

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: P942699

Luminaire Tested: **GALN-SB6D-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6D-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

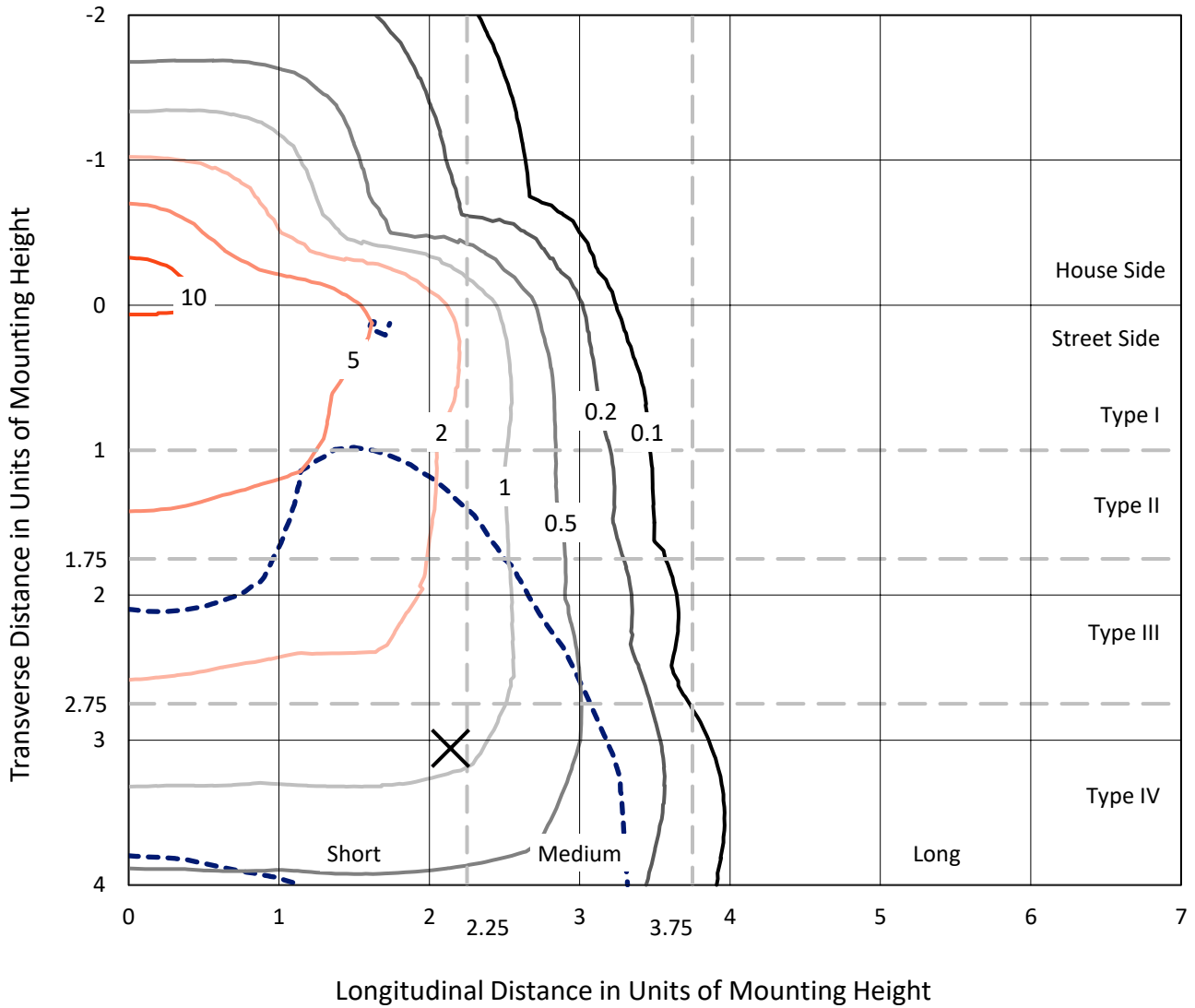
Lumens per Lamp: N/A  
Luminaire Lumens: 53035 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

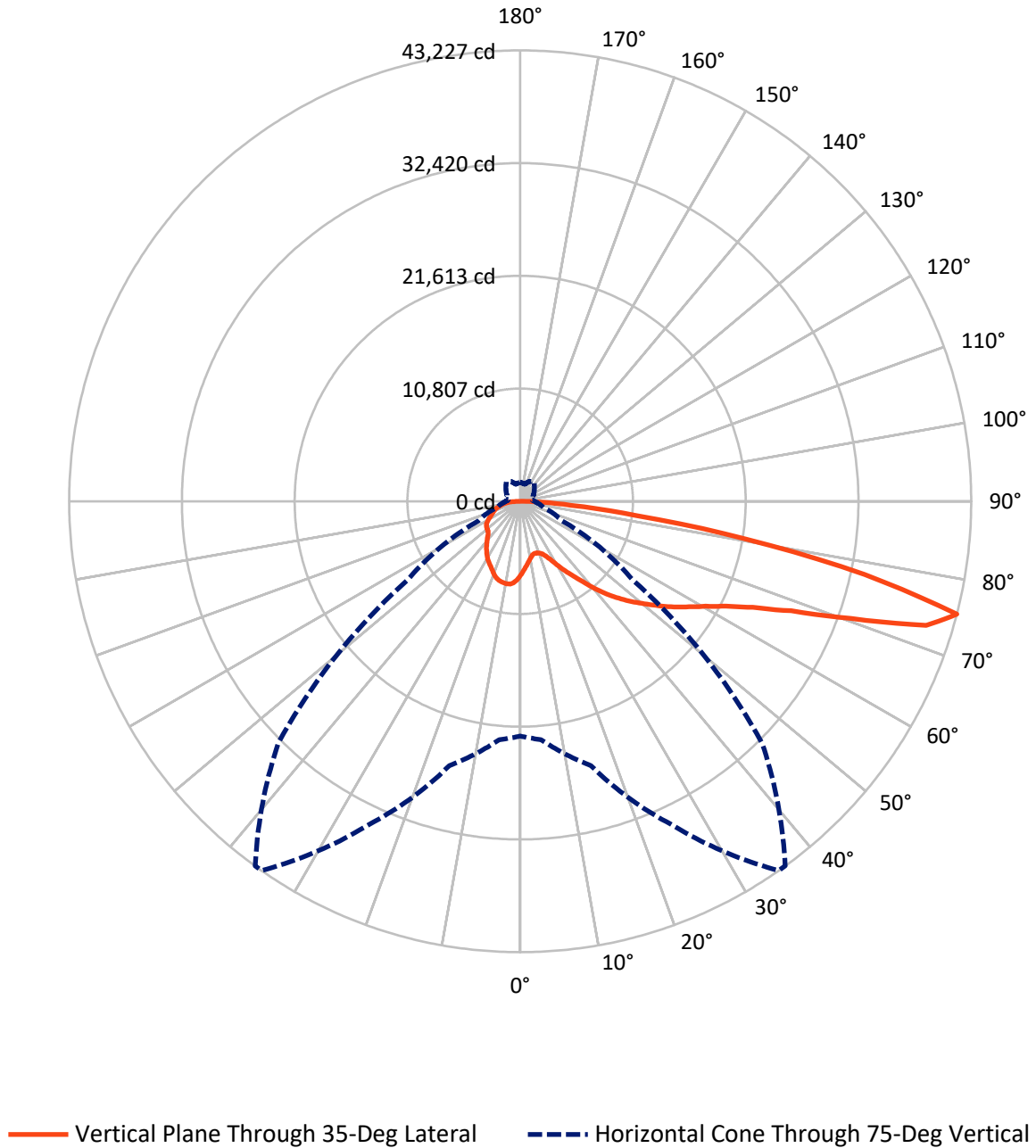
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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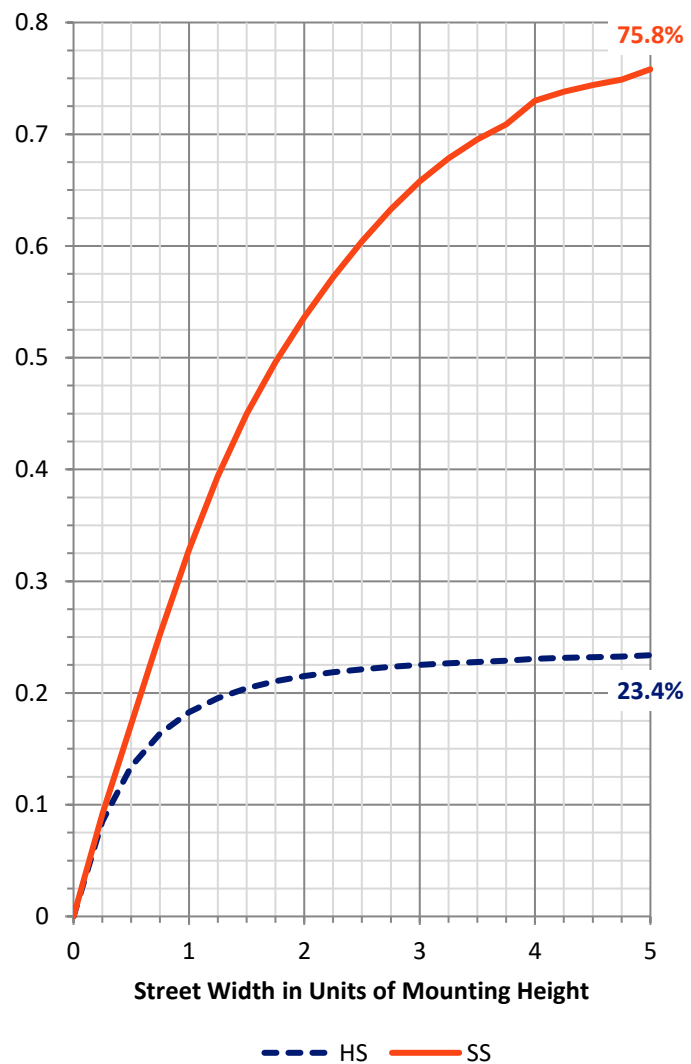
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12621.0	0.0	12621.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	40414.0	0.0	40414.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	53035.0	0.0	53035.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	669.1	1.3
10°-20°	1930.1	3.6
20°-30°	3241.1	6.1
30°-40°	5037.1	9.5
40°-50°	7476.4	14.1
50°-60°	10321.6	19.5
60°-70°	12522.4	23.6
70°-80°	10348.8	19.5
80°-90°	1488.5	2.8
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°	53035.0	100.0
0°-180°	53035.0	100.0

**Coefficient of Utilization**



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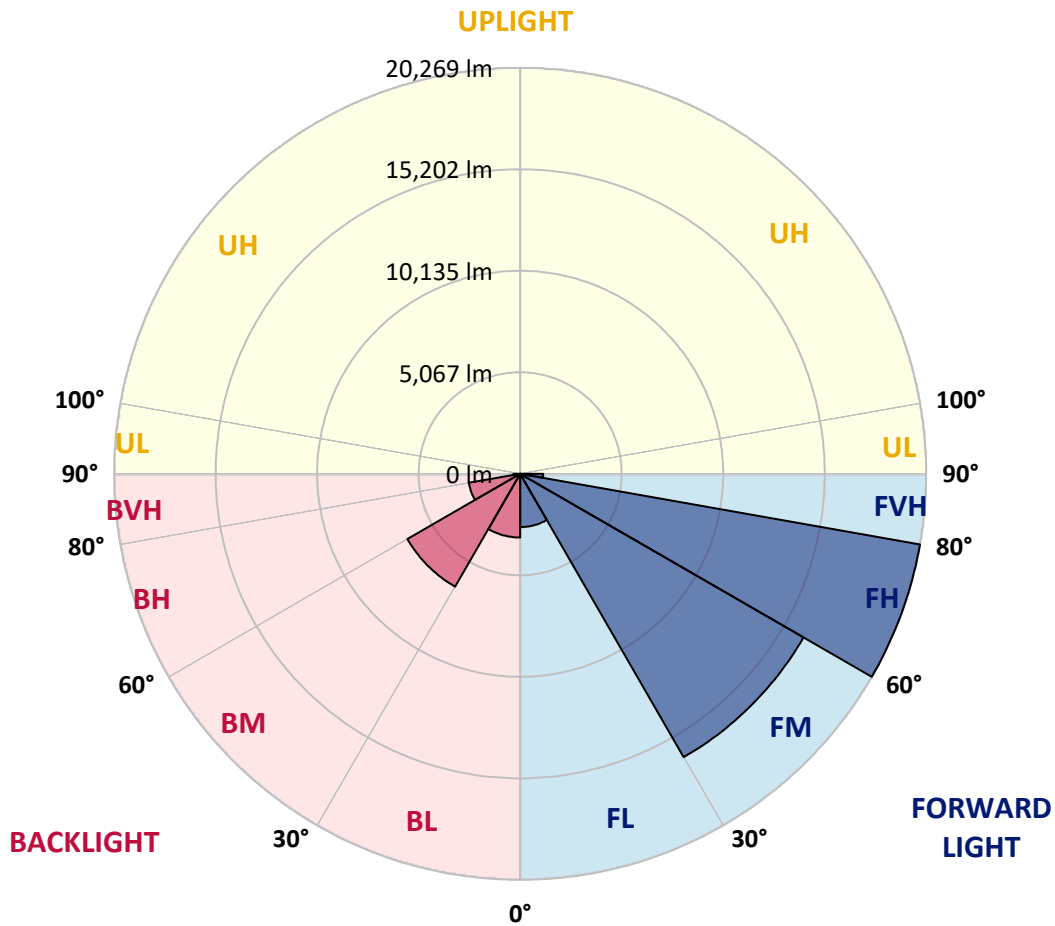
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2659.6	5.0			
FM (30°-60°)	16331.9	30.8			
FH (60°-80°)	20269.2	38.2			G5
FVH (80°-90°)	1153.3	2.2			G5
BL (0°-30°)	3180.7	6.0	B4/5000		
BM (30°-60°)	6503.1	12.3	B4/8500		
BH (60°-80°)	2602.1	4.9	B4/5000		G4/5000
BVH (80°-90°)	335.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3
2.5°	6516.8	6556.9	6574.1	6565.5	6608.5	6602.8	6663.0	6737.6	6840.8	6941.1
5°	6015.1	6058.1	6095.3	6129.7	6212.9	6238.7	6333.3	6476.7	6665.9	6858.0
7.5°	5547.7	5585.0	5642.3	5705.4	5845.9	5871.7	6029.4	6253.0	6516.8	6797.8
10°	5166.4	5203.7	5263.9	5335.6	5510.5	5542.0	5742.7	6040.9	6384.9	6740.4
12.5°	5003.0	5014.5	5048.9	5120.5	5272.5	5292.6	5513.3	5854.5	6255.9	6697.4
15°	4994.4	5017.3	5020.2	5057.5	5183.6	5192.2	5395.8	5734.1	6175.6	6688.8
17.5°	5080.4	5097.6	5071.8	5094.7	5200.8	5215.2	5375.7	5676.8	6149.8	6726.1
20°	5309.8	5324.1	5246.7	5215.2	5292.6	5304.0	5461.7	5714.0	6175.6	6803.5
22.5°	5797.2	5805.8	5616.5	5487.5	5493.3	5499.0	5636.6	5866.0	6276.0	6944.0
25°	6556.9	6551.2	6250.2	6000.7	5857.4	5825.8	5917.6	6112.5	6445.1	7130.3
27.5°	7445.7	7402.7	7101.7	6729.0	6416.5	6370.6	6350.5	6433.7	6686.0	7376.9
30°	8449.2	8409.1	8085.1	7597.7	7164.8	7090.2	6901.0	6858.0	7044.3	7712.4
32.5°	9550.1	9524.3	9137.3	8546.7	7967.5	7881.5	7563.3	7448.6	7594.8	8219.8
35°	10473.3	10450.4	10129.3	9521.5	8813.3	8707.2	8383.2	8254.2	8328.8	8870.6
37.5°	11307.6	11296.2	11020.9	10542.1	9811.0	9682.0	9317.9	9274.9	9260.6	9727.9
40°	12081.7	12053.1	11766.4	11514.1	10972.2	10854.6	10533.5	10496.3	10387.3	10783.0
42.5°	12939.0	12864.4	12448.7	12331.2	12185.0	12087.5	11895.4	11901.1	11660.3	11972.8
45°	13638.5	13595.5	13168.3	13099.5	13257.2	13217.1	13383.4	13426.4	12959.1	13220.0
47.5°	14389.7	14349.6	13988.3	13939.6	14366.8	14378.2	14966.0	14980.3	14226.3	14515.9
50°	15315.8	15258.4	14900.0	14960.3	15439.1	15482.1	16557.2	16459.7	15393.2	15831.8
52.5°	15926.4	15960.9	15883.4	15980.9	16634.6	16674.7	18122.6	17873.2	16548.6	17130.6
55°	16376.6	16445.4	16686.2	16909.8	17896.1	17936.3	19599.1	19217.8	17506.2	18334.8
57.5°	16955.7	16858.2	17308.4	17744.2	19094.5	19200.6	21035.5	20513.7	18354.8	19372.6
60°	17787.2	17718.4	18068.1	18713.2	20436.3	20605.5	22555.1	21680.6	18977.0	20195.5
62.5°	19473.0	19301.0	19355.4	19926.0	22127.9	22351.5	24269.6	22698.4	19286.6	20516.6
65°	21993.1	21697.8	21422.6	21818.2	24510.4	24731.2	26204.8	23498.3	19171.9	19894.4
67.5°	25166.9	24874.5	24536.2	24908.9	28019.7	28194.5	28593.1	23948.4	18268.8	17497.6
70°	27784.6	27675.6	28079.9	29613.7	33624.7	33630.5	31655.1	23575.7	15794.6	12405.7
72.5°	27437.6	27371.7	29501.9	34244.0	40689.1	40537.2	34553.7	20754.6	10639.6	5596.5
75°	22509.2	22936.4	26236.4	34160.9	43226.5	43206.4	32779.0	13194.2	4400.9	2319.4
77.5°	12070.3	12746.9	17033.1	25221.4	33745.2	34252.6	23045.3	4615.9	1889.4	1485.1
80°	3936.5	4527.1	6789.2	12841.5	21927.2	21832.6	9877.0	1812.0	1293.0	1052.2
82.5°	1671.5	1740.3	3033.3	6063.8	11253.2	11078.3	3145.2	1040.7	908.9	719.6
85°	653.7	731.1	1338.9	2804.0	4874.0	4767.9	1135.4	516.1	582.0	470.2
87.5°	215.0	260.9	478.8	960.5	1516.7	1462.2	278.1	177.8	252.3	215.0
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°
7067.3	0°	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3	7067.3
7087.3	2.5°	7127.5	7173.4	7227.8	7308.1	7376.9	7434.3	7494.5	7531.7	7546.1	7589.1
7098.8	5°	7179.1	7279.4	7414.2	7546.1	7675.1	7752.5	7821.3	7855.7	7887.2	7910.2
7130.3	7.5°	7265.1	7394.1	7606.3	7778.3	7887.2	7950.3	7996.2	7984.7	7996.2	8001.9
7164.8	10°	7339.6	7520.3	7772.6	7936.0	8019.1	8022.0	8010.5	7970.4	7950.3	7953.2
7216.4	12.5°	7428.5	7629.2	7901.6	8039.2	8062.1	7999.1	7950.3	7881.5	7855.7	7844.2
7293.8	15°	7548.9	7778.3	8042.1	8093.7	8036.3	7956.1	7872.9	7761.1	7703.8	7657.9
7425.7	17.5°	7695.2	7947.5	8151.0	8113.7	7990.5	7858.6	7723.8	7554.7	7437.1	7388.4
7606.3	20°	7898.7	8125.2	8234.2	8070.7	7884.4	7683.7	7454.3	7247.9	7138.9	7090.2
7835.6	22.5°	8145.3	8363.2	8314.4	7996.2	7732.4	7411.3	7124.6	6972.7	6918.2	6883.8
8130.9	25°	8440.6	8626.9	8371.8	7887.2	7483.0	7050.1	6829.3	6780.6	6754.8	6729.0
8492.2	27.5°	8824.8	8925.1	8414.8	7726.7	7093.1	6665.9	6585.6	6594.2	6585.6	6542.6
8993.9	30°	9332.2	9312.2	8454.9	7465.8	6645.8	6319.0	6324.7	6362.0	6367.7	6339.0
9693.5	32.5°	10000.3	9796.7	8475.0	7127.5	6218.6	6015.1	6020.8	6060.9	6089.6	6040.9
10608.1	35°	10808.8	10361.5	8443.5	6703.2	5888.9	5725.5	5682.5	5694.0	5702.6	5656.7
11717.6	37.5°	11752.0	10995.1	8303.0	6233.0	5616.5	5441.7	5349.9	5272.5	5226.6	5183.6
12973.4	40°	12787.0	11686.1	8044.9	5774.2	5312.6	5140.6	5003.0	4856.8	4702.0	4644.6
14303.7	42.5°	13870.8	12397.1	7732.4	5335.6	4962.9	4822.4	4676.2	4464.0	4231.8	4114.2
15685.6	45°	14994.7	13125.3	7425.7	4902.7	4604.5	4544.3	4375.1	4119.9	3867.6	3718.6
17070.4	47.5°	16095.6	13813.4	6975.5	4466.9	4269.0	4335.0	4203.1	3968.0	3687.0	3451.9
18443.7	50°	17147.8	14458.5	6238.7	4025.3	3996.7	4271.9	4145.8	3807.4	3486.3	3185.3
19791.2	52.5°	18191.4	14980.3	5295.4	3623.9	3850.4	4254.7	4071.2	3698.5	3305.7	2990.3
21058.5	55°	19077.3	15249.8	4386.6	3279.9	3638.3	4108.5	3982.3	3569.5	3050.5	2715.1
21927.2	57.5°	19581.9	15031.9	3629.7	2941.6	3345.8	3867.6	3830.4	3294.2	2746.6	2488.6
22096.3	60°	19364.0	14148.9	3010.4	2646.3	3067.7	3606.7	3566.6	3021.9	2514.4	2270.7
21190.3	62.5°	18162.7	12465.9	2520.1	2388.3	2815.4	3340.1	3302.8	2812.6	2336.6	2101.5
18784.9	65°	15743.0	10140.7	2138.8	2173.2	2560.3	3019.0	3073.5	2637.7	2196.2	1966.8
14533.1	67.5°	12007.2	7345.4	1840.6	1986.9	2310.8	2703.6	2861.3	2511.5	2078.6	1860.7
8409.1	70°	6843.6	4171.6	1588.3	1806.2	2090.1	2411.2	2697.9	2411.2	1952.5	1771.8
3150.9	72.5°	2594.7	1915.2	1373.3	1625.6	1877.9	2164.6	2517.3	2253.5	1806.2	1671.5
1628.5	75°	1384.8	1166.9	1155.4	1413.5	1634.2	1923.8	2290.8	2098.7	1697.3	1766.1
1126.7	77.5°	943.3	825.7	966.2	1209.9	1367.6	1657.2	2049.9	1863.6	1470.8	1465.1
779.8	80°	653.7	584.9	785.6	974.8	1057.9	1393.4	1789.0	1599.8	1198.4	1118.1
481.7	82.5°	392.8	381.3	587.7	728.2	748.3	1075.1	1482.3	1341.8	980.5	854.4
286.7	85°	215.0	226.5	375.6	427.2	435.8	751.2	1161.2	1037.9	754.0	633.6
103.2	87.5°	60.2	77.4	137.6	169.2	209.3	389.9	691.0	616.4	378.5	263.8
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>
7067.3
7586.2
7915.9
8010.5
7958.9
7838.5
7672.2
7391.2
7084.5
6889.5
6729.0
6551.2
6353.4
6063.8
5688.2
5212.3
4670.4
4128.5
3707.1
3426.1
3159.5
2955.9
2686.4
2454.2
2236.3
2064.3
1929.5
1826.3
1748.9
1648.6
1823.4
1350.4
1069.4
860.1
639.4
263.8
0.0

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