

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: P955007

Luminaire Tested: **GALN-SB8A-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955007
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-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 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: 27596 lumens
Efficiency: N/A
Efficacy: 121.5 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

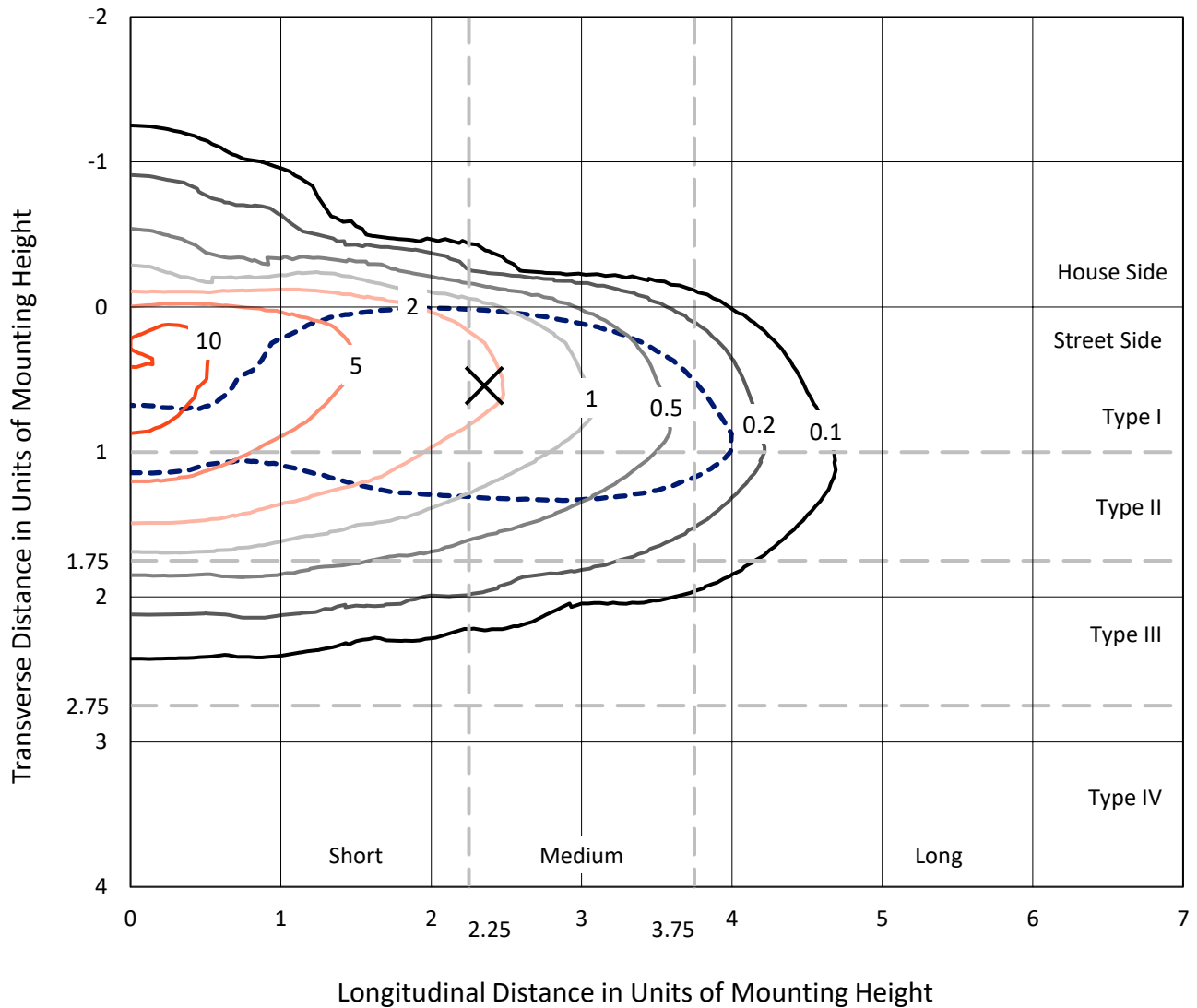
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

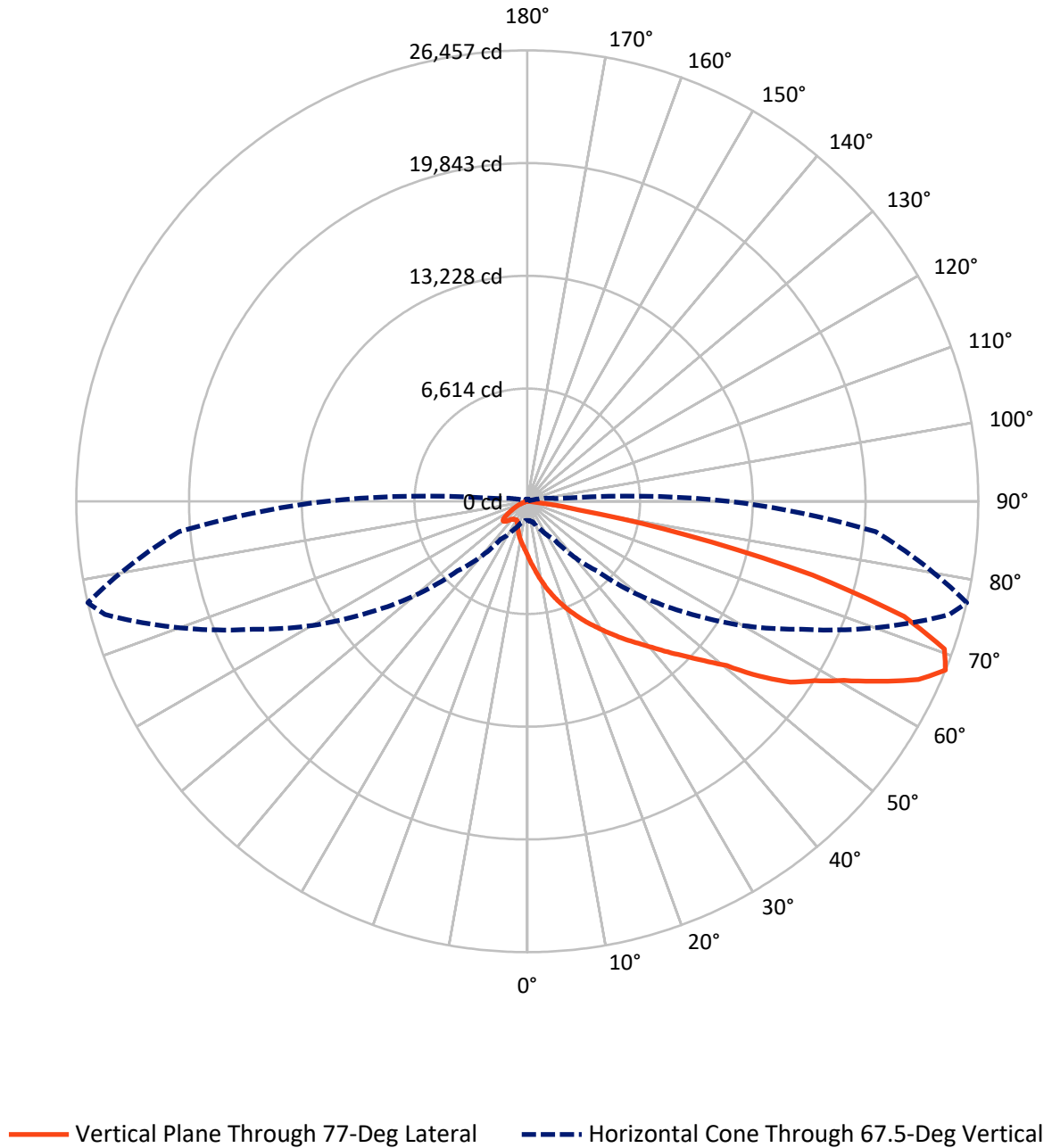
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	2030.3	0.0	2030.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	25565.7	0.0	25565.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	27596.0	0.0	27596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	1.2
10°-20°	1137.4	4.1
20°-30°	2194.9	8.0
30°-40°	3810.4	13.8
40°-50°	5532.5	20.0
50°-60°	6353.4	23.0
60°-70°	5516.0	20.0
70°-80°	2598.1	9.4
80°-90°	128.5	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°	27596.0	100.0
0°-180°	27596.0	100.0

Coefficient of Utilization



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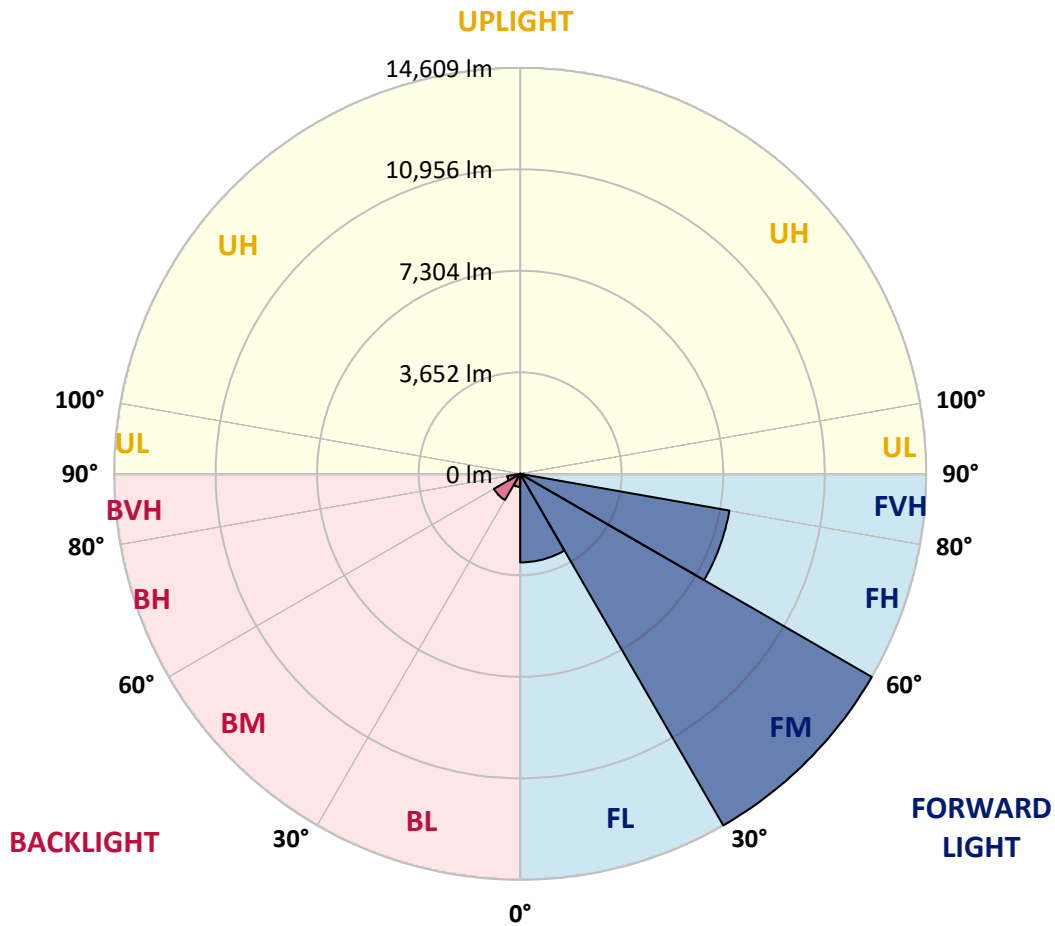
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3187.0	11.5			
FM (30°-60°)	14608.6	52.9			
FH (60°-80°)	7644.0	27.7			G4/12000
FVH (80°-90°)	126.1	0.5			G2/225
BL (0°-30°)	470.0	1.7	B1/500		
BM (30°-60°)	1087.8	3.9	B2/2500		
BH (60°-80°)	470.0	1.7	B1/500		G1/500
BVH (80°-90°)	2.4	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°	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2
2.5°	4405.8	4433.2	4393.8	4318.4	4205.3	4131.6	3951.6	3782.0	3593.5	3533.5
5°	5370.5	5394.5	5350.0	5267.7	5116.9	4973.0	4736.5	4381.8	4013.3	3895.1
7.5°	6085.1	6098.8	6081.7	6006.3	5862.4	5699.6	5435.7	5015.8	4469.2	4338.9
10°	6599.2	6643.8	6638.6	6609.5	6513.5	6381.6	6100.5	5622.4	4979.8	4811.9
12.5°	6940.2	6989.9	7019.1	7084.2	7079.0	6995.1	6748.3	6242.8	5488.8	5291.7
15°	7039.6	7092.7	7204.1	7354.9	7488.6	7531.4	7358.4	6851.1	6049.1	5797.2
17.5°	6983.1	7065.3	7199.0	7437.2	7730.2	7923.9	7905.0	7438.9	6558.1	6270.2
20°	7108.2	7187.0	7291.5	7492.0	7833.0	8184.3	8324.8	8001.0	7063.6	6762.0
22.5°	7800.5	7786.8	7797.0	7829.6	8033.5	8381.4	8671.0	8511.6	7564.0	7255.5
25°	8897.2	8835.5	8731.0	8554.5	8503.1	8671.0	8972.6	8964.0	8091.8	7761.1
27.5°	10155.0	10144.7	9899.7	9474.7	9234.8	9169.7	9313.6	9404.4	8614.5	8261.4
30°	11359.7	11387.1	11056.4	10583.4	10143.0	9887.7	9757.5	9822.6	9145.7	8801.2
32.5°	12408.4	12437.6	12077.7	11524.2	10979.3	10670.8	10396.6	10235.6	9724.9	9349.6
35°	13294.4	13323.5	12910.5	12298.8	11717.9	11438.5	11128.4	10688.0	10307.5	9957.9
37.5°	14086.1	14077.5	13524.0	12907.1	12336.5	12115.4	11952.6	11244.9	10907.3	10569.7
40°	14553.9	14589.9	14116.9	13436.6	12883.1	12722.0	12711.8	11935.5	11599.6	11272.3
42.5°	14691.0	14754.4	14411.7	13853.0	13350.9	13176.2	13445.2	12682.6	12405.0	12086.3
45°	14444.2	14505.9	14350.0	13962.7	13669.7	13556.6	14075.8	13457.2	13265.3	12950.0
47.5°	13724.5	13801.6	13839.3	13757.1	13753.7	13868.5	14641.3	14272.9	14286.6	13964.4
50°	12331.3	12461.6	12807.7	13099.0	13549.7	14115.2	15191.4	15157.1	15438.2	15160.5
52.5°	9798.6	9983.7	11176.3	11973.2	12985.9	14069.0	15796.3	16576.0	17458.5	17052.4
55°	7874.2	7874.2	8844.1	10334.9	11885.8	13763.9	16060.2	17498.0	18834.6	18738.6
57.5°	6419.3	6496.4	7115.0	8432.8	10293.8	13037.4	16223.0	18077.2	19943.3	19873.1
60°	3961.9	4128.2	5296.9	6597.5	8482.5	11743.6	16120.2	18663.2	21288.5	21345.1
62.5°	2231.2	2292.8	2813.8	4746.8	6595.8	10004.2	15333.6	18990.5	23009.0	23248.9
65°	1540.6	1571.4	1771.9	2954.3	4572.0	7965.0	13796.5	18786.6	24732.9	25217.9
67.5°	1119.0	1134.4	1259.5	1804.5	2712.7	5775.0	11387.1	17758.4	25646.3	26456.8
70°	860.2	870.5	961.4	1185.8	1602.3	3564.4	8270.0	15714.1	24984.8	25953.0
72.5°	699.2	709.4	779.7	877.4	1062.5	2107.8	5012.4	12761.5	22064.8	23110.1
75°	589.5	603.2	666.6	730.0	832.8	1353.8	2351.1	8886.9	16593.1	17278.6
77.5°	327.3	301.6	541.5	604.9	702.6	856.8	1100.2	5230.0	9293.1	9483.3
80°	203.9	210.8	430.1	486.7	539.8	431.8	503.8	2013.5	3221.6	3060.6
82.5°	12.0	27.4	330.7	351.3	370.1	185.1	190.2	683.7	776.3	712.9
85°	0.0	0.0	150.8	121.7	128.5	53.1	54.8	159.4	104.5	113.1
87.5°	0.0	0.0	0.0	3.4	0.0	5.1	10.3	13.7	5.1	6.9
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°
3182.2	0°	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2	3182.2
3345.0	2.5°	3225.1	3105.1	2861.8	2623.6	2429.9	2250.0	2121.5	1999.8	1938.1	1934.7
3560.9	5°	3322.7	3070.8	2584.2	2154.0	1807.9	1530.3	1350.3	1221.8	1156.7	1134.4
3826.6	7.5°	3459.8	3081.1	2340.8	1742.8	1334.9	1096.7	993.9	952.8	939.1	923.7
4126.4	10°	3632.9	3105.1	2123.2	1403.5	1052.2	932.2	891.1	874.0	863.7	853.4
4464.0	12.5°	3826.6	3127.4	1907.3	1165.3	925.4	863.7	834.5	814.0	800.3	788.3
4810.2	15°	4015.1	3141.1	1682.8	999.1	860.2	810.6	779.7	757.4	738.6	724.9
5149.5	17.5°	4201.8	3159.9	1472.0	899.7	807.1	757.4	726.6	699.2	683.7	668.3
5505.9	20°	4409.2	3156.5	1273.2	829.4	754.0	704.3	671.7	646.0	630.6	613.5
5882.9	22.5°	4601.1	3139.4	1098.4	769.4	699.2	651.2	615.2	589.5	574.1	560.4
6268.5	25°	4822.2	3125.7	952.8	714.6	647.8	599.8	560.4	536.4	519.2	507.2
6655.8	27.5°	5034.7	3105.1	846.5	664.9	598.1	551.8	514.1	486.7	471.3	462.7
7055.0	30°	5243.7	3100.0	807.1	616.9	553.5	507.2	469.5	443.8	431.8	428.4
7493.7	32.5°	5495.6	3113.7	824.3	599.8	512.4	466.1	430.1	411.3	399.3	399.3
7982.1	35°	5764.7	3110.3	850.0	615.2	485.0	425.0	397.6	385.6	373.6	373.6
8523.6	37.5°	6102.3	3115.4	870.5	640.9	474.7	390.7	375.3	359.9	353.0	353.0
9116.6	40°	6606.1	3285.0	860.2	663.2	471.3	366.7	335.9	330.7	325.6	325.6
9786.6	42.5°	7223.0	3653.5	874.0	664.9	469.5	349.6	308.5	318.7	306.7	305.0
10542.3	45°	7898.2	4056.2	961.4	628.9	467.8	341.0	294.7	306.7	287.9	287.9
11418.0	47.5°	8568.2	4455.5	1050.5	577.5	462.7	339.3	282.8	275.9	270.8	272.5
12559.2	50°	9491.8	4781.0	1084.7	507.2	450.7	335.9	260.5	262.2	258.8	262.2
14168.4	52.5°	10497.7	4849.6	1043.6	428.4	416.4	325.6	245.1	251.9	250.2	253.6
15301.1	55°	11124.9	4775.9	862.0	356.4	363.3	284.5	229.6	243.3	243.3	243.3
16408.1	57.5°	11772.7	4462.3	611.8	289.6	301.6	233.1	215.9	234.8	233.1	231.3
17741.3	60°	12238.8	3955.1	402.7	238.2	239.9	191.9	200.5	221.1	219.3	210.8
19115.6	62.5°	12586.7	3394.7	258.8	202.2	183.4	173.1	183.4	200.5	193.6	174.8
20280.9	65°	12547.3	2618.4	198.8	173.1	150.8	150.8	159.4	174.8	154.2	123.4
20503.7	67.5°	11815.5	1771.9	164.5	145.7	126.8	125.1	132.0	145.7	132.0	104.5
19362.4	70°	10508.0	1158.4	132.0	113.1	101.1	92.5	106.2	125.1	111.4	84.0
16483.5	72.5°	8528.8	706.0	99.4	82.3	73.7	60.0	84.0	102.8	89.1	61.7
11462.5	75°	5517.9	359.9	68.5	53.1	39.4	36.0	61.7	77.1	61.7	37.7
5086.1	77.5°	2111.2	150.8	37.7	24.0	20.6	17.1	34.3	46.3	25.7	8.6
985.3	80°	406.1	63.4	18.9	12.0	10.3	6.9	5.1	3.4	0.0	0.0
174.8	82.5°	70.3	20.6	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
34.3	85°	24.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.0	87.5°	8.6	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°
3182.2
1931.3
1131.0
920.2
850.0
784.8
723.2
666.6
611.8
558.6
505.5
462.7
426.7
399.3
373.6
353.0
325.6
303.3
287.9
272.5
262.2
253.6
243.3
231.3
210.8
171.4
120.0
101.1
80.5
58.3
32.6
6.9
0.0
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