

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: P955805

Luminaire Tested: **GALN-SB8C-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955805
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-SB8C-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA 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: 31210 lumens
Efficiency: N/A
Efficacy: 78.1 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

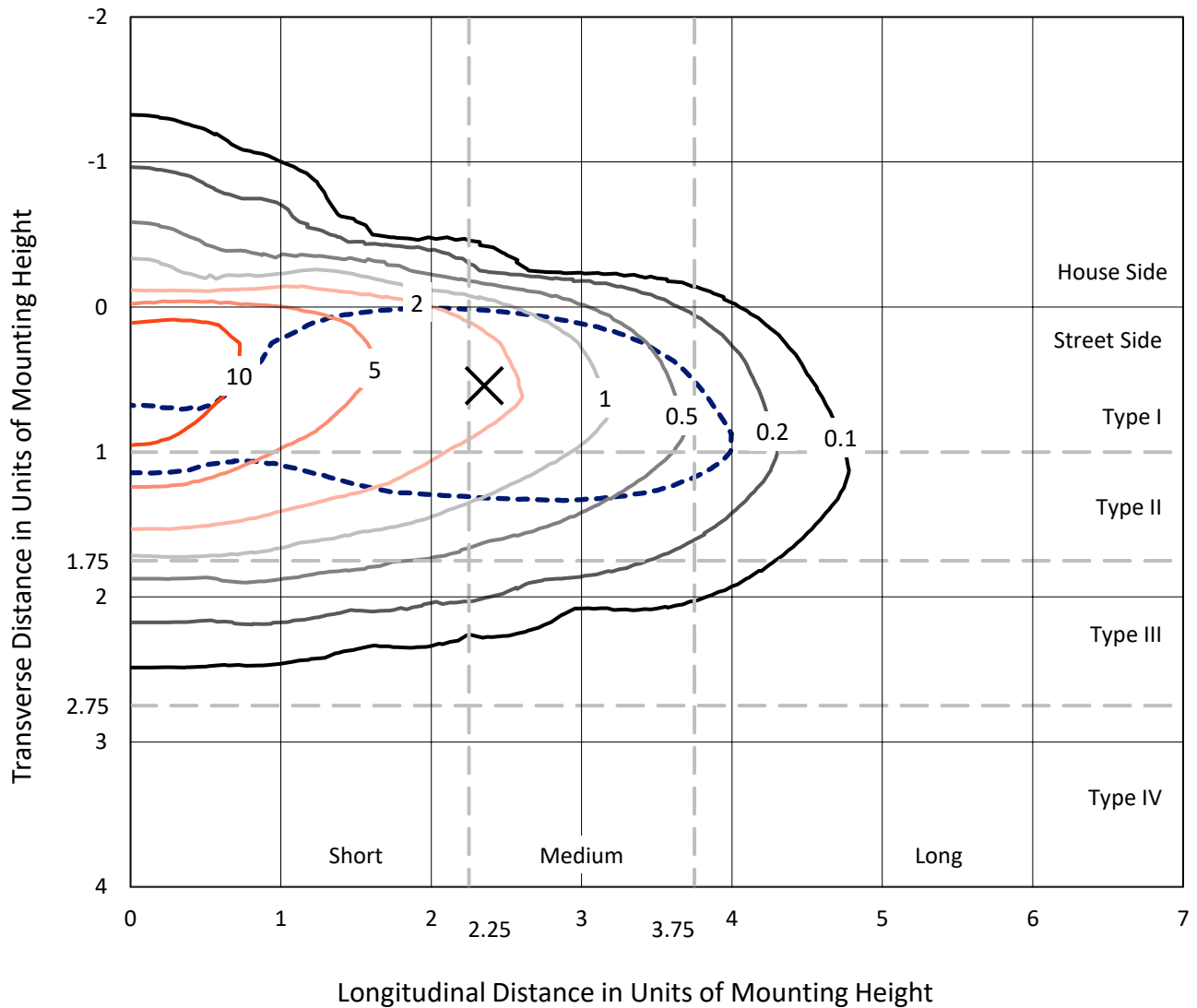
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

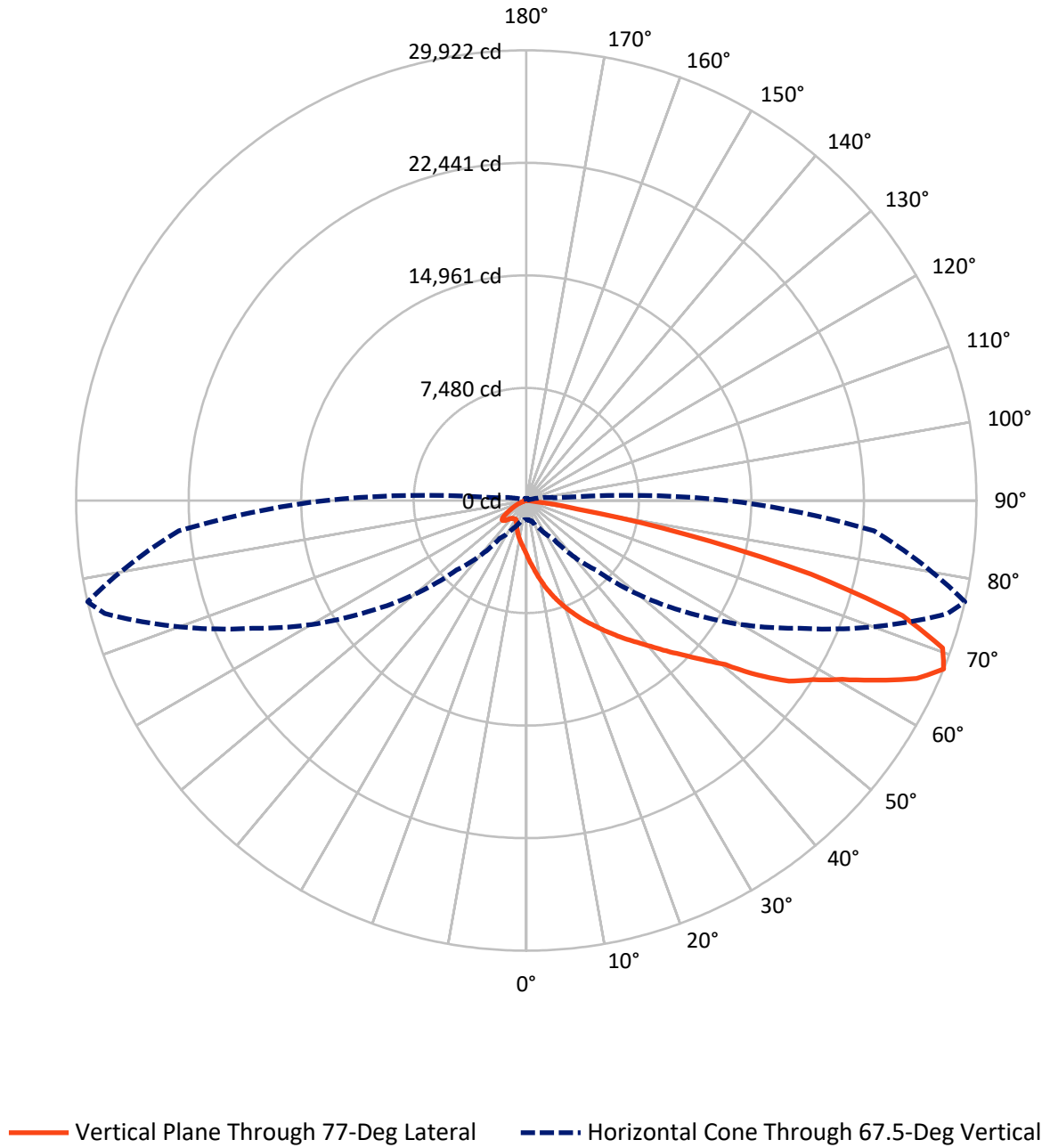
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	2296.1	0.0	2296.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	28913.9	0.0	28913.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	31210.0	0.0	31210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	1.2
10°-20°	1286.4	4.1
20°-30°	2482.3	8.0
30°-40°	4309.4	13.8
40°-50°	6257.1	20.0
50°-60°	7185.5	23.0
60°-70°	6238.3	20.0
70°-80°	2938.3	9.4
80°-90°	145.3	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°	31210.0	100.0
0°-180°	31210.0	100.0

Coefficient of Utilization



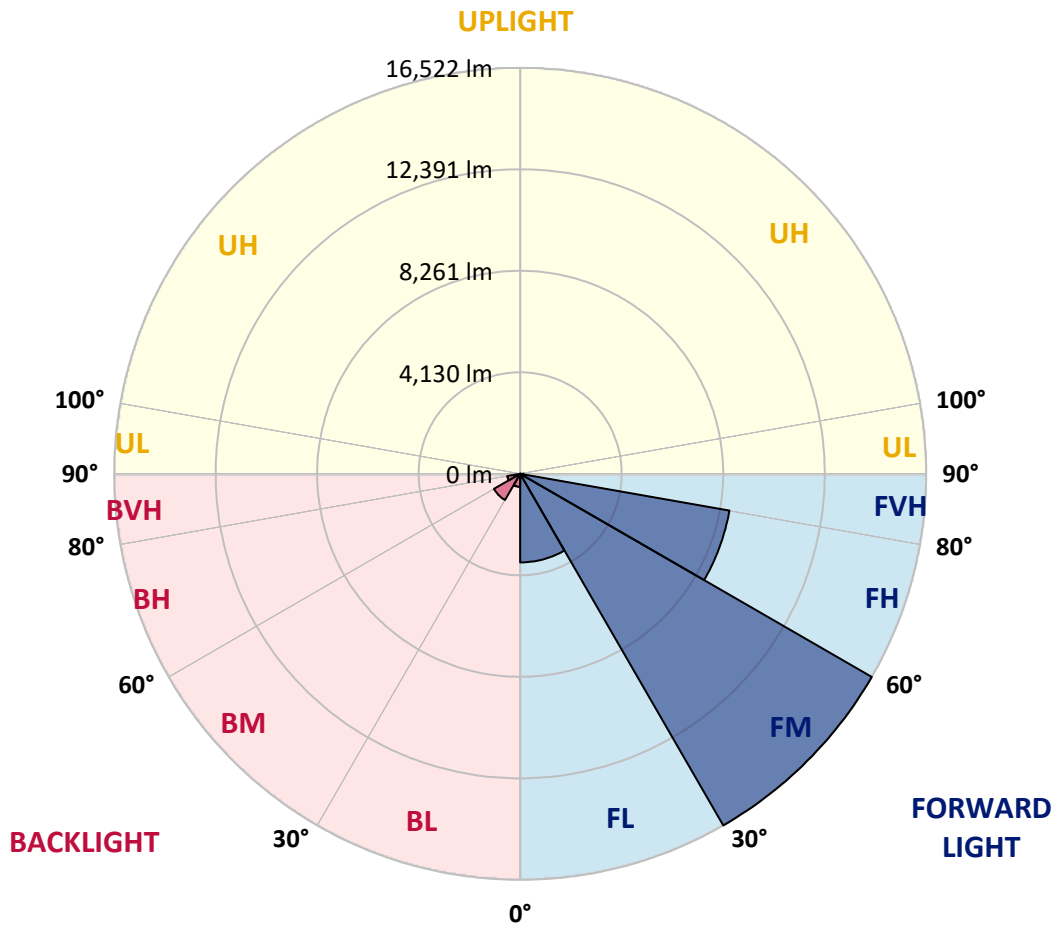
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3604.4	11.5			
FM (30°-60°)	16521.7	52.9			
FH (60°-80°)	8645.1	27.7			G4/12000
FVH (80°-90°)	142.6	0.5			G2/225
BL (0°-30°)	531.6	1.7	B2/1000		
BM (30°-60°)	1230.3	3.9	B2/2500		
BH (60°-80°)	531.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	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°	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0
2.5°	4982.7	5013.8	4969.2	4883.9	4756.0	4672.7	4469.2	4277.3	4064.1	3996.3
5°	6073.9	6101.0	6050.6	5957.6	5787.0	5624.2	5356.8	4955.6	4538.9	4405.2
7.5°	6882.0	6897.5	6878.2	6792.9	6630.1	6446.0	6147.5	5672.7	5054.5	4907.2
10°	7463.5	7513.8	7508.0	7475.1	7366.6	7217.3	6899.5	6358.8	5632.0	5442.1
12.5°	7849.1	7905.3	7938.3	8011.9	8006.1	7911.1	7632.1	7060.3	6207.6	5984.7
15°	7961.5	8021.6	8147.6	8318.1	8469.3	8517.8	8322.0	7748.4	6841.3	6556.4
17.5°	7897.6	7990.6	8141.8	8411.2	8742.6	8961.6	8940.3	8413.1	7416.9	7091.4
20°	8039.1	8128.2	8246.4	8473.2	8858.9	9256.2	9415.1	9048.8	7988.7	7647.6
22.5°	8822.0	8806.5	8818.2	8855.0	9085.6	9479.0	9806.6	9626.3	8554.6	8205.7
25°	10062.4	9992.6	9874.4	9674.8	9616.6	9806.6	10147.7	10138.0	9151.5	8777.5
27.5°	11484.9	11473.3	11196.2	10715.5	10444.2	10370.5	10533.3	10636.1	9742.6	9343.4
30°	12847.4	12878.4	12504.3	11969.4	11471.4	11182.6	11035.3	11108.9	10343.4	9953.9
32.5°	14033.5	14066.4	13659.4	13033.4	12417.1	12068.3	11758.2	11576.0	10998.5	10574.0
35°	15035.4	15068.4	14601.3	13909.4	13252.4	12936.5	12585.7	12087.7	11657.4	11262.0
37.5°	15930.8	15921.1	15295.1	14597.4	13952.1	13702.1	13517.9	12717.5	12335.7	11953.9
40°	16459.9	16500.6	15965.7	15196.3	14570.3	14388.1	14376.5	13498.6	13118.7	12748.5
42.5°	16615.0	16686.7	16299.1	15667.3	15099.4	14901.7	15206.0	14343.6	14029.6	13669.1
45°	16335.9	16405.7	16229.3	15791.3	15459.9	15332.0	15919.2	15219.6	15002.5	14645.9
47.5°	15521.9	15609.1	15651.7	15558.7	15554.8	15684.7	16558.8	16142.1	16157.6	15793.2
50°	13946.3	14093.6	14485.0	14814.5	15324.2	15963.8	17180.9	17142.1	17460.0	17146.0
52.5°	11081.8	11291.1	12640.0	13541.2	14686.6	15911.4	17865.0	18746.8	19744.9	19285.6
55°	8905.4	8905.4	10002.3	11688.4	13442.4	15566.5	18163.5	19789.5	21301.2	21192.7
57.5°	7260.0	7347.2	8046.8	9537.2	11641.9	14744.7	18347.6	20444.6	22555.1	22475.6
60°	4480.8	4668.8	5990.5	7461.5	9593.4	13281.5	18231.3	21107.4	24076.5	24140.4
62.5°	2523.4	2593.1	3182.3	5368.4	7459.6	11314.4	17341.7	21477.5	26022.3	26293.6
65°	1742.3	1777.2	2004.0	3341.2	5170.7	9008.1	15603.3	21246.9	27972.0	28520.4
67.5°	1265.6	1283.0	1424.5	2040.8	3067.9	6531.3	12878.4	20084.1	29005.0	29921.7
70°	972.9	984.5	1087.2	1341.1	1812.1	4031.2	9353.1	17772.0	28256.9	29351.9
72.5°	790.7	802.4	881.8	992.3	1201.6	2383.8	5668.8	14432.7	24954.4	26136.6
75°	666.7	682.2	753.9	825.6	941.9	1531.1	2659.0	10050.8	18766.2	19541.4
77.5°	370.2	341.1	612.4	684.1	794.6	969.0	1244.2	5914.9	10510.1	10725.2
80°	230.6	238.4	486.5	550.4	610.5	488.4	569.8	2277.2	3643.5	3461.4
82.5°	13.6	31.0	374.0	397.3	418.6	209.3	215.1	773.3	877.9	806.2
85°	0.0	0.0	170.5	137.6	145.4	60.1	62.0	180.2	118.2	127.9
87.5°	0.0	0.0	0.0	3.9	0.0	5.8	11.6	15.5	5.8	7.8
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°
3599.0	0°	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0	3599.0
3783.1	2.5°	3647.4	3511.8	3236.6	2967.2	2748.2	2544.7	2399.3	2261.7	2191.9	2188.1
4027.3	5°	3757.9	3473.0	2922.6	2436.1	2044.7	1730.7	1527.2	1381.8	1308.2	1283.0
4327.7	7.5°	3912.9	3484.6	2647.4	1971.0	1509.7	1240.4	1124.1	1077.6	1062.1	1044.6
4666.8	10°	4108.7	3511.8	2401.3	1587.3	1190.0	1054.3	1007.8	988.4	976.8	965.2
5048.6	12.5°	4327.7	3537.0	2157.1	1317.9	1046.6	976.8	943.8	920.6	905.1	891.5
5440.1	15°	4540.9	3552.5	1903.2	1129.9	972.9	916.7	881.8	856.6	835.3	819.8
5823.9	17.5°	4752.1	3573.8	1664.8	1017.5	912.8	856.6	821.7	790.7	773.3	755.8
6227.0	20°	4986.6	3569.9	1440.0	938.0	852.7	796.5	759.7	730.6	713.2	693.8
6653.3	22.5°	5203.7	3550.5	1242.3	870.2	790.7	736.5	695.8	666.7	649.2	633.7
7089.4	25°	5453.7	3535.0	1077.6	808.2	732.6	678.3	633.7	606.6	587.2	573.7
7527.4	27.5°	5694.0	3511.8	957.4	752.0	676.4	624.1	581.4	550.4	533.0	523.3
7979.0	30°	5930.5	3505.9	912.8	697.7	626.0	573.7	531.0	502.0	488.4	484.5
8475.1	32.5°	6215.3	3521.4	932.2	678.3	579.5	527.2	486.5	465.1	451.6	451.6
9027.5	35°	6519.6	3517.6	961.3	695.8	548.5	480.6	449.6	436.1	422.5	422.5
9639.9	37.5°	6901.4	3523.4	984.5	724.8	536.8	441.9	424.4	407.0	399.2	399.2
10310.5	40°	7471.2	3715.3	972.9	750.0	533.0	414.7	379.9	374.0	368.2	368.2
11068.2	42.5°	8168.9	4131.9	988.4	752.0	531.0	395.4	348.9	360.5	346.9	345.0
11922.9	45°	8932.5	4587.4	1087.2	711.3	529.1	385.7	333.3	346.9	325.6	325.6
12913.3	47.5°	9690.3	5038.9	1188.0	653.1	523.3	383.7	319.8	312.0	306.2	308.2
14204.0	50°	10734.9	5407.2	1226.8	573.7	509.7	379.9	294.6	296.5	292.6	296.5
16023.9	52.5°	11872.5	5484.7	1180.3	484.5	470.9	368.2	277.1	284.9	283.0	286.8
17304.9	55°	12581.9	5401.4	974.8	403.1	410.9	321.7	259.7	275.2	275.2	275.2
18556.9	57.5°	13314.5	5046.7	691.9	327.5	341.1	263.6	244.2	265.5	263.6	261.6
20064.7	60°	13841.6	4473.0	455.4	269.4	271.3	217.1	226.8	250.0	248.1	238.4
21619.0	62.5°	14235.0	3839.3	292.6	228.7	207.4	195.7	207.4	226.8	219.0	197.7
22936.9	65°	14190.5	2961.4	224.8	195.7	170.5	170.5	180.2	197.7	174.4	139.5
23188.9	67.5°	13362.9	2004.0	186.1	164.7	143.4	141.5	149.2	164.7	149.2	118.2
21898.1	70°	11884.2	1310.1	149.2	127.9	114.3	104.7	120.2	141.5	126.0	95.0
18642.2	72.5°	9645.7	798.5	112.4	93.0	83.3	67.8	95.0	116.3	100.8	69.8
12963.7	75°	6240.5	407.0	77.5	60.1	44.6	40.7	69.8	87.2	69.8	42.6
5752.2	77.5°	2387.7	170.5	42.6	27.1	23.3	19.4	38.8	52.3	29.1	9.7
1114.4	80°	459.3	71.7	21.3	13.6	11.6	7.8	5.8	3.9	0.0	0.0
197.7	82.5°	79.5	23.3	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
38.8	85°	27.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.6	87.5°	9.7	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°
3599.0
2184.2
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753.9
691.9
631.8
571.7
523.3
482.6
451.6
422.5
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