

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: P944688

Luminaire Tested: **GALN-SB9D-730-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70178 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 658
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

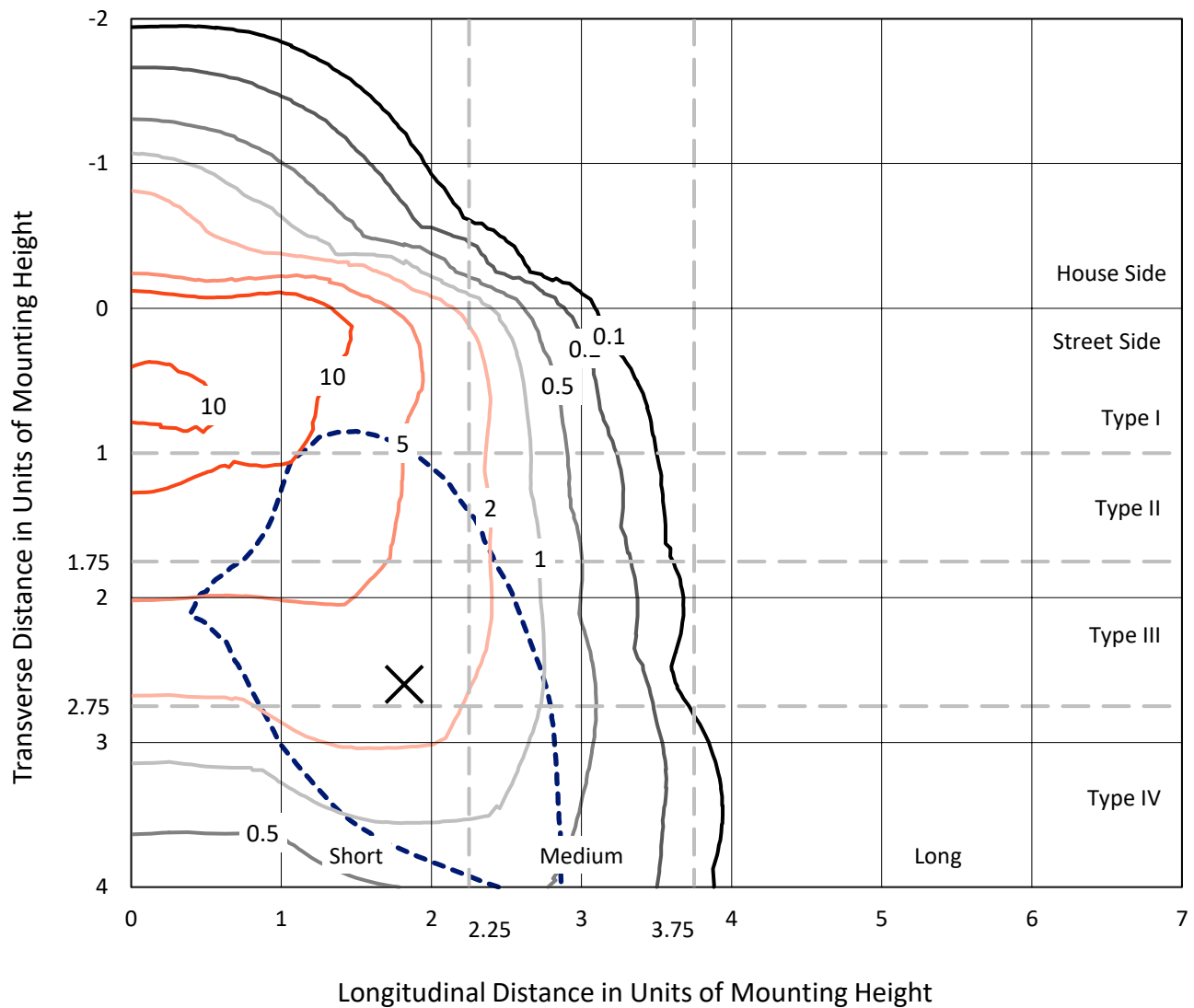


REPORT NUMBER: P944688

CATALOG NUMBER: GALN-SB9D-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

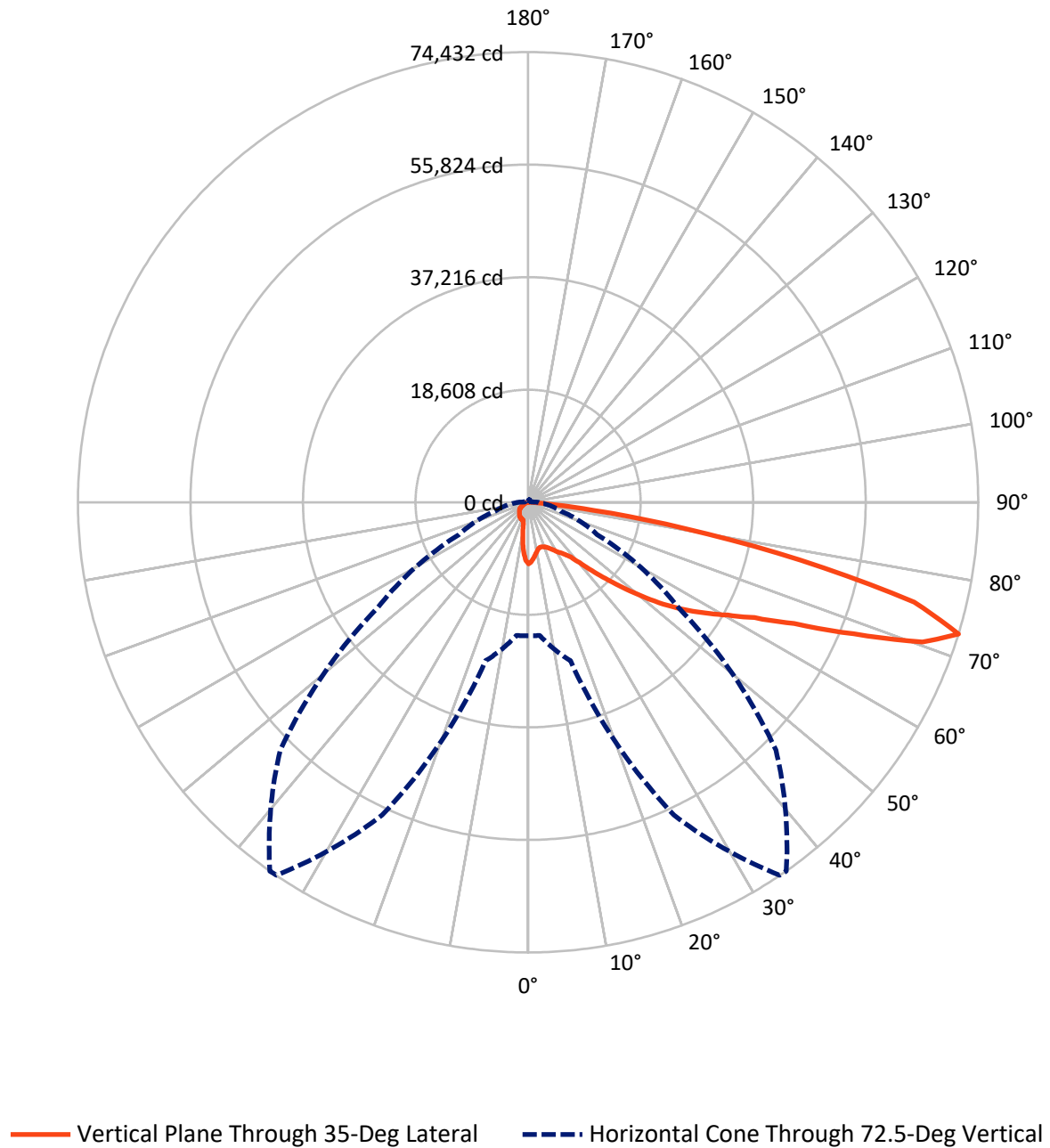
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
Type IV - Short - N/A

REPORT NUMBER: P944688
CATALOG NUMBER: GALN-SB9D-730-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944688

CATALOG NUMBER: GALN-SB9D-730-U-T4FT-HSS

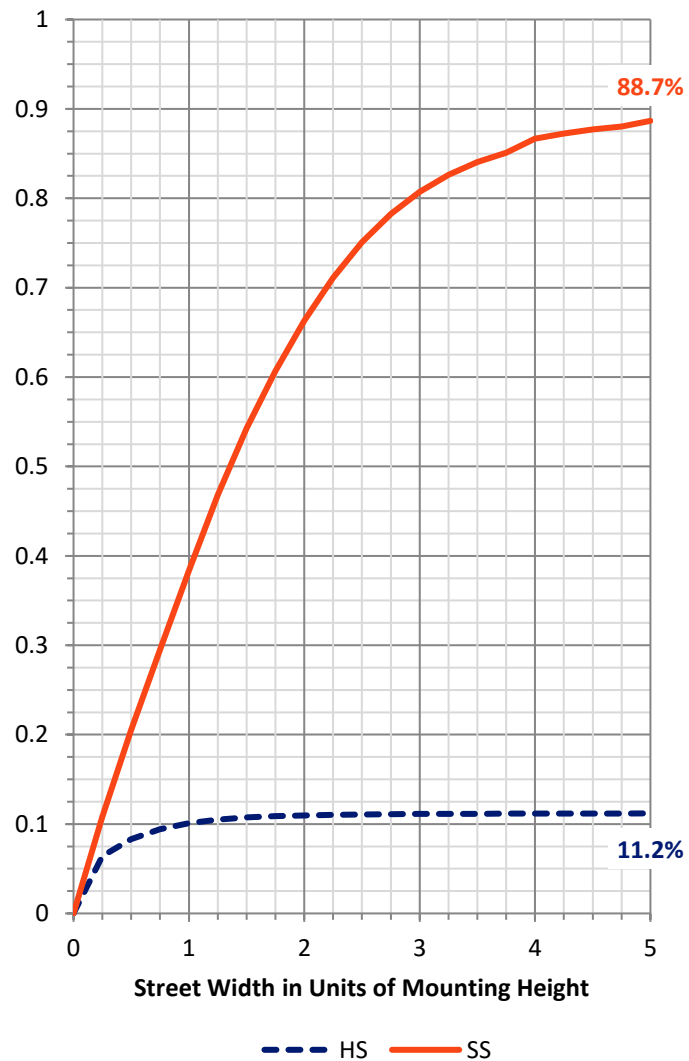
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7898.2	0.0	7898.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	62279.8	0.0	62279.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	70178.0	0.0	70178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.8	1.2
10°-20°	1955.3	2.8
20°-30°	3176.2	4.5
30°-40°	5299.5	7.6
40°-50°	10026.9	14.3
50°-60°	15932.6	22.7
60°-70°	19709.8	28.1
70°-80°	12251.7	17.5
80°-90°	990.1	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°	70178.0	100.0
0°-180°	70178.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944688

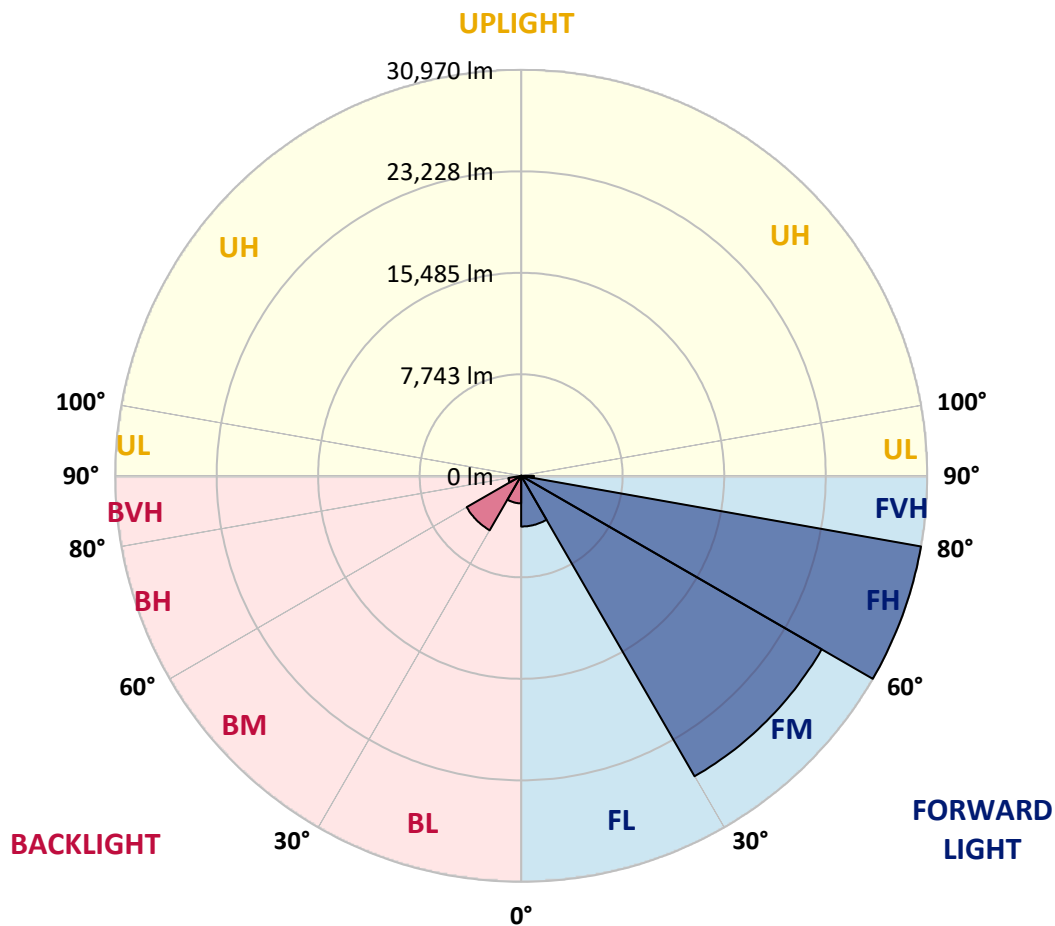
CATALOG NUMBER: GALN-SB9D-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3868.6	5.5			
FM	(30°-60°)	26464.1	37.7			
FH	(60°-80°)	30970.4	44.1			G5
FVH	(80°-90°)	976.7	1.4			G5
BL	(0°-30°)	2098.7	3.0	B3/2500		
BM	(30°-60°)	4794.9	6.8	B3/5000		
BH	(60°-80°)	991.1	1.4	B2/1000		G2/1000
BVH	(80°-90°)	13.5	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P944688

CATALOG NUMBER: GALN-SB9D-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1
2.5°	9718.6	9800.9	9816.3	9842.0	9842.0	9872.9	9924.3	9996.3	10114.6	10176.3
5°	8957.6	9019.3	9096.4	9158.1	9276.4	9291.8	9492.4	9687.8	9960.3	10166.0
7.5°	8191.4	8263.4	8366.3	8515.4	8669.6	8715.9	9019.3	9348.4	9780.3	10166.0
10°	7651.5	7656.6	7749.2	7898.3	8145.1	8201.7	8571.9	9039.9	9579.8	10104.3
12.5°	7348.1	7384.1	7425.2	7538.4	7774.9	7810.9	8206.8	8757.1	9379.3	10068.3
15°	7348.1	7373.8	7399.5	7456.1	7646.4	7677.2	8026.9	8577.1	9276.4	10083.7
17.5°	7425.2	7466.4	7445.8	7512.7	7713.2	7733.8	8042.3	8525.7	9271.3	10181.4
20°	7610.4	7641.2	7600.1	7641.2	7841.8	7882.9	8201.7	8623.4	9358.7	10351.1
22.5°	7903.5	7918.9	7821.2	7852.0	8057.7	8109.1	8479.4	8901.0	9569.5	10623.7
25°	8273.7	8304.5	8155.4	8191.4	8386.8	8448.5	8875.3	9317.6	9903.8	10999.0
27.5°	8700.5	8715.9	8587.4	8582.2	8834.2	8921.6	9353.5	9831.8	10351.1	11472.1
30°	9189.0	9235.3	9111.9	9091.3	9410.1	9482.1	9908.9	10464.2	11009.3	12181.7
32.5°	9574.7	9610.7	9538.7	9590.1	9914.0	9970.6	10582.5	11359.0	12042.9	13189.6
35°	10130.0	10150.6	9986.0	10078.6	10448.8	10592.8	11503.0	12613.7	13343.8	14454.5
37.5°	12140.6	12140.6	11441.3	10983.6	11338.4	11467.0	12762.8	14192.3	14948.2	16151.4
40°	14922.5	14876.2	13852.9	12917.0	12870.8	13122.7	14557.4	16182.3	17020.5	18187.7
42.5°	17889.5	17817.5	16424.0	15498.4	15344.1	15431.6	16629.7	18635.1	19488.7	20671.4
45°	20522.3	20501.7	19226.4	17982.0	17704.4	17982.0	19216.2	21504.4	22116.3	23360.7
47.5°	22728.2	22728.2	21797.5	20985.1	20841.1	21005.6	22718.0	24687.4	24630.8	26224.9
50°	25268.5	25247.9	24363.4	24013.8	24162.9	24394.3	26749.4	28040.1	27232.8	29037.6
52.5°	27047.6	27171.0	26867.7	26811.1	27572.1	27973.2	30842.5	31320.8	29562.1	31706.4
55°	28456.6	28600.6	28950.2	29346.2	30811.7	31336.2	34807.1	34431.7	31511.0	34020.4
57.5°	30451.7	30246.0	30786.0	31567.6	33938.1	34570.6	38648.3	37367.9	33079.4	35897.3
60°	32873.7	32904.5	32997.1	33984.4	37059.4	37871.8	42432.9	40144.7	34087.2	37049.1
62.5°	35784.1	35830.4	36020.7	37537.6	41250.2	42016.4	46464.3	42417.5	34550.0	36725.1
65°	35583.6	35779.0	37902.7	43091.1	47621.3	48377.2	51169.4	44011.5	33850.7	33763.3
67.5°	32416.0	32734.8	36288.1	49724.5	57226.8	58070.1	56856.6	44325.2	30832.2	26255.7
70°	28261.2	28374.3	32647.4	55689.3	68349.3	69202.9	61947.3	40874.8	23396.7	14644.8
72.5°	22070.0	22095.8	27109.3	57072.6	74386.1	74432.4	57951.9	30343.7	12582.8	5625.5
75°	15765.8	15611.5	18156.9	46284.4	65444.0	65968.5	43445.9	14233.4	4807.9	2658.5
77.5°	8453.7	8623.4	10274.0	27448.7	45209.7	46104.4	23705.2	4103.4	2447.7	1810.0
80°	2612.2	2756.2	4211.4	12567.4	25607.8	26147.8	8787.9	1825.5	1707.2	1290.7
82.5°	822.7	853.6	1964.3	5281.0	10628.8	10875.6	2545.4	1033.6	1167.3	853.6
85°	236.5	241.7	874.2	1969.4	2627.6	2679.1	714.8	401.1	668.5	529.6
87.5°	25.7	82.3	329.1	329.1	231.4	226.3	77.1	87.4	190.3	66.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944688

CATALOG NUMBER: GALN-SB9D-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10171.1	0°	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1	10171.1
10217.4	2.5°	10191.7	10196.9	10130.0	10016.9	9893.5	9790.6	9662.1	9559.2	9487.2	9466.7
10310.0	5°	10263.7	10227.7	10037.4	9692.9	9281.6	8926.7	8530.8	8217.1	8011.4	7924.0
10407.7	7.5°	10371.7	10268.8	9852.3	9173.6	8386.8	7687.5	6977.9	6427.7	6078.0	5903.2
10500.2	10°	10464.2	10258.6	9543.8	8422.8	7219.6	6160.3	5203.8	4540.5	4170.3	3995.4
10608.2	12.5°	10551.7	10253.4	9142.7	7533.2	5903.2	4607.4	3717.8	3388.7	3285.8	3249.8
10783.1	15°	10716.2	10268.8	8638.8	6515.1	4591.9	3481.2	3157.3	3152.1	3172.7	3162.4
11050.5	17.5°	10942.5	10284.3	8068.0	5435.2	3542.9	3069.9	3054.4	3100.7	3131.6	3116.1
11384.7	20°	11235.6	10346.0	7461.2	4365.7	3044.1	2967.0	3003.0	3044.1	3069.9	3044.1
11832.1	22.5°	11646.9	10454.0	6797.9	3506.9	2884.7	2905.3	2936.2	2982.4	3008.1	2972.2
12402.8	25°	12150.9	10623.7	6144.9	3049.3	2807.6	2833.3	2879.6	2931.0	2961.9	2925.9
13122.7	27.5°	12803.9	10896.2	5543.2	2946.4	2730.5	2745.9	2812.7	2889.9	2931.0	2884.7
14146.0	30°	13750.1	11343.6	5023.9	2992.7	2684.2	2648.2	2740.8	2848.7	2895.0	2853.9
15539.5	32.5°	15004.8	11976.0	4705.1	3064.7	2663.6	2535.1	2622.5	2761.3	2838.5	2812.7
17359.9	35°	16650.2	12937.6	4581.6	3147.0	2648.2	2416.8	2478.5	2627.6	2761.3	2787.0
19653.2	37.5°	18645.4	14274.6	4617.6	3183.0	2601.9	2319.1	2350.0	2478.5	2653.3	2735.6
22234.6	40°	20913.1	15832.6	4823.3	3147.0	2550.5	2236.8	2242.0	2339.7	2493.9	2617.3
25011.3	42.5°	23252.7	17653.0	5203.8	3013.3	2504.2	2164.8	2149.4	2216.3	2319.1	2406.5
27783.0	45°	25479.3	19524.7	5579.2	2828.2	2447.7	2092.8	2056.9	2082.6	2103.1	2139.1
30482.6	47.5°	27423.0	20841.1	5471.2	2658.5	2370.5	2010.6	1948.9	1938.6	1876.9	1871.7
32894.2	50°	28765.1	21129.0	4859.3	2488.8	2257.4	1918.0	1820.3	1758.6	1650.6	1599.2
34699.1	52.5°	29191.9	19992.6	3969.7	2319.1	2072.3	1794.6	1655.8	1558.1	1424.4	1378.1
35737.8	55°	28626.3	17766.1	3172.7	2113.4	1815.2	1630.1	1475.8	1347.2	1239.3	1182.7
35851.0	57.5°	27243.0	14932.8	2509.4	1871.7	1542.6	1444.9	1290.7	1162.1	1069.6	1013.0
34596.3	60°	24949.6	11857.8	1984.9	1583.8	1316.4	1244.4	1085.0	1002.7	920.4	853.6
31356.7	62.5°	21468.4	8464.0	1558.1	1254.7	1100.4	1018.1	925.6	863.9	766.2	673.6
25530.7	65°	16753.1	5178.1	1203.3	920.4	884.4	843.3	786.7	730.2	611.9	519.4
16655.4	67.5°	10567.1	2452.8	858.7	694.2	699.3	678.8	653.1	606.8	519.4	437.1
7461.2	70°	4653.6	1187.8	565.6	529.6	519.4	519.4	539.9	524.5	442.2	365.1
2591.6	72.5°	1583.8	637.6	421.7	401.1	375.4	370.2	452.5	437.1	354.8	282.8
1290.7	75°	827.9	426.8	308.5	288.0	226.3	272.5	359.9	339.4	252.0	185.1
853.6	77.5°	539.9	303.4	210.8	185.1	128.6	180.0	267.4	236.5	149.1	92.6
560.5	80°	339.4	200.5	123.4	87.4	61.7	97.7	144.0	102.8	56.6	20.6
329.1	82.5°	180.0	102.8	46.3	30.9	25.7	30.9	36.0	25.7	10.3	0.0
169.7	85°	72.0	36.0	15.4	10.3	5.1	0.0	10.3	5.1	0.0	0.0
30.9	87.5°	25.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
10171.1
9502.7
7954.9
5928.9
4000.6
3239.5
3157.3
3111.0
3039.0
2967.0
2920.7
2884.7
2848.7
2812.7
2787.0
2756.2
2658.5
2442.5
2159.7
1866.6
1604.3
1373.0
1182.7
1002.7
838.2
658.2
503.9
426.8
349.7
267.4
169.7
82.3
15.4
0.0
0.0
0.0
0.0

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