

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: P944826

Luminaire Tested: **GALN-SB9D-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50568 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

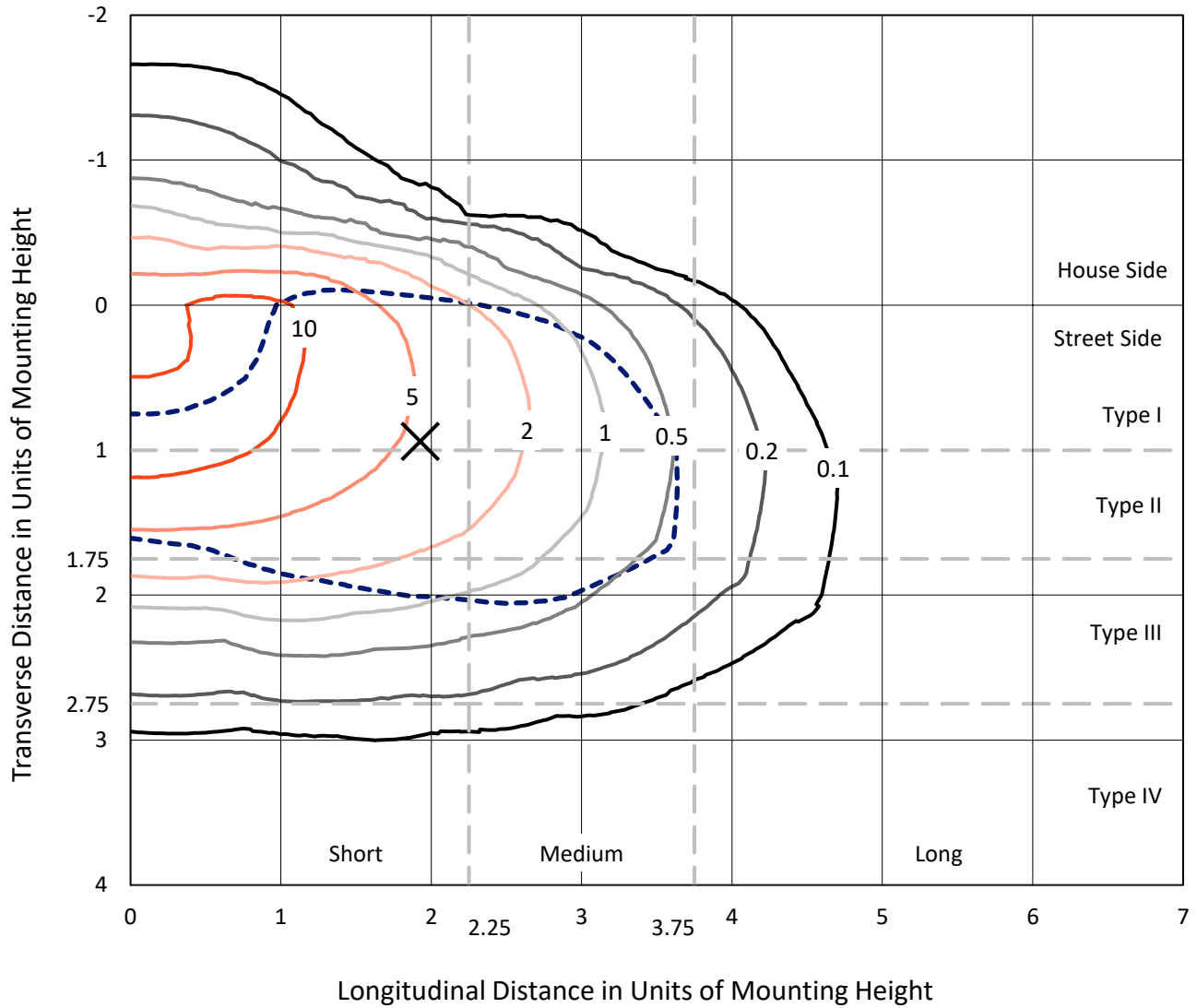
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

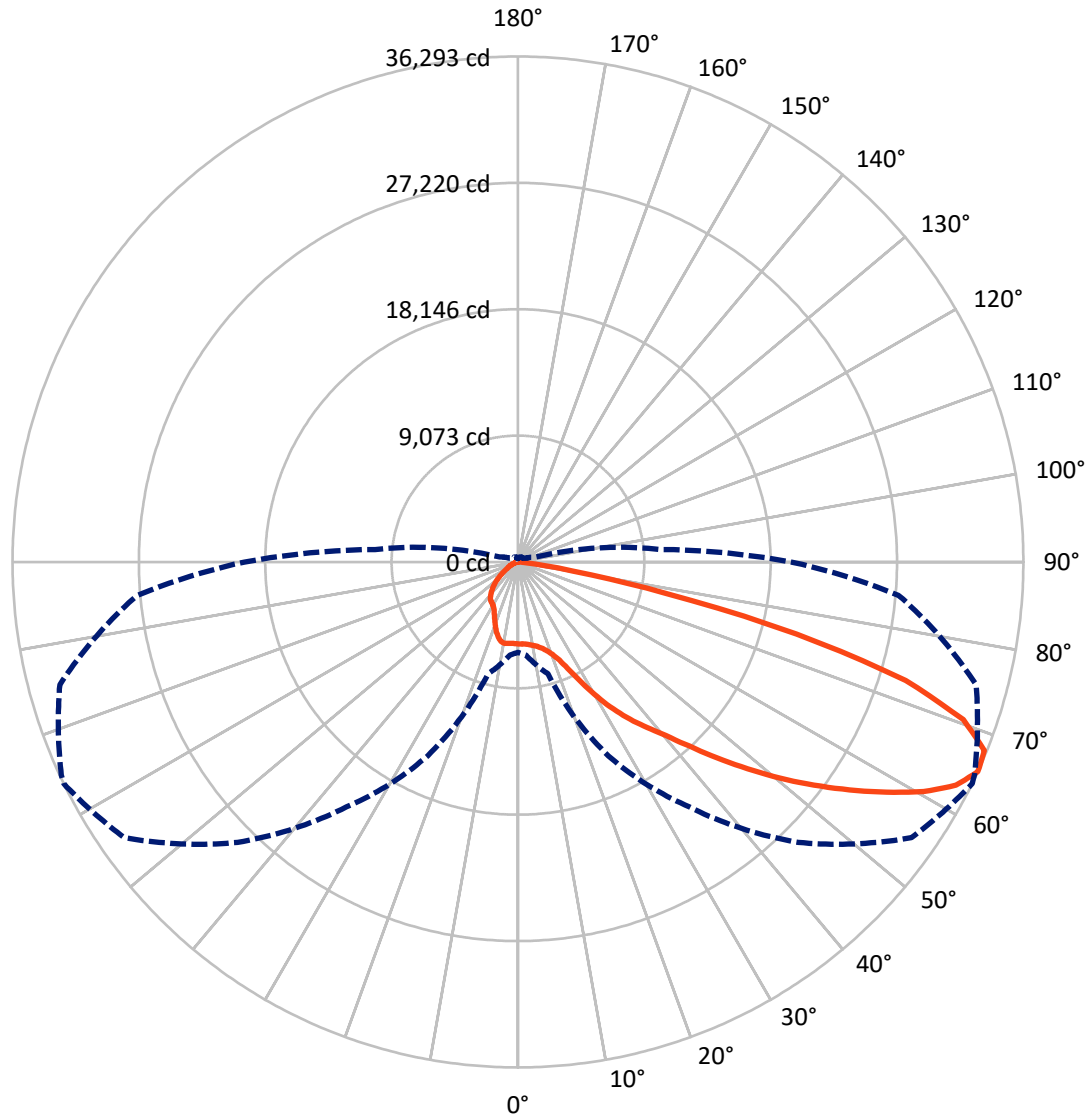
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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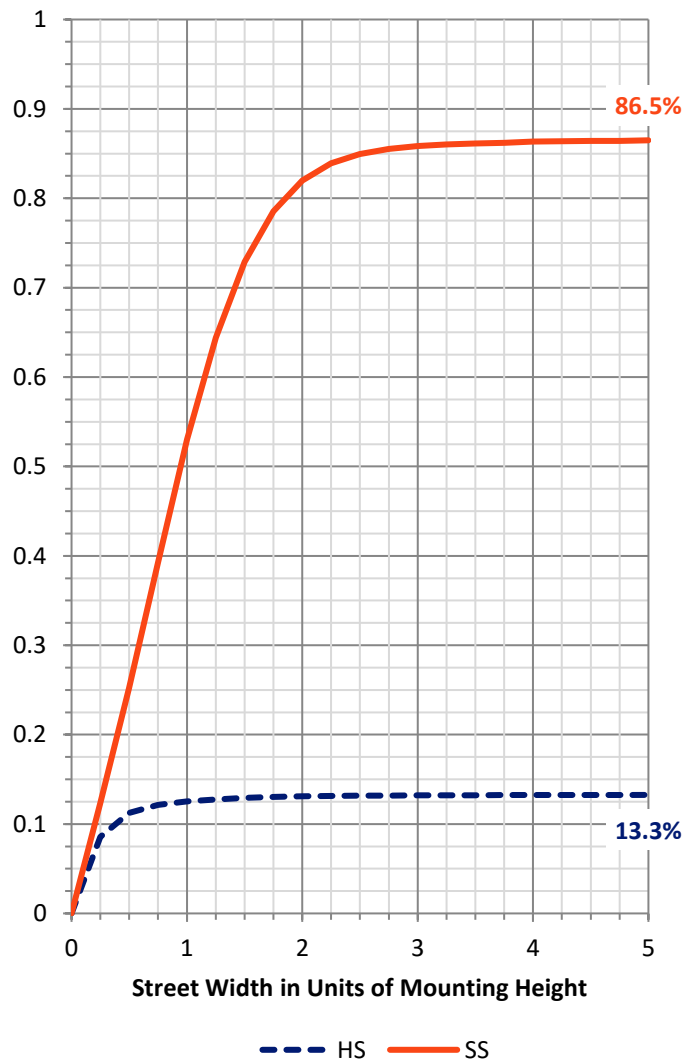
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6762.5	0.0	6762.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	43805.5	0.0	43805.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	50568.0	0.0	50568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.6	1.1
10°-20°	1471.8	2.9
20°-30°	2788.9	5.5
30°-40°	5643.4	11.2
40°-50°	9613.6	19.0
50°-60°	13073.8	25.9
60°-70°	12276.9	24.3
70°-80°	4918.7	9.7
80°-90°	238.3	0.5
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°	50568.0	100.0
0°-180°	50568.0	100.0

Coefficient of Utilization



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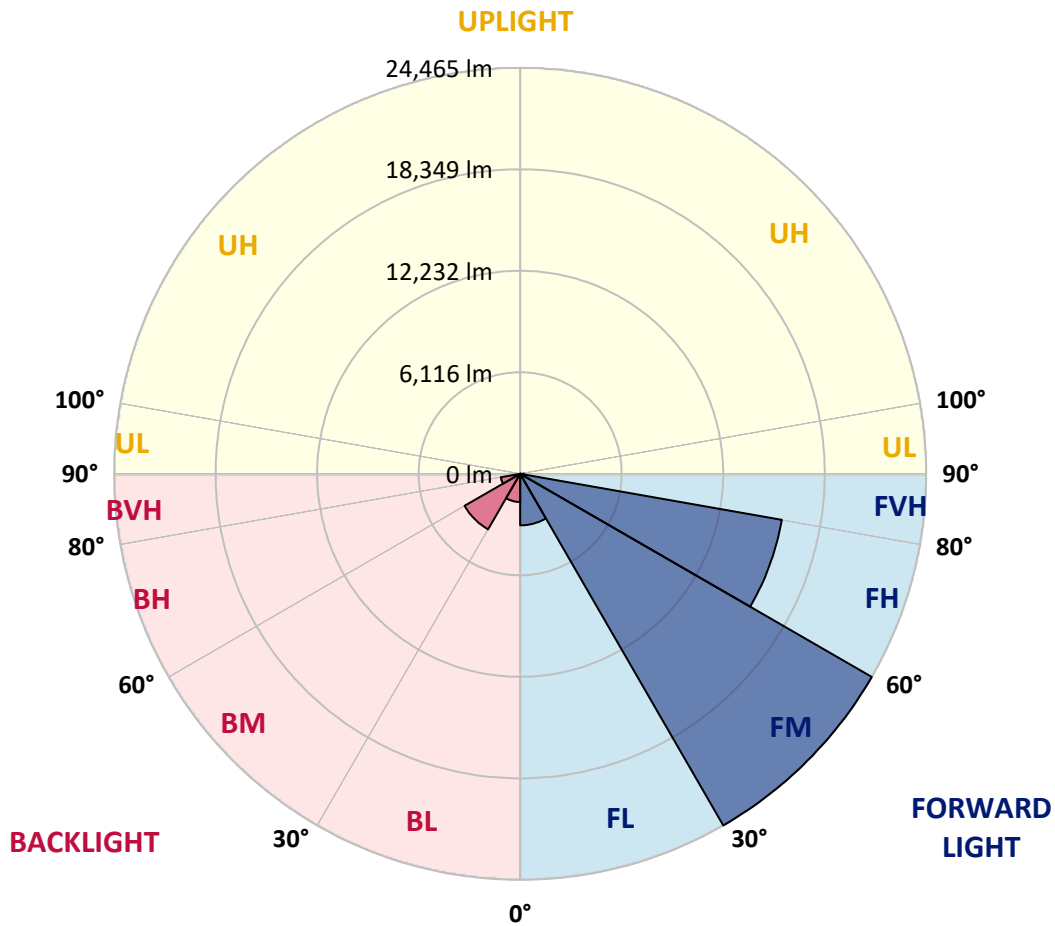
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3105.5	6.1			
FM (30°-60°)	24464.7	48.4			
FH (60°-80°)	16008.7	31.7			G5
FVH (80°-90°)	226.7	0.4			G3/500
BL (0°-30°)	1697.9	3.4	B3/2500		
BM (30°-60°)	3866.1	7.6	B3/5000		
BH (60°-80°)	1186.9	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6
2.5°	5861.2	5901.9	5891.8	5881.6	5878.2	5885.0	5888.4	5885.0	5885.0	5885.0
5°	5749.4	5783.3	5783.3	5807.0	5840.9	5881.6	5912.1	5918.9	5925.7	5935.8
7.5°	5535.8	5562.9	5583.3	5661.2	5746.0	5854.5	5946.0	5993.5	6000.2	6037.5
10°	5390.0	5423.9	5457.8	5539.2	5661.2	5824.0	5979.9	6095.2	6112.1	6200.2
12.5°	5383.3	5417.2	5461.2	5549.4	5691.7	5864.6	6054.5	6220.6	6251.1	6379.9
15°	5454.4	5495.1	5535.8	5644.3	5796.8	6007.0	6210.4	6417.2	6447.7	6630.8
17.5°	5600.2	5654.5	5685.0	5793.4	5956.2	6190.1	6457.9	6695.2	6722.3	6935.9
20°	5888.4	5952.8	5962.9	6051.1	6210.4	6461.3	6779.9	7074.8	7108.7	7352.8
22.5°	6485.0	6576.5	6495.2	6539.2	6681.6	6932.5	7278.2	7651.1	7698.6	7976.6
25°	7535.9	7664.7	7454.5	7379.9	7441.0	7702.0	8135.9	8607.1	8661.4	8885.1
27.5°	9600.4	9434.3	9115.6	8803.7	8620.7	8769.8	9258.0	9841.1	9908.9	10125.8
30°	11868.3	11722.5	11292.0	10600.4	10166.5	10142.8	10593.6	11244.5	11322.5	11529.3
32.5°	14139.5	14000.5	13532.7	12681.8	11929.3	11556.4	11868.3	12590.3	12631.0	12763.2
35°	16373.5	16231.1	15763.3	14892.1	13966.6	13119.2	13058.1	13871.7	13885.3	14024.3
37.5°	18621.1	18502.4	18004.1	17149.8	16237.9	15068.4	14502.3	15085.3	15102.3	15237.9
40°	20224.5	20275.4	19933.0	19271.9	18488.9	17210.8	16122.7	16376.9	16275.2	16502.3
42.5°	21600.8	21702.5	21404.2	21072.0	20617.7	19492.3	18129.5	18085.4	17922.7	18044.8
45°	22790.7	22875.5	22607.7	22529.7	22519.5	21729.7	20322.8	20058.4	19831.3	19807.5
47.5°	23228.0	23390.7	23506.0	23767.0	24275.5	23943.3	22590.7	22180.5	21926.3	21739.8
50°	23394.1	23567.0	23960.2	24719.6	25923.0	26065.4	24848.4	24387.4	24075.5	23736.5
52.5°	23170.4	23478.9	24007.7	25285.7	27031.6	27767.2	27014.6	26611.2	26255.3	25702.7
55°	21851.7	22160.2	23241.6	25278.9	27584.1	28960.4	29062.1	28882.5	28482.5	27611.2
57.5°	19071.9	19529.6	21241.5	24417.9	27573.9	29987.6	31069.0	31197.8	30750.3	29502.8
60°	15220.9	15841.3	17929.5	22509.3	26723.1	30543.6	32828.4	33472.5	32997.9	31367.3
62.5°	10620.7	11339.4	13315.8	19519.4	24777.2	30143.5	34113.2	35303.1	34943.7	33035.2
65°	6478.2	6708.7	8302.0	15359.9	21468.6	28468.9	34509.8	36292.9	36174.3	34055.6
67.5°	4315.4	4508.6	4966.3	10532.6	16665.1	25123.0	33560.6	36120.0	36153.9	33889.4
70°	2600.1	2766.2	3064.5	6125.7	10800.4	19885.5	30621.5	33916.6	34113.2	31669.0
72.5°	1071.2	1183.1	1454.3	2776.4	5593.4	12620.8	24384.0	29119.8	29577.4	26628.1
75°	606.8	664.4	854.3	1393.3	2427.2	5881.6	14770.1	20672.0	21346.6	18353.3
77.5°	403.4	430.5	552.6	901.7	1366.2	2006.9	6312.1	10769.9	12058.1	10024.1
80°	271.2	294.9	379.7	603.4	888.2	861.1	2010.2	3990.0	4908.7	3444.2
82.5°	183.1	186.4	271.2	396.6	562.7	417.0	593.2	1240.7	1559.4	996.6
85°	105.1	101.7	200.0	230.5	250.9	172.9	179.7	372.9	488.2	420.4
87.5°	13.6	20.3	78.0	61.0	33.9	37.3	37.3	64.4	94.9	101.7
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°
5881.6	0°	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6
5888.4	2.5°	5888.4	5885.0	5874.8	5864.6	5840.9	5827.3	5834.1	5827.3	5824.0	5827.3
5932.4	5°	5932.4	5922.3	5895.1	5861.2	5813.8	5756.2	5718.9	5664.6	5613.8	5583.3
6051.1	7.5°	6051.1	6040.9	6003.6	5908.7	5756.2	5515.5	5295.1	5101.9	4956.1	4871.4
6240.9	10°	6240.9	6224.0	6166.3	5956.2	5556.1	5030.7	4593.4	4230.7	3993.4	3881.5
6464.7	12.5°	6464.7	6444.3	6342.6	5912.1	5176.5	4356.1	3752.7	3349.3	3128.9	3030.6
6722.3	15°	6729.1	6702.0	6501.9	5701.9	4623.9	3610.3	3057.7	2756.0	2613.7	2525.5
7051.1	17.5°	7057.9	7010.4	6620.6	5386.6	4023.9	3040.8	2630.6	2403.5	2278.1	2193.3
7481.6	20°	7485.0	7407.1	6715.5	5010.4	3471.3	2681.5	2342.5	2152.6	2057.7	1983.1
8091.8	22.5°	8081.7	7969.8	6830.8	4603.6	3081.5	2434.0	2128.9	1989.9	1911.9	1827.2
8942.7	25°	8820.7	8688.5	6973.2	4227.3	2813.7	2220.4	1973.0	1857.7	1766.2	1667.9
10058.0	27.5°	9854.6	9617.3	7142.6	3918.8	2583.2	2037.4	1830.6	1701.8	1596.7	1515.3
11322.5	30°	11007.2	10617.4	7291.8	3732.3	2373.0	1867.9	1644.1	1515.3	1417.0	1359.4
12458.1	32.5°	12098.8	11569.9	7390.1	3651.0	2183.1	1674.6	1440.7	1301.7	1227.2	1210.2
13570.0	35°	13129.3	12431.0	7379.9	3573.0	2013.6	1481.4	1240.7	1098.3	1040.7	1050.9
14766.7	37.5°	14315.8	13349.7	7308.8	3451.0	1874.6	1305.1	1067.8	942.4	891.6	894.9
16221.0	40°	15695.5	14410.7	7264.7	3220.5	1722.1	1142.4	925.5	823.8	786.5	772.9
17753.2	42.5°	17166.8	15437.9	7271.5	2959.4	1532.3	996.6	827.2	742.4	708.5	698.3
19458.4	45°	18644.8	16417.6	7281.6	2688.2	1332.3	884.8	756.0	684.8	664.4	650.9
21187.3	47.5°	20034.7	17251.5	7091.8	2396.7	1135.6	800.0	698.3	650.9	633.9	617.0
22922.9	50°	21329.6	17807.5	6634.2	2057.7	979.7	732.2	654.3	620.4	603.4	586.5
24495.9	52.5°	22336.5	17895.6	5878.2	1708.5	871.2	681.4	627.1	596.6	576.3	559.3
25767.1	55°	22783.9	17343.0	4803.6	1383.1	786.5	637.3	600.0	569.5	545.8	528.8
26767.1	57.5°	22668.7	16180.3	3745.9	1111.9	705.1	593.2	566.1	545.8	518.7	491.5
27577.3	60°	22102.6	14624.3	2823.8	925.5	630.5	545.8	528.8	511.9	474.6	433.9
27889.2	62.5°	21122.9	12668.3	2013.6	766.1	549.2	491.5	484.8	471.2	417.0	342.4
27428.2	65°	19624.5	10291.9	1356.0	637.3	471.2	430.5	433.9	410.2	339.0	254.2
25740.0	67.5°	17434.6	7525.7	867.8	522.1	393.2	359.3	362.7	349.2	288.1	217.0
22539.9	70°	14644.6	4983.2	566.1	396.6	315.3	278.0	298.3	301.7	244.1	176.3
17299.0	72.5°	10736.0	2942.5	396.6	294.9	230.5	193.2	244.1	250.9	196.6	132.2
10407.2	75°	6118.9	1396.7	298.3	213.6	142.4	135.6	189.8	189.8	135.6	88.1
4505.3	77.5°	2569.6	583.1	210.2	139.0	81.4	78.0	128.8	118.6	67.8	40.7
1098.3	80°	742.4	261.0	111.9	67.8	33.9	30.5	50.8	37.3	16.9	6.8
417.0	82.5°	291.5	115.3	44.1	27.1	13.6	13.6	6.8	0.0	0.0	0.0
237.3	85°	172.9	47.5	20.3	10.2	3.4	0.0	0.0	0.0	0.0	0.0
50.8	87.5°	44.1	10.2	6.8	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

<u>180°</u>
5881.6
5840.9
5590.0
4874.8
3871.3
3020.5
2528.9
2186.5
1969.6
1813.6
1657.7
1498.4
1349.2
1220.4
1050.9
908.5
769.5
694.9
650.9
617.0
586.5
556.0
525.4
488.2
427.1
335.6
247.5
206.8
169.5
125.4
81.4
40.7
6.8
0.0
0.0
0.0
0.0

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