

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: P956855

Luminaire Tested: **GALN-SB9B-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956855
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-SB9B-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 450mA 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: 41538 lumens
Efficiency: N/A
Efficacy: 126.1 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

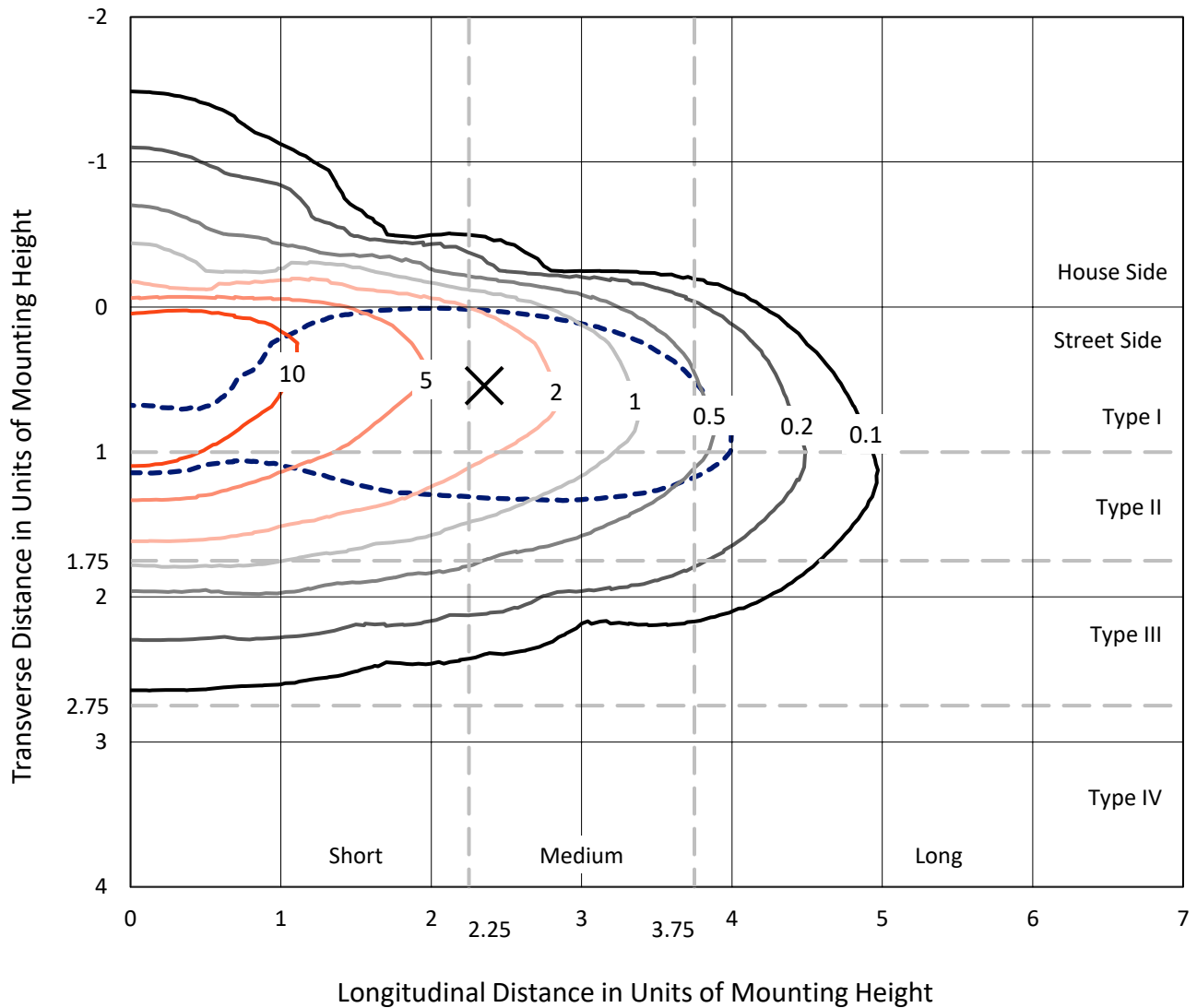
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

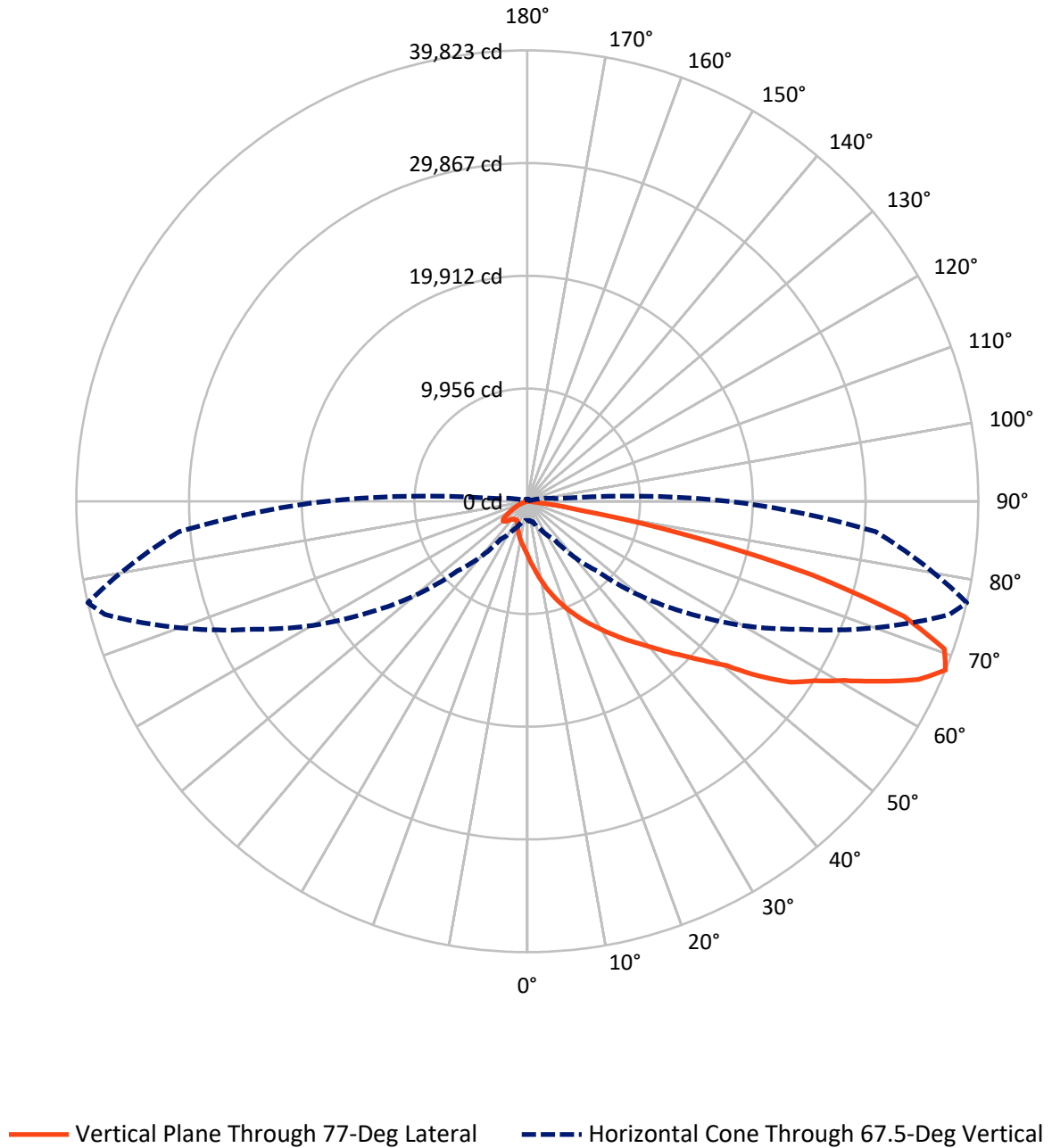
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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	3056.0	0.0	3056.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	38482.0	0.0	38482.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	41538.0	0.0	41538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.9	1.2
10°-20°	1712.0	4.1
20°-30°	3303.8	8.0
30°-40°	5735.5	13.8
40°-50°	8327.7	20.0
50°-60°	9563.3	23.0
60°-70°	8302.7	20.0
70°-80°	3910.7	9.4
80°-90°	193.4	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°	41538.0	100.0
0°-180°	41538.0	100.0

Coefficient of Utilization



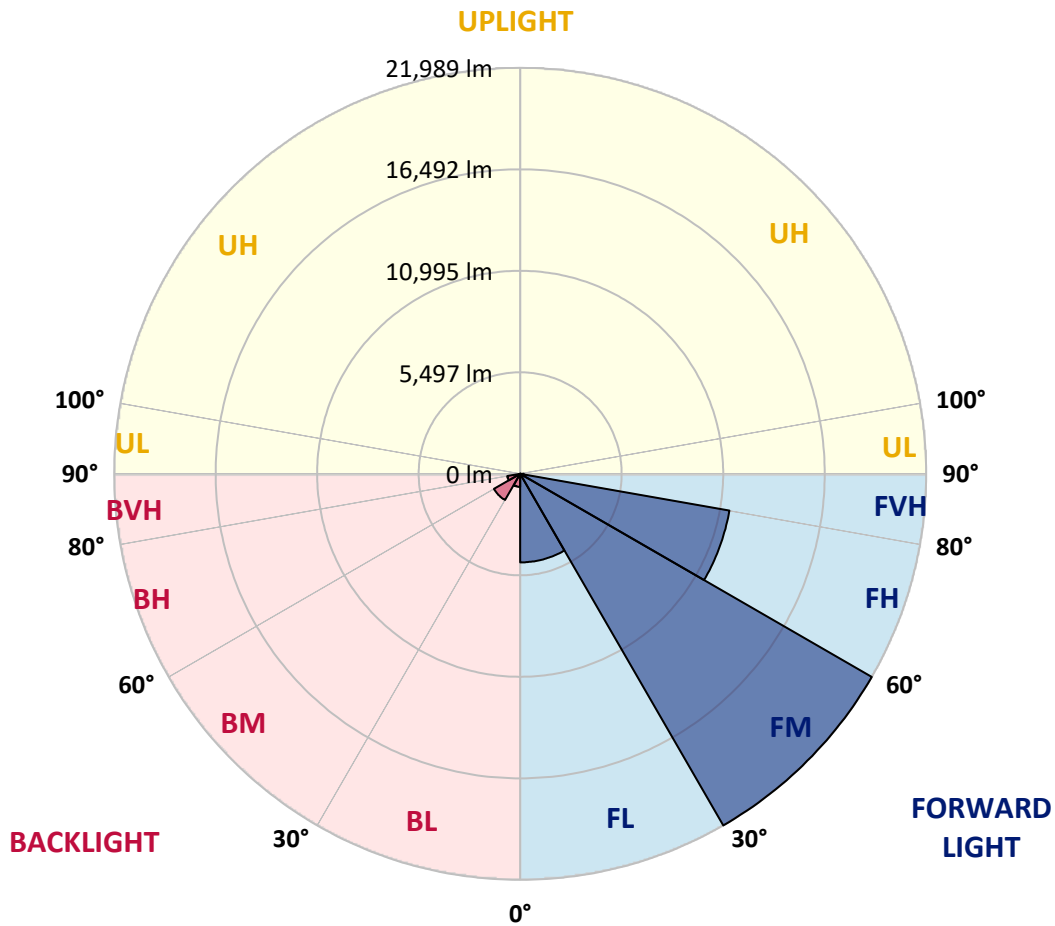
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4797.2	11.5			
FM (30°-60°)	21989.1	52.9			
FH (60°-80°)	11505.9	27.7			G4/12000
FVH (80°-90°)	189.8	0.5			G2/225
BL (0°-30°)	707.5	1.7	B2/1000		
BM (30°-60°)	1637.4	3.9	B2/2500		
BH (60°-80°)	707.5	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°	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9
2.5°	6631.6	6672.9	6613.6	6500.1	6329.8	6218.9	5948.1	5692.7	5409.0	5318.7
5°	8083.8	8119.9	8052.9	7929.1	7702.1	7485.4	7129.5	6595.5	6040.9	5863.0
7.5°	9159.4	9180.1	9154.3	9040.8	8824.1	8579.1	8181.9	7549.9	6727.1	6531.0
10°	9933.3	10000.3	9992.6	9948.7	9804.3	9605.7	9182.7	8463.0	7495.7	7242.9
12.5°	10446.6	10521.4	10565.2	10663.2	10655.5	10529.1	10157.7	9396.7	8261.8	7965.2
15°	10596.2	10676.1	10843.8	11070.8	11272.0	11336.5	11075.9	10312.4	9105.3	8726.1
17.5°	10511.0	10634.9	10836.1	11194.6	11635.7	11927.1	11898.8	11197.2	9871.4	9438.0
20°	10699.3	10818.0	10975.3	11277.1	11790.4	12319.2	12530.7	12043.2	10632.3	10178.3
22.5°	11741.4	11720.8	11736.3	11785.3	12092.2	12615.8	13051.8	12811.9	11385.5	10921.2
25°	13392.2	13299.4	13142.0	12876.4	12799.0	13051.8	13505.7	13492.8	12179.9	11682.1
27.5°	15285.5	15270.0	14901.2	14261.5	13900.4	13802.4	14019.0	14155.7	12966.6	12435.3
30°	17098.8	17140.1	16642.3	15930.4	15267.5	14883.1	14687.1	14785.1	13766.2	13247.8
32.5°	18677.4	18721.3	18179.6	17346.5	16526.2	16061.9	15649.2	15406.7	14638.1	14073.2
35°	20011.0	20054.8	19433.2	18512.3	17637.9	17217.5	16750.6	16087.7	15515.1	14988.9
37.5°	21202.7	21189.8	20356.6	19428.0	18569.1	18236.3	17991.3	16926.0	16417.9	15909.7
40°	21906.8	21961.0	21249.1	20225.1	19391.9	19149.5	19134.0	17965.5	17459.9	16967.3
42.5°	22113.2	22208.6	21692.7	20851.9	20096.1	19833.0	20238.0	19090.1	18672.3	18192.5
45°	21741.7	21834.6	21599.9	21016.9	20575.9	20405.6	21187.2	20256.0	19967.1	19492.5
47.5°	20658.4	20774.5	20831.2	20707.4	20702.2	20875.1	22038.4	21483.8	21504.4	21019.5
50°	18561.3	18757.4	19278.4	19716.9	20395.3	21246.5	22866.4	22814.8	23237.8	22819.9
52.5°	14749.0	15027.6	16822.8	18022.3	19546.7	21176.9	23776.9	24950.5	26278.9	25667.6
55°	11852.3	11852.3	13312.3	15556.3	17890.7	20717.7	24174.1	26338.2	28350.2	28205.7
57.5°	9662.4	9778.5	10709.7	12693.2	15494.4	19624.1	24419.2	27210.1	30019.0	29913.3
60°	5963.6	6213.8	7972.9	9930.7	12768.0	17676.6	24264.4	28092.2	32043.9	32129.0
62.5°	3358.4	3451.2	4235.4	7144.9	9928.1	15058.5	23080.5	28584.9	34633.6	34994.7
65°	2318.9	2365.3	2667.1	4446.9	6881.8	11989.0	20766.7	28277.9	37228.5	37958.4
67.5°	1684.3	1707.6	1895.9	2716.1	4083.2	8692.6	17140.1	26730.3	38603.3	39823.3
70°	1294.9	1310.3	1447.0	1784.9	2411.7	5365.1	12448.2	23653.1	37607.6	39065.0
72.5°	1052.4	1067.9	1173.6	1320.7	1599.2	3172.7	7544.7	19208.8	33212.3	34785.8
75°	887.3	907.9	1003.4	1098.8	1253.6	2037.7	3538.9	13376.8	24976.3	26008.1
77.5°	492.7	454.0	815.1	910.5	1057.6	1289.7	1656.0	7872.3	13988.1	14274.4
80°	306.9	317.3	647.4	732.5	812.5	650.0	758.3	3030.8	4849.3	4606.8
82.5°	18.1	41.3	497.8	528.8	557.1	278.6	286.3	1029.2	1168.5	1073.0
85°	0.0	0.0	227.0	183.1	193.5	80.0	82.5	239.9	157.3	170.2
87.5°	0.0	0.0	0.0	5.2	0.0	7.7	15.5	20.6	7.7	10.3
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°
4789.9	0°	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9
5035.0	2.5°	4854.4	4673.9	4307.6	3949.1	3657.6	3386.7	3193.3	3010.2	2917.3	2912.1
5360.0	5°	5001.5	4622.3	3889.7	3242.3	2721.3	2303.4	2032.6	1839.1	1741.1	1707.6
5759.8	7.5°	5207.8	4637.8	3523.5	2623.2	2009.4	1650.8	1496.1	1434.1	1413.5	1390.3
6211.2	10°	5468.3	4673.9	3195.9	2112.5	1583.8	1403.2	1341.3	1315.5	1300.0	1284.5
6719.3	12.5°	5759.8	4707.4	2870.9	1754.0	1392.9	1300.0	1256.2	1225.2	1204.6	1186.5
7240.4	15°	6043.5	4728.0	2533.0	1503.8	1294.9	1220.1	1173.6	1140.1	1111.7	1091.1
7751.1	17.5°	6324.7	4756.4	2215.7	1354.2	1214.9	1140.1	1093.7	1052.4	1029.2	1006.0
8287.6	20°	6636.8	4751.3	1916.5	1248.4	1134.9	1060.1	1011.1	972.4	949.2	923.4
8855.1	22.5°	6925.7	4725.5	1653.4	1158.1	1052.4	980.2	926.0	887.3	864.1	843.5
9435.4	25°	7258.4	4704.8	1434.1	1075.6	975.0	902.8	843.5	807.4	781.6	763.5
10018.4	27.5°	7578.3	4673.9	1274.2	1000.8	900.2	830.6	773.8	732.5	709.3	696.4
10619.4	30°	7893.0	4666.1	1214.9	928.6	833.1	763.5	706.8	668.1	650.0	644.8
11279.7	32.5°	8272.1	4686.8	1240.7	902.8	771.2	701.6	647.4	619.1	601.0	601.0
12014.8	35°	8677.1	4681.6	1279.4	926.0	730.0	639.7	598.4	580.4	562.3	562.3
12829.9	37.5°	9185.2	4689.3	1310.3	964.7	714.5	588.1	564.9	541.7	531.4	531.4
13722.4	40°	9943.6	4944.7	1294.9	998.2	709.3	552.0	505.6	497.8	490.1	490.1
14730.9	42.5°	10872.2	5499.3	1315.5	1000.8	706.8	526.2	464.3	479.8	461.7	459.1
15868.5	45°	11888.4	6105.4	1447.0	946.6	704.2	513.3	443.7	461.7	433.3	433.3
17186.5	47.5°	12897.0	6706.4	1581.2	869.3	696.4	510.7	425.6	415.3	407.5	410.1
18904.4	50°	14287.3	7196.5	1632.8	763.5	678.4	505.6	392.1	394.6	389.5	394.6
21326.5	52.5°	15801.4	7299.7	1570.9	644.8	626.8	490.1	368.9	379.2	376.6	381.8
23031.4	55°	16745.5	7188.8	1297.4	536.5	546.8	428.2	345.6	366.3	366.3	366.3
24697.7	57.5°	17720.5	6716.8	920.8	435.9	454.0	350.8	325.0	353.4	350.8	348.2
26704.5	60°	18422.1	5953.3	606.2	358.5	361.1	288.9	301.8	332.7	330.2	317.3
28773.2	62.5°	18945.7	5109.8	389.5	304.4	276.0	260.5	276.0	301.8	291.5	263.1
30527.2	65°	18886.4	3941.3	299.2	260.5	227.0	227.0	239.9	263.1	232.1	185.7
30862.5	67.5°	17784.9	2667.1	247.6	219.2	190.9	188.3	198.6	219.2	198.6	157.3
29144.6	70°	15816.9	1743.7	198.6	170.2	152.2	139.3	159.9	188.3	167.7	126.4
24811.2	72.5°	12837.7	1062.7	149.6	123.8	110.9	90.3	126.4	154.8	134.1	92.9
17253.6	75°	8305.7	541.7	103.2	80.0	59.3	54.2	92.9	116.1	92.9	56.7
7655.7	77.5°	3177.8	227.0	56.7	36.1	31.0	25.8	51.6	69.6	38.7	12.9
1483.2	80°	611.3	95.4	28.4	18.1	15.5	10.3	7.7	5.2	0.0	0.0
263.1	82.5°	105.8	31.0	10.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
51.6	85°	36.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.1	87.5°	12.9	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°
4789.9
2907.0
1702.4
1385.1
1279.4
1181.4
1088.5
1003.4
920.8
840.9
760.9
696.4
642.3
601.0
562.3
531.4
490.1
456.6
433.3
410.1
394.6
381.8
366.3
348.2
317.3
257.9
180.6
152.2
121.2
87.7
49.0
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