

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: P954986

Luminaire Tested: **GALN-SB8A-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954986
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-SB8A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA 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: 26706 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

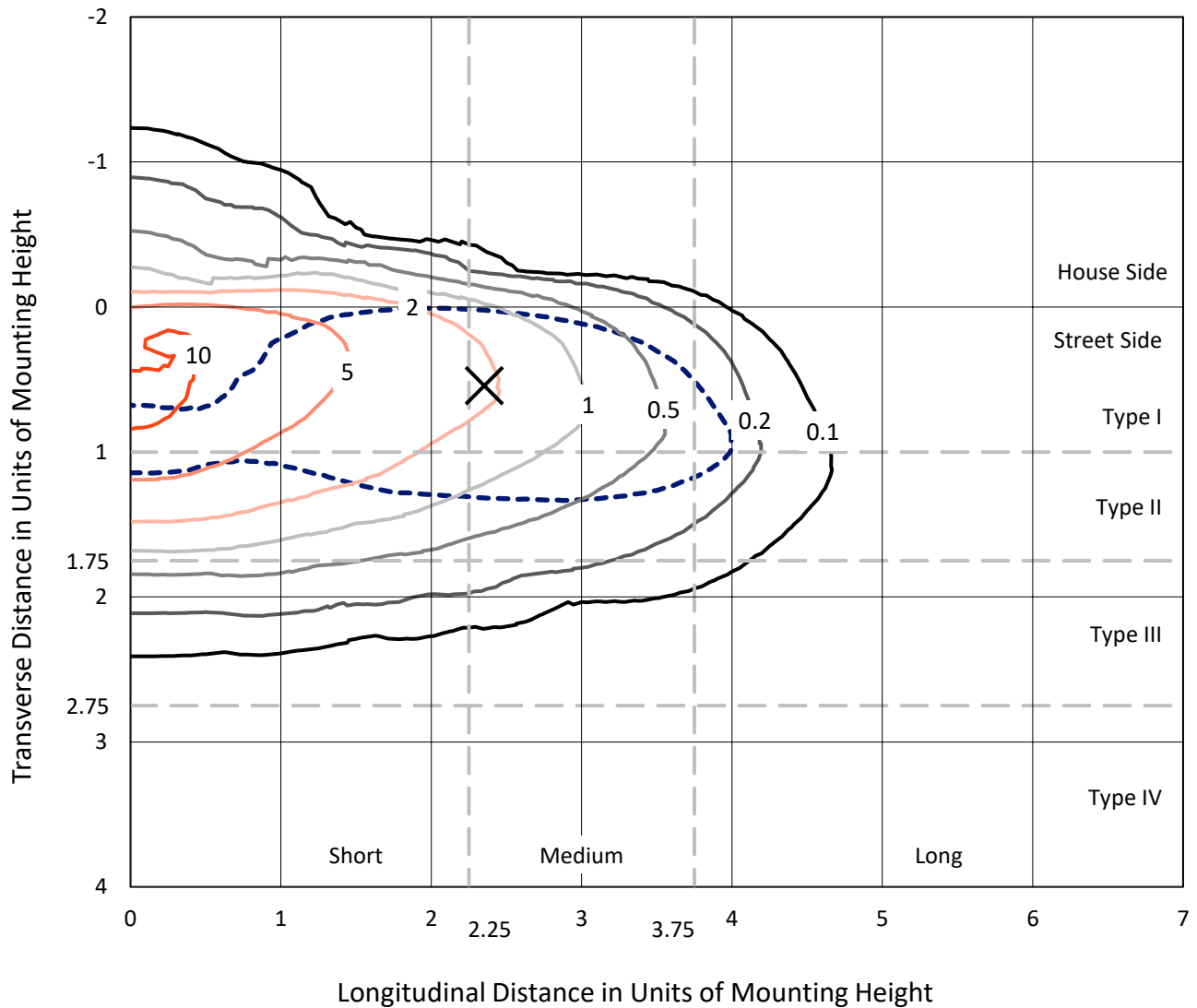
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

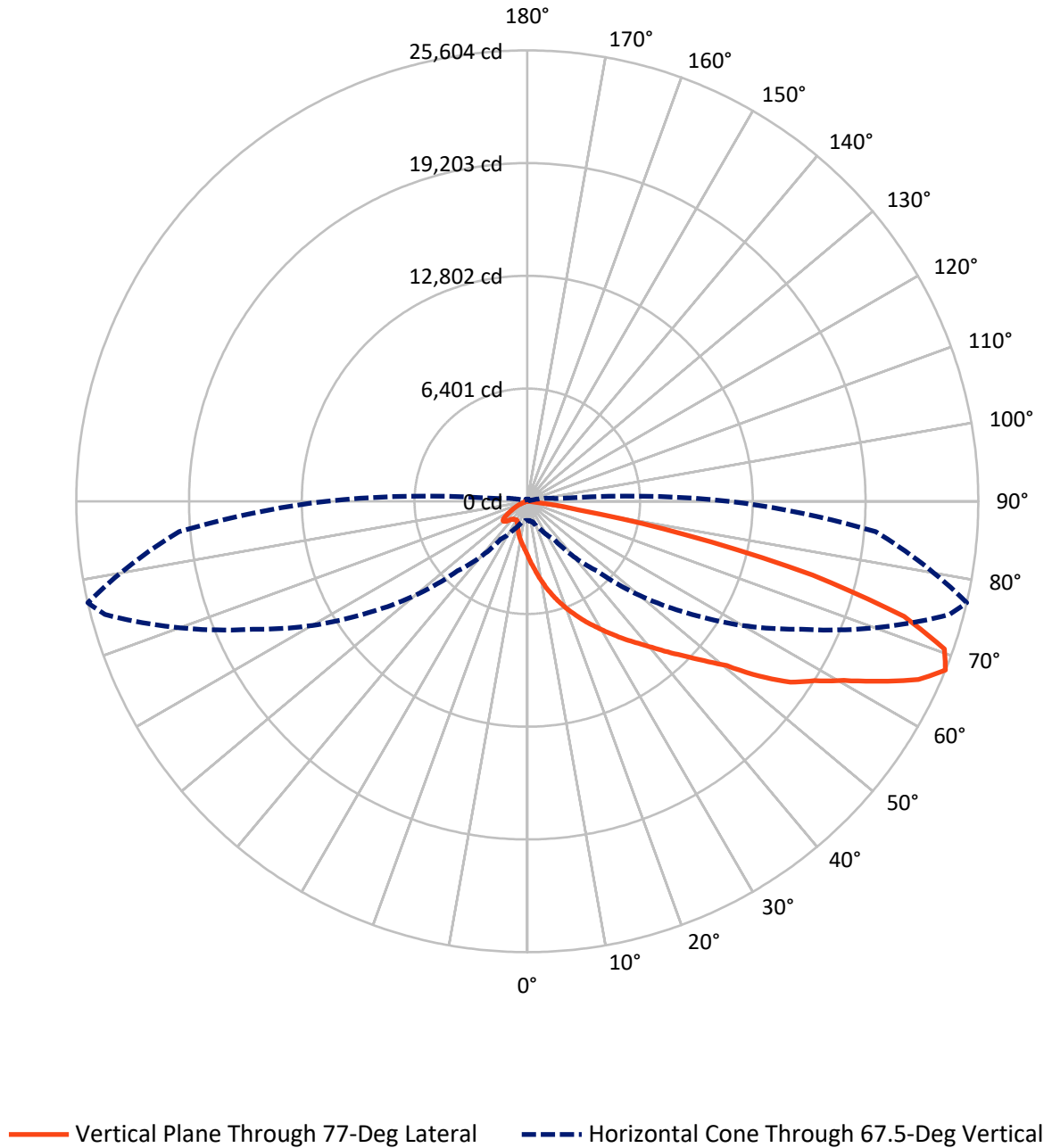
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	1964.8	0.0	1964.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	24741.2	0.0	24741.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	26706.0	0.0	26706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	1.2
10°-20°	1100.7	4.1
20°-30°	2124.1	8.0
30°-40°	3687.5	13.8
40°-50°	5354.1	20.0
50°-60°	6148.5	23.0
60°-70°	5338.1	20.0
70°-80°	2514.3	9.4
80°-90°	124.3	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°	26706.0	100.0
0°-180°	26706.0	100.0

Coefficient of Utilization



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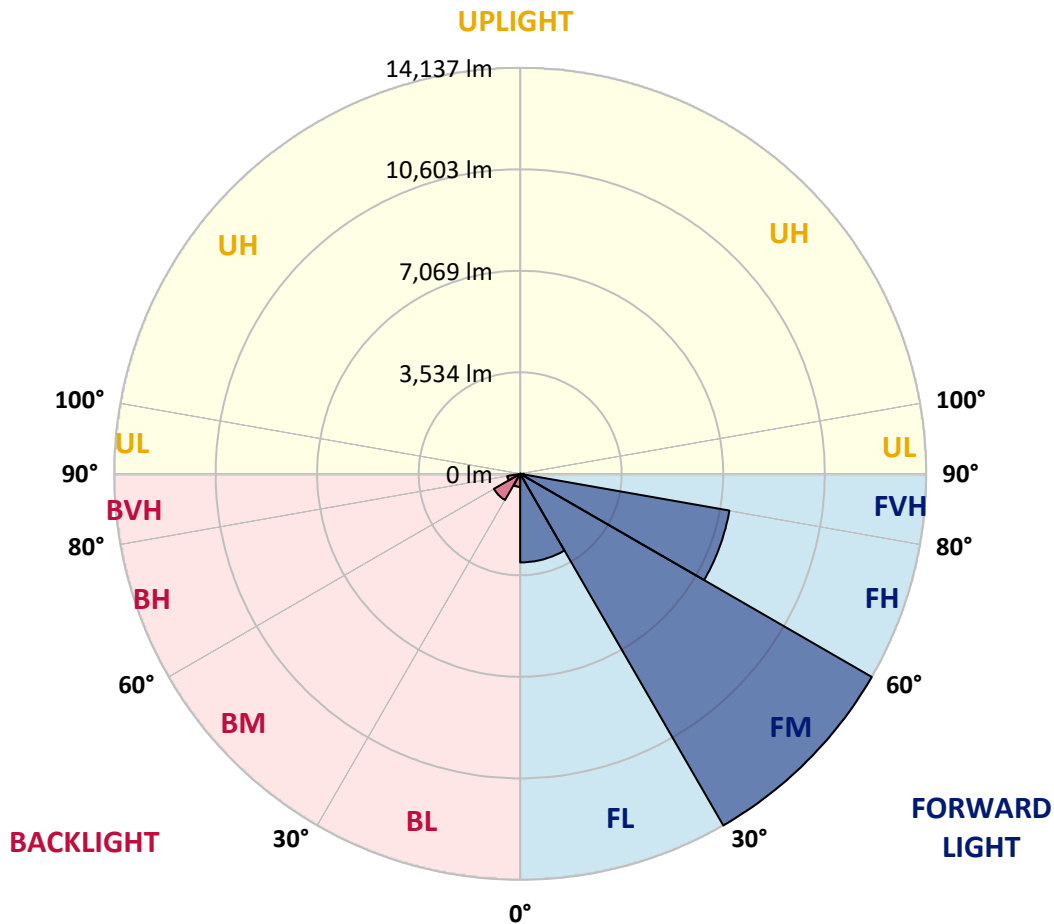
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3084.3	11.5			
FM (30°-60°)	14137.4	52.9			
FH (60°-80°)	7397.5	27.7			G3/7500
FVH (80°-90°)	122.1	0.5			G2/225
BL (0°-30°)	454.9	1.7	B1/500		
BM (30°-60°)	1052.7	3.9	B2/2500		
BH (60°-80°)	454.9	1.7	B1/500		G1/500
BVH (80°-90°)	2.3	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	4263.7	4290.2	4252.1	4179.1	4069.6	3998.3	3824.2	3660.0	3477.6	3419.6
5°	5197.3	5220.6	5177.4	5097.8	4951.9	4812.6	4583.7	4240.5	3883.9	3769.5
7.5°	5888.9	5902.1	5885.6	5812.6	5673.3	5515.7	5260.4	4854.1	4325.0	4199.0
10°	6386.4	6429.5	6424.5	6396.3	6303.5	6175.8	5903.8	5441.1	4819.2	4656.7
12.5°	6716.4	6764.5	6792.7	6855.7	6850.7	6769.5	6530.7	6041.4	5311.8	5121.0
15°	6812.6	6864.0	6971.8	7117.7	7247.1	7288.5	7121.0	6630.2	5854.0	5610.3
17.5°	6757.9	6837.5	6966.8	7197.3	7480.9	7668.3	7650.1	7199.0	6346.6	6068.0
20°	6878.9	6955.2	7056.4	7250.4	7580.4	7920.4	8056.4	7742.9	6835.8	6543.9
22.5°	7548.9	7535.6	7545.6	7577.1	7774.4	8111.1	8391.4	8237.1	7320.0	7021.5
25°	8610.3	8550.6	8449.4	8278.6	8228.8	8391.4	8683.2	8674.9	7830.8	7510.8
27.5°	9827.5	9817.6	9580.4	9169.1	8937.0	8873.9	9013.2	9101.1	8336.6	7995.0
30°	10993.3	11019.9	10699.8	10242.1	9815.9	9568.8	9442.8	9505.8	8850.7	8517.4
32.5°	12008.3	12036.5	11688.2	11152.5	10625.2	10326.7	10061.3	9905.4	9411.3	9048.1
35°	12865.6	12893.8	12494.2	11902.1	11339.9	11069.6	10769.5	10343.3	9975.1	9636.8
37.5°	13631.8	13623.5	13087.9	12490.8	11938.6	11724.7	11567.1	10882.2	10555.5	10228.8
40°	14084.5	14119.4	13661.7	13003.3	12467.6	12311.7	12301.8	11550.6	11225.5	10908.8
42.5°	14217.2	14278.6	13946.9	13406.3	12920.4	12751.2	13011.6	12273.6	12004.9	11696.5
45°	13978.4	14038.1	13887.2	13512.4	13228.8	13119.4	13621.9	13023.2	12837.4	12532.3
47.5°	13281.9	13356.5	13393.0	13313.4	13310.1	13421.2	14169.1	13812.6	13825.8	13514.1
50°	11933.6	12059.7	12394.7	12676.6	13112.7	13660.0	14701.5	14668.3	14940.3	14671.6
52.5°	9482.6	9661.7	10815.9	11587.0	12567.1	13615.2	15286.9	16041.4	16895.5	16502.4
55°	7620.2	7620.2	8558.9	10001.6	11502.5	13320.0	15542.3	16933.6	18227.2	18134.3
57.5°	6212.3	6286.9	6885.6	8160.8	9961.8	12616.9	15699.8	17494.2	19300.1	19232.1
60°	3834.2	3995.0	5126.0	6384.7	8208.9	11364.8	15600.3	18061.3	20601.9	20656.7
62.5°	2159.2	2218.9	2723.0	4593.7	6383.1	9681.6	14839.1	18378.1	22266.9	22499.1
65°	1490.9	1520.7	1714.8	2859.0	4424.5	7708.1	13351.5	18180.7	23935.3	24404.6
67.5°	1082.9	1097.8	1218.9	1746.3	2625.2	5588.7	11019.9	17185.7	24819.2	25603.6
70°	832.5	842.5	930.3	1147.6	1550.6	3449.4	8003.3	15207.3	24179.0	25116.0
72.5°	676.6	686.6	754.6	849.1	1028.2	2039.8	4850.7	12349.9	21353.2	22364.8
75°	570.5	583.7	645.1	706.5	806.0	1310.1	2275.3	8600.3	16058.0	16721.4
77.5°	316.7	291.9	524.0	585.4	679.9	829.2	1064.7	5061.3	8993.3	9177.4
80°	197.3	204.0	416.3	471.0	522.4	417.9	487.6	1948.6	3117.7	2961.9
82.5°	11.6	26.5	320.1	340.0	358.2	179.1	184.1	661.7	751.2	689.9
85°	0.0	0.0	145.9	117.7	124.4	51.4	53.1	154.2	101.2	109.5
87.5°	0.0	0.0	0.0	3.3	0.0	5.0	10.0	13.3	5.0	6.6
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°
3079.6	0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
3237.1	2.5°	3121.1	3005.0	2769.5	2539.0	2351.6	2177.4	2053.1	1935.3	1875.6	1872.3
3446.1	5°	3215.6	2971.8	2500.8	2084.6	1749.6	1480.9	1306.8	1182.4	1119.4	1097.8
3703.1	7.5°	3348.3	2981.8	2265.3	1686.6	1291.9	1061.4	961.9	922.1	908.8	893.9
3993.4	10°	3515.7	3005.0	2054.7	1358.2	1018.2	902.2	862.4	845.8	835.8	825.9
4320.1	12.5°	3703.1	3026.5	1845.8	1127.7	895.5	835.8	807.6	787.7	774.5	762.9
4655.0	15°	3885.6	3039.8	1628.5	966.8	832.5	784.4	754.6	733.0	714.8	701.5
4983.4	17.5°	4066.3	3058.0	1424.5	870.6	781.1	733.0	703.1	676.6	661.7	646.8
5328.3	20°	4267.0	3054.7	1232.2	802.7	729.7	681.6	650.1	625.2	610.3	593.7
5693.2	22.5°	4452.7	3038.1	1063.0	744.6	676.6	630.2	595.4	570.5	555.6	542.3
6066.3	25°	4666.7	3024.9	922.1	691.5	626.9	580.4	542.3	519.1	502.5	490.9
6441.1	27.5°	4872.3	3005.0	819.2	643.4	578.8	534.0	497.5	471.0	456.1	447.8
6827.5	30°	5074.6	3000.0	781.1	597.0	535.7	490.9	454.4	429.5	417.9	414.6
7252.1	32.5°	5318.4	3013.3	797.7	580.4	495.9	451.1	416.3	398.0	386.4	386.4
7724.7	35°	5578.8	3009.9	822.6	595.4	469.3	411.3	384.7	373.1	361.5	361.5
8248.7	37.5°	5905.5	3014.9	842.5	620.2	459.4	378.1	363.2	348.3	341.6	341.6
8822.5	40°	6393.0	3179.1	832.5	641.8	456.1	354.9	325.0	320.1	315.1	315.1
9471.0	42.5°	6990.0	3535.6	845.8	643.4	454.4	338.3	298.5	308.5	296.8	295.2
10202.3	45°	7643.4	3925.4	930.3	608.6	452.7	330.0	285.2	296.8	278.6	278.6
11049.7	47.5°	8291.9	4311.8	1016.6	558.9	447.8	328.4	273.6	267.0	262.0	263.7
12154.2	50°	9185.7	4626.9	1049.7	490.9	436.2	325.0	252.1	253.7	250.4	253.7
13711.4	52.5°	10159.2	4693.2	1009.9	414.6	403.0	315.1	237.1	243.8	242.1	245.4
14807.6	55°	10766.1	4621.9	834.2	344.9	351.6	275.3	222.2	235.5	235.5	235.5
15878.9	57.5°	11393.0	4318.4	592.0	280.3	291.9	225.5	209.0	227.2	225.5	223.9
17169.1	60°	11844.1	3827.5	389.7	230.5	232.2	185.7	194.0	213.9	212.3	204.0
18499.1	62.5°	12180.7	3285.2	250.4	195.7	177.4	167.5	177.4	194.0	187.4	169.2
19626.8	65°	12142.6	2534.0	192.4	167.5	145.9	145.9	154.2	169.2	149.3	119.4
19842.4	67.5°	11434.5	1714.8	159.2	141.0	122.7	121.1	127.7	141.0	127.7	101.2
18737.9	70°	10169.1	1121.1	127.7	109.5	97.8	89.6	102.8	121.1	107.8	81.3
15951.9	72.5°	8253.7	683.2	96.2	79.6	71.3	58.0	81.3	99.5	86.2	59.7
11092.8	75°	5340.0	348.3	66.3	51.4	38.1	34.8	59.7	74.6	59.7	36.5
4922.0	77.5°	2043.1	145.9	36.5	23.2	19.9	16.6	33.2	44.8	24.9	8.3
953.6	80°	393.0	61.4	18.2	11.6	10.0	6.6	5.0	3.3	0.0	0.0
169.2	82.5°	68.0	19.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
33.2	85°	23.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.6	87.5°	8.3	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°
3079.6
1869.0
1094.5
890.5
822.6
759.5
699.8
645.1
592.0
540.6
489.2
447.8
412.9
386.4
361.5
341.6
315.1
293.5
278.6
263.7
253.7
245.4
235.5
223.9
204.0
165.8
116.1
97.8
77.9
56.4
31.5
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