

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: P942194

Luminaire Tested: **GALN-SB6A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17848 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

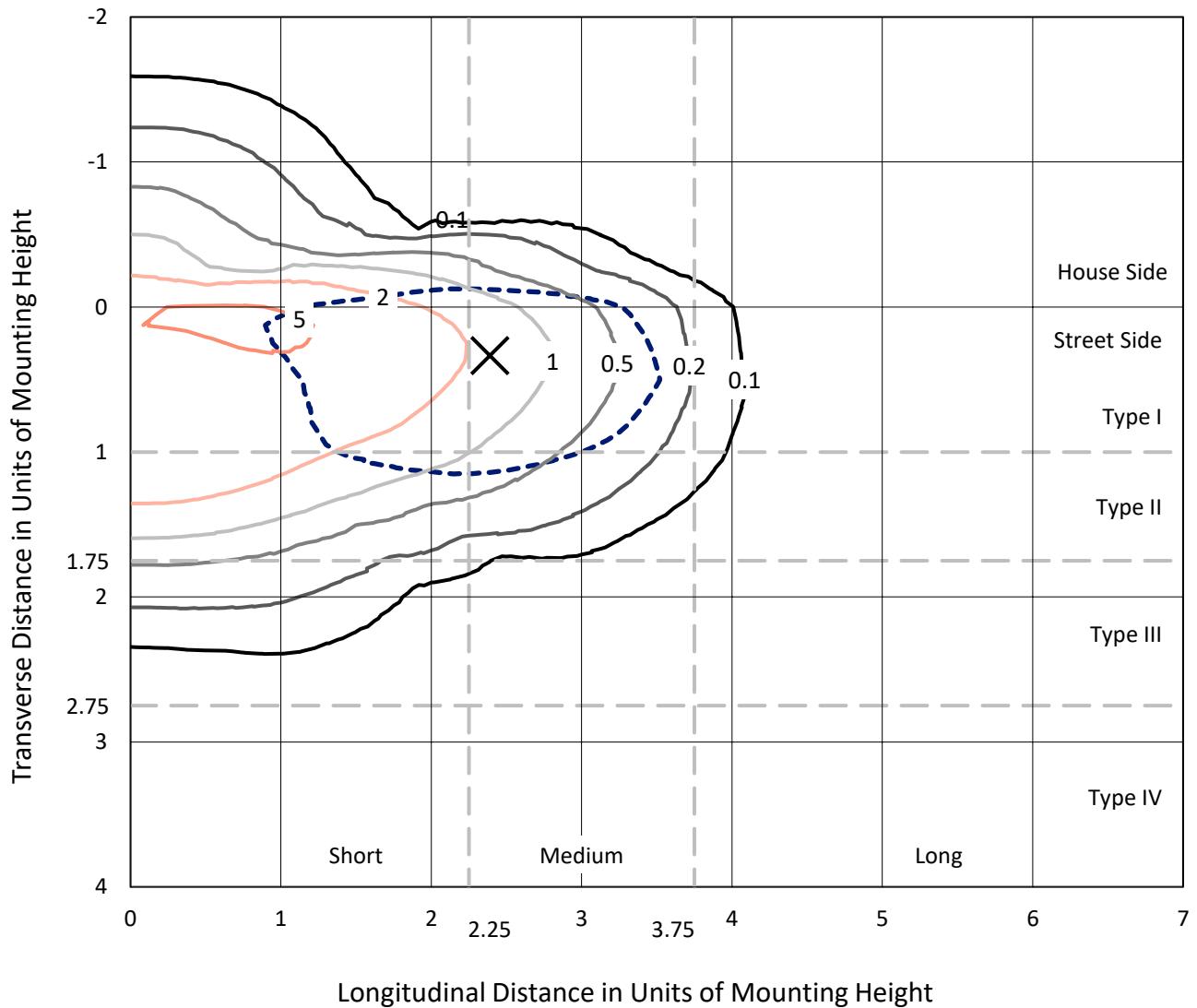
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

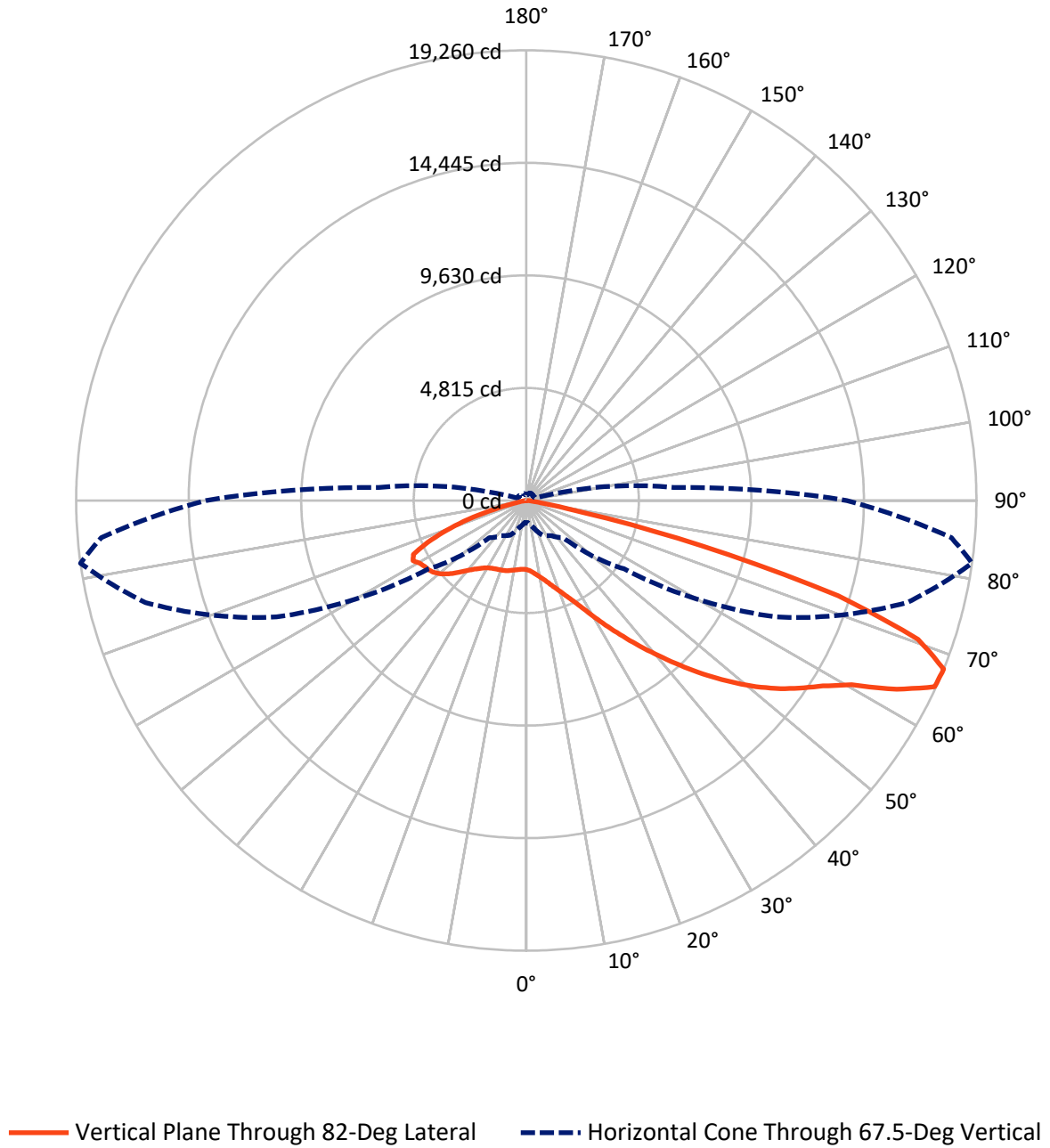
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3233.0	0.0	3233.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14615.0	0.0	14615.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	17848.0	0.0	17848.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	1.5
10°-20°	684.5	3.8
20°-30°	1096.4	6.1
30°-40°	1938.8	10.9
40°-50°	3397.0	19.0
50°-60°	4530.6	25.4
60°-70°	4217.8	23.6
70°-80°	1618.8	9.1
80°-90°	100.5	0.6
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°	17848.0	100.0
0°-180°	17848.0	100.0



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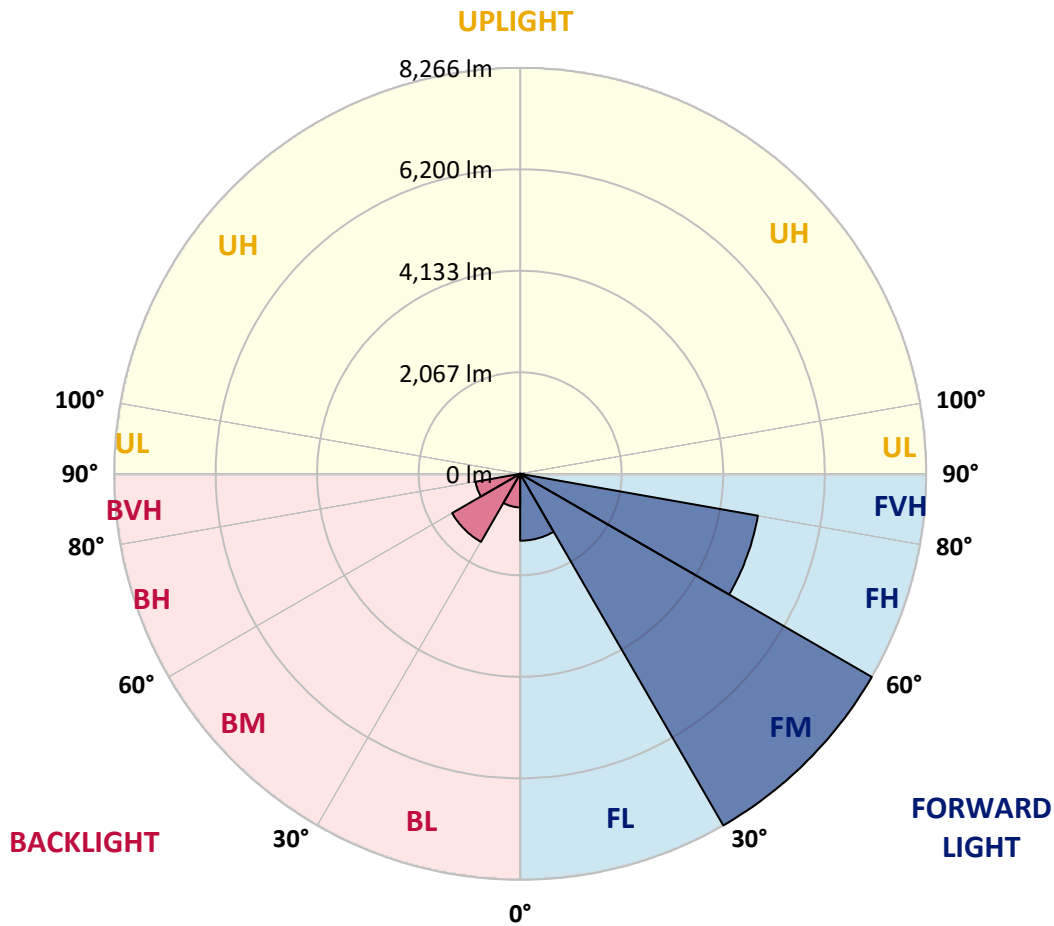
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.6	7.6			
FM (30°-60°)	8266.5	46.3			
FH (60°-80°)	4913.8	27.5			G2/5000
FVH (80°-90°)	73.1	0.4			G1/100
BL (0°-30°)	682.8	3.8	B2/1000		
BM (30°-60°)	1600.0	9.0	B2/2500		
BH (60°-80°)	922.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	27.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8
2.5°	3125.1	3143.1	3132.9	3127.7	3118.7	3105.9	3095.6	3063.5	3030.1	3008.2
5°	3188.1	3206.1	3204.8	3210.0	3216.4	3220.2	3217.7	3181.7	3134.1	3096.9
7.5°	3134.1	3154.7	3171.4	3197.1	3242.1	3289.6	3312.8	3305.0	3256.2	3204.8
10°	2981.2	3003.1	3042.9	3103.3	3198.4	3301.2	3387.3	3427.1	3396.3	3339.7
12.5°	2701.1	2722.9	2801.3	2932.4	3091.7	3270.4	3434.8	3541.5	3549.2	3492.7
15°	2386.3	2408.1	2491.6	2656.1	2899.0	3185.5	3460.5	3662.3	3730.4	3681.6
17.5°	2190.9	2210.2	2273.2	2405.5	2658.7	3015.9	3451.5	3790.8	3946.3	3907.7
20°	2131.8	2148.5	2178.1	2270.6	2481.4	2839.9	3392.4	3911.6	4178.9	4157.0
22.5°	2194.8	2210.2	2219.2	2260.3	2392.7	2724.2	3317.9	4034.9	4448.7	4451.3
25°	2340.0	2355.4	2345.1	2370.8	2428.7	2688.2	3289.6	4180.1	4787.9	4816.2
27.5°	2579.0	2580.3	2555.9	2554.6	2563.6	2742.2	3319.2	4335.6	5215.9	5268.5
30°	3058.3	3039.1	2945.2	2843.7	2797.5	2904.1	3401.4	4519.4	5720.9	5814.7
32.5°	3797.2	3768.9	3596.7	3353.9	3109.7	3165.0	3549.2	4728.8	6270.9	6440.5
35°	4599.1	4591.3	4411.4	4050.4	3623.7	3536.3	3789.5	5003.8	6871.0	7140.8
37.5°	5344.4	5340.5	5237.7	4812.4	4293.2	4054.2	4175.0	5363.6	7513.5	7904.1
40°	6025.4	6037.0	5934.2	5553.8	5030.8	4718.6	4699.3	5808.2	8227.9	8735.5
42.5°	6614.0	6626.8	6522.7	6241.3	5759.4	5453.6	5343.1	6353.1	8925.7	9628.6
45°	7013.6	7093.3	7077.8	6853.0	6507.3	6189.9	6116.7	7036.7	9721.1	10575.6
47.5°	7126.7	7199.9	7315.6	7346.4	7135.7	6823.4	6910.8	7860.4	10525.5	11524.0
50°	6847.8	6915.9	7156.2	7476.2	7622.7	7526.3	7683.1	8743.2	11349.2	12469.7
52.5°	6297.8	6367.2	6670.5	7176.8	7774.3	8077.6	8457.9	9613.2	12147.2	13365.4
55°	5502.4	5575.7	5965.0	6538.1	7485.2	8305.0	9104.3	10481.8	12878.4	14171.1
57.5°	4420.4	4474.4	4879.2	5681.0	6757.9	8078.9	9581.0	11430.2	13567.1	14962.7
60°	2881.0	2928.5	3398.9	4293.2	5552.5	7323.3	9676.1	12487.7	14482.1	15992.0
62.5°	1916.0	1948.1	2226.9	2883.6	3910.3	5872.5	9119.7	13332.0	15823.6	17783.3
65°	1314.6	1346.7	1625.5	2083.0	2526.3	3884.6	7519.9	13220.2	17039.2	19205.8
67.5°	938.1	965.0	1201.5	1633.2	1828.6	2256.5	5097.6	11791.3	16864.5	19259.7
70°	672.1	687.5	882.8	1272.2	1453.3	1355.7	2834.7	9018.2	14766.1	17784.5
72.5°	470.3	475.5	613.0	968.9	1170.6	989.5	1349.3	6012.6	11168.0	13959.1
75°	318.7	325.1	412.5	710.6	939.3	755.6	714.5	3224.1	6556.1	7726.8
77.5°	195.3	197.9	266.0	485.7	702.9	575.7	460.0	1366.0	2536.6	2490.4
80°	110.5	110.5	169.6	302.0	479.3	371.4	322.5	580.8	803.1	705.5
82.5°	61.7	63.0	123.4	187.6	317.4	219.7	177.3	268.6	347.0	307.1
85°	25.7	28.3	75.8	88.7	151.6	109.2	72.0	113.1	128.5	114.4
87.5°	2.6	3.9	23.1	16.7	18.0	21.8	10.3	21.8	18.0	18.0
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°
2956.8	0°	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8
3000.5	2.5°	2976.1	2956.8	2908.0	2851.4	2776.9	2740.9	2692.1	2658.7	2630.4	2633.0
3075.0	5°	3033.9	2985.1	2875.9	2739.6	2570.0	2449.2	2320.7	2232.1	2160.1	2144.7
3177.8	7.5°	3113.6	3036.5	2845.0	2599.6	2313.0	2095.9	1901.8	1777.2	1688.5	1660.2
3302.5	10°	3216.4	3104.6	2805.2	2423.5	2011.0	1734.8	1526.6	1428.9	1368.5	1348.0
3449.0	12.5°	3335.9	3183.0	2752.5	2208.9	1700.1	1434.1	1301.7	1252.9	1233.6	1227.2
3628.9	15°	3486.2	3280.6	2672.8	1954.5	1436.6	1250.3	1193.8	1187.3	1189.9	1187.3
3844.8	17.5°	3664.9	3387.3	2543.0	1692.4	1259.3	1156.5	1135.9	1141.1	1147.5	1146.2
4086.3	20°	3860.2	3492.7	2377.3	1459.8	1138.5	1089.7	1078.1	1083.3	1088.4	1085.8
4365.2	22.5°	4082.5	3605.7	2193.5	1278.6	1057.6	1028.0	1015.2	1016.4	1016.4	1011.3
4718.6	25°	4348.5	3730.4	2000.8	1150.1	995.9	972.8	957.3	952.2	944.5	929.1
5147.8	27.5°	4665.9	3862.7	1815.7	1060.1	947.1	925.2	907.2	894.4	875.1	849.4
5663.0	30°	5023.1	4023.4	1658.9	1003.6	908.5	886.7	866.1	846.8	818.6	786.4
6255.4	32.5°	5443.3	4195.6	1544.6	966.3	873.8	850.7	826.3	803.1	772.3	740.2
6921.1	35°	5944.5	4403.7	1477.8	940.6	846.8	816.0	789.0	763.3	740.2	711.9
7644.5	37.5°	6488.0	4624.8	1457.2	927.8	828.8	781.3	750.4	732.5	729.9	713.2
8427.1	40°	7083.0	4886.9	1472.6	920.1	809.6	747.9	714.5	710.6	717.0	687.5
9263.6	42.5°	7712.6	5197.9	1498.3	911.1	782.6	714.5	682.3	682.3	677.2	636.1
10147.7	45°	8393.7	5556.4	1524.0	889.2	750.4	681.1	656.6	647.6	625.8	586.0
11037.0	47.5°	9079.9	5921.3	1543.3	849.4	711.9	652.8	630.9	610.4	578.3	542.3
11909.5	50°	9731.4	6249.0	1522.7	790.3	668.2	625.8	602.7	574.4	539.7	515.3
12735.7	52.5°	10313.5	6533.0	1435.4	720.9	621.9	597.5	577.0	547.4	519.1	493.4
13481.0	55°	10819.8	6763.0	1281.2	655.4	580.8	573.1	552.6	515.3	476.7	454.9
14219.9	57.5°	11305.5	6937.8	1088.4	601.4	543.6	546.1	515.3	481.9	445.9	422.8
15215.8	60°	11951.9	7171.6	893.1	551.3	503.7	511.4	478.0	453.6	408.6	379.1
16923.6	62.5°	12985.0	7535.3	709.3	489.6	457.5	460.0	445.9	416.3	362.4	327.7
18189.3	65°	13804.9	7401.7	559.0	422.8	404.8	408.6	408.6	376.5	318.7	278.8
18257.4	67.5°	13712.3	6337.7	445.9	357.2	354.7	357.2	366.2	339.2	282.7	250.6
16867.1	70°	12631.7	5041.1	357.2	296.8	308.4	302.0	327.7	309.7	254.4	222.3
13076.3	72.5°	10307.1	3631.4	272.4	245.4	236.4	246.7	295.6	278.8	212.0	176.0
6926.2	75°	6022.8	1937.8	203.0	194.0	170.9	205.6	262.1	237.7	161.9	129.8
2122.8	77.5°	1960.9	675.9	149.1	142.6	127.2	165.8	223.6	200.5	132.4	102.8
621.9	80°	525.6	204.3	101.5	93.8	82.2	123.4	177.3	159.3	95.1	66.8
267.3	82.5°	210.7	86.1	59.1	52.7	45.0	84.8	140.1	128.5	70.7	42.4
83.5	85°	68.1	28.3	21.8	16.7	20.6	52.7	83.5	87.4	50.1	21.8
12.9	87.5°	9.0	3.9	3.9	5.1	3.9	9.0	25.7	24.4	14.1	2.6
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

<u>180°</u>
2956.8
2607.3
2110.0
1632.0
1332.6
1223.3
1186.1
1143.7
1084.5
1008.7
926.5
846.8
783.9
741.5
709.3
711.9
688.8
636.1
584.7
541.0
511.4
490.9
452.3
420.2
375.2
325.1
275.0
245.4
218.5
172.2
125.9
98.9
65.5
42.4
16.7
0.0
0.0

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