

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: P943852

Luminaire Tested: **GALN-SB8C-740-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943852  
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-SB8C-740-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

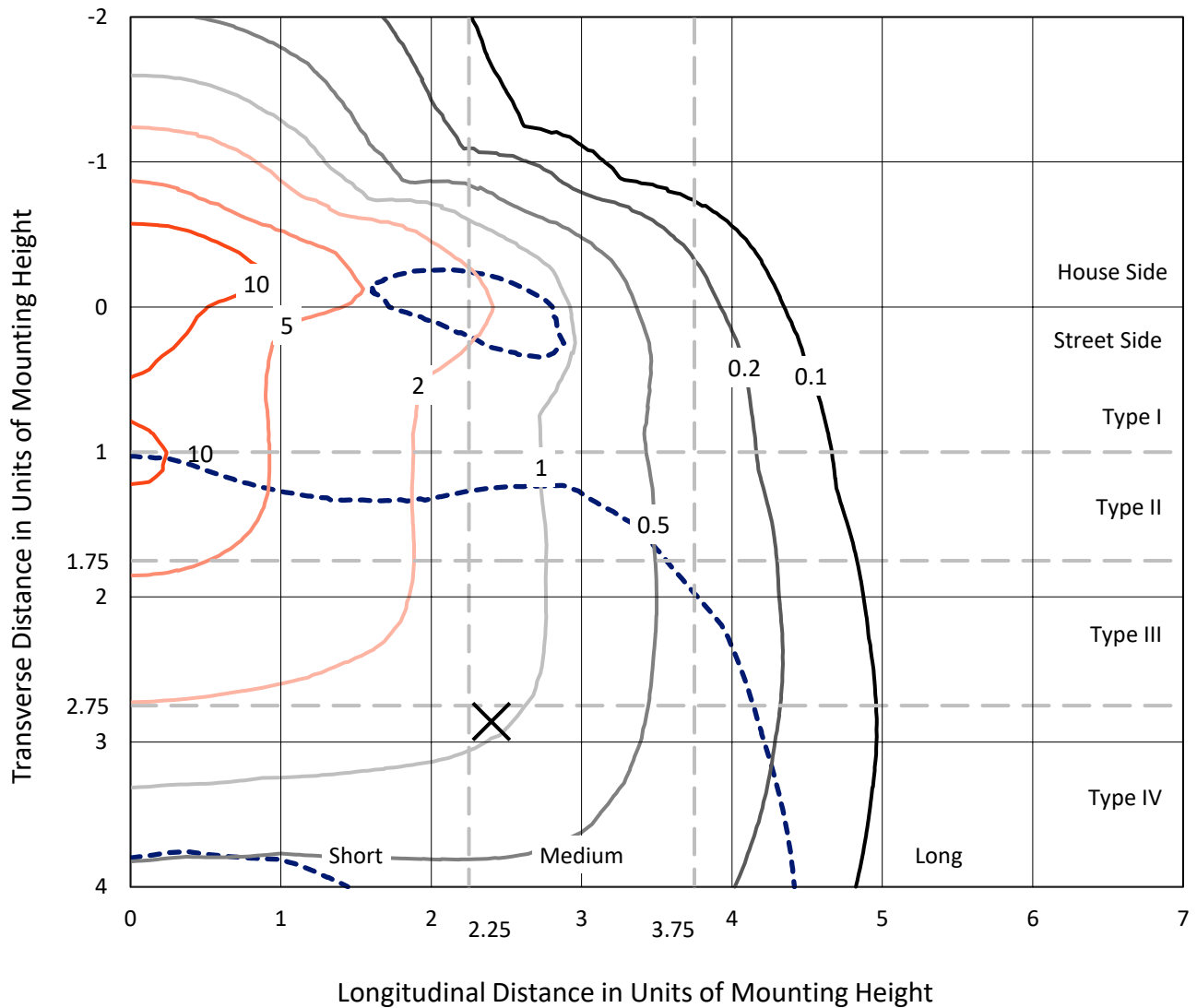
Lumens per Lamp: N/A  
Luminaire Lumens: 63509 lumens  
Efficiency: N/A  
Efficacy: 158.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

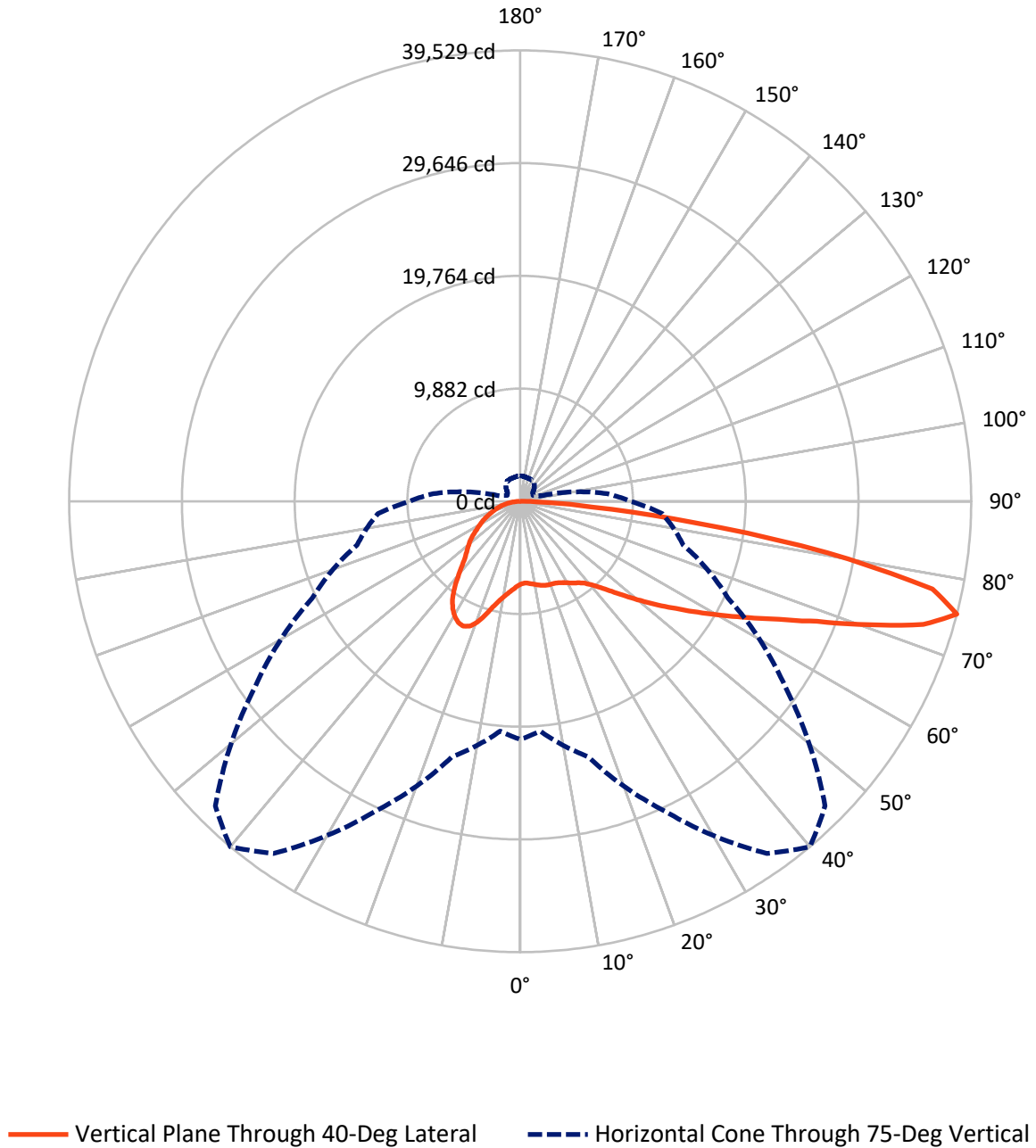
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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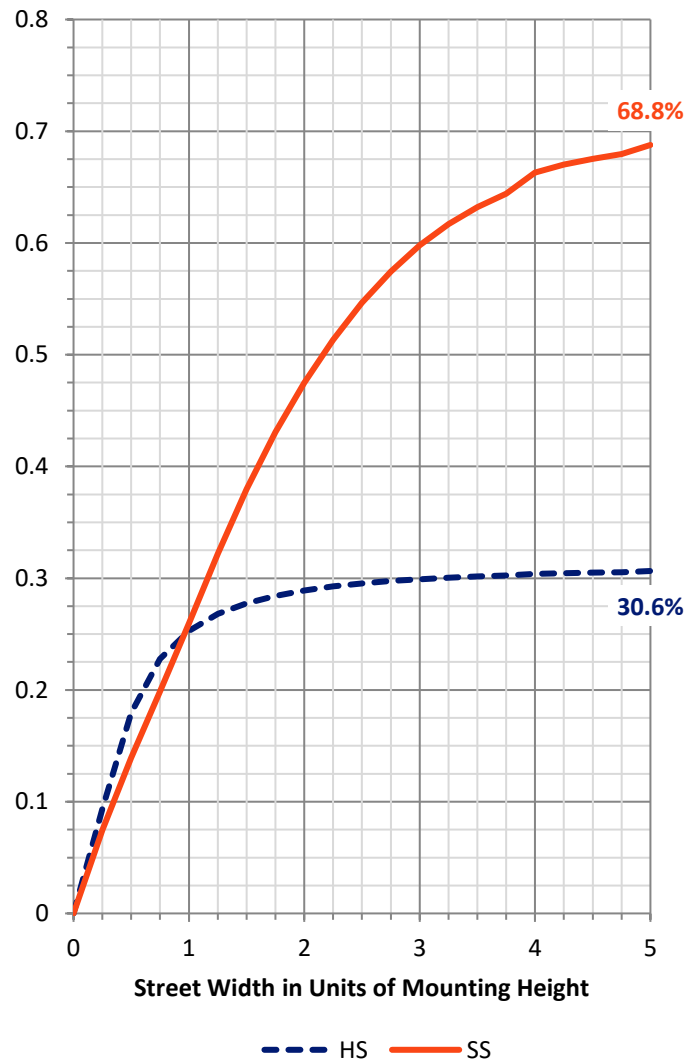
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19677.2	0.0	19677.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	43831.8	0.0	43831.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	63509.0	0.0	63509.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	724.9	1.1
10°-20°	2433.9	3.8
20°-30°	4444.1	7.0
30°-40°	6302.9	9.9
40°-50°	8510.8	13.4
50°-60°	11449.4	18.0
60°-70°	14531.9	22.9
70°-80°	13188.6	20.8
80°-90°	1922.5	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°	63509.0	100.0
0°-180°	63509.0	100.0



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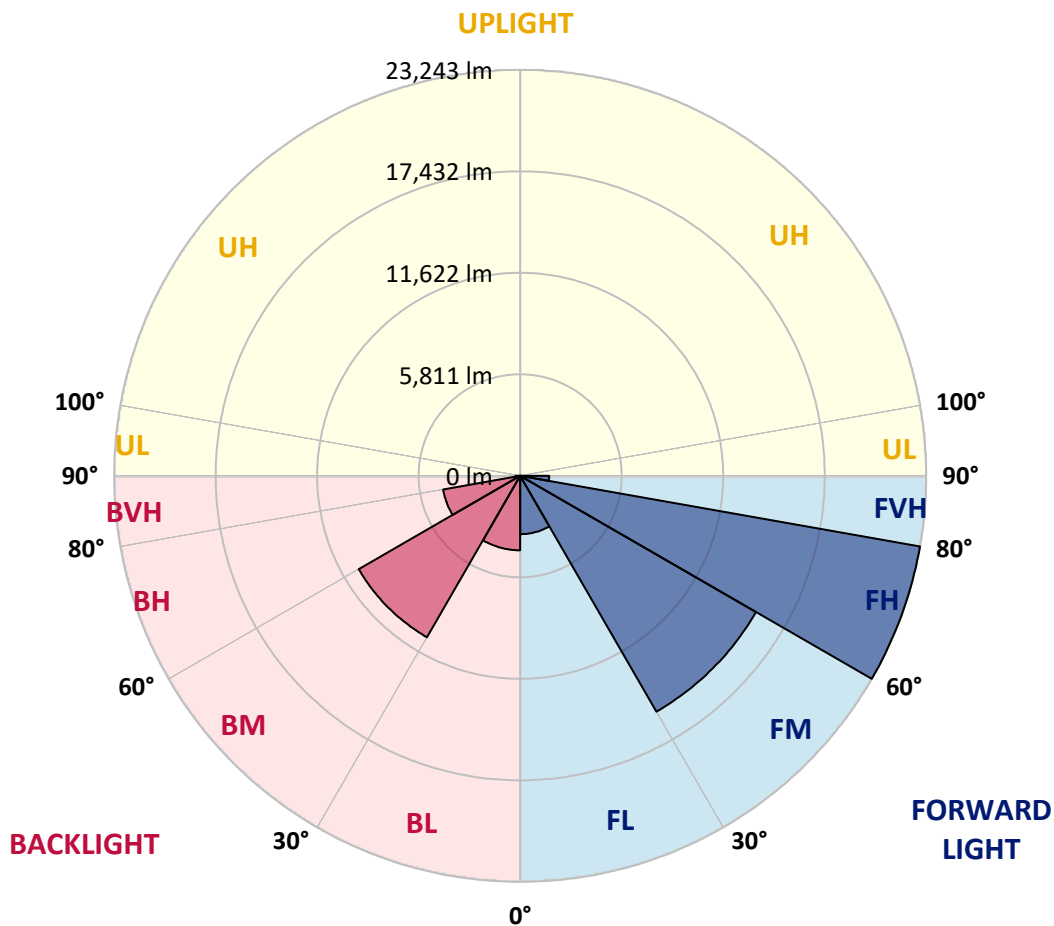
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3340.6	5.3			
FM (30°-60°)	15590.0	24.5			
FH (60°-80°)	23243.3	36.6			G5
FVH (80°-90°)	1657.8	2.6			G5
BL (0°-30°)	4262.3	6.7	B4/5000		
BM (30°-60°)	10673.1	16.8	B5		
BH (60°-80°)	4477.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	264.7	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°	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3
2.5°	7151.2	7191.6	7181.5	7168.0	7168.0	7171.4	7168.0	7191.6	7215.2	7238.8
5°	7225.3	7265.7	7245.5	7228.7	7215.2	7211.8	7201.7	7198.3	7211.8	7242.1
7.5°	7370.1	7410.5	7380.2	7349.9	7323.0	7309.5	7296.0	7275.8	7265.7	7282.5
10°	7531.8	7572.2	7535.2	7481.3	7437.5	7420.7	7407.2	7387.0	7373.5	7383.6
12.5°	7693.5	7733.9	7683.4	7609.3	7552.0	7541.9	7525.1	7518.3	7515.0	7511.6
15°	7845.1	7878.8	7814.8	7727.2	7666.6	7649.7	7632.9	7643.0	7659.8	7680.0
17.5°	7963.0	7996.7	7902.3	7787.8	7730.6	7723.8	7713.7	7747.4	7794.6	7845.1
20°	8070.8	8104.4	7983.2	7828.2	7760.9	7760.9	7764.2	7835.0	7902.3	7976.4
22.5°	8222.3	8249.3	8101.1	7888.9	7791.2	7797.9	7824.9	7895.6	7979.8	8080.9
25°	8448.0	8468.2	8286.3	8003.4	7892.2	7912.4	7936.0	7969.7	8050.6	8168.4
27.5°	8811.8	8828.7	8589.5	8205.5	8037.1	8070.8	8104.4	8080.9	8117.9	8219.0
30°	9323.8	9333.9	9030.8	8522.1	8283.0	8299.8	8306.6	8208.9	8138.1	8219.0
32.5°	9930.1	9926.8	9566.3	8906.1	8562.6	8545.7	8488.4	8296.4	8131.4	8202.1
35°	10869.9	10832.9	10368.0	9445.1	8879.2	8774.8	8640.0	8394.1	8165.1	8185.3
37.5°	12426.1	12311.6	11668.2	10327.6	9350.8	9084.7	8885.9	8552.4	8239.2	8178.6
40°	14181.1	14036.3	13328.9	11536.9	10058.1	9630.3	9310.3	8778.1	8360.4	8208.9
42.5°	16262.8	16057.3	15296.0	12961.7	10954.1	10334.3	9852.7	9064.4	8539.0	8306.6
45°	18819.4	18546.6	17468.7	14568.5	12082.6	11257.3	10613.9	9499.0	8811.8	8495.2
47.5°	21403.0	21470.4	19937.7	16407.6	13436.7	12395.8	11567.2	10152.5	9209.3	8798.3
50°	24148.3	24195.4	22393.3	18445.5	14972.7	13682.6	12638.4	10883.4	9761.7	9229.5
52.5°	26290.6	26297.3	24623.2	20577.7	16572.7	15097.3	13793.7	11718.8	10401.7	9802.1
55°	27631.2	27614.4	26186.2	22595.4	18411.8	16582.8	15073.7	12668.7	11183.2	10475.8
57.5°	28604.7	28554.2	27264.1	24330.2	20372.3	18337.7	16522.2	13746.6	12106.1	11277.5
60°	28975.2	28944.9	27995.0	25829.1	22433.8	20278.0	18192.9	14952.5	13153.7	12224.0
62.5°	29116.7	29174.0	28712.5	27280.9	24640.1	22427.0	20028.7	16394.2	14332.7	13295.2
65°	29615.3	29719.7	29625.4	29180.7	27132.7	24943.2	22464.1	18108.7	15619.4	14443.8
67.5°	30602.2	30706.6	30747.0	31454.4	30177.8	28079.2	25502.4	20244.3	17125.1	15636.3
70°	30578.6	30548.3	31262.4	33263.3	33990.8	32421.2	29598.4	22871.7	18920.5	16626.6
72.5°	27833.4	27590.8	29278.4	33243.1	37163.9	36955.1	34600.5	26260.3	20470.0	16747.8
75°	20880.9	20234.2	23215.2	29958.8	37692.8	39528.5	37780.3	28362.2	20102.8	14797.5
77.5°	8929.7	8279.6	11792.9	22177.8	33734.8	36951.7	34863.3	24744.5	16047.2	9785.3
80°	2337.7	2334.3	3563.8	10054.8	22942.4	27287.7	23939.4	15979.8	9168.9	3496.4
82.5°	966.7	943.2	1310.3	3910.7	11210.1	15312.9	12496.9	7127.6	3311.2	946.5
85°	360.4	357.1	636.6	1350.7	3954.5	6315.8	4571.0	1822.3	825.3	461.5
87.5°	101.1	97.7	138.1	468.2	963.4	1461.9	781.5	299.8	232.4	181.9
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°
7262.3	0°	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3	7262.3
7275.8	2.5°	7285.9	7302.8	7333.1	7356.7	7387.0	7420.7	7467.8	7498.1	7528.4	7548.7
7292.7	5°	7316.2	7353.3	7430.8	7508.2	7599.2	7683.4	7781.1	7851.8	7909.1	7925.9
7353.3	7.5°	7383.6	7444.2	7575.6	7707.0	7851.8	7989.9	8131.4	8252.7	8350.3	8387.4
7461.1	10°	7501.5	7582.3	7767.6	7952.9	8144.9	8357.1	8539.0	8714.1	8852.2	8909.5
7589.1	12.5°	7649.7	7750.8	7993.3	8249.3	8515.4	8808.4	9044.2	9259.8	9431.6	9509.1
7767.6	15°	7841.7	7973.1	8283.0	8626.6	9017.3	9424.9	9724.7	9963.8	10155.8	10250.1
7952.9	17.5°	8050.6	8225.7	8616.4	9135.2	9694.3	10229.9	10580.2	10755.4	10954.1	11045.1
8124.7	20°	8252.7	8468.2	9027.4	9781.9	10526.3	11095.6	11378.6	11425.7	11439.2	11449.3
8286.3	22.5°	8461.5	8751.2	9542.8	10597.1	11395.4	11789.5	11829.9	11627.8	11344.9	11213.5
8444.7	25°	8690.6	9074.6	10216.5	11496.5	12143.2	12190.4	11880.5	11388.7	10853.1	10607.2
8572.7	27.5°	8912.9	9448.5	11024.9	12355.4	12682.1	12267.8	11600.9	10903.6	10256.9	9997.5
8663.6	30°	9135.2	9876.2	11917.5	13106.6	12928.0	12075.8	11159.6	10381.5	9731.4	9458.6
8744.4	32.5°	9360.9	10374.8	12944.9	13648.9	12884.3	11668.2	10610.6	9795.4	9222.8	8936.4
8815.2	35°	9616.9	10987.8	13918.4	13945.3	12591.2	11068.7	9886.3	9094.8	8596.2	8367.2
8899.4	37.5°	9950.3	11765.9	14777.3	14019.4	12079.2	10189.5	8987.0	8266.1	7855.2	7750.8
9024.0	40°	10364.7	12702.4	15434.2	13901.5	11321.3	9121.7	8003.4	7427.4	7195.0	7218.5
9192.5	42.5°	10903.6	13749.9	15895.6	13598.4	10267.0	8020.2	7141.1	6885.1	6996.2	7090.5
9445.1	45°	11604.2	14837.9	16181.9	13083.0	9074.6	7087.2	6632.4	6693.1	6777.3	6787.4
9852.7	47.5°	12500.3	15939.4	16370.6	12304.9	7858.6	6430.3	6309.1	6322.5	6305.7	6235.0
10462.3	50°	13618.6	17010.6	16539.0	11274.1	6824.4	6019.4	5857.7	5810.5	5578.1	5349.1
11274.1	52.5°	14891.8	17994.2	16609.7	9994.1	6019.4	5675.8	5413.1	5116.6	4682.1	4611.4
12294.8	55°	16306.6	18903.6	16427.8	8421.1	5342.3	5234.5	4837.1	4480.0	4432.9	4372.2
13638.8	57.5°	17997.5	19883.9	16057.3	6666.1	4648.4	4719.2	4331.8	4372.2	4288.0	4193.7
15366.8	60°	19846.8	20897.8	15407.2	5066.1	3931.0	4075.8	4200.4	4197.1	4173.5	4096.0
17189.1	62.5°	21510.8	21564.7	14127.2	3880.4	3301.1	3577.3	3917.5	3914.1	3893.9	3850.1
19092.3	65°	22501.1	21463.6	11991.6	3055.2	2782.3	3166.3	3533.5	3560.4	3563.8	3560.4
20523.9	67.5°	22326.0	20281.3	9061.1	2432.0	2354.5	2748.6	3152.9	3189.9	3216.9	3223.6
20705.7	70°	20345.3	17684.3	5908.2	1940.2	1973.9	2381.5	2792.4	2829.5	2853.1	2880.0
17967.2	72.5°	15858.6	13002.1	3381.9	1569.7	1640.4	2064.8	2435.4	2479.2	2492.6	2543.2
12503.6	75°	9664.0	7646.3	1825.7	1236.2	1347.4	1765.1	2081.7	2132.2	2155.8	2216.4
6140.7	77.5°	4594.5	3311.2	1040.8	963.4	1084.6	1441.7	1758.3	1815.6	1751.6	1785.3
1694.3	80°	1552.8	1229.5	656.8	734.3	828.6	1125.1	1408.0	1465.3	1330.5	1323.8
562.5	82.5°	542.3	498.5	417.7	488.4	535.6	805.1	1064.4	1138.5	990.3	987.0
252.6	85°	212.2	202.1	232.4	266.1	320.0	495.2	700.6	737.7	609.7	491.8
74.1	87.5°	43.8	47.2	57.3	60.6	97.7	171.8	252.6	309.9	245.9	208.8
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

180°  
7262.3  
7535.2  
7932.7  
8390.8  
8912.9  
9509.1  
10243.4  
11041.7  
11476.2  
11250.6  
10644.2  
10027.8  
9488.9  
8973.5  
8417.7  
7824.9  
7299.4  
7178.1  
6854.8  
6288.9  
5379.4  
4635.0  
4382.3  
4176.9  
4069.1  
3833.3  
3560.4  
3230.3  
2893.5  
2563.4  
2223.2  
1758.3  
1310.3  
939.8  
485.1  
192.0  
0.0

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