

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: P951437

Luminaire Tested: **GALN-SB5C-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951437
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-SB5C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 28781 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

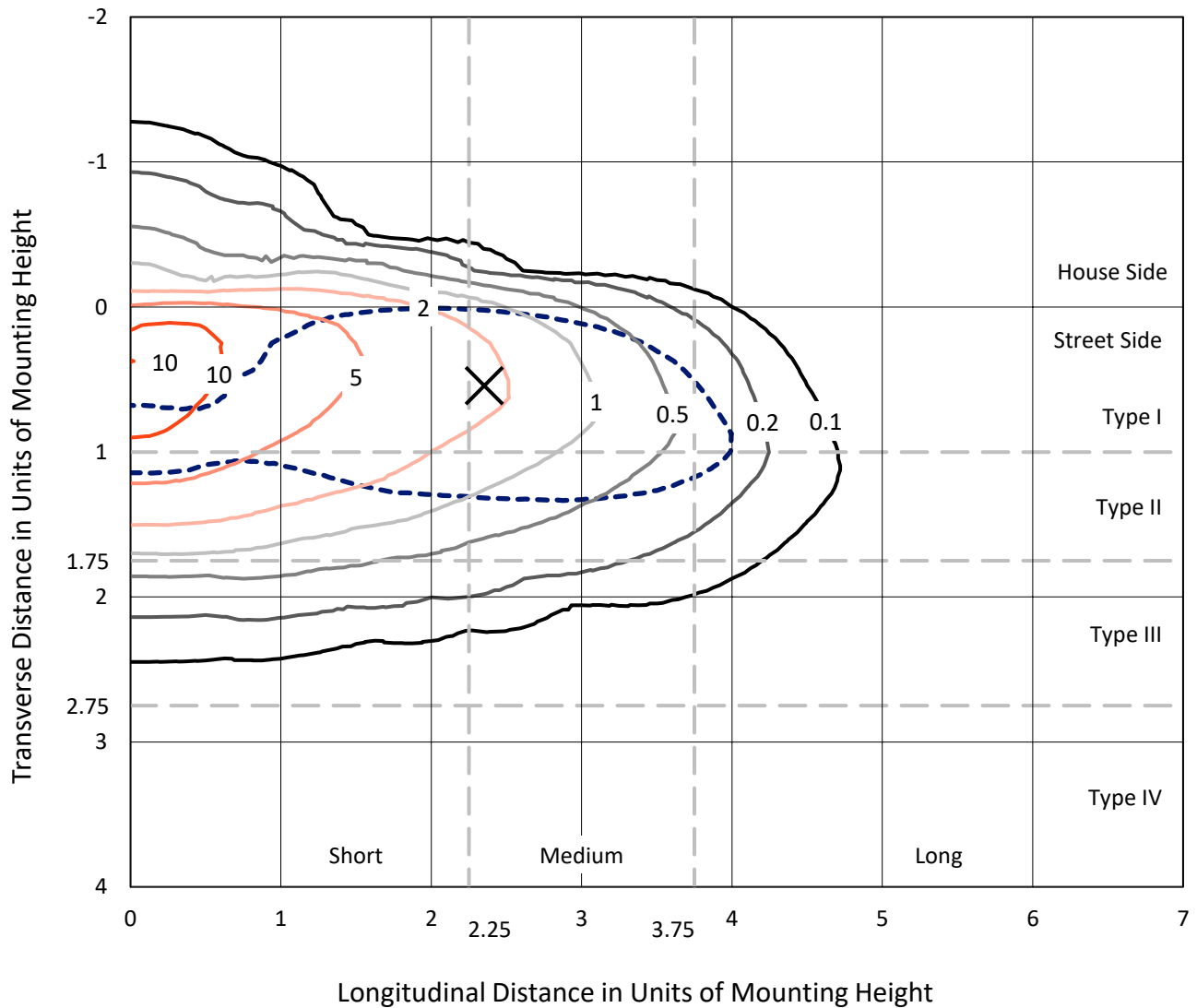
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951437
 CATALOG NUMBER: GALN-SB5C-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

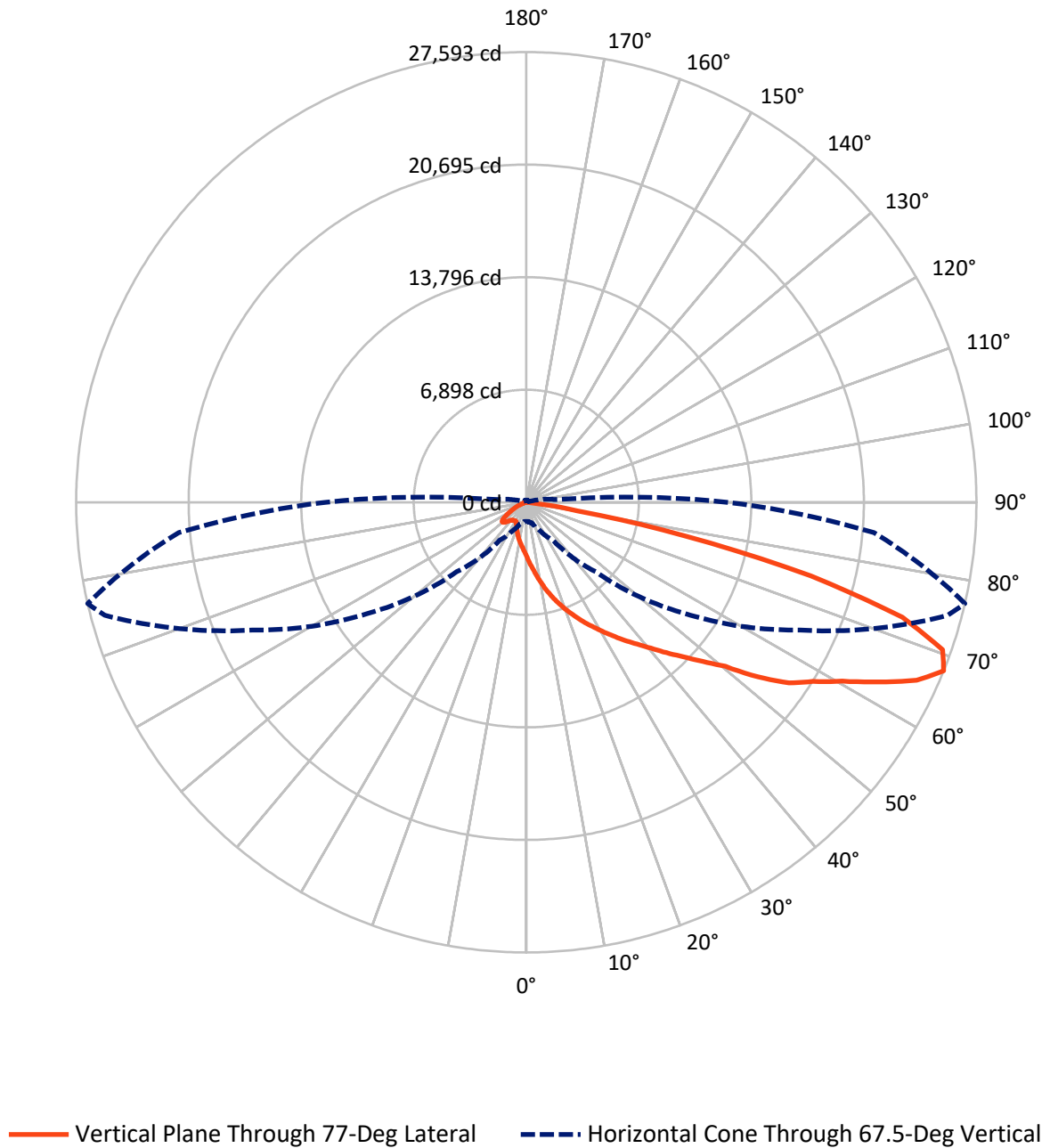
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P951437
CATALOG NUMBER: GALN-SB5C-830-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2117.4	0.0	2117.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	26663.6	0.0	26663.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	28781.0	0.0	28781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	1.2
10°-20°	1186.2	4.1
20°-30°	2289.1	8.0
30°-40°	3974.1	13.8
40°-50°	5770.1	20.0
50°-60°	6626.3	23.0
60°-70°	5752.8	20.0
70°-80°	2709.6	9.4
80°-90°	134.0	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°	28781.0	100.0
0°-180°	28781.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951437

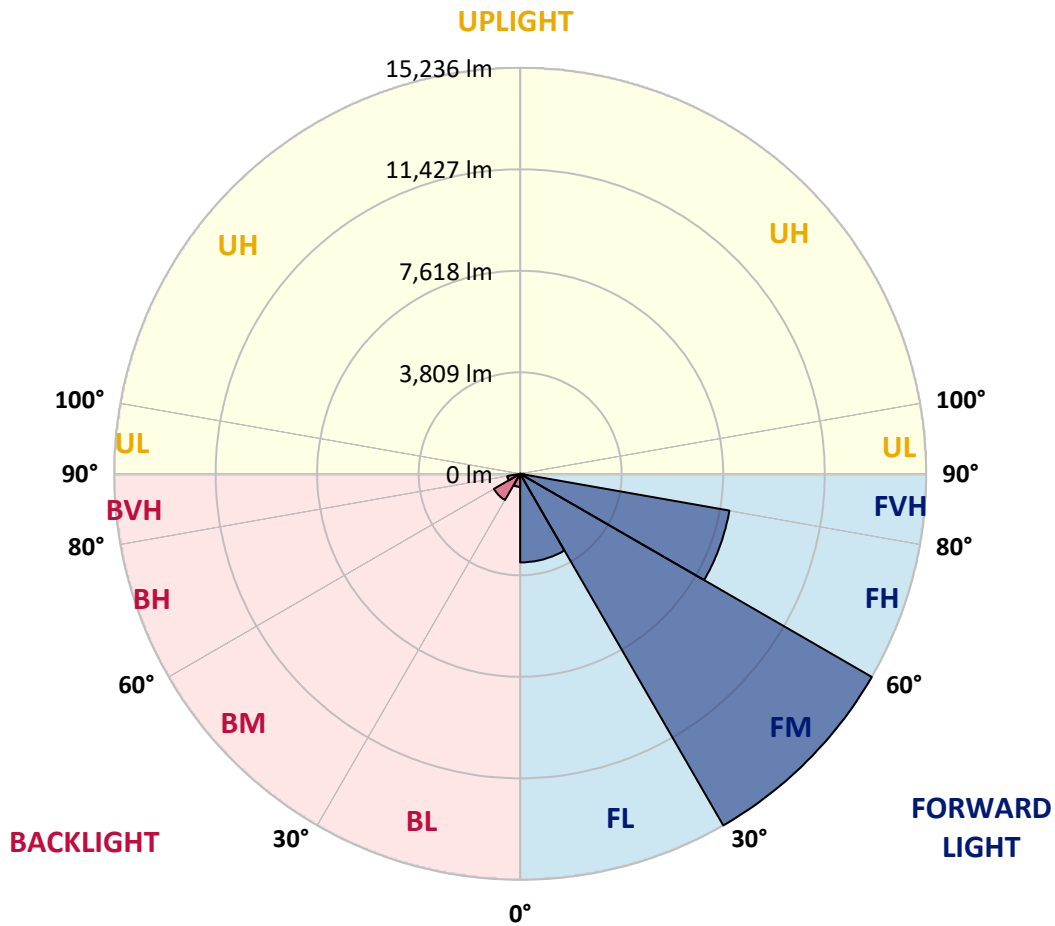
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3323.9	11.5			
FM (30°-60°)	15235.9	52.9			
FH (60°-80°)	7972.3	27.7			G4/12000
FVH (80°-90°)	131.5	0.5			G2/225
BL (0°-30°)	490.2	1.7	B1/500		
BM (30°-60°)	1134.5	3.9	B2/2500		
BH (60°-80°)	490.2	1.7	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



REPORT NUMBER: P951437
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9
2.5°	4594.9	4623.5	4582.4	4503.8	4385.8	4309.0	4121.3	3944.4	3747.8	3685.3
5°	5601.2	5626.2	5579.7	5493.9	5336.6	5186.5	4939.9	4569.9	4185.7	4062.4
7.5°	6346.4	6360.7	6342.9	6264.2	6114.1	5944.3	5669.1	5231.2	4661.1	4525.2
10°	6882.6	6929.1	6923.7	6893.3	6793.2	6655.6	6362.5	5863.9	5193.7	5018.5
12.5°	7238.3	7290.1	7320.5	7388.4	7383.0	7295.4	7038.1	6510.9	5724.5	5518.9
15°	7341.9	7397.3	7513.5	7670.8	7810.2	7854.8	7674.3	7145.3	6308.9	6046.2
17.5°	7282.9	7368.7	7508.1	7756.5	8062.2	8264.1	8244.5	7758.3	6839.7	6539.4
20°	7413.4	7495.6	7604.6	7813.7	8169.4	8535.8	8682.3	8344.5	7366.9	7052.4
22.5°	8135.4	8121.1	8131.9	8165.8	8378.5	8741.3	9043.3	8877.1	7888.8	7567.1
25°	9279.3	9214.9	9105.9	8921.8	8868.2	9043.3	9357.9	9349.0	8439.3	8094.3
27.5°	10591.1	10580.4	10324.8	9881.6	9631.3	9563.4	9713.6	9808.3	8984.4	8616.2
30°	11847.5	11876.1	11531.2	11037.9	10578.6	10312.3	10176.4	10244.4	9538.4	9179.2
32.5°	12941.3	12971.7	12596.3	12019.1	11450.7	11129.0	10843.1	10675.1	10142.5	9751.1
35°	13865.3	13895.7	13464.9	12826.9	12221.0	11929.7	11606.2	11146.9	10750.1	10385.6
37.5°	14691.0	14682.0	14104.8	13461.4	12866.2	12635.7	12465.9	11727.8	11375.7	11023.6
40°	15178.9	15216.4	14723.1	14013.6	13436.3	13268.3	13257.6	12448.0	12097.7	11756.4
42.5°	15321.9	15388.0	15030.5	14447.9	13924.3	13742.0	14022.5	13227.2	12937.7	12605.3
45°	15064.5	15128.8	14966.2	14562.3	14256.7	14138.7	14680.2	14035.1	13834.9	13506.0
47.5°	14313.9	14394.3	14433.6	14347.8	14344.2	14464.0	15270.0	14885.8	14900.1	14564.1
50°	12860.9	12996.7	13357.7	13661.5	14131.6	14721.4	15843.7	15808.0	16101.1	15811.6
52.5°	10219.3	10412.4	11656.3	12487.3	13543.6	14673.1	16474.6	17287.8	18208.2	17784.7
55°	8212.3	8212.3	9223.9	10778.7	12396.2	14355.0	16749.9	18249.3	19643.4	19543.3
57.5°	6694.9	6775.4	7420.5	8794.9	10735.8	13597.2	16919.6	18853.4	20799.7	20726.4
60°	4132.1	4305.4	5524.3	6880.8	8846.8	12247.8	16812.4	19464.6	22202.7	22261.6
62.5°	2327.0	2391.3	2934.6	4950.6	6879.0	10433.8	15992.1	19806.0	23997.0	24247.2
65°	1606.7	1638.9	1848.0	3081.2	4768.3	8307.0	14388.9	19593.3	25795.0	26300.8
67.5°	1167.1	1183.1	1313.6	1881.9	2829.2	6022.9	11876.1	18521.0	26747.6	27592.9
70°	897.2	907.9	1002.6	1236.8	1671.1	3717.4	8625.1	16388.8	26057.7	27067.5
72.5°	729.2	739.9	813.2	915.1	1108.1	2198.3	5227.6	13309.4	23012.3	24102.5
75°	614.8	629.1	695.2	761.4	868.6	1411.9	2452.1	9268.5	17305.7	18020.6
77.5°	341.4	314.6	564.8	630.9	732.8	893.6	1147.4	5454.6	9692.1	9890.5
80°	212.7	219.8	448.6	507.6	563.0	450.4	525.4	2100.0	3360.0	3192.0
82.5°	12.5	28.6	344.9	366.4	386.0	193.0	198.4	713.1	809.6	743.5
85°	0.0	0.0	157.3	126.9	134.0	55.4	57.2	166.2	109.0	118.0
87.5°	0.0	0.0	0.0	3.6	0.0	5.4	10.7	14.3	5.4	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951437
 CATALOG NUMBER: GALN-SB5C-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3318.9	0°	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9	3318.9
3488.7	2.5°	3363.6	3238.4	2984.7	2736.2	2534.3	2346.6	2212.6	2085.7	2021.3	2017.8
3713.8	5°	3465.4	3202.7	2695.1	2246.5	1885.5	1596.0	1408.3	1274.3	1206.4	1183.1
3990.9	7.5°	3608.4	3213.4	2441.3	1817.6	1392.2	1143.8	1036.6	993.7	979.4	963.3
4303.6	10°	3788.9	3238.4	2214.4	1463.7	1097.4	972.2	929.4	911.5	900.8	890.0
4655.7	12.5°	3990.9	3261.7	1989.2	1215.3	965.1	900.8	870.4	848.9	834.6	822.1
5016.7	15°	4187.5	3276.0	1755.1	1042.0	897.2	845.4	813.2	790.0	770.3	756.0
5370.6	17.5°	4382.3	3295.6	1535.2	938.3	841.8	790.0	757.8	729.2	713.1	697.0
5742.3	20°	4598.5	3292.1	1327.9	865.0	786.4	734.5	700.6	673.8	657.7	639.8
6135.5	22.5°	4798.7	3274.2	1145.6	802.5	729.2	679.1	641.6	614.8	598.7	584.4
6537.7	25°	5029.2	3259.9	993.7	745.3	675.6	625.5	584.4	559.4	541.5	529.0
6941.6	27.5°	5250.9	3238.4	882.9	693.4	623.7	575.5	536.2	507.6	491.5	482.6
7358.0	30°	5468.9	3233.1	841.8	643.4	577.3	529.0	489.7	462.9	450.4	446.8
7815.5	32.5°	5731.6	3247.4	859.7	625.5	534.4	486.1	448.6	428.9	416.4	416.4
8324.9	35°	6012.2	3243.8	886.5	641.6	505.8	443.2	414.6	402.1	389.6	389.6
8889.6	37.5°	6364.3	3249.2	907.9	668.4	495.1	407.5	391.4	375.3	368.2	368.2
9508.0	40°	6889.7	3426.1	897.2	691.7	491.5	382.5	350.3	344.9	339.6	339.6
10206.8	42.5°	7533.1	3810.4	911.5	693.4	489.7	364.6	321.7	332.4	319.9	318.1
10995.0	45°	8237.3	4230.4	1002.6	655.9	487.9	355.7	307.4	319.9	300.3	300.3
11908.3	47.5°	8936.1	4646.8	1095.6	602.3	482.6	353.9	294.9	287.7	282.4	284.2
13098.6	50°	9899.4	4986.4	1131.3	529.0	470.0	350.3	271.7	273.4	269.9	273.4
14776.8	52.5°	10948.5	5057.8	1088.4	446.8	434.3	339.6	255.6	262.7	260.9	264.5
15958.1	55°	11602.6	4981.0	899.0	371.7	378.9	296.7	239.5	253.8	253.8	253.8
17112.7	57.5°	12278.2	4653.9	638.0	302.0	314.6	243.1	225.2	244.8	243.1	241.3
18503.1	60°	12764.3	4124.9	420.0	248.4	250.2	200.2	209.1	230.6	228.8	219.8
19936.5	62.5°	13127.1	3540.5	269.9	210.9	191.2	180.5	191.2	209.1	202.0	182.3
21151.8	65°	13086.0	2730.9	207.3	180.5	157.3	157.3	166.2	182.3	160.9	128.7
21384.1	67.5°	12322.9	1848.0	171.6	151.9	132.3	130.5	137.6	151.9	137.6	109.0
20193.8	70°	10959.2	1208.2	137.6	118.0	105.4	96.5	110.8	130.5	116.2	87.6
17191.3	72.5°	8895.0	736.3	103.7	85.8	76.9	62.6	87.6	107.2	92.9	64.3
11954.7	75°	5754.9	375.3	71.5	55.4	41.1	37.5	64.3	80.4	64.3	39.3
5304.5	77.5°	2201.9	157.3	39.3	25.0	21.4	17.9	35.7	48.3	26.8	8.9
1027.7	80°	423.6	66.1	19.7	12.5	10.7	7.1	5.4	3.6	0.0	0.0
182.3	82.5°	73.3	21.4	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
35.7	85°	25.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	8.9	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°
3318.9
2014.2
1179.6
959.7
886.5
818.5
754.2
695.2
638.0
582.6
527.2
482.6
445.0
416.4
389.6
368.2
339.6
316.3
300.3
284.2
273.4
264.5
253.8
241.3
219.8
178.7
125.1
105.4
84.0
60.8
34.0
7.1
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