

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: P956162

Luminaire Tested: **GALN-SB8D-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42407 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

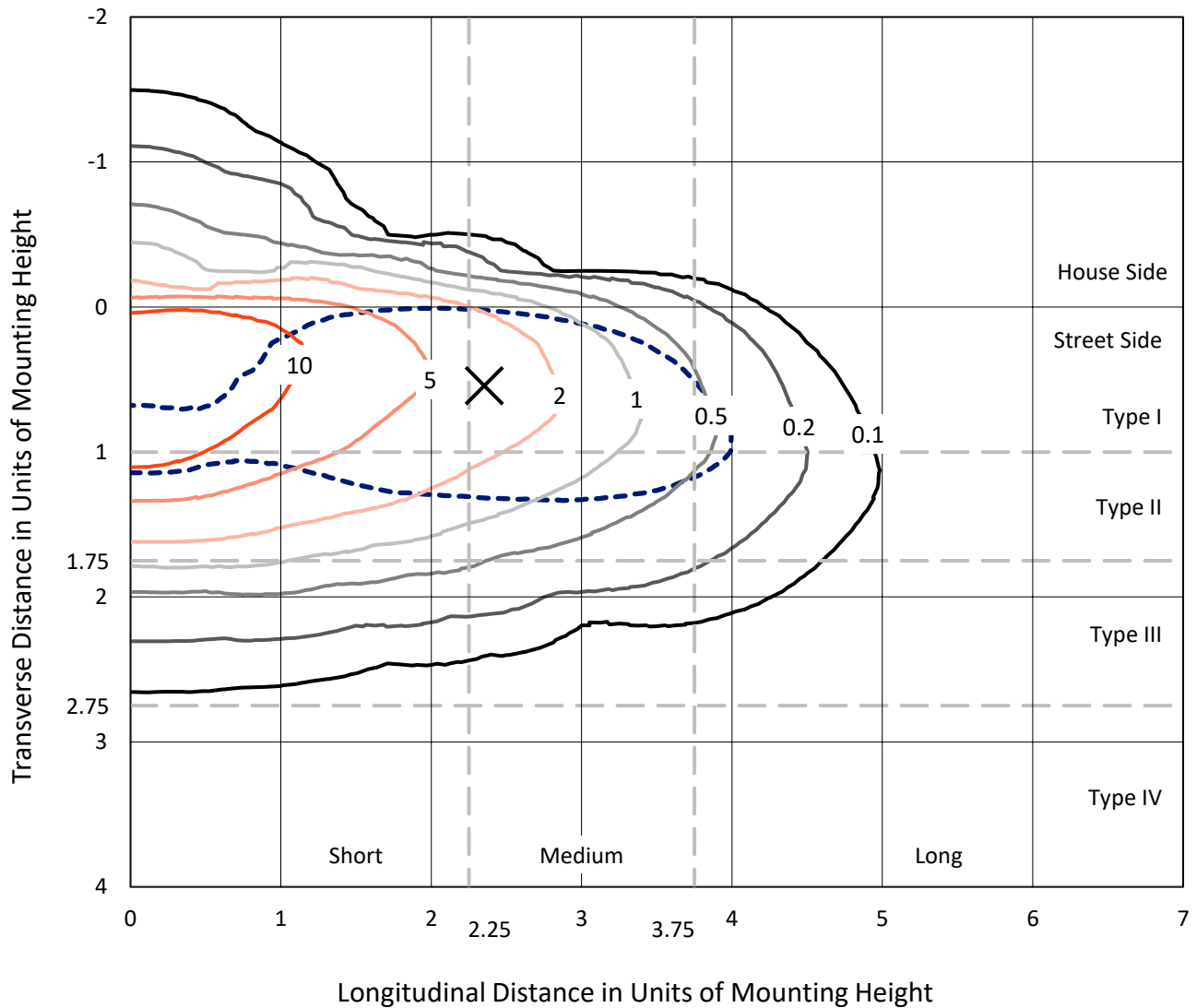
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

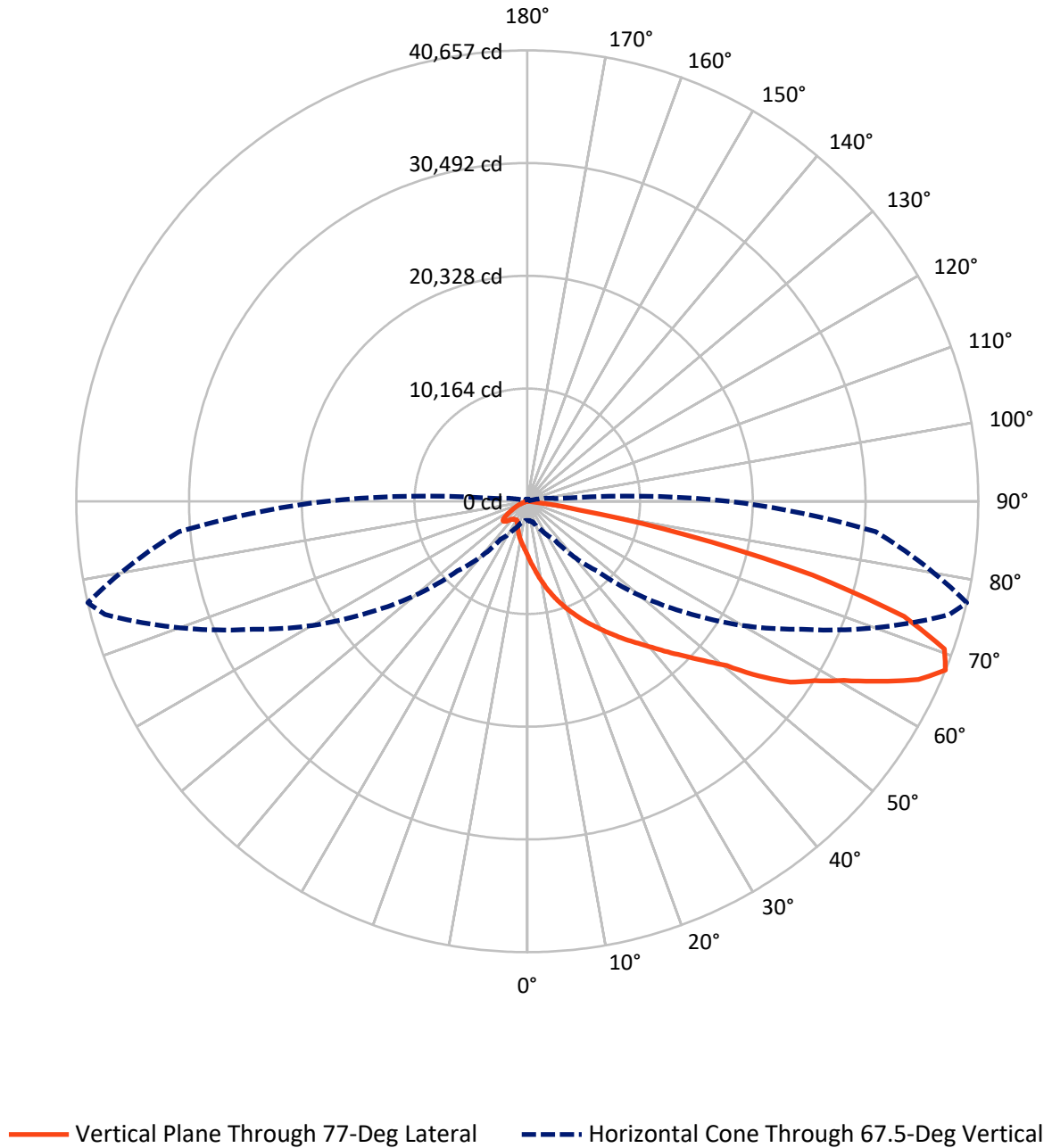
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3119.9	0.0	3119.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	39287.1	0.0	39287.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	42407.0	0.0	42407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.1	1.2
10°-20°	1747.9	4.1
20°-30°	3372.9	8.0
30°-40°	5855.5	13.8
40°-50°	8501.9	20.0
50°-60°	9763.4	23.0
60°-70°	8476.4	20.0
70°-80°	3992.5	9.4
80°-90°	197.4	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°	42407.0	100.0
0°-180°	42407.0	100.0

Coefficient of Utilization



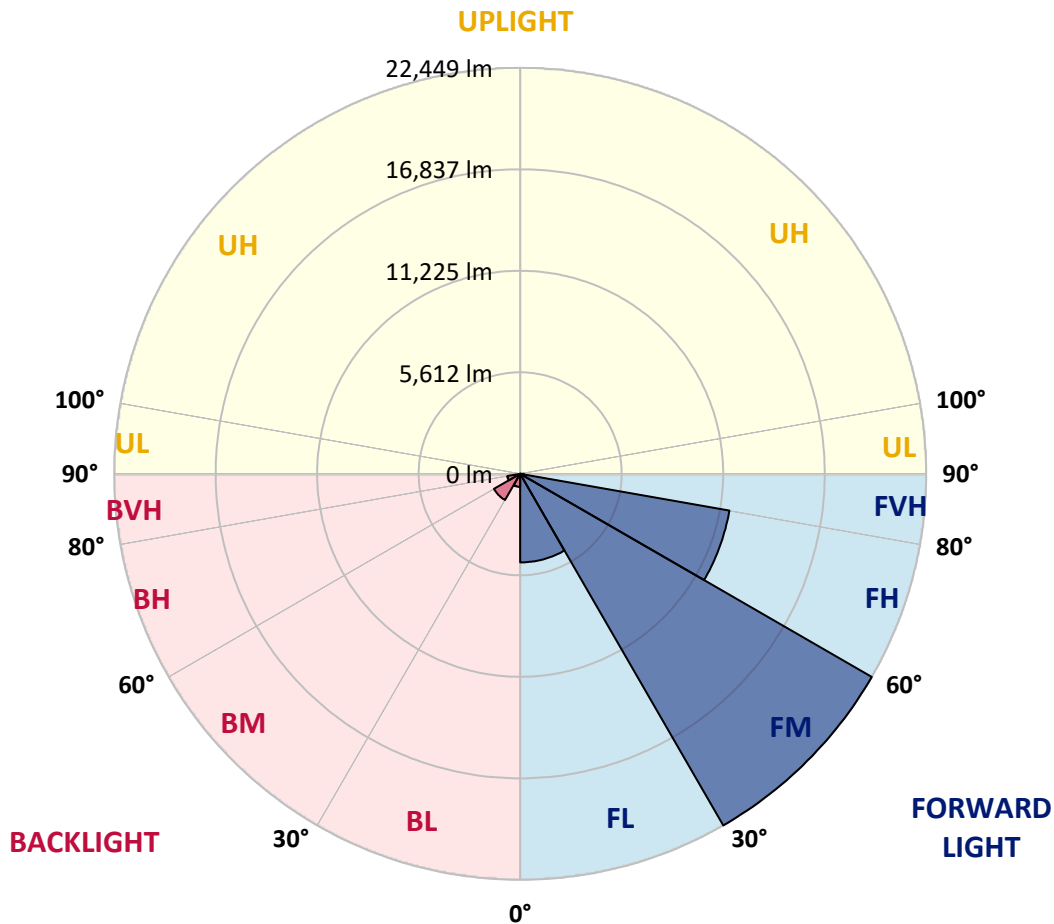
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4897.6	11.5			
FM (30°-60°)	22449.1	52.9			
FH (60°-80°)	11746.6	27.7			G4/12000
FVH (80°-90°)	193.8	0.5			G2/225
BL (0°-30°)	722.3	1.7	B2/1000		
BM (30°-60°)	1671.7	3.9	B2/2500		
BH (60°-80°)	722.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2
2.5°	6770.4	6812.5	6751.9	6636.1	6462.3	6349.0	6072.5	5811.8	5522.2	5430.0
5°	8253.0	8289.8	8221.4	8095.0	7863.2	7642.0	7278.6	6733.5	6167.3	5985.6
7.5°	9351.1	9372.1	9345.8	9229.9	9008.7	8758.6	8353.0	7707.8	6867.8	6667.7
10°	10141.1	10209.5	10201.6	10156.9	10009.4	9806.6	9374.8	8640.1	7652.5	7394.5
12.5°	10665.1	10741.5	10786.2	10886.3	10878.4	10749.4	10370.2	9593.3	8434.7	8131.8
15°	10817.8	10899.5	11070.6	11302.4	11507.8	11573.6	11307.7	10528.2	9295.8	8908.7
17.5°	10730.9	10857.3	11062.7	11428.8	11879.1	12176.7	12147.7	11431.4	10077.9	9635.5
20°	10923.2	11044.3	11204.9	11513.1	12037.1	12576.9	12792.9	12295.2	10854.7	10391.2
22.5°	11987.1	11966.0	11981.8	12031.8	12345.2	12879.8	13324.8	13079.9	11623.7	11149.6
25°	13672.4	13577.6	13417.0	13145.7	13066.7	13324.8	13788.3	13775.1	12434.7	11926.5
27.5°	15605.3	15589.5	15212.9	14559.9	14191.2	14091.1	14312.3	14451.9	13237.9	12695.4
30°	17456.5	17498.7	16990.4	16263.6	15586.9	15194.5	14994.4	15094.4	14054.2	13524.9
32.5°	19068.2	19112.9	18559.9	17709.3	16871.9	16397.9	15976.6	15729.1	14944.3	14367.6
35°	20429.6	20474.4	19839.7	18899.6	18006.9	17577.7	17101.0	16424.3	15839.7	15302.5
37.5°	21646.2	21633.1	20782.5	19834.5	18957.6	18617.9	18367.7	17280.1	16761.3	16242.6
40°	22365.1	22420.4	21693.6	20648.2	19797.6	19550.1	19534.3	18341.4	17825.2	17322.2
42.5°	22575.8	22673.2	22146.6	21288.1	20516.5	20247.9	20661.3	19489.5	19062.9	18573.1
45°	22196.6	22291.4	22051.8	21456.6	21006.3	20832.5	21630.4	20679.8	20384.8	19900.3
47.5°	21090.6	21209.1	21267.0	21140.6	21135.4	21311.8	22499.4	21933.3	21954.3	21459.3
50°	18949.7	19149.8	19681.7	20129.4	20822.0	21691.0	23344.7	23292.1	23723.9	23297.3
52.5°	15057.6	15342.0	17174.8	18399.3	19955.6	21619.9	24274.3	25472.5	26828.7	26204.6
55°	12100.3	12100.3	13590.8	15881.8	18265.0	21151.2	24679.9	26889.2	28943.3	28795.8
57.5°	9864.6	9983.1	10933.7	12958.8	15818.6	20034.6	24930.0	27779.3	30647.0	30539.1
60°	6088.3	6343.8	8139.7	10138.4	13035.1	18046.4	24772.0	28679.9	32714.2	32801.1
62.5°	3428.6	3523.4	4324.0	7294.4	10135.8	15373.6	23563.3	29182.9	35358.1	35726.8
65°	2367.4	2414.8	2722.9	4539.9	7025.8	12239.9	21201.2	28869.5	38007.3	38752.5
67.5°	1719.6	1743.3	1935.5	2772.9	4168.6	8874.4	17498.7	27289.5	39410.9	40656.5
70°	1321.9	1337.7	1477.3	1822.3	2462.2	5477.4	12708.6	24147.9	38394.4	39882.2
72.5°	1074.4	1090.2	1198.2	1348.3	1632.7	3239.0	7702.6	19610.6	33907.1	35513.5
75°	905.9	926.9	1024.4	1121.8	1279.8	2080.4	3613.0	13656.6	25498.8	26552.2
77.5°	503.0	463.5	832.1	929.6	1079.7	1316.7	1690.6	8037.0	14280.7	14573.0
80°	313.4	323.9	661.0	747.9	829.5	663.6	774.2	3094.2	4950.7	4703.2
82.5°	18.4	42.1	508.2	539.8	568.8	284.4	292.3	1050.7	1192.9	1095.5
85°	0.0	0.0	231.7	187.0	197.5	81.6	84.3	244.9	160.6	173.8
87.5°	0.0	0.0	0.0	5.3	0.0	7.9	15.8	21.1	7.9	10.5
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°
4890.2	0°	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2	4890.2
5140.3	2.5°	4956.0	4771.6	4397.7	4031.7	3734.1	3457.6	3260.1	3073.1	2978.3	2973.1
5472.1	5°	5106.1	4719.0	3971.1	3310.1	2778.2	2351.6	2075.1	1877.6	1777.5	1743.3
5880.3	7.5°	5316.8	4734.8	3597.2	2678.1	2051.4	1685.4	1527.3	1464.1	1443.1	1419.4
6341.1	10°	5582.7	4771.6	3262.7	2156.7	1616.9	1432.5	1369.3	1343.0	1327.2	1311.4
6859.9	12.5°	5880.3	4805.9	2930.9	1790.7	1422.0	1327.2	1282.4	1250.8	1229.8	1211.3
7391.8	15°	6170.0	4826.9	2586.0	1535.2	1321.9	1245.6	1198.2	1163.9	1135.0	1113.9
7913.2	17.5°	6457.0	4855.9	2262.1	1382.5	1240.3	1163.9	1116.5	1074.4	1050.7	1027.0
8461.0	20°	6775.6	4850.7	1956.6	1274.5	1158.7	1082.3	1032.3	992.8	969.1	942.7
9040.3	22.5°	7070.6	4824.3	1688.0	1182.4	1074.4	1000.7	945.4	905.9	882.2	861.1
9632.8	25°	7410.3	4803.2	1464.1	1098.1	995.4	921.7	861.1	824.2	797.9	779.5
10228.0	27.5°	7736.8	4771.6	1300.9	1021.7	919.0	847.9	790.0	747.9	724.2	711.0
10841.5	30°	8058.1	4763.7	1240.3	948.0	850.6	779.5	721.5	682.0	663.6	658.3
11515.7	32.5°	8445.2	4784.8	1266.6	921.7	787.4	716.3	661.0	632.0	613.6	613.6
12266.2	35°	8858.6	4779.5	1306.1	945.4	745.2	653.1	610.9	592.5	574.1	574.1
13098.3	37.5°	9377.4	4787.4	1337.7	984.9	729.4	600.4	576.7	553.0	542.5	542.5
14009.5	40°	10151.6	5048.2	1321.9	1019.1	724.2	563.5	516.1	508.2	500.3	500.3
15039.1	42.5°	11099.6	5614.3	1343.0	1021.7	721.5	537.2	474.0	489.8	471.4	468.7
16200.4	45°	12137.2	6233.2	1477.3	966.4	718.9	524.0	452.9	471.4	442.4	442.4
17546.1	47.5°	13166.8	6846.7	1614.2	887.4	711.0	521.4	434.5	424.0	416.1	418.7
19299.9	50°	14586.2	7347.1	1666.9	779.5	692.6	516.1	400.3	402.9	397.6	402.9
21772.6	52.5°	16132.0	7452.4	1603.7	658.3	639.9	500.3	376.6	387.1	384.5	389.7
23513.3	55°	17095.8	7339.2	1324.6	547.7	558.3	437.1	352.9	373.9	373.9	373.9
25214.4	57.5°	18091.2	6857.3	940.1	445.0	463.5	358.1	331.8	360.8	358.1	355.5
27263.2	60°	18807.5	6077.8	618.8	366.0	368.7	294.9	308.1	339.7	337.1	323.9
29375.1	62.5°	19342.0	5216.7	397.6	310.7	281.8	266.0	281.8	308.1	297.6	268.6
31165.8	65°	19281.5	4023.8	305.5	266.0	231.7	231.7	244.9	268.6	237.0	189.6
31508.2	67.5°	18157.0	2722.9	252.8	223.8	194.9	192.2	202.8	223.8	202.8	160.6
29754.3	70°	16147.8	1780.2	202.8	173.8	155.4	142.2	163.3	192.2	171.2	129.0
25330.3	72.5°	13106.2	1084.9	152.7	126.4	113.2	92.2	129.0	158.0	136.9	94.8
17614.5	75°	8479.4	553.0	105.3	81.6	60.6	55.3	94.8	118.5	94.8	57.9
7815.8	77.5°	3244.3	231.7	57.9	36.9	31.6	26.3	52.7	71.1	39.5	13.2
1514.2	80°	624.1	97.4	29.0	18.4	15.8	10.5	7.9	5.3	0.0	0.0
268.6	82.5°	108.0	31.6	10.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0
52.7	85°	36.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.4	87.5°	13.2	0.0	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°
4890.2
2967.8
1738.0
1414.1
1306.1
1206.1
1111.3
1024.4
940.1
858.5
776.8
711.0
655.7
613.6
574.1
542.5
500.3
466.1
442.4
418.7
402.9
389.7
373.9
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323.9
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