

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: P955724

Luminaire Tested: **GALN-SB8C-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955724
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-SB8C-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55144 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

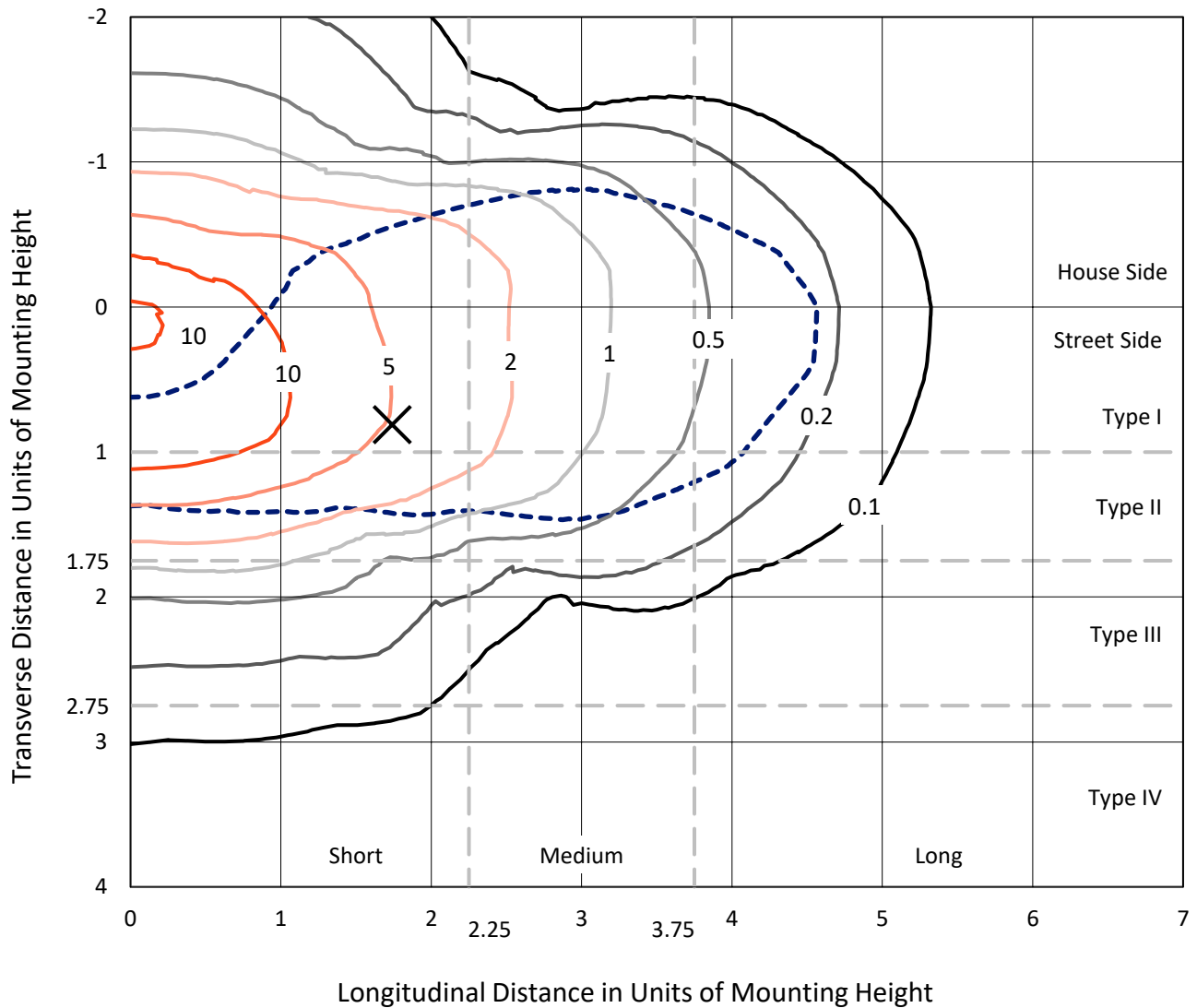
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955724
 CATALOG NUMBER: GALN-SB8C-830-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

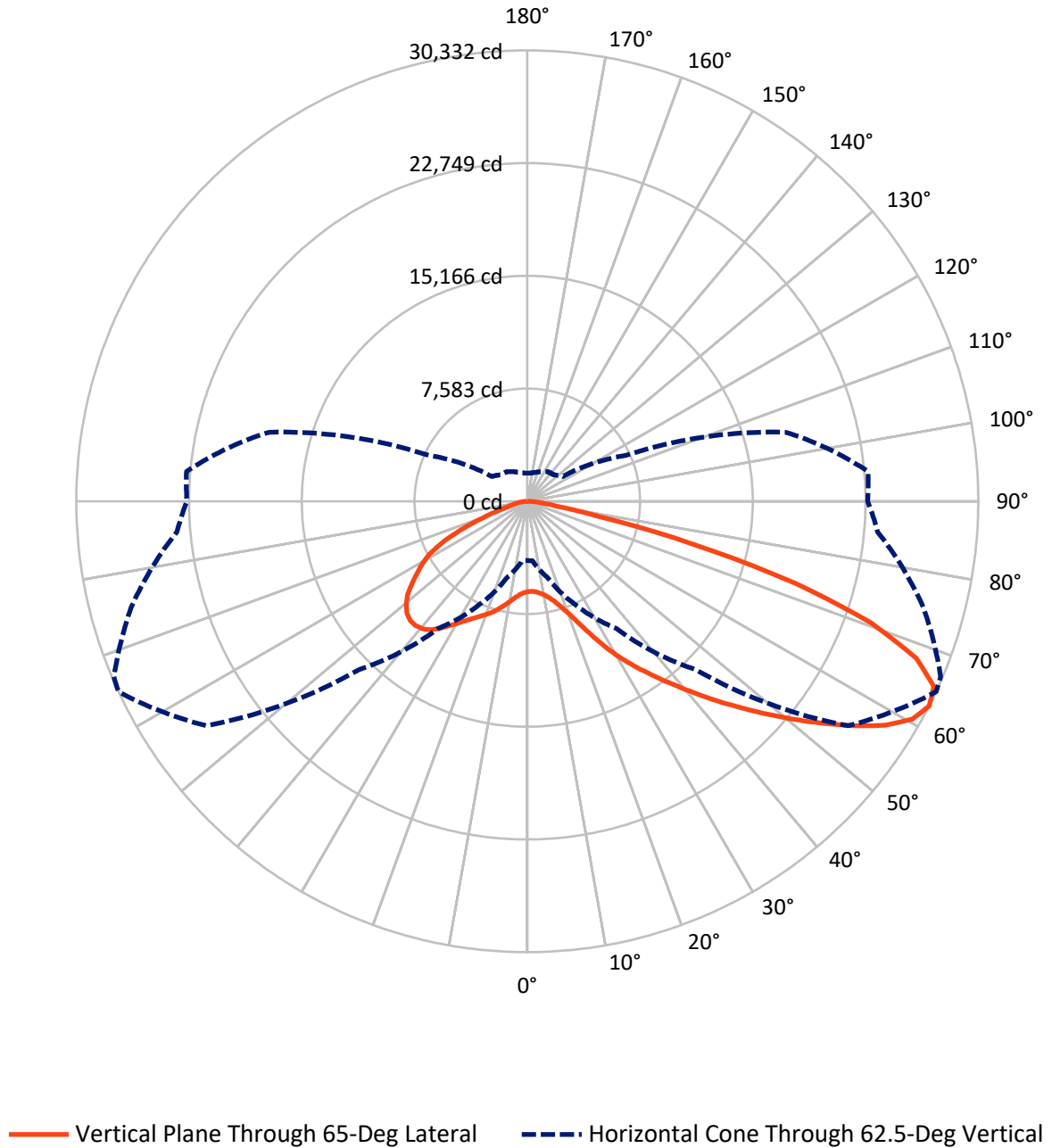
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

REPORT NUMBER: P955724
CATALOG NUMBER: GALN-SB8C-830-U-T2U

Luminous Intensity Polar Plot



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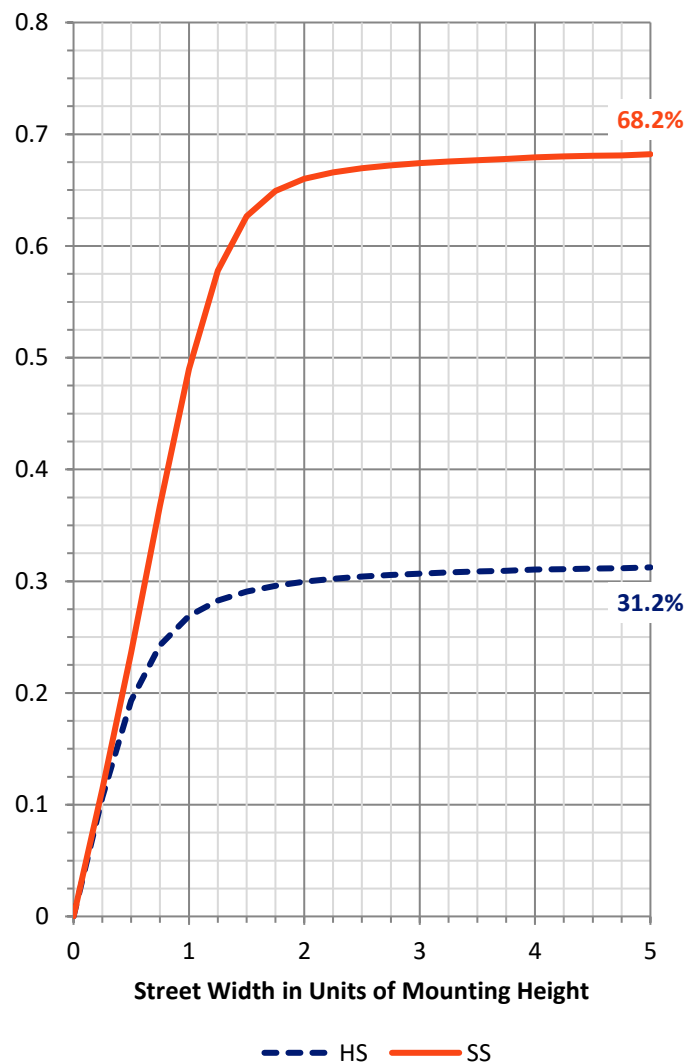
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17401.0	0.0	17401.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	37743.0	0.0	37743.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	55144.0	0.0	55144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.8	1.1
10°-20°	2054.4	3.7
20°-30°	4165.6	7.6
30°-40°	7208.5	13.1
40°-50°	10908.7	19.8
50°-60°	12789.7	23.2
60°-70°	10722.6	19.4
70°-80°	5919.8	10.7
80°-90°	768.9	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°	55144.0	100.0
0°-180°	55144.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955724

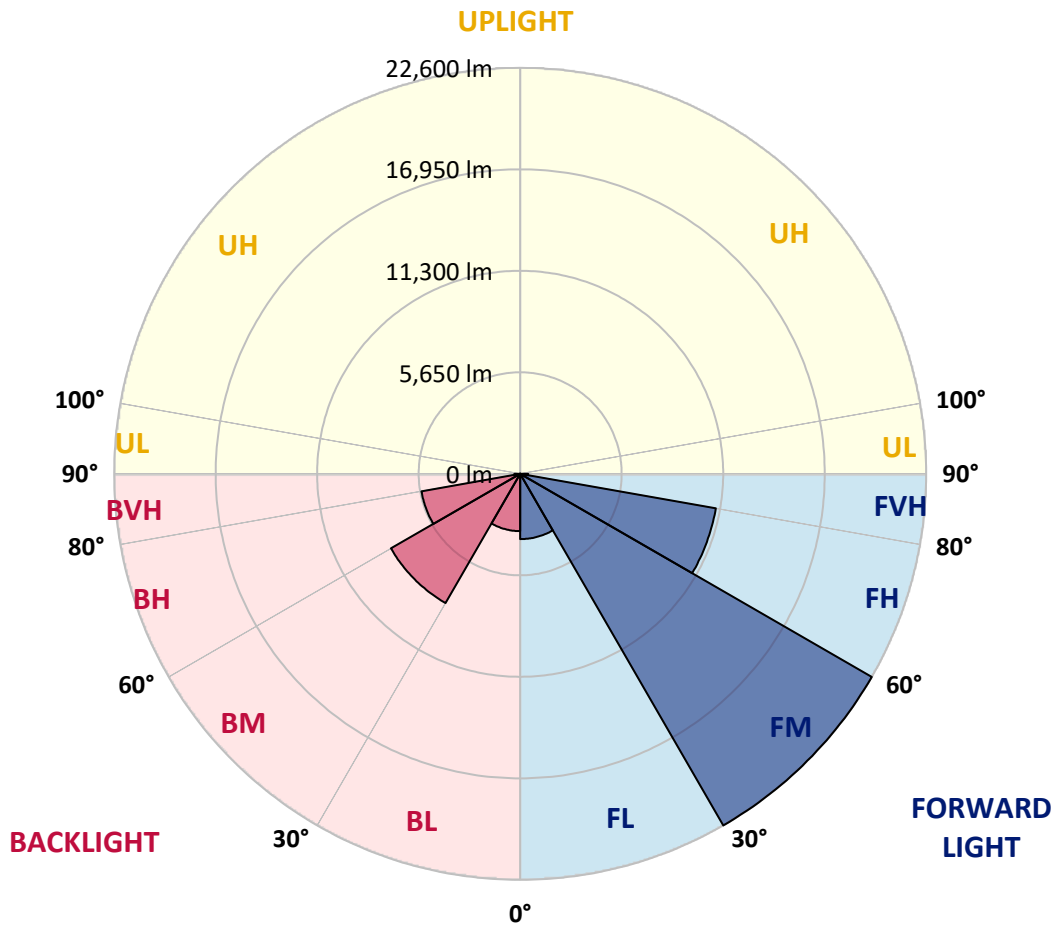
CATALOG NUMBER: GALN-SB8C-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3634.7	6.6			
FM (30°-60°)	22599.8	41.0			
FH (60°-80°)	11060.3	20.1			G4/12000
FVH (80°-90°)	448.2	0.8			G3/500
BL (0°-30°)	3191.1	5.8	B4/5000		
BM (30°-60°)	8307.0	15.1	B4/8500		
BH (60°-80°)	5582.1	10.1	B5		G5
BVH (80°-90°)	320.8	0.6			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 II Short



REPORT NUMBER: P955724
 CATALOG NUMBER: GALN-SB8C-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6
2.5°	6036.6	6019.4	6033.7	6033.7	6039.4	6036.6	6056.6	6062.3	6070.9	6088.1
5°	5976.5	5973.6	5999.4	6022.3	6045.2	6065.2	6090.9	6128.1	6133.8	6153.9
7.5°	5956.5	5939.3	5979.4	6008.0	6062.3	6111.0	6179.6	6242.6	6268.3	6276.9
10°	6111.0	6082.4	6119.5	6136.7	6182.5	6231.1	6311.2	6411.4	6440.0	6474.3
12.5°	6374.2	6342.7	6397.1	6422.8	6465.7	6508.6	6563.0	6660.3	6674.6	6737.5
15°	6734.6	6697.5	6731.8	6763.3	6834.8	6874.8	6929.2	7023.6	7023.6	7072.2
17.5°	7223.9	7175.2	7201.0	7212.4	7258.2	7318.3	7409.8	7492.8	7535.7	7518.5
20°	7953.4	7893.3	7893.3	7836.1	7818.9	7867.6	7987.7	8102.2	8147.9	8059.3
22.5°	9049.1	8963.3	8914.7	8720.1	8642.9	8648.6	8768.8	8909.0	8946.1	8788.8
25°	10442.4	10308.0	10242.2	9956.1	9781.5	9629.9	9724.3	9904.6	9956.1	9761.5
27.5°	11835.7	11844.3	11781.3	11438.0	11149.1	10871.6	10822.9	11011.7	11066.1	10845.8
30°	13789.7	13586.6	13466.4	13054.5	12642.5	12253.4	12053.1	12130.4	12144.7	11881.5
32.5°	15474.8	15423.3	15165.8	14805.3	14276.1	13666.7	13332.0	13208.9	13186.1	12811.3
35°	17394.5	17365.9	17094.1	16665.0	16092.8	15245.9	14642.3	14290.4	14261.8	13735.4
37.5°	19345.7	19345.7	19079.6	18610.4	18018.2	16959.6	16041.3	15483.4	15391.8	14705.2
40°	20902.0	20807.6	20856.2	20658.8	19980.8	18856.4	17594.8	16785.1	16662.1	15838.1
42.5°	21786.0	21754.6	22046.4	22266.7	21989.2	21090.8	19305.6	18195.6	18023.9	17085.5
45°	21983.4	21949.1	22469.8	23276.6	23665.7	23296.6	21165.2	19680.4	19471.5	18390.1
47.5°	21528.5	21459.9	22223.8	23496.9	24744.2	25393.7	23179.3	21291.1	20987.8	19660.4
50°	20161.0	20095.2	21251.0	22941.9	25107.6	26818.4	25365.1	22999.1	22535.6	21022.2
52.5°	17188.5	17220.0	19031.0	21354.0	24629.8	27705.3	27247.6	24798.6	24240.7	22415.4
55°	13389.2	13457.8	15683.7	18241.3	22718.7	27570.8	28532.1	26652.5	26097.5	23725.7
57.5°	9587.0	9890.3	11975.9	14507.8	19048.1	25439.4	28812.5	28414.8	27877.0	25156.2
60°	6214.0	6268.3	8414.0	10966.0	14504.9	21651.6	28243.2	29750.9	29330.3	26615.3
62.5°	3982.4	4019.6	5327.1	7670.2	10439.6	16018.4	26326.3	30331.7	30202.9	27579.4
65°	2926.7	2898.1	3579.0	5069.6	7032.2	9878.8	22604.3	30051.3	30305.9	28183.1
67.5°	2443.2	2403.2	2737.9	3510.4	5181.2	5610.3	16725.0	28228.9	29161.5	28114.4
70°	2225.8	2191.5	2394.6	2606.3	4042.5	3756.4	8431.2	24541.1	25977.3	27333.4
72.5°	1885.4	1825.3	2102.8	2314.5	3144.2	2881.0	3484.6	18850.7	20601.6	24830.1
75°	1461.9	1421.9	1659.3	2037.0	2363.1	2248.7	2202.9	11446.6	13357.7	19202.6
77.5°	1158.7	1104.3	1321.8	1587.8	2125.7	1696.5	1605.0	4929.4	6823.3	12259.1
80°	872.6	823.9	1004.2	1256.0	1633.6	1278.8	1038.5	2011.2	2572.0	6211.1
82.5°	620.8	577.9	700.9	921.2	1098.6	1147.2	638.0	1127.2	1267.4	2394.6
85°	397.7	371.9	469.2	577.9	698.1	738.1	389.1	589.4	646.6	987.0
87.5°	217.4	177.4	251.8	268.9	323.3	294.7	186.0	214.6	231.7	357.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955724
 CATALOG NUMBER: GALN-SB8C-830-U-T2U

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6076.6	0°	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6
6088.1	2.5°	6099.5	6108.1	6136.7	6145.3	6165.3	6191.1	6208.2	6225.4	6225.4	6242.6
6179.6	5°	6182.5	6202.5	6262.6	6294.1	6345.6	6397.1	6428.5	6465.7	6488.6	6500.0
6325.5	7.5°	6342.7	6374.2	6460.0	6514.4	6603.0	6674.6	6723.2	6774.7	6786.1	6817.6
6528.7	10°	6560.1	6597.3	6694.6	6797.6	6903.4	6992.1	7037.9	7075.1	7089.4	7095.1
6789.0	12.5°	6809.0	6863.4	6989.3	7115.1	7226.7	7304.0	7315.4	7306.8	7266.8	7232.4
7109.4	15°	7115.1	7163.8	7304.0	7441.3	7550.0	7564.3	7492.8	7447.0	7398.4	7389.8
7467.0	17.5°	7481.3	7507.1	7635.8	7770.3	7778.9	7730.3	7624.4	7581.5	7535.7	7504.2
7933.4	20°	7907.6	7899.0	7990.6	8047.8	7987.7	7839.0	7678.8	7607.2	7561.5	7524.3
8505.6	22.5°	8416.9	8351.1	8339.6	8325.3	8165.1	7853.3	7635.8	7544.3	7472.8	7421.3
9303.8	25°	9157.9	8906.1	8731.6	8634.3	8273.8	7776.0	7498.5	7295.4	7160.9	7072.2
10279.3	27.5°	10084.8	9661.4	9220.8	8983.3	8273.8	7618.7	7166.6	6837.6	6617.3	6525.8
11223.5	30°	10968.8	10525.4	9876.0	9403.9	8253.8	7361.2	6631.7	6173.9	5916.4	5824.9
12030.2	32.5°	11724.1	11240.6	10571.2	9864.5	8205.2	6943.5	5967.9	5461.5	5212.6	5103.9
12828.4	35°	12425.0	11910.1	11269.2	10370.9	8076.4	6331.3	5238.4	4852.1	4574.6	4400.1
13640.9	37.5°	13143.1	12530.9	11930.1	10828.6	7844.7	5616.0	4677.6	4348.6	4022.5	3787.9
14504.9	40°	13924.2	13191.8	12636.8	11100.4	7464.2	4935.1	4242.8	3942.4	3596.2	3347.3
15500.6	42.5°	14836.8	13984.3	13423.5	11240.6	6943.5	4451.6	3959.5	3664.9	3338.7	3135.6
16567.7	45°	15789.5	14856.8	14141.6	11237.8	6362.7	4225.6	3868.0	3576.2	3215.7	3004.0
17663.4	47.5°	16788.0	15769.5	14762.4	11054.7	5859.2	4257.1	3816.5	3384.5	2986.8	2780.8
18770.6	50°	17789.3	16768.0	15363.2	10711.3	5644.6	4188.4	3624.8	3115.6	2646.4	2460.4
19809.1	52.5°	18782.0	17829.4	15881.1	10222.1	5427.2	3933.8	3378.8	2766.5	2506.2	2377.4
20882.0	55°	19780.5	18879.3	16444.7	9509.8	4883.6	3636.3	2966.8	2634.9	2394.6	2277.3
21931.9	57.5°	20781.8	20092.4	16979.7	8797.4	4199.9	3270.1	2740.8	2474.7	2283.0	2182.9
22810.2	60°	21823.2	21479.9	17531.8	8142.2	3524.7	2800.9	2574.8	2346.0	2151.4	2039.8
23654.2	62.5°	22896.1	23007.7	17963.8	7298.2	2903.9	2514.8	2426.1	2191.5	2002.7	1896.8
24352.3	65°	23977.5	24481.0	18247.1	6128.1	2354.6	2243.0	2265.9	2022.7	1831.0	1739.4
24864.4	67.5°	24792.9	25542.4	18166.9	4637.6	1931.1	1985.5	2065.6	1845.3	1665.1	1593.5
24781.4	70°	24884.4	25416.6	17377.3	3175.6	1616.4	1733.7	1842.4	1670.8	1484.8	1433.3
23614.2	72.5°	23665.7	23700.0	15177.3	2074.2	1367.5	1522.0	1607.8	1493.4	1313.2	1261.7
20658.8	75°	20470.0	19600.3	11143.3	1367.5	1144.4	1307.4	1387.6	1307.4	1132.9	1144.4
15457.6	77.5°	15509.1	13881.3	6766.1	972.7	955.6	1098.6	1207.3	1150.1	1001.3	1124.3
7773.2	80°	7990.6	7510.0	3018.3	726.7	755.3	878.3	992.7	918.4	792.5	755.3
1736.6	82.5°	1831.0	2128.5	1190.1	520.7	546.4	632.3	758.1	689.5	569.3	480.6
723.8	85°	640.8	700.9	526.4	326.1	320.4	394.8	515.0	460.6	386.2	309.0
306.1	87.5°	203.1	266.1	197.4	131.6	137.3	177.4	237.5	217.4	180.2	117.3
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>
6076.6
6242.6
6505.8
6806.2
7080.8
7232.4
7389.8
7507.1
7527.1
7438.4
7106.6
6571.6
5879.2
5158.3
4457.3
3850.8
3395.9
3175.6
3038.3
2809.4
2471.8
2377.4
2265.9
2165.7
2031.3
1893.9
1736.6
1596.4
1436.2
1258.8
1104.3
989.9
689.5
474.9
326.1
123.0
0.0

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