

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: P944052

Luminaire Tested: **GALN-SB8D-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

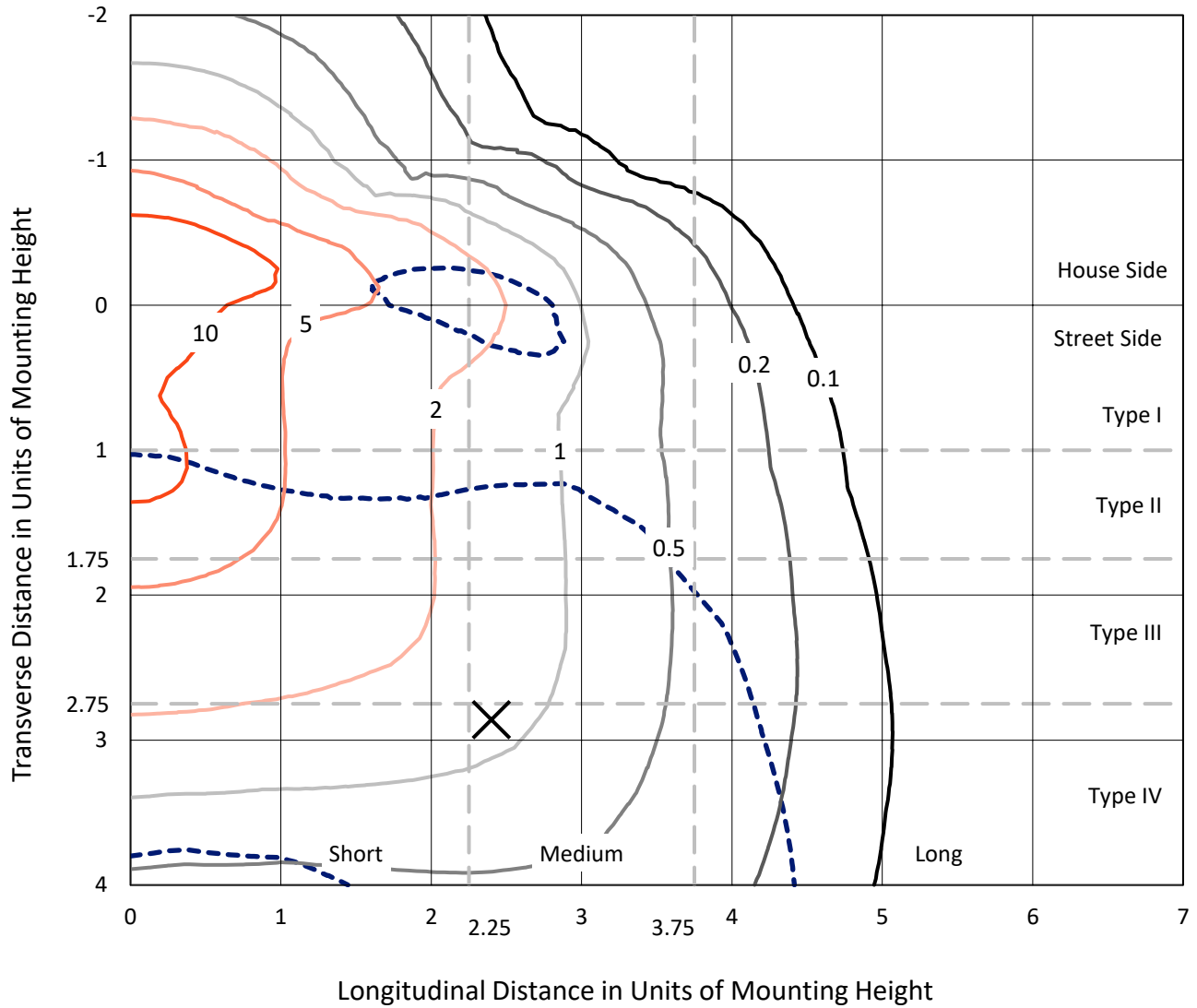
Lumens per Lamp: N/A  
Luminaire Lumens: 70927 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

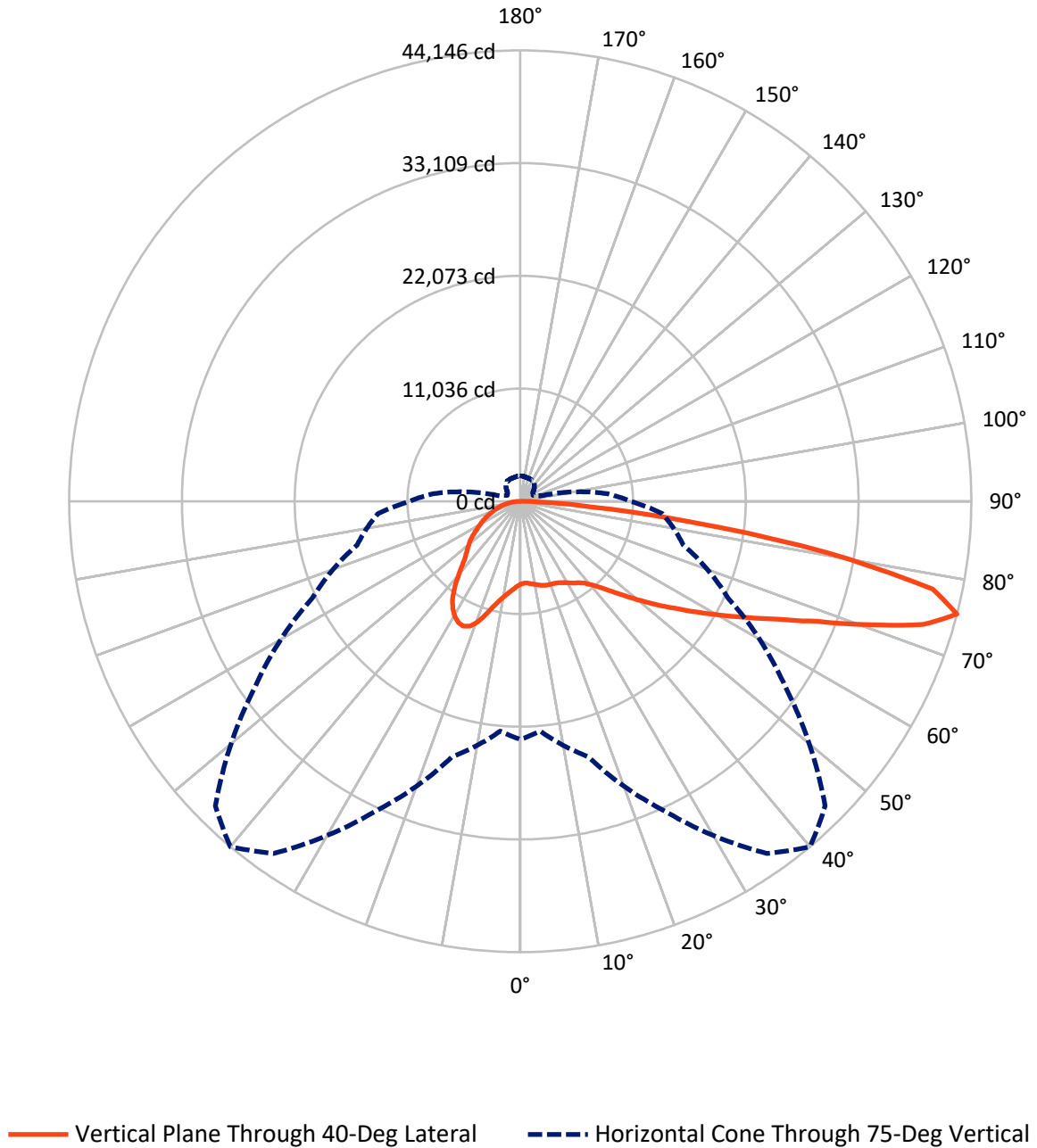
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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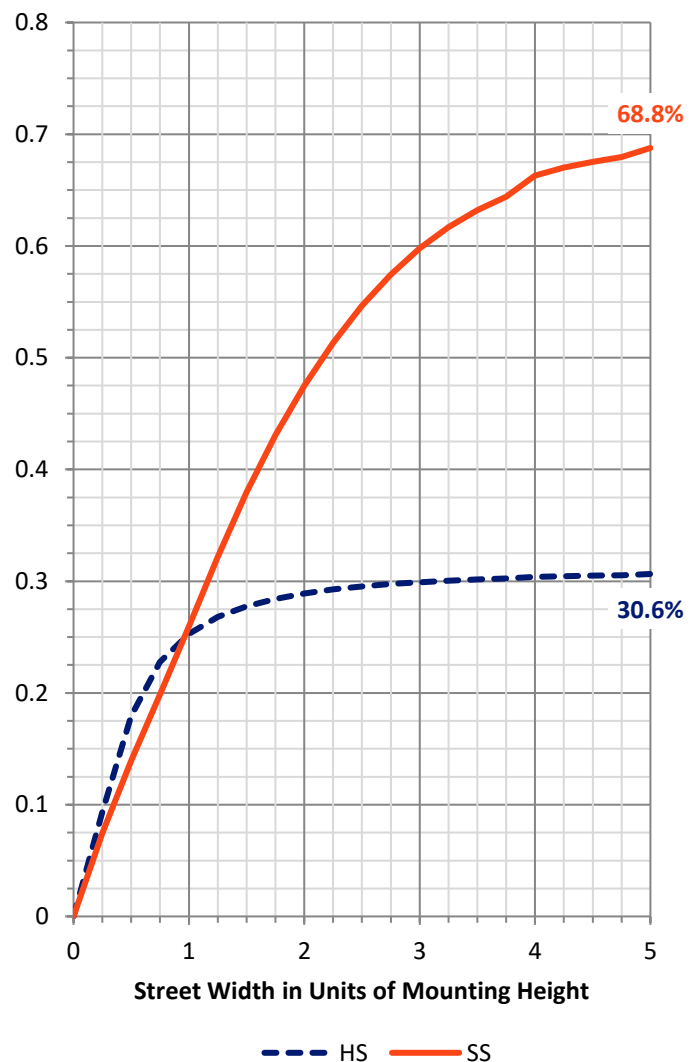
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21975.6	0.0	21975.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	48951.4	0.0	48951.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	70927.0	0.0	70927.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	809.6	1.1
10°-20°	2718.2	3.8
20°-30°	4963.2	7.0
30°-40°	7039.1	9.9
40°-50°	9504.9	13.4
50°-60°	12786.7	18.0
60°-70°	16229.2	22.9
70°-80°	14729.0	20.8
80°-90°	2147.0	3.0
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°	70927.0	100.0
0°-180°	70927.0	100.0

**Coefficient of Utilization**



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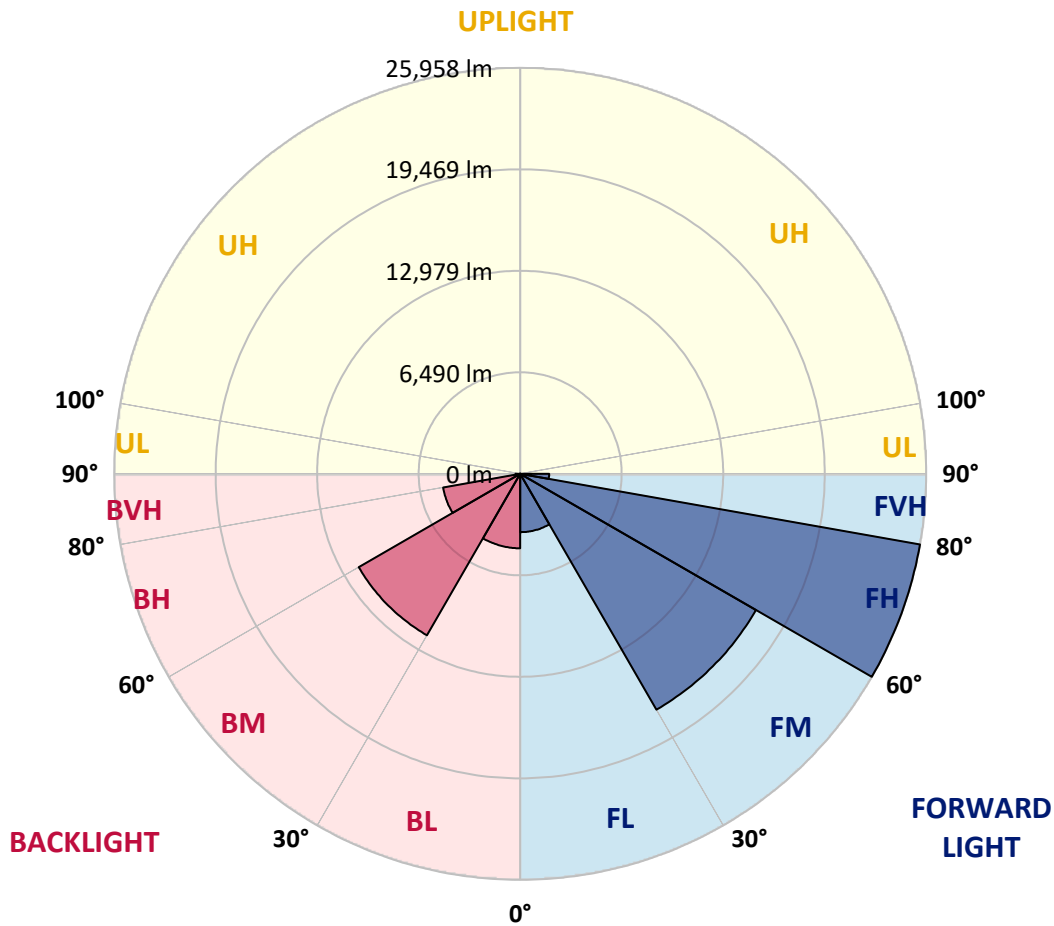
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3730.8	5.3			
FM (30°-60°)	17411.0	24.5			
FH (60°-80°)	25958.2	36.6			G5
FVH (80°-90°)	1851.4	2.6			G5
BL (0°-30°)	4760.1	6.7	B4/5000		
BM (30°-60°)	11919.8	16.8	B5		
BH (60°-80°)	5000.1	7.0	B5		G5
BVH (80°-90°)	295.6	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6
2.5°	7986.5	8031.6	8020.3	8005.3	8005.3	8009.0	8005.3	8031.6	8057.9	8084.3
5°	8069.2	8114.4	8091.8	8073.0	8057.9	8054.2	8042.9	8039.1	8054.2	8088.0
7.5°	8231.0	8276.1	8242.3	8208.4	8178.3	8163.3	8148.2	8125.6	8114.4	8133.2
10°	8411.5	8456.7	8415.3	8355.1	8306.2	8287.4	8272.4	8249.8	8234.7	8246.0
12.5°	8592.1	8637.3	8580.8	8498.1	8434.1	8422.8	8404.0	8396.5	8392.7	8389.0
15°	8761.4	8799.0	8727.5	8629.7	8562.0	8543.2	8524.4	8535.7	8554.5	8577.1
17.5°	8893.1	8930.7	8825.4	8697.4	8633.5	8626.0	8614.7	8652.3	8705.0	8761.4
20°	9013.4	9051.1	8915.6	8742.6	8667.4	8667.4	8671.1	8750.1	8825.4	8908.1
22.5°	9182.7	9212.8	9047.3	8810.3	8701.2	8708.7	8738.8	8817.8	8911.9	9024.7
25°	9434.8	9457.3	9254.2	8938.2	8814.1	8836.6	8863.0	8900.6	8990.9	9122.5
27.5°	9841.1	9859.9	9592.8	9163.9	8975.8	9013.4	9051.1	9024.7	9066.1	9179.0
30°	10412.9	10424.1	10085.6	9517.5	9250.4	9269.3	9276.8	9167.7	9088.7	9179.0
32.5°	11090.0	11086.2	10683.7	9946.4	9562.7	9543.9	9479.9	9265.5	9081.2	9160.2
35°	12139.6	12098.2	11579.0	10548.3	9916.3	9799.7	9649.2	9374.6	9118.8	9141.4
37.5°	13877.5	13749.6	13031.1	11533.9	10443.0	10145.8	9923.8	9551.4	9201.5	9133.8
40°	15837.5	15675.7	14885.7	12884.4	11233.0	10755.2	10397.8	9803.4	9337.0	9167.7
42.5°	18162.3	17932.8	17082.7	14475.7	12233.6	11541.4	11003.5	10123.2	9536.3	9276.8
45°	21017.6	20712.9	19509.1	16270.1	13493.8	12572.2	11853.7	10608.5	9841.1	9487.4
47.5°	23902.9	23978.2	22266.5	18324.1	15006.1	13843.7	12918.3	11338.3	10285.0	9826.0
50°	26968.9	27021.5	25008.9	20600.0	16721.5	15280.7	14114.5	12154.6	10901.9	10307.5
52.5°	29361.4	29368.9	27499.3	22981.3	18508.4	16860.7	15404.9	13087.6	11616.7	10947.0
55°	30858.6	30839.8	29244.8	25234.6	20562.4	18519.7	16834.4	14148.4	12489.4	11699.4
57.5°	31945.8	31889.4	30448.6	27172.0	22751.8	20479.6	18452.0	15352.2	13520.2	12594.7
60°	32359.6	32325.8	31264.9	28846.0	25054.1	22646.5	20317.9	16699.0	14690.1	13651.8
62.5°	32517.6	32581.6	32066.2	30467.4	27518.1	25046.5	22368.1	18309.0	16006.8	14848.1
65°	33074.4	33191.0	33085.7	32589.1	30301.9	27856.7	25087.9	20223.8	17443.8	16130.9
67.5°	34176.6	34293.2	34338.4	35128.4	33702.6	31359.0	28481.1	22608.9	19125.4	17462.6
70°	34150.3	34116.4	34913.9	37148.5	37961.1	36208.0	33055.6	25543.1	21130.4	18568.6
72.5°	31084.4	30813.5	32698.2	37125.9	41504.7	41271.5	38642.0	29327.6	22860.9	18704.0
75°	23319.8	22597.6	25926.8	33458.1	42095.4	44145.6	42193.2	31675.0	22450.9	16525.9
77.5°	9972.7	9246.7	13170.3	24768.2	37675.2	41267.7	38935.4	27634.7	17921.6	10928.2
80°	2610.7	2607.0	3980.1	11229.2	25622.1	30474.9	26735.6	17846.3	10239.8	3904.8
82.5°	1079.7	1053.3	1463.4	4367.5	12519.5	17101.5	13956.5	7960.1	3697.9	1057.1
85°	402.5	398.8	711.0	1508.5	4416.4	7053.5	5104.9	2035.2	921.7	515.4
87.5°	112.9	109.1	154.2	522.9	1075.9	1632.7	872.8	334.8	259.6	203.1
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°
8110.6	0°	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6	8110.6
8125.6	2.5°	8136.9	8155.7	8189.6	8215.9	8249.8	8287.4	8340.1	8373.9	8407.8	8430.4
8144.5	5°	8170.8	8212.2	8298.7	8385.2	8486.8	8580.8	8689.9	8768.9	8832.9	8851.7
8212.2	7.5°	8246.0	8313.7	8460.5	8607.2	8768.9	8923.2	9081.2	9216.6	9325.7	9367.1
8332.5	10°	8377.7	8468.0	8674.9	8881.8	9096.2	9333.2	9536.3	9732.0	9886.2	9950.2
8475.5	12.5°	8543.2	8656.1	8926.9	9212.8	9510.0	9837.3	10100.6	10341.4	10533.2	10619.8
8674.9	15°	8757.6	8904.4	9250.4	9634.2	10070.5	10525.7	10860.5	11127.6	11342.0	11447.4
8881.8	17.5°	8990.9	9186.5	9622.9	10202.2	10826.7	11424.8	11816.0	12011.7	12233.6	12335.2
9073.6	20°	9216.6	9457.3	10081.8	10924.5	11755.9	12391.6	12707.6	12760.3	12775.3	12786.6
9254.2	22.5°	9449.8	9773.3	10657.4	11834.9	12726.4	13166.6	13211.7	12986.0	12670.0	12523.3
9431.0	25°	9705.6	10134.5	11409.8	12839.3	13561.6	13614.2	13268.1	12718.9	12120.8	11846.1
9574.0	27.5°	9953.9	10552.1	12312.6	13798.5	14163.4	13700.7	12955.9	12177.2	11454.9	11165.2
9675.5	30°	10202.2	11029.8	13309.5	14637.4	14438.1	13486.3	12463.1	11594.1	10868.0	10563.3
9765.8	32.5°	10454.2	11586.6	14456.9	15243.1	14389.2	13031.1	11849.9	10939.5	10300.0	9980.2
9844.8	35°	10740.1	12271.2	15544.1	15574.2	14061.9	12361.5	11041.1	10157.1	9600.3	9344.5
9938.9	37.5°	11112.6	13140.2	16503.3	15656.9	13490.1	11379.7	10036.7	9231.6	8772.7	8656.1
10078.1	40°	11575.3	14186.0	17236.9	15525.2	12643.7	10187.2	8938.2	8294.9	8035.4	8061.7
10266.1	42.5°	12177.2	15356.0	17752.3	15186.7	11466.2	8957.0	7975.2	7689.3	7813.4	7918.7
10548.3	45°	12959.7	16571.0	18072.0	14611.1	10134.5	7915.0	7407.1	7474.8	7568.9	7580.2
11003.5	47.5°	13960.3	17801.2	18282.7	13742.1	8776.4	7181.4	7046.0	7061.0	7042.2	6963.2
11684.4	50°	15209.3	18997.5	18470.8	12591.0	7621.6	6722.5	6541.9	6489.2	6229.7	5973.9
12591.0	52.5°	16631.2	20095.9	18549.8	11161.5	6722.5	6338.8	6045.3	5714.3	5229.0	5150.0
13730.8	55°	18211.2	21111.6	18346.7	9404.7	5966.3	5845.9	5402.0	5003.3	4950.6	4882.9
15231.8	57.5°	20099.7	22206.3	17932.8	7444.7	5191.4	5270.4	4837.8	4882.9	4788.9	4683.5
17161.7	60°	22165.0	23338.7	17206.8	5657.9	4390.1	4551.9	4691.1	4687.3	4661.0	4574.4
19196.8	62.5°	24023.3	24083.5	15777.3	4333.7	3686.6	3995.1	4375.1	4371.3	4348.7	4299.8
21322.3	65°	25129.3	23970.7	13392.3	3412.0	3107.3	3536.2	3946.2	3976.3	3980.1	3976.3
22921.1	67.5°	24933.7	22650.2	10119.4	2716.1	2629.5	3069.7	3521.1	3562.5	3592.6	3600.1
23124.2	70°	22721.7	19749.8	6598.3	2166.8	2204.5	2659.6	3118.6	3160.0	3186.3	3216.4
20065.8	72.5°	17710.9	14520.8	3776.9	1753.0	1832.0	2306.0	2719.8	2768.7	2783.8	2840.2
13964.1	75°	10792.8	8539.5	2038.9	1380.6	1504.7	1971.2	2324.8	2381.3	2407.6	2475.3
6857.9	77.5°	5131.2	3697.9	1162.4	1075.9	1211.3	1610.1	1963.7	2027.6	1956.2	1993.8
1892.2	80°	1734.2	1373.1	733.6	820.1	925.4	1256.5	1572.5	1636.4	1485.9	1478.4
628.2	82.5°	605.7	556.8	466.5	545.5	598.1	899.1	1188.8	1271.5	1106.0	1102.2
282.1	85°	237.0	225.7	259.6	297.2	357.4	553.0	782.5	823.9	680.9	549.2
82.8	87.5°	48.9	52.7	64.0	67.7	109.1	191.9	282.1	346.1	274.6	233.2
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

180°  
8110.6  
8415.3  
8859.2  
9370.8  
9953.9  
10619.8  
11439.9  
12331.4  
12816.7  
12564.7  
11887.5  
11199.1  
10597.2  
10021.6  
9400.9  
8738.8  
8152.0  
8016.6  
7655.4  
7023.4  
6007.7  
5176.3  
4894.2  
4664.7  
4544.3  
4281.0  
3976.3  
3607.6  
3231.4  
2862.8  
*2482.8*  
1963.7  
1463.4  
1049.6  
541.7  
214.4  
0.0

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