

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: P956942

Luminaire Tested: **GALN-SB9B-940-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9B-940-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

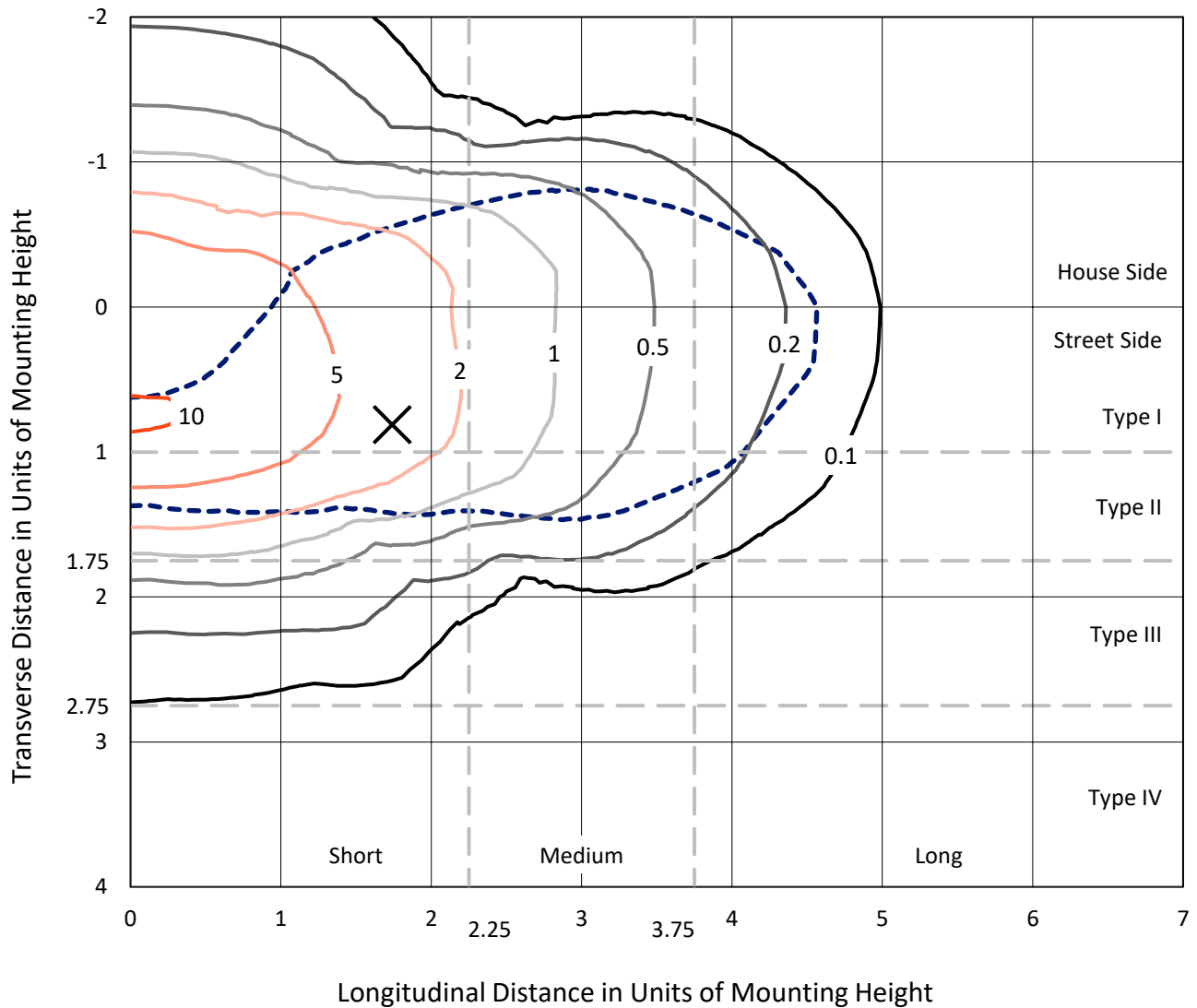
Lumens per Lamp: N/A  
Luminaire Lumens: 37664 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

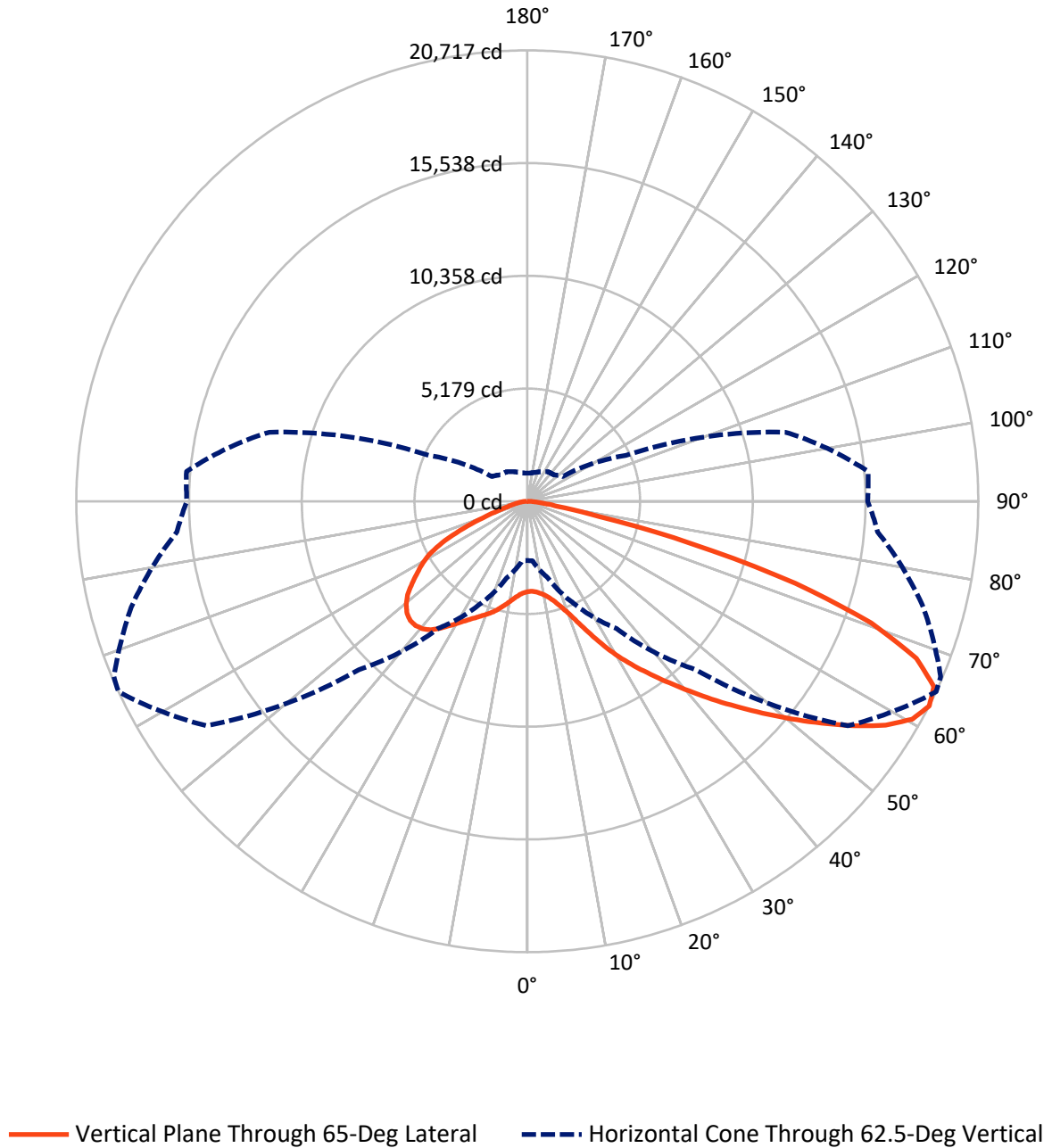
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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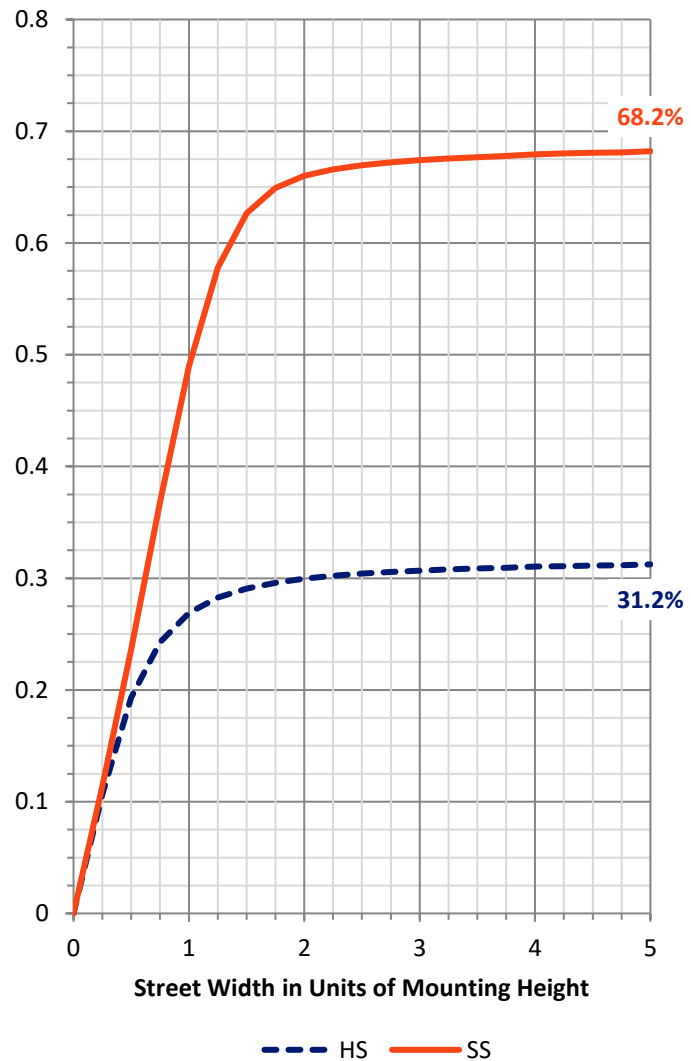
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11885.1	0.0	11885.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	25778.9	0.0	25778.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	37664.0	0.0	37664.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.8	1.1
10°-20°	1403.2	3.7
20°-30°	2845.1	7.6
30°-40°	4923.5	13.1
40°-50°	7450.7	19.8
50°-60°	8735.5	23.2
60°-70°	7323.7	19.4
70°-80°	4043.3	10.7
80°-90°	525.2	1.4
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°	37664.0	100.0
0°-180°	37664.0	100.0

**Coefficient of Utilization**



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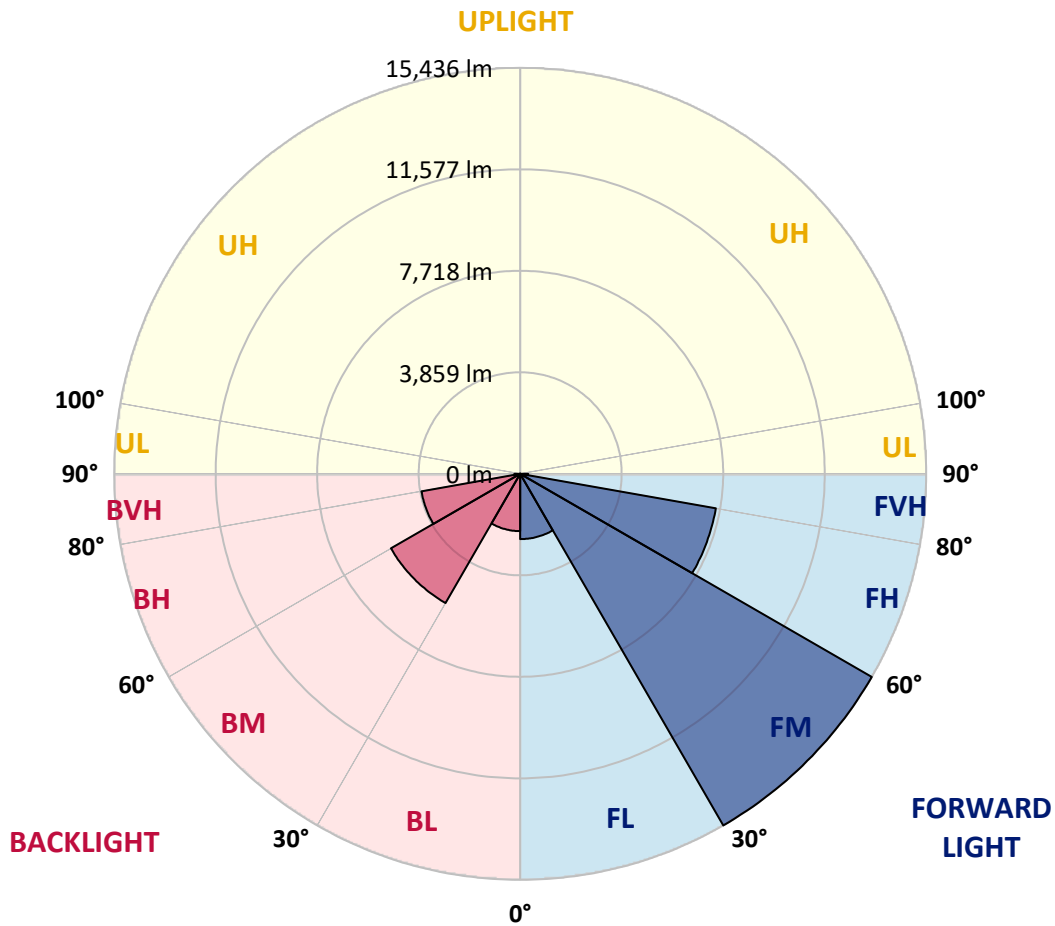
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.6	6.6			
FM (30°-60°)	15435.9	41.0			
FH (60°-80°)	7554.3	20.1			G4/12000
FVH (80°-90°)	306.1	0.8			G3/500
BL (0°-30°)	2179.6	5.8	B3/2500		
BM (30°-60°)	5673.8	15.1	B4/8500		
BH (60°-80°)	3812.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	219.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4
2.5°	4123.1	4111.3	4121.1	4121.1	4125.0	4123.1	4136.7	4140.6	4146.5	4158.2
5°	4082.0	4080.1	4097.7	4113.3	4128.9	4142.6	4160.2	4185.6	4189.5	4203.2
7.5°	4068.3	4056.6	4084.0	4103.5	4140.6	4173.9	4220.8	4263.7	4281.3	4287.2
10°	4173.9	4154.3	4179.7	4191.4	4222.7	4255.9	4310.6	4379.0	4398.6	4422.0
12.5°	4353.6	4332.1	4369.3	4386.8	4416.2	4445.5	4482.6	4549.0	4558.8	4601.8
15°	4599.8	4574.4	4597.9	4619.4	4668.2	4695.6	4732.7	4797.2	4797.2	4830.4
17.5°	4934.0	4900.8	4918.4	4926.2	4957.4	4998.5	5061.0	5117.7	5147.0	5135.3
20°	5432.3	5391.2	5391.2	5352.2	5340.4	5373.6	5455.7	5533.9	5565.1	5504.6
22.5°	6180.7	6122.0	6088.8	5956.0	5903.2	5907.1	5989.2	6084.9	6110.3	6002.9
25°	7132.3	7040.5	6995.5	6800.1	6680.9	6577.3	6641.8	6764.9	6800.1	6667.2
27.5°	8083.9	8089.8	8046.8	7812.3	7614.9	7425.4	7392.2	7521.2	7558.3	7407.8
30°	9418.5	9279.8	9197.7	8916.3	8635.0	8369.2	8232.4	8285.2	8295.0	8115.2
32.5°	10569.5	10534.3	10358.4	10112.2	9750.7	9334.5	9105.9	9021.9	9006.2	8750.3
35°	11880.6	11861.1	11675.5	11382.4	10991.6	10413.2	10000.8	9760.5	9741.0	9381.4
37.5°	13213.3	13213.3	13031.6	12711.1	12306.6	11583.6	10956.4	10575.3	10512.8	10043.8
40°	14276.3	14211.8	14245.0	14110.2	13647.1	12879.2	12017.4	11464.4	11380.4	10817.6
42.5°	14880.1	14858.6	15057.9	15208.4	15018.9	14405.3	13186.0	12427.8	12310.5	11669.6
45°	15014.9	14991.5	15347.1	15898.2	16163.9	15911.9	14456.1	13441.9	13299.3	12560.7
47.5°	14704.3	14657.4	15179.1	16048.6	16900.6	17344.2	15831.7	14542.1	14334.9	13428.3
50°	13770.2	13725.3	14514.7	15669.6	17148.8	18317.3	17324.6	15708.6	15392.1	14358.4
52.5°	11740.0	11761.4	12998.4	14585.1	16822.4	18923.1	18610.4	16937.7	16556.7	15310.0
55°	9145.0	9191.9	10712.1	12459.0	15517.1	18831.2	19487.8	18204.0	17824.9	16205.0
57.5°	6548.0	6755.2	8179.7	9909.0	13010.1	17375.4	19679.3	19407.7	19040.3	17182.0
60°	4244.2	4281.3	5746.9	7489.9	9907.1	14788.3	19290.4	20320.2	20033.0	18178.6
62.5°	2720.0	2745.4	3638.4	5238.8	7130.3	10940.7	17981.2	20716.9	20628.9	18837.1
65°	1999.0	1979.5	2444.5	3462.6	4803.1	6747.3	15439.0	20525.4	20699.3	19249.4
67.5°	1668.8	1641.4	1870.0	2397.6	3538.8	3831.9	11423.4	19280.6	19917.7	19202.5
70°	1520.3	1496.8	1635.5	1780.1	2761.1	2565.7	5758.6	16761.9	17742.8	18669.0
72.5°	1287.7	1246.7	1436.2	1580.8	2147.5	1967.7	2380.0	12875.3	14071.1	16959.2
75°	998.5	971.2	1133.4	1391.3	1614.0	1535.9	1504.6	7818.2	9123.5	13115.6
77.5°	791.4	754.3	902.8	1084.5	1451.9	1158.8	1096.2	3366.8	4660.4	8373.1
80°	596.0	562.8	685.9	857.8	1115.8	873.5	709.3	1373.7	1756.7	4242.2
82.5°	424.0	394.7	478.7	629.2	750.4	783.6	435.8	769.9	865.6	1635.5
85°	271.6	254.0	320.5	394.7	476.8	504.1	265.8	402.5	441.6	674.1
87.5°	148.5	121.2	172.0	183.7	220.8	201.3	127.0	146.6	158.3	244.3
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°
4150.4	0°	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4	4150.4
4158.2	2.5°	4166.0	4171.9	4191.4	4197.3	4211.0	4228.6	4240.3	4252.0	4252.0	4263.7
4220.8	5°	4222.7	4236.4	4277.4	4298.9	4334.1	4369.3	4390.8	4416.2	4431.8	4439.6
4320.4	7.5°	4332.1	4353.6	4412.3	4449.4	4510.0	4558.8	4592.0	4627.2	4635.0	4656.5
4459.1	10°	4480.6	4506.0	4572.5	4642.8	4715.1	4775.7	4807.0	4832.4	4842.1	4846.1
4637.0	12.5°	4650.6	4687.8	4773.8	4859.7	4935.9	4988.7	4996.5	4990.7	4963.3	4939.8
4855.8	15°	4859.7	4892.9	4988.7	5082.5	5156.7	5166.5	5117.7	5086.4	5053.2	5047.3
5100.1	17.5°	5109.8	5127.4	5215.4	5307.2	5313.1	5279.9	5207.6	5178.2	5147.0	5125.5
5418.6	20°	5401.0	5395.1	5457.7	5496.8	5455.7	5354.1	5244.7	5195.8	5164.6	5139.2
5809.4	22.5°	5748.8	5703.9	5696.1	5686.3	5576.9	5363.9	5215.4	5152.8	5104.0	5068.8
6354.6	25°	6254.9	6083.0	5963.8	5897.3	5651.1	5311.1	5121.6	4982.8	4891.0	4830.4
7020.9	27.5°	6888.0	6598.8	6297.9	6135.7	5651.1	5203.6	4894.9	4670.2	4519.7	4457.2
7665.8	30°	7491.8	7189.0	6745.4	6423.0	5637.4	5027.8	4529.5	4216.8	4041.0	3978.5
8216.8	32.5°	8007.7	7677.5	7220.2	6737.6	5604.2	4742.5	4076.2	3730.3	3560.3	3486.0
8762.0	35°	8486.5	8134.7	7697.0	7083.4	5516.3	4324.3	3577.9	3314.1	3124.5	3005.3
9316.9	37.5°	8976.9	8558.8	8148.4	7396.1	5358.0	3835.8	3194.9	2970.2	2747.4	2587.2
9907.1	40°	9510.4	9010.1	8631.1	7581.7	5098.1	3370.7	2897.9	2692.7	2456.2	2286.2
10587.1	42.5°	10133.7	9551.4	9168.4	7677.5	4742.5	3040.5	2704.4	2503.1	2280.4	2141.6
11315.9	45°	10784.4	10147.4	9658.9	7675.5	4345.8	2886.1	2641.9	2442.6	2196.4	2051.8
12064.3	47.5°	11466.4	10770.7	10082.9	7550.5	4001.9	2907.6	2606.7	2311.6	2040.0	1899.3
12820.5	50°	12150.3	11452.7	10493.3	7316.0	3855.3	2860.7	2475.8	2128.0	1807.5	1680.5
13529.9	52.5°	12828.4	12177.7	10847.0	6981.8	3706.8	2686.8	2307.7	1889.6	1711.8	1623.8
14262.6	55°	13510.3	12894.8	11231.9	6495.3	3335.6	2483.6	2026.4	1799.7	1635.5	1555.4
14979.8	57.5°	14194.2	13723.3	11597.3	6008.7	2868.6	2233.5	1872.0	1690.3	1559.3	1490.9
15579.7	60°	14905.5	14671.0	11974.4	5561.2	2407.4	1913.0	1758.6	1602.3	1469.4	1393.2
16156.1	62.5°	15638.3	15714.5	12269.5	4984.8	1983.4	1717.6	1657.0	1496.8	1367.8	1295.5
16632.9	65°	16376.9	16720.8	12463.0	4185.6	1608.2	1532.0	1547.6	1381.5	1250.6	1188.1
16982.7	67.5°	16933.8	17445.8	12408.2	3167.5	1319.0	1356.1	1410.8	1260.4	1137.3	1088.4
16926.0	70°	16996.4	17359.8	11868.9	2169.0	1104.0	1184.2	1258.4	1141.2	1014.2	979.0
16128.8	72.5°	16163.9	16187.4	10366.3	1416.7	934.0	1039.6	1098.2	1020.0	896.9	861.7
14110.2	75°	13981.3	13387.2	7611.0	934.0	781.6	893.0	947.7	893.0	773.8	781.6
10557.8	77.5°	10592.9	9481.1	4621.3	664.4	652.7	750.4	824.6	785.5	683.9	767.9
5309.2	80°	5457.7	5129.4	2061.5	496.3	515.9	599.9	678.1	627.3	541.3	515.9
1186.1	82.5°	1250.6	1453.8	812.9	355.6	373.2	431.8	517.8	470.9	388.9	328.3
494.4	85°	437.7	478.7	359.5	222.8	218.9	269.7	351.7	314.6	263.8	211.0
209.1	87.5°	138.7	181.7	134.8	89.9	93.8	121.2	162.2	148.5	123.1	80.1
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>
4150.4
4263.7
4443.5
4648.7
4836.3
4939.8
5047.3
5127.4
5141.1
5080.5
4853.9
4488.5
4015.6
3523.2
3044.4
2630.2
2319.5
2169.0
2075.2
1918.9
1688.3
1623.8
1547.6
1479.2
1387.4
1293.6
1186.1
1090.4
980.9
859.8
754.3
676.1
470.9
324.4
222.8
84.0
0.0

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