

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: P955725

Luminaire Tested: **GALN-SB8C-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45302 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

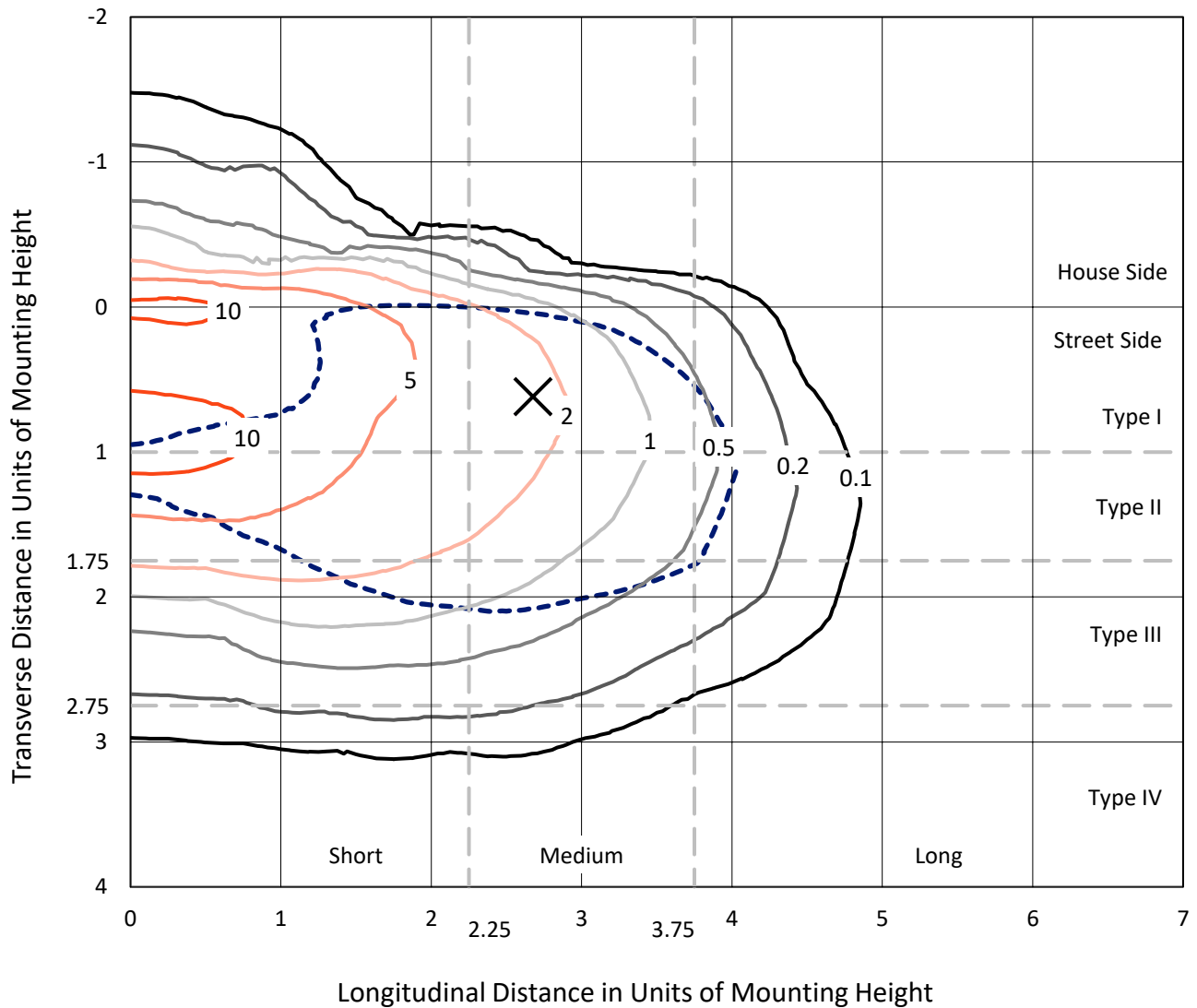
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955725
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Iso-Footcandle Lines of Horizontal Illumination

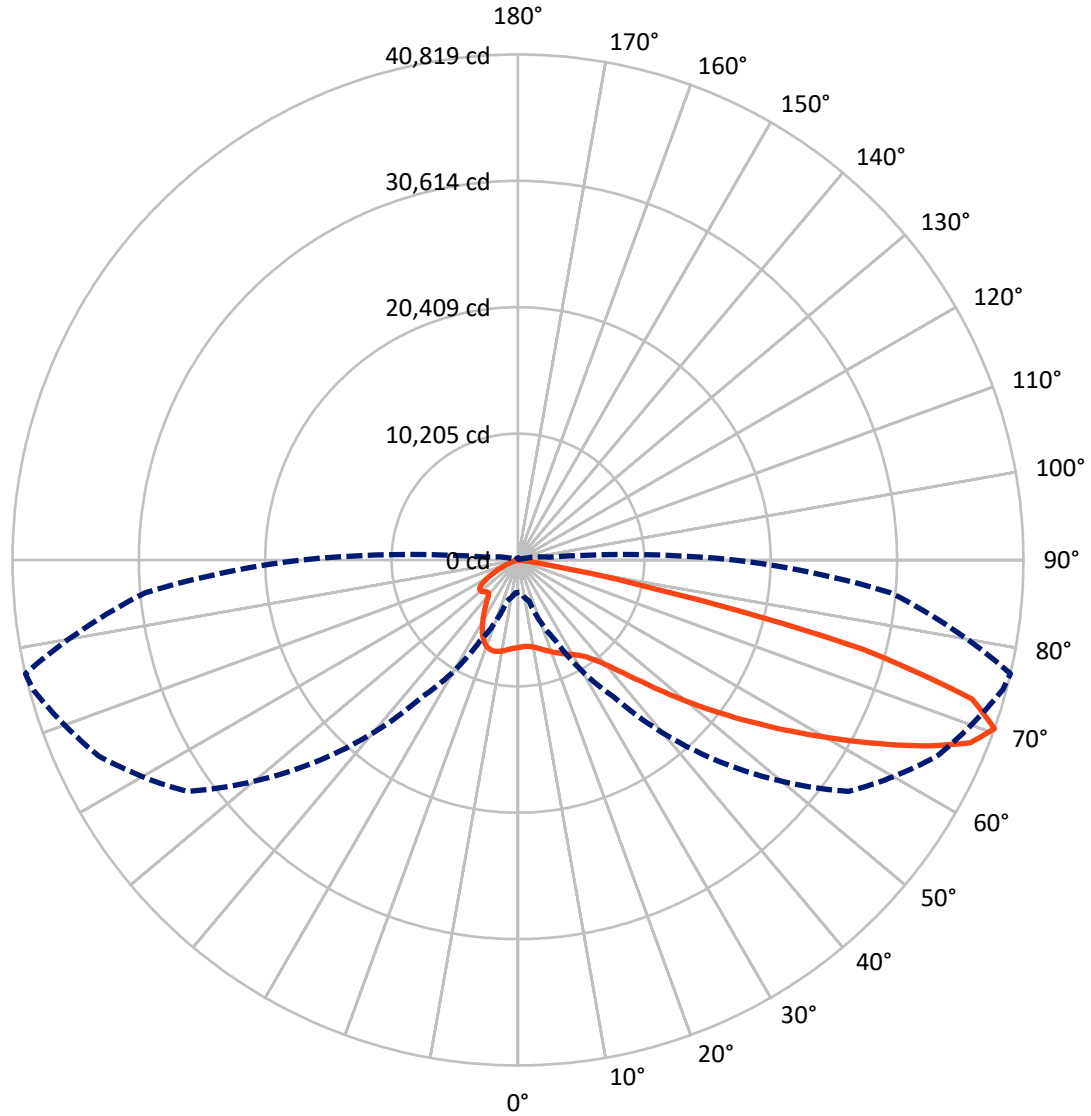
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P955725
CATALOG NUMBER: GALN-SB8C-830-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4775.5	0.0	4775.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	40526.5	0.0	40526.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	45302.0	0.0	45302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.0	1.3
10°-20°	1445.7	3.2
20°-30°	2236.1	4.9
30°-40°	4057.5	9.0
40°-50°	7659.1	16.9
50°-60°	11066.7	24.4
60°-70°	11780.2	26.0
70°-80°	6242.7	13.8
80°-90°	205.0	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°	45302.0	100.0
0°-180°	45302.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955725

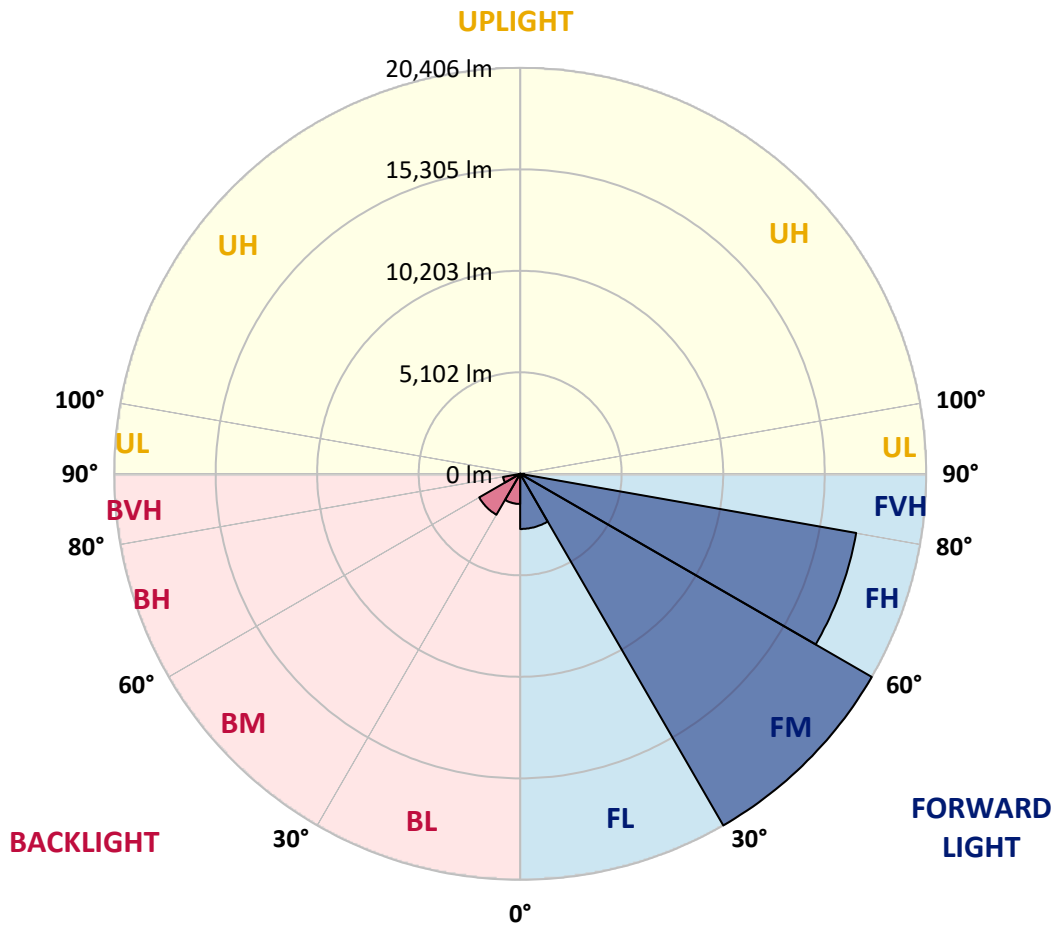
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2773.6	6.1			
FM (30°-60°)	20406.1	45.0			
FH (60°-80°)	17147.4	37.9			G5
FVH (80°-90°)	199.5	0.4			G2/225
BL (0°-30°)	1517.2	3.3	B3/2500		
BM (30°-60°)	2377.2	5.2	B2/2500		
BH (60°-80°)	875.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P955725
 CATALOG NUMBER: GALN-SB8C-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3
2.5°	6634.3	6694.4	6685.8	6725.9	6740.2	6797.4	6854.6	6931.8	7017.7	7014.8
5°	6259.5	6319.6	6333.9	6388.3	6456.9	6545.6	6662.9	6817.4	6977.6	7003.4
7.5°	5816.1	5879.0	5916.2	6024.9	6150.8	6333.9	6525.6	6751.6	7017.7	7054.9
10°	5372.7	5429.9	5478.5	5633.0	5833.3	6105.0	6416.9	6743.0	7100.6	7155.0
12.5°	5098.0	5152.4	5206.7	5341.2	5590.1	5922.0	6345.4	6783.1	7237.9	7315.2
15°	5000.8	5049.4	5092.3	5212.5	5444.2	5821.8	6331.1	6866.0	7412.5	7515.4
17.5°	5015.1	5040.8	5069.4	5161.0	5387.0	5776.1	6356.8	7009.1	7618.4	7710.0
20°	5098.0	5112.3	5115.2	5178.1	5378.4	5770.3	6408.3	7146.4	7813.0	7936.0
22.5°	5203.9	5209.6	5203.9	5246.8	5432.7	5813.2	6477.0	7312.3	8030.4	8144.8
25°	5698.8	5590.1	5452.8	5369.8	5524.3	5896.2	6579.9	7535.5	8267.8	8379.4
27.5°	7235.1	6923.3	6431.2	5879.0	5713.1	6016.4	6723.0	7761.5	8508.2	8608.3
30°	9729.7	9320.6	8485.3	7240.8	6319.6	6268.1	6908.9	7987.5	8762.8	8871.5
32.5°	12230.1	12130.0	11165.9	9443.7	7684.2	6828.8	7217.9	8293.6	9100.4	9186.2
35°	14759.1	14556.0	13766.4	12064.2	9787.0	7970.3	7732.9	8694.1	9543.8	9641.1
37.5°	16695.9	16572.9	16083.7	14681.9	12281.6	9732.6	8614.0	9314.9	10187.5	10296.2
40°	18406.7	18349.5	18183.5	17259.5	15070.9	12038.4	9984.4	10276.2	11080.1	11208.8
42.5°	19751.3	19885.8	19980.2	19722.7	17946.1	14670.4	11826.7	11626.5	12324.5	12456.1
45°	21127.4	21173.1	21553.6	21925.5	20801.2	17422.6	13903.7	13208.5	13872.3	14035.3
47.5°	22011.4	22194.5	22863.9	23519.0	23201.5	20151.8	16135.2	15076.7	15666.0	15972.1
50°	22077.2	22423.3	23344.5	24486.0	24949.5	22749.5	18561.2	17205.1	17831.7	18169.2
52.5°	20981.5	21519.3	22946.9	24617.6	25893.5	24949.5	21070.1	19333.6	20137.5	20578.1
55°	16086.5	16790.3	21450.6	23902.4	25930.7	26617.3	23513.3	21550.8	22706.5	23204.3
57.5°	14015.3	14370.0	16864.7	22660.8	25241.3	27289.6	25721.9	23662.1	25501.6	26119.5
60°	11660.8	12127.1	14144.0	20629.6	24305.8	27355.4	27673.0	26385.6	28531.2	29226.4
62.5°	7924.5	8430.9	10436.4	17139.3	23027.0	27324.0	29272.2	29189.2	31898.5	32645.1
65°	4909.2	5226.8	6548.5	13995.3	21238.9	27358.3	30945.8	32593.6	35451.6	36209.7
67.5°	3879.3	4025.2	4714.7	10745.3	18157.8	26585.9	32616.5	35794.9	38796.0	39396.7
70°	2606.2	2694.9	3430.2	7203.6	13508.9	23021.2	32585.1	37402.7	40518.2	40818.6
72.5°	1373.2	1441.9	2005.5	3335.7	8159.1	16364.0	27467.0	35480.2	38804.5	38352.5
75°	686.6	801.0	1350.3	1693.6	3484.5	9126.1	17056.4	27973.4	30542.4	28791.6
77.5°	520.7	629.4	1115.7	1115.7	1213.0	3072.6	7223.6	15256.9	14072.5	11718.0
80°	331.9	429.1	975.5	844.0	506.4	781.0	1882.4	4274.1	2989.6	2274.4
82.5°	194.5	280.4	812.5	557.9	283.2	288.9	532.1	909.7	775.3	603.6
85°	77.2	183.1	557.9	220.3	111.6	71.5	160.2	194.5	160.2	120.2
87.5°	0.0	42.9	97.3	0.0	8.6	5.7	11.4	14.3	14.3	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955725
 CATALOG NUMBER: GALN-SB8C-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7066.3	0°	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3	7066.3
7072.0	2.5°	7097.8	7103.5	7120.6	7123.5	7083.5	7032.0	7011.9	7003.4	6969.0	6966.2
7117.8	5°	7183.6	7209.3	7183.6	7109.2	6931.8	6682.9	6494.1	6339.6	6199.5	6156.5
7275.1	7.5°	7355.2	7381.0	7303.7	7011.9	6565.6	6070.7	5624.4	5309.7	5026.5	4920.7
7466.8	10°	7601.3	7635.6	7392.4	6803.1	6013.5	5218.2	4462.9	3930.8	3516.0	3347.2
7727.1	12.5°	7910.2	7924.5	7441.1	6485.5	5295.4	4159.7	3089.7	2520.4	2151.4	2014.0
8041.8	15°	8250.7	8230.7	7446.8	6053.6	4317.0	2941.0	2016.9	1656.4	1507.7	1461.9
8356.5	17.5°	8608.3	8525.3	7332.4	5429.9	3244.2	2011.2	1496.2	1410.4	1384.7	1373.2
8668.4	20°	8960.2	8774.2	7123.5	4614.5	2328.7	1501.9	1358.9	1333.2	1318.9	1313.1
8983.1	22.5°	9280.6	8963.0	6765.9	3667.6	1690.8	1327.4	1284.5	1261.6	1235.9	1224.4
9289.2	25°	9592.4	9071.7	6262.4	2783.6	1353.2	1241.6	1207.3	1164.4	1130.0	1115.7
9618.2	27.5°	9895.7	9140.4	5633.0	2059.8	1207.3	1161.5	1098.6	1038.5	1012.7	1007.0
9970.1	30°	10218.9	9163.3	4917.8	1536.3	1118.6	1061.4	969.8	901.2	886.9	889.7
10445.0	32.5°	10613.7	9197.6	4196.9	1258.8	1044.2	941.2	832.5	761.0	749.5	761.0
11137.3	35°	11085.8	9266.3	3501.7	1158.6	978.4	818.2	700.9	640.8	629.4	638.0
12024.1	37.5°	11726.6	9377.9	2852.3	1138.6	924.1	715.2	589.3	540.7	540.7	543.6
13111.3	40°	12579.1	9675.4	2271.5	1124.3	895.4	638.0	497.8	477.8	486.3	492.1
14495.9	42.5°	13617.6	10307.6	1879.6	1107.1	864.0	603.6	452.0	443.4	457.7	463.5
16155.2	45°	14782.0	11108.7	1742.3	1078.5	835.4	626.5	432.0	420.5	437.7	440.6
18014.8	47.5°	15986.4	11892.5	1725.1	1047.1	806.8	660.9	426.3	400.5	420.5	423.4
20000.2	50°	17205.1	12404.6	1742.3	998.4	761.0	660.9	429.1	380.5	397.7	406.2
22060.0	52.5°	18432.4	12639.2	1730.8	892.6	680.9	620.8	429.1	363.3	380.5	386.2
24285.7	55°	19622.6	12593.5	1556.3	735.2	577.9	549.3	417.7	349.0	360.5	363.3
26388.5	57.5°	20563.8	11955.5	1233.0	572.2	469.2	457.7	380.5	331.9	340.4	337.6
28316.7	60°	21055.8	10553.7	881.1	440.6	369.0	360.5	334.7	309.0	314.7	300.4
29950.2	62.5°	21061.6	8699.8	589.3	349.0	294.7	286.1	286.1	277.5	271.8	243.2
31214.7	65°	20612.4	6642.9	391.9	277.5	237.5	223.1	240.3	237.5	217.4	177.4
31600.9	67.5°	19593.9	4354.2	297.5	217.4	183.1	174.5	191.7	200.3	186.0	148.8
30193.4	70°	17499.8	2534.7	246.0	168.8	137.3	128.7	154.5	171.7	154.5	120.2
25807.7	72.5°	14536.0	1367.5	200.3	125.9	94.4	85.8	123.0	140.2	123.0	88.7
16558.6	75°	9432.2	732.4	154.5	83.0	48.6	54.4	91.5	103.0	85.8	57.2
4860.6	77.5°	3167.0	323.3	97.3	40.1	22.9	22.9	54.4	62.9	40.1	20.0
884.0	80°	706.6	134.5	40.1	17.2	8.6	8.6	11.4	11.4	5.7	0.0
271.8	82.5°	231.7	54.4	17.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0
68.7	85°	88.7	20.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.9	87.5°	34.3	2.9	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°
7066.3
6971.9
6130.8
4877.7
3275.7
1971.1
1461.9
1370.3
1307.4
1221.6
1110.0
1001.3
889.7
758.1
635.1
540.7
492.1
463.5
443.4
426.3
409.1
386.2
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