

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: P941384

Luminaire Tested: **GALN-SB4D-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941384
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-SB4D-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA 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: 18128 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

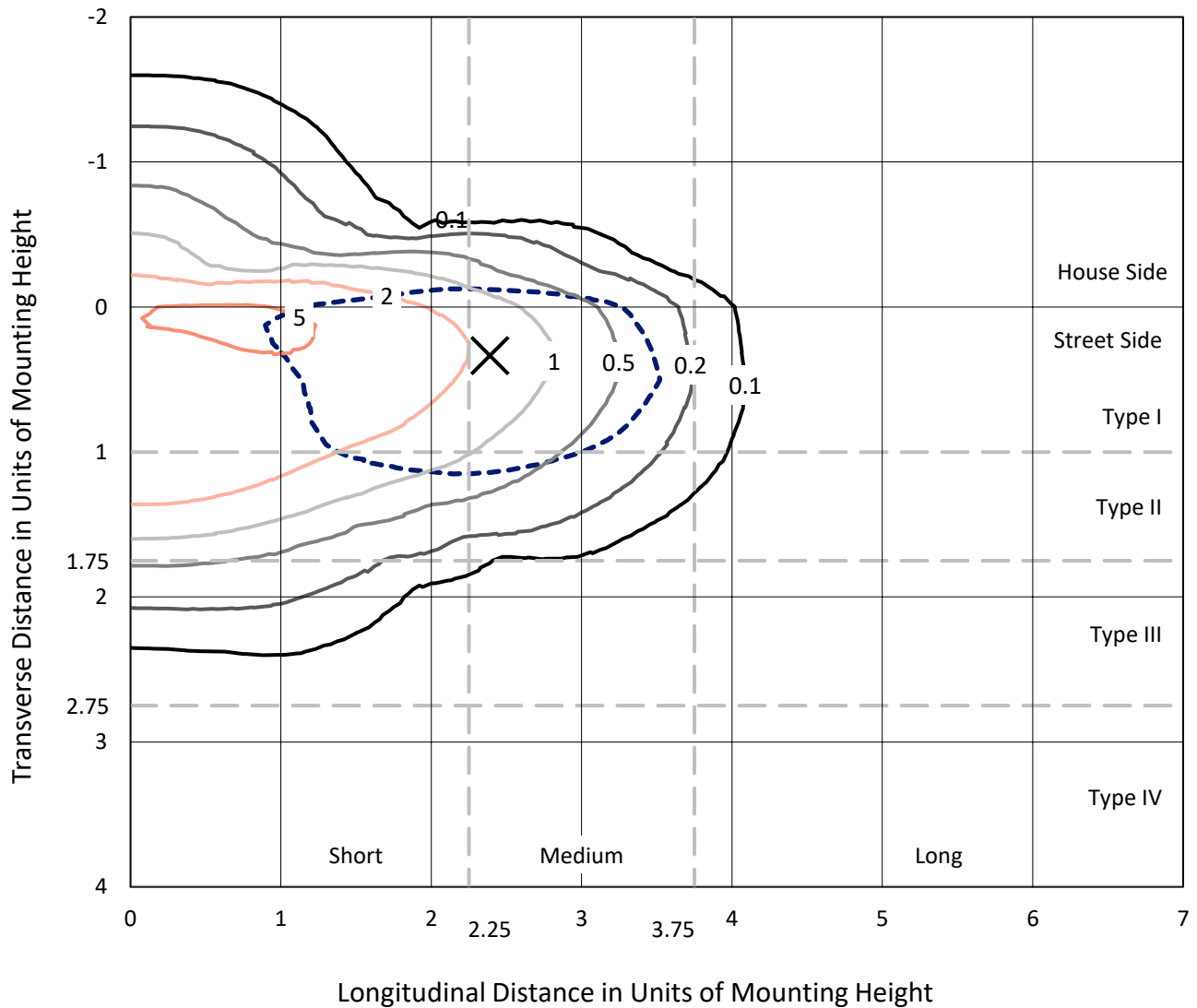
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

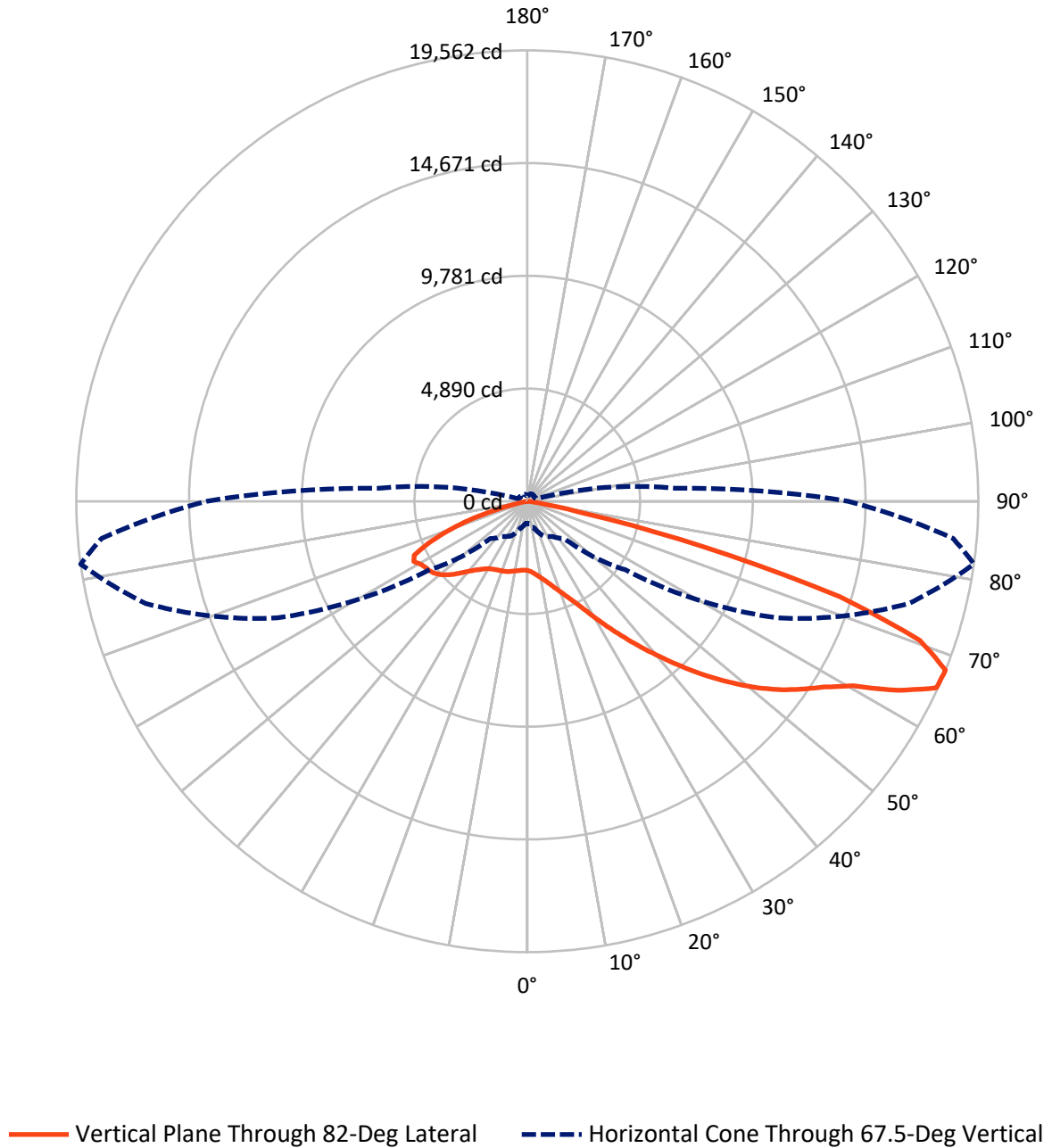
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3283.7	0.0	3283.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14844.3	0.0	14844.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	18128.0	0.0	18128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	1.5
10°-20°	695.3	3.8
20°-30°	1113.6	6.1
30°-40°	1969.2	10.9
40°-50°	3450.3	19.0
50°-60°	4601.7	25.4
60°-70°	4284.0	23.6
70°-80°	1644.2	9.1
80°-90°	102.1	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°	18128.0	100.0
0°-180°	18128.0	100.0

Coefficient of Utilization



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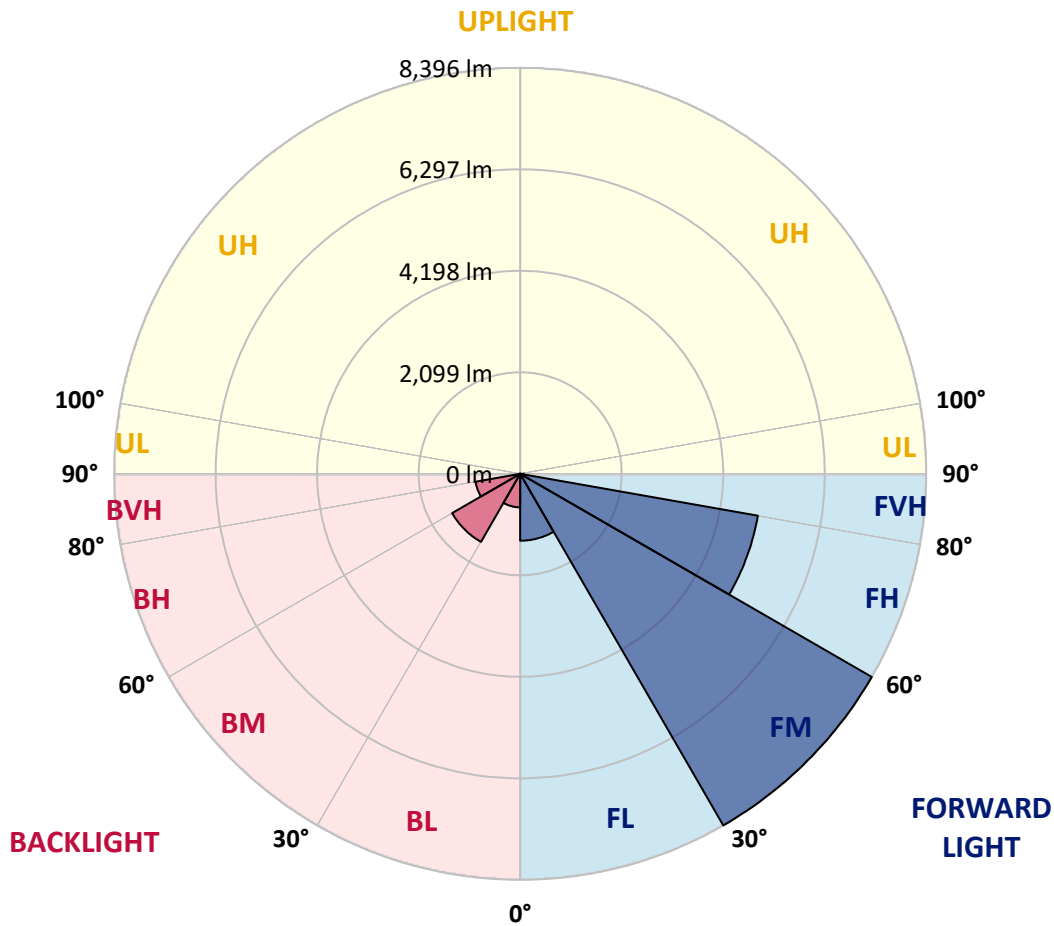
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.0	7.6			
FM (30°-60°)	8396.1	46.3			
FH (60°-80°)	4990.9	27.5			G2/5000
FVH (80°-90°)	74.2	0.4			G1/100
BL (0°-30°)	693.5	3.8	B2/1000		
BM (30°-60°)	1625.1	9.0	B2/2500		
BH (60°-80°)	937.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	27.9	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°	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2
2.5°	3174.2	3192.4	3182.0	3176.8	3167.6	3154.6	3144.2	3111.5	3077.6	3055.4
5°	3238.1	3256.4	3255.1	3260.3	3266.8	3270.8	3268.1	3231.6	3183.3	3145.5
7.5°	3183.3	3204.2	3221.2	3247.3	3292.9	3341.2	3364.7	3356.9	3307.3	3255.1
10°	3028.0	3050.2	3090.6	3152.0	3248.6	3353.0	3440.4	3480.9	3449.6	3392.1
12.5°	2743.5	2765.7	2845.3	2978.4	3140.2	3321.7	3488.7	3597.0	3604.9	3547.5
15°	2423.7	2445.9	2530.7	2697.8	2944.5	3235.5	3514.8	3719.7	3788.9	3739.3
17.5°	2225.3	2244.9	2308.8	2443.3	2700.4	3063.2	3505.7	3850.3	4008.2	3969.0
20°	2165.3	2182.2	2212.3	2306.2	2520.3	2884.4	3445.6	3972.9	4244.4	4222.2
22.5°	2229.2	2244.9	2254.0	2295.8	2430.2	2767.0	3369.9	4098.2	4518.5	4521.1
25°	2376.7	2392.4	2381.9	2408.0	2466.8	2730.4	3341.2	4245.7	4863.1	4891.8
27.5°	2619.5	2620.8	2596.0	2594.7	2603.8	2785.2	3371.3	4403.6	5297.7	5351.2
30°	3106.3	3086.7	2991.4	2888.3	2841.4	2949.7	3454.8	4590.3	5810.6	5905.9
32.5°	3856.8	3828.1	3653.2	3406.5	3158.5	3214.6	3604.9	4803.0	6369.2	6541.5
35°	4671.2	4663.4	4480.6	4113.9	3680.6	3591.8	3848.9	5082.3	6978.7	7252.8
37.5°	5428.2	5424.3	5319.9	4887.9	4360.6	4117.8	4240.5	5447.8	7631.3	8028.1
40°	6119.9	6131.7	6027.3	5640.9	5109.7	4792.6	4773.0	5899.4	8357.0	8872.5
42.5°	6717.7	6730.8	6625.0	6339.2	5849.8	5539.1	5426.9	6452.8	9065.7	9779.6
45°	7123.6	7204.5	7188.9	6960.5	6609.4	6287.0	6212.6	7147.1	9873.6	10741.5
47.5°	7238.5	7312.9	7430.3	7461.7	7247.6	6930.5	7019.2	7983.7	10690.6	11704.8
50°	6955.3	7024.4	7268.5	7593.5	7742.3	7644.4	7803.6	8880.4	11527.3	12665.4
52.5°	6396.6	6467.1	6775.1	7289.4	7896.3	8204.3	8590.6	9764.0	12337.8	13575.1
55°	5588.7	5663.1	6058.6	6640.7	7602.6	8435.3	9247.1	10646.3	13080.4	14393.4
57.5°	4489.8	4544.6	4955.7	5770.2	6863.9	8205.6	9731.3	11609.5	13780.0	15197.4
60°	2926.2	2974.5	3452.2	4360.6	5639.6	7438.2	9827.9	12683.6	14709.3	16242.8
62.5°	1946.0	1978.6	2261.9	2928.8	3971.6	5964.6	9262.8	13541.1	16071.9	18062.2
65°	1335.2	1367.8	1651.0	2115.7	2566.0	3945.5	7637.9	13427.6	17306.6	19507.1
67.5°	952.8	980.2	1220.3	1658.9	1857.3	2291.9	5177.6	11976.2	17129.1	19561.9
70°	682.6	698.3	896.7	1292.1	1476.1	1377.0	2879.2	9159.7	14997.7	18063.6
72.5°	477.7	482.9	622.6	984.1	1189.0	1005.0	1370.4	6106.9	11343.2	14178.1
75°	323.7	330.2	419.0	721.8	954.1	767.4	725.7	3274.7	6659.0	7848.0
77.5°	198.4	201.0	270.2	493.4	713.9	584.7	467.3	1387.4	2576.4	2529.4
80°	112.2	112.2	172.3	306.7	486.8	377.2	327.6	589.9	815.7	716.5
82.5°	62.6	64.0	125.3	190.6	322.4	223.2	180.1	272.8	352.4	311.9
85°	26.1	28.7	77.0	90.1	154.0	110.9	73.1	114.9	130.5	116.2
87.5°	2.6	3.9	23.5	17.0	18.3	22.2	10.4	22.2	18.3	18.3
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°
3003.2	0°	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2
3047.6	2.5°	3022.8	3003.2	2953.6	2896.2	2820.5	2783.9	2734.3	2700.4	2671.7	2674.3
3123.3	5°	3081.5	3031.9	2921.0	2782.6	2610.3	2487.7	2357.1	2267.1	2194.0	2178.3
3227.7	7.5°	3162.4	3084.1	2889.6	2640.4	2349.3	2128.7	1931.7	1805.1	1715.0	1686.3
3354.3	10°	3266.8	3153.3	2849.2	2461.6	2042.6	1762.0	1550.5	1451.3	1390.0	1369.1
3503.1	12.5°	3388.2	3232.9	2795.7	2243.6	1726.7	1456.6	1322.1	1272.5	1253.0	1246.4
3685.8	15°	3540.9	3332.1	2714.8	1985.2	1459.2	1269.9	1212.5	1206.0	1208.6	1206.0
3905.1	17.5°	3722.3	3440.4	2582.9	1718.9	1279.1	1174.7	1153.8	1159.0	1165.5	1164.2
4150.4	20°	3920.7	3547.5	2414.6	1482.7	1156.4	1106.8	1095.0	1100.3	1105.5	1102.9
4433.7	22.5°	4146.5	3662.3	2227.9	1298.6	1074.2	1044.1	1031.1	1032.4	1032.4	1027.2
4792.6	25°	4416.7	3788.9	2032.1	1168.1	1011.5	988.0	972.4	967.1	959.3	943.6
5228.5	27.5°	4739.1	3923.3	1844.2	1076.8	961.9	939.7	921.5	908.4	888.8	862.7
5751.9	30°	5101.9	4086.5	1685.0	1019.3	922.8	900.6	879.7	860.1	831.4	798.8
6353.6	32.5°	5528.7	4261.4	1568.8	981.5	887.5	864.0	839.2	815.7	784.4	751.8
7029.6	35°	6037.7	4472.8	1500.9	955.4	860.1	828.8	801.4	775.3	751.8	723.1
7764.5	37.5°	6589.8	4697.3	1480.1	942.3	841.8	793.5	762.2	743.9	741.3	724.4
8559.3	40°	7194.1	4963.6	1495.7	934.5	822.3	759.6	725.7	721.8	728.3	698.3
9409.0	42.5°	7833.6	5279.4	1521.8	925.4	794.8	725.7	693.0	693.0	687.8	646.1
10306.9	45°	8525.4	5643.6	1547.9	903.2	762.2	691.7	666.9	657.8	635.6	595.2
11210.1	47.5°	9222.3	6014.2	1567.5	862.7	723.1	663.0	640.8	620.0	587.3	550.8
12096.3	50°	9884.1	6347.0	1546.6	802.7	678.7	635.6	612.1	583.4	548.2	523.4
12935.5	52.5°	10475.3	6635.5	1457.9	732.2	631.7	606.9	586.0	556.0	527.3	501.2
13692.5	55°	10989.5	6869.1	1301.3	665.6	589.9	582.1	561.2	523.4	484.2	462.0
14443.0	57.5°	11482.9	7046.6	1105.5	610.8	552.1	554.7	523.4	489.4	452.9	429.4
15454.5	60°	12139.4	7284.2	907.1	559.9	511.6	519.5	485.5	460.7	415.0	385.0
17189.1	62.5°	13188.7	7653.5	720.5	497.3	464.6	467.3	452.9	422.9	368.1	332.8
18474.7	65°	14021.4	7517.8	567.7	429.4	411.1	415.0	415.0	382.4	323.7	283.2
18543.9	67.5°	13927.5	6437.1	452.9	362.8	360.2	362.8	372.0	344.6	287.1	254.5
17131.7	70°	12829.8	5120.2	362.8	301.5	313.2	306.7	332.8	314.5	258.4	225.8
13281.4	72.5°	10468.8	3688.4	276.7	249.3	240.2	250.6	300.2	283.2	215.4	178.8
7034.9	75°	6117.3	1968.2	206.2	197.1	173.6	208.8	266.3	241.5	164.5	131.8
2156.1	77.5°	1991.7	686.5	151.4	144.9	129.2	168.4	227.1	203.6	134.4	104.4
631.7	80°	533.8	207.5	103.1	95.3	83.5	125.3	180.1	161.8	96.6	67.9
271.5	82.5°	214.0	87.4	60.0	53.5	45.7	86.1	142.3	130.5	71.8	43.1
84.8	85°	69.2	28.7	22.2	17.0	20.9	53.5	84.8	88.8	50.9	22.2
13.1	87.5°	9.1	3.9	3.9	5.2	3.9	9.1	26.1	24.8	14.4	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

180°
3003.2
2648.2
2143.1
1657.6
1353.5
1242.5
1204.7
1161.6
1101.6
1024.6
941.0
860.1
796.2
753.1
720.5
723.1
699.6
646.1
593.9
549.5
519.5
498.6
459.4
426.8
381.1
330.2
279.3
249.3
221.9
174.9
127.9
100.5
66.6
43.1
17.0
0.0
0.0

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