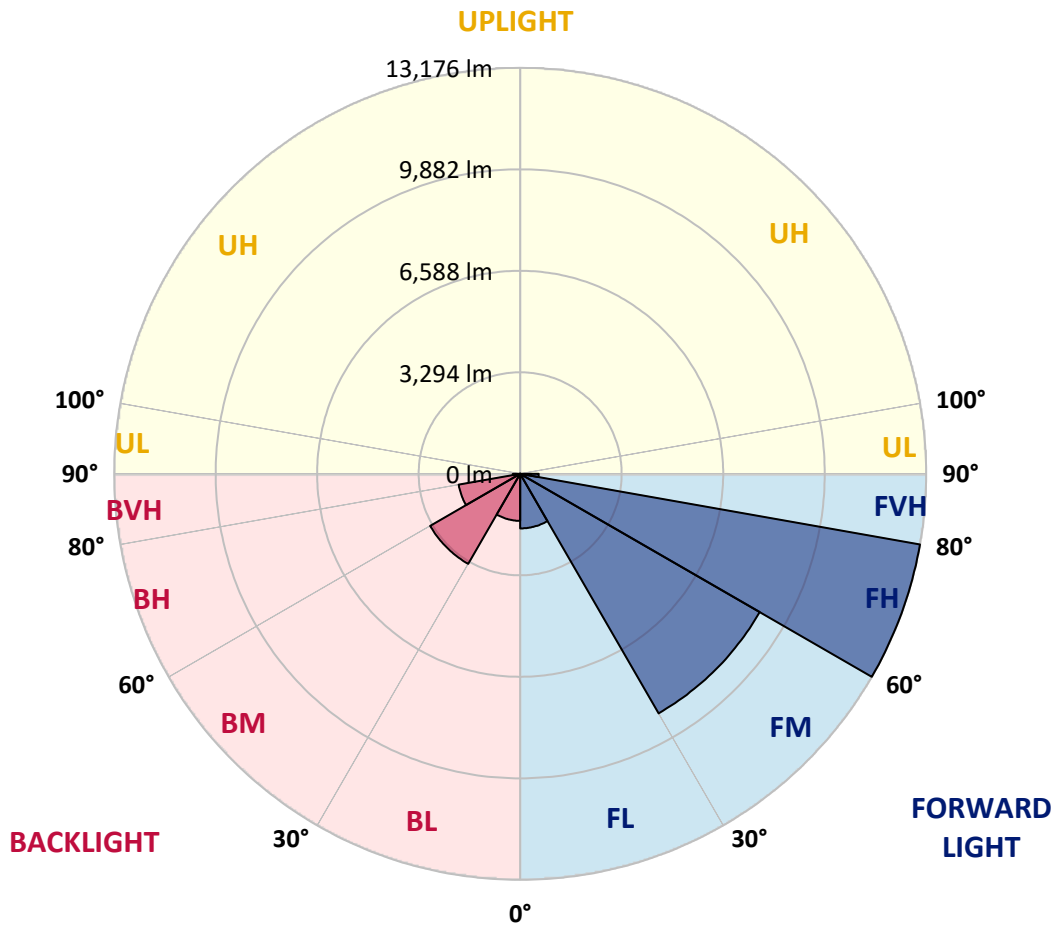
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.3	5.6			
FM (30°-60°)	8977.1	28.3			
FH (60°-80°)	13175.7	41.6			G5
FVH (80°-90°)	603.2	1.9			G4/750
BL (0°-30°)	1525.4	4.8	B3/2500		
BM (30°-60°)	3373.6	10.6	B3/5000		
BH (60°-80°)	2028.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	237.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2
2.5°	3322.4	3344.1	3324.1	3305.7	3297.4	3275.7	3274.0	3260.7	3252.3	3228.9
5°	3554.5	3582.9	3549.5	3512.8	3479.4	3425.9	3419.3	3380.9	3337.4	3287.4
7.5°	3816.6	3841.7	3803.3	3748.2	3689.7	3601.2	3599.6	3529.4	3461.0	3375.8
10°	4045.3	4078.7	4027.0	3951.8	3878.4	3778.2	3766.5	3686.4	3599.6	3489.4
12.5°	4247.4	4270.7	4220.6	4128.8	4043.7	3943.5	3928.5	3840.0	3743.2	3617.9
15°	4407.6	4437.7	4370.9	4272.4	4182.2	4083.7	4070.4	3990.2	3893.4	3761.5
17.5°	4512.8	4537.9	4469.4	4359.2	4272.4	4190.6	4180.6	4113.8	4028.6	3895.1
20°	4552.9	4579.6	4507.8	4396.0	4315.8	4252.4	4247.4	4198.9	4140.5	4018.6
22.5°	4593.0	4618.0	4524.5	4407.6	4337.5	4297.4	4295.8	4264.1	4240.7	4140.5
25°	4754.9	4761.6	4636.4	4467.7	4367.6	4332.5	4330.8	4329.2	4339.2	4260.7
27.5°	4895.1	4893.5	4786.6	4628.0	4472.8	4399.3	4397.6	4414.3	4446.0	4380.9
30°	5100.5	5082.1	4955.3	4790.0	4648.1	4534.5	4524.5	4509.5	4534.5	4482.8
32.5°	5536.3	5477.8	5272.5	4978.6	4793.3	4706.5	4693.1	4599.6	4609.7	4577.9
35°	6160.7	6083.9	5810.1	5335.9	4973.6	4850.1	4843.4	4724.9	4704.8	4676.4
37.5°	6903.6	6808.5	6489.6	5853.5	5284.2	5017.0	5007.0	4900.2	4818.3	4788.3
40°	7649.9	7529.7	7265.9	6484.6	5741.6	5295.8	5264.1	5102.2	5008.7	4958.6
42.5°	8374.5	8274.3	8048.9	7192.5	6305.9	5703.2	5633.1	5355.9	5285.8	5239.1
45°	9015.6	8925.5	8760.2	7948.8	6967.1	6257.5	6189.1	5736.6	5714.9	5714.9
47.5°	9536.5	9516.5	9341.2	8720.1	7746.8	6888.6	6770.1	6265.9	6324.3	6414.4
50°	10114.2	10059.1	9872.1	9479.8	8663.3	7611.5	7514.7	6915.3	7134.0	7381.1
52.5°	10645.1	10675.2	10466.5	10271.1	9698.5	8417.9	8247.6	7681.6	8154.1	8563.2
55°	11191.1	11192.7	11134.3	11107.6	10783.7	9309.5	9122.5	8603.2	9354.5	9862.1
57.5°	11703.6	11707.0	11793.8	12029.2	12042.5	10337.9	10125.9	9735.2	10688.5	11206.1
60°	12161.1	12184.4	12421.5	12972.5	13149.5	11516.6	11316.3	11072.5	12067.6	12588.5
62.5°	12314.7	12399.8	12927.4	13710.4	14243.0	12962.5	12765.5	12620.2	13516.8	14000.9
65°	12054.2	12249.6	13269.7	14319.8	15368.3	14680.4	14485.1	14326.5	15022.7	15478.5
67.5°	11414.8	11666.9	13249.6	14959.3	16734.0	16747.4	16565.4	16193.1	16637.2	16812.5
70°	9730.2	10107.5	12082.6	15198.0	18301.7	19573.9	19398.6	18440.3	18248.3	17400.2
72.5°	6269.2	6776.7	8897.1	13232.9	18650.7	22233.5	22223.5	20468.8	18757.5	16258.2
75°	2287.3	2597.8	4133.8	8306.1	15655.5	22098.3	22163.4	20121.5	17123.0	12558.4
77.5°	833.1	911.6	1349.0	3192.2	9628.4	17730.7	17866.0	16086.2	12187.8	6302.6
80°	437.4	480.8	691.2	1238.8	4125.5	10529.9	10741.9	9559.9	5728.3	1898.3
82.5°	242.1	262.1	387.3	672.8	1858.2	4502.8	4629.7	3776.5	2015.2	804.7
85°	130.2	138.6	182.0	367.3	908.2	1561.0	1596.1	1128.6	803.1	472.5
87.5°	38.4	46.7	60.1	116.9	355.6	350.6	359.0	223.7	317.2	238.7
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°
3197.2	0°	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2	3197.2
3222.3	2.5°	3212.2	3207.2	3188.9	3180.5	3170.5	3168.8	3177.2	3178.8	3180.5	3182.2
3259.0	5°	3242.3	3225.6	3208.9	3198.9	3202.2	3203.9	3220.6	3232.3	3240.6	3247.3
3327.4	7.5°	3300.7	3287.4	3259.0	3257.3	3262.3	3277.3	3299.0	3325.8	3340.8	3352.5
3415.9	10°	3387.5	3362.5	3329.1	3334.1	3344.1	3365.8	3410.9	3432.6	3457.7	3479.4
3524.4	12.5°	3476.0	3454.3	3415.9	3419.3	3436.0	3474.4	3517.8	3544.5	3561.2	3577.9
3641.3	15°	3591.2	3552.8	3511.1	3511.1	3541.1	3582.9	3602.9	3624.6	3634.6	3653.0
3766.5	17.5°	3709.8	3659.7	3604.6	3601.2	3638.0	3658.0	3669.7	3673.0	3676.4	3696.4
3888.4	20°	3828.3	3773.2	3694.7	3688.1	3696.4	3693.1	3691.4	3688.1	3693.1	3718.1
4013.6	22.5°	3945.2	3881.7	3773.2	3743.2	3719.8	3688.1	3686.4	3684.7	3688.1	3713.1
4148.9	25°	4082.1	4005.3	3860.0	3769.9	3691.4	3648.0	3653.0	3654.7	3658.0	3678.0
4289.1	27.5°	4230.7	4145.5	3940.2	3761.5	3619.6	3589.6	3581.2	3586.2	3597.9	3629.6
4429.3	30°	4379.3	4279.1	4013.6	3728.1	3529.4	3487.7	3461.0	3472.7	3509.4	3541.1
4551.2	32.5°	4514.5	4414.3	4072.1	3654.7	3414.2	3349.1	3314.1	3329.1	3365.8	3377.5
4686.5	35°	4673.1	4559.6	4097.1	3537.8	3289.0	3188.9	3142.1	3120.4	3138.8	3127.1
4845.1	37.5°	4850.1	4731.5	4093.8	3384.2	3142.1	3026.9	2961.8	2880.0	2841.6	2801.5
5078.8	40°	5112.2	4941.9	4053.7	3198.9	2960.1	2854.9	2738.1	2599.5	2512.7	2434.2
5456.1	42.5°	5469.5	5234.1	3980.2	2995.2	2754.8	2656.3	2497.7	2335.7	2198.8	2068.6
6028.8	45°	6002.1	5616.4	3888.4	2778.1	2532.7	2435.9	2263.9	2081.9	1926.7	1759.7
6841.9	47.5°	6770.1	6130.6	3801.6	2531.1	2299.0	2210.5	2055.2	1886.6	1703.0	1541.0
8017.2	50°	7825.2	6868.6	3721.4	2290.6	2068.6	2001.8	1878.3	1706.3	1521.0	1390.7
9394.6	52.5°	9167.6	7872.0	3688.1	2058.6	1853.2	1828.2	1729.7	1569.4	1394.1	1283.9
11000.7	55°	10708.6	9072.4	3688.1	1836.5	1664.6	1672.9	1604.4	1455.9	1303.9	1205.4
12656.9	57.5°	12281.3	10287.8	3621.3	1631.2	1504.3	1539.3	1495.9	1365.7	1228.8	1127.0
14398.3	60°	13730.5	11306.3	3350.8	1444.2	1362.4	1417.5	1389.1	1277.2	1110.3	1025.1
15854.1	62.5°	14844.1	11880.6	2829.9	1295.6	1245.5	1308.9	1293.9	1160.3	1088.6	1053.5
17049.5	65°	15401.7	11787.1	2163.7	1163.7	1147.0	1245.5	1213.8	1208.8	1152.0	1111.9
17438.6	67.5°	15059.4	10982.4	1569.4	1066.8	1090.2	1187.1	1308.9	1329.0	1223.8	1145.3
16343.3	70°	13558.5	9526.5	1168.7	975.0	1018.4	1188.7	1492.6	1390.7	1200.4	1108.6
13107.7	72.5°	10314.5	7104.0	906.6	878.2	924.9	1197.1	1574.4	1362.4	1133.6	1225.5
8165.8	75°	5898.6	3900.1	727.9	759.6	808.1	1118.6	1532.7	1288.9	1081.9	1125.3
3235.6	77.5°	2248.9	1499.3	601.0	642.8	649.5	976.7	1465.9	1283.9	1030.1	1005.1
970.0	80°	779.7	586.0	497.5	510.9	502.5	868.2	1405.8	1116.9	843.1	754.6
400.7	82.5°	318.9	292.2	394.0	377.3	357.3	674.5	1135.3	913.2	689.5	609.4
193.7	85°	138.6	185.3	260.5	228.7	207.0	467.5	909.9	773.0	582.7	502.5
63.4	87.5°	28.4	70.1	110.2	103.5	106.9	312.2	646.1	549.3	412.4	308.9
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>
3197.2
3188.9
3250.6
3355.8
3474.4
3584.5
3659.7
3703.1
3728.1
3729.8
3704.8
3661.3
3576.2
3419.3
3163.8
2826.6
2439.2
2056.9
1739.7
1522.6
1382.4
1275.5
1195.4
1110.3
1011.8
1041.8
1098.6
1132.0
1093.6
1215.4
1125.3
916.6
729.6
602.7
500.9
242.1
0.0

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