

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: P944574

Luminaire Tested: **GALN-SB9C-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944574
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-SB9C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 44758 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

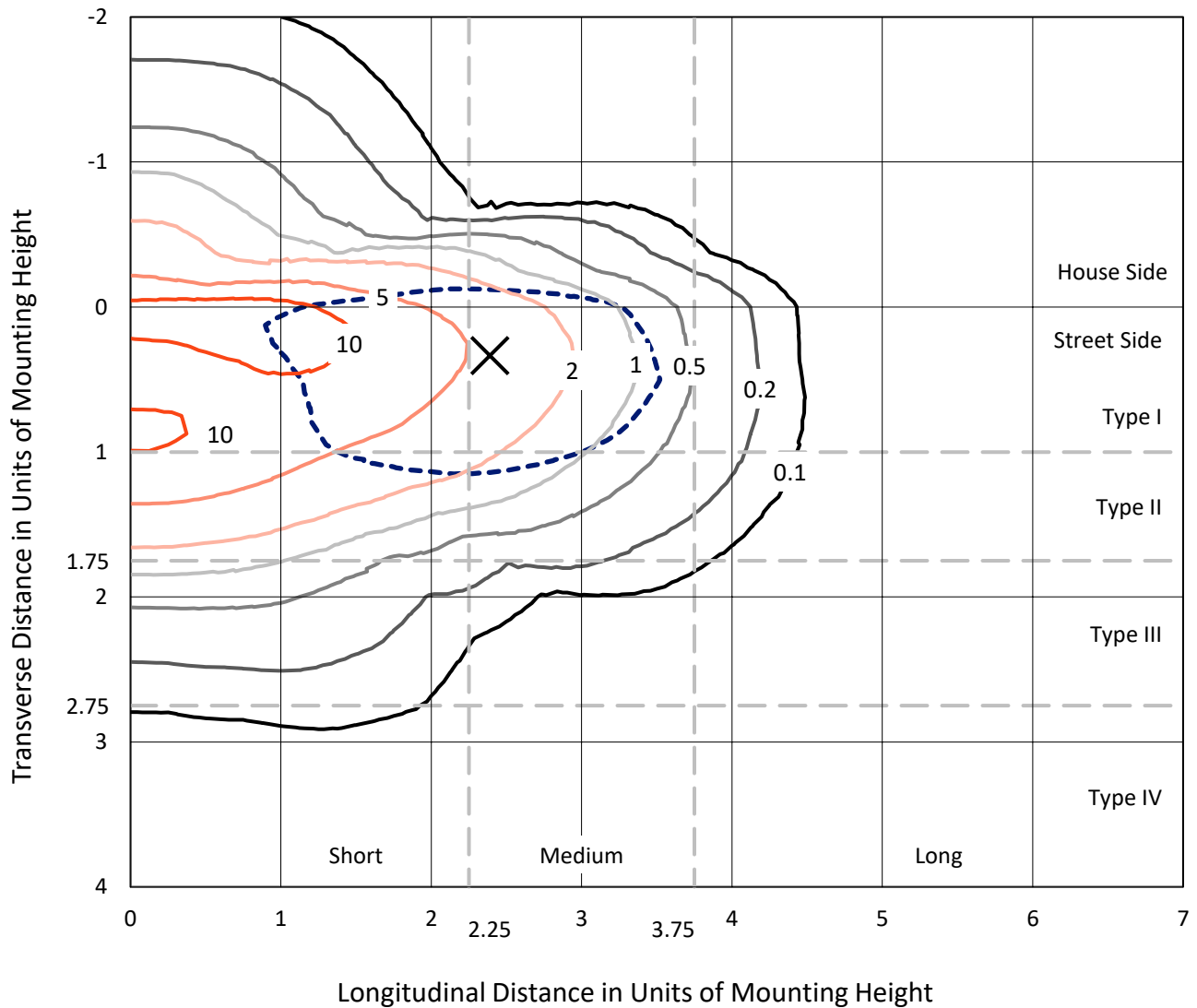
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

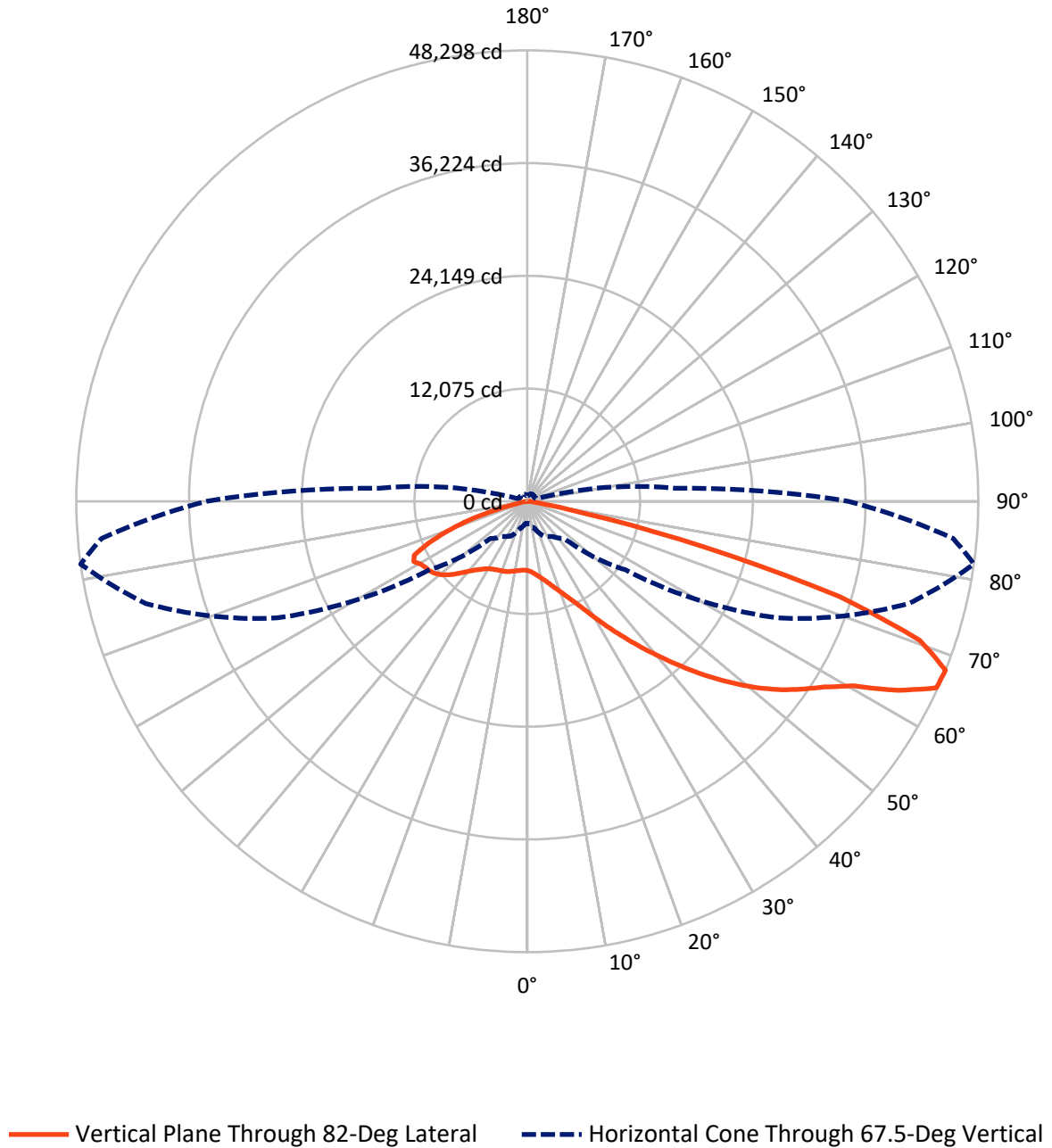
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	8107.5	0.0	8107.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	36650.5	0.0	36650.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	44758.0	0.0	44758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.6	1.5
10°-20°	1716.7	3.8
20°-30°	2749.5	6.1
30°-40°	4862.0	10.9
40°-50°	8518.8	19.0
50°-60°	11361.6	25.4
60°-70°	10577.1	23.6
70°-80°	4059.5	9.1
80°-90°	252.1	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°	44758.0	100.0
0°-180°	44758.0	100.0

Coefficient of Utilization



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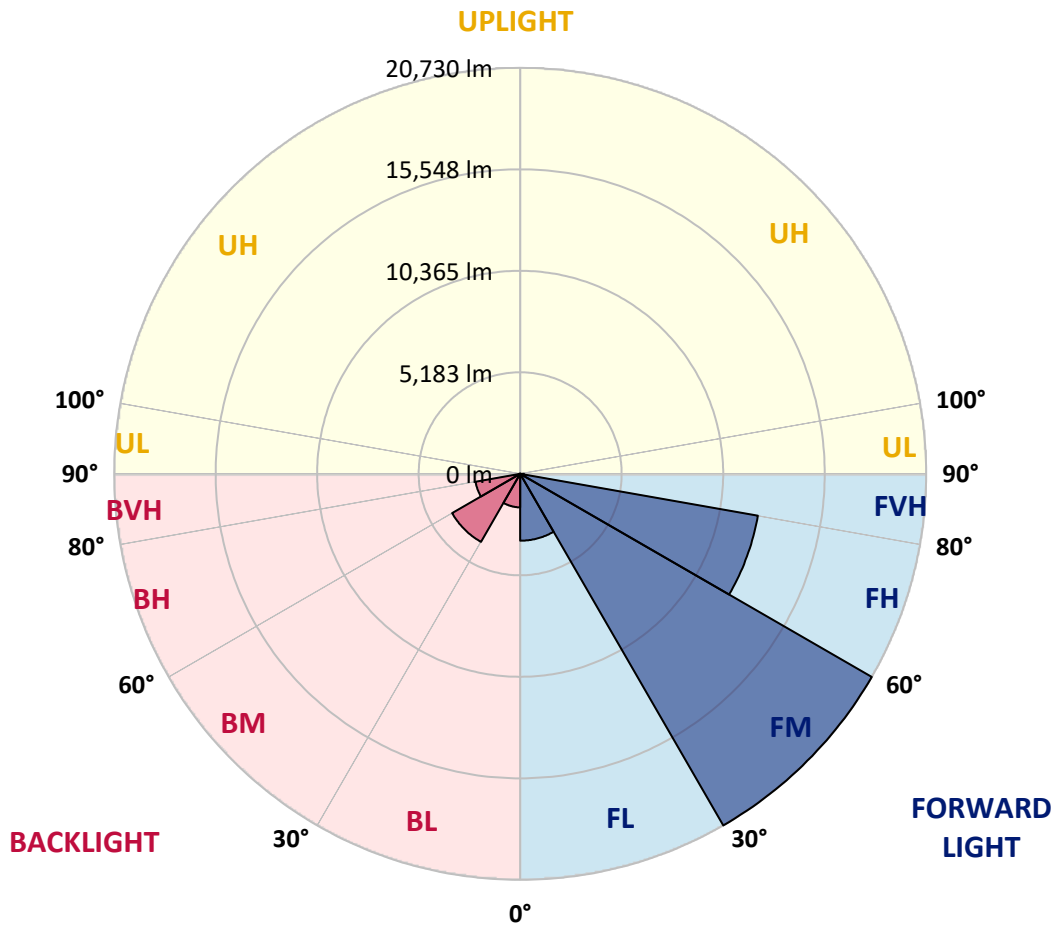
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3414.5	7.6			
FM (30°-60°)	20730.1	46.3			
FH (60°-80°)	12322.6	27.5			G5
FVH (80°-90°)	183.3	0.4			G2/225
BL (0°-30°)	1712.3	3.8	B3/2500		
BM (30°-60°)	4012.4	9.0	B3/5000		
BH (60°-80°)	2314.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	68.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9
2.5°	7837.0	7882.1	7856.4	7843.5	7820.9	7788.7	7762.9	7682.4	7598.6	7543.8
5°	7994.9	8040.0	8036.8	8049.7	8065.8	8075.5	8069.0	7978.8	7859.6	7766.1
7.5°	7859.6	7911.1	7953.0	8017.5	8130.3	8249.5	8307.5	8288.2	8165.7	8036.8
10°	7476.1	7530.9	7630.8	7782.2	8020.7	8278.5	8494.4	8594.3	8517.0	8375.2
12.5°	6773.6	6828.4	7025.0	7353.7	7753.2	8201.2	8613.6	8881.1	8900.4	8758.7
15°	5984.1	6038.9	6248.4	6660.8	7269.9	7988.5	8678.1	9184.0	9354.8	9232.4
17.5°	5494.3	5542.6	5700.5	6032.4	6667.3	7563.1	8655.5	9506.3	9896.2	9799.5
20°	5346.1	5388.0	5462.1	5694.1	6222.6	7121.6	8507.3	9809.2	10479.4	10424.7
22.5°	5504.0	5542.6	5565.2	5668.3	6000.2	6831.6	8320.4	10118.5	11156.2	11162.6
25°	5868.1	5906.8	5881.0	5945.4	6090.5	6741.4	8249.5	10482.7	12006.9	12077.8
27.5°	6467.5	6470.7	6409.5	6406.3	6428.8	6876.7	8323.6	10872.6	13080.0	13212.1
30°	7669.5	7621.1	7385.9	7131.3	7015.3	7282.8	8529.9	11333.4	14346.4	14581.6
32.5°	9522.4	9451.5	9019.7	8410.6	7798.4	7936.9	8900.4	11858.7	15725.6	16151.0
35°	11533.2	11513.9	11062.7	10157.2	9087.3	8868.2	9503.0	12548.3	17230.5	17907.2
37.5°	13402.2	13392.6	13134.8	12068.1	10766.2	10166.9	10469.8	13450.6	18841.7	19821.4
40°	15110.1	15139.1	14881.3	13927.5	12615.9	11832.9	11784.5	14565.5	20633.4	21906.3
42.5°	16586.0	16618.2	16357.2	15651.5	14443.1	13676.1	13399.0	15931.9	22383.2	24145.9
45°	17588.2	17788.0	17749.3	17185.4	16318.5	15522.6	15338.9	17646.2	24377.9	26520.9
47.5°	17871.8	18055.5	18345.5	18422.8	17894.3	17111.3	17330.4	19711.8	26395.2	28899.0
50°	17172.5	17343.3	17945.9	18748.3	19115.6	18874.0	19267.1	21925.6	28460.8	31270.8
52.5°	15793.3	15967.3	16727.8	17997.5	19495.9	20256.4	21210.2	24107.2	30461.9	33516.8
55°	13798.6	13982.3	14958.7	16395.9	18770.8	20826.8	22831.1	26285.6	32295.5	35537.3
57.5°	11085.3	11220.6	12235.7	14246.5	16946.9	20259.6	24026.7	28663.8	34022.8	37522.4
60°	7224.8	7344.0	8523.4	10766.2	13924.3	18364.8	24265.1	31315.9	36317.2	40103.5
62.5°	4804.7	4885.3	5584.5	7231.2	9806.0	14726.7	22869.8	33433.0	39681.4	44595.7
65°	3296.6	3377.1	4076.4	5223.6	6335.4	9741.5	18857.8	33152.7	42729.9	48162.9
67.5°	2352.4	2420.1	3013.0	4095.7	4585.6	5658.6	12783.5	29569.3	42291.6	48298.3
70°	1685.3	1724.0	2213.8	3190.2	3644.6	3399.7	7108.8	22615.2	37029.3	44598.9
72.5°	1179.4	1192.3	1537.1	2429.7	2935.7	2481.3	3383.6	15077.9	28006.4	35005.6
75°	799.2	815.3	1034.4	1782.0	2355.6	1894.8	1791.7	8085.2	16441.0	19376.7
77.5°	489.8	496.3	667.0	1218.1	1762.7	1443.7	1153.6	3425.5	6361.1	6245.1
80°	277.1	277.1	425.4	757.3	1202.0	931.3	808.8	1456.6	2014.0	1769.1
82.5°	154.7	157.9	309.4	470.5	795.9	551.0	444.7	673.5	870.1	770.2
85°	64.4	70.9	190.1	222.3	380.3	273.9	180.5	283.6	322.2	286.8
87.5°	6.4	9.7	58.0	41.9	45.1	54.8	25.8	54.8	45.1	45.1
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°
7414.9	0°	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9	7414.9
7524.4	2.5°	7463.2	7414.9	7292.4	7150.6	6963.7	6873.5	6751.1	6667.3	6596.4	6602.8
7711.4	5°	7608.2	7485.8	7211.9	6870.3	6444.9	6142.0	5819.8	5597.4	5417.0	5378.3
7969.1	7.5°	7808.0	7614.7	7134.5	6519.0	5800.4	5255.8	4769.2	4456.7	4234.3	4163.4
8281.7	10°	8065.8	7785.5	7034.6	6077.6	5043.2	4350.3	3828.3	3583.4	3431.9	3380.4
8649.1	12.5°	8365.5	7982.0	6902.5	5539.4	4263.3	3596.3	3264.4	3141.9	3093.6	3077.5
9100.2	15°	8742.5	8226.9	6702.7	4901.4	3602.7	3135.5	2993.7	2977.6	2984.0	2977.6
9641.6	17.5°	9190.5	8494.4	6377.3	4244.0	3158.0	2900.2	2848.7	2861.5	2877.7	2874.4
10247.4	20°	9680.3	8758.7	5961.6	3660.7	2855.1	2732.6	2703.6	2716.5	2729.4	2723.0
10946.7	22.5°	10237.8	9042.2	5500.7	3206.4	2652.1	2578.0	2545.7	2549.0	2549.0	2536.1
11832.9	25°	10904.8	9354.8	5017.4	2884.1	2497.4	2439.4	2400.7	2387.8	2368.5	2329.8
12909.2	27.5°	11700.8	9686.7	4553.3	2658.5	2375.0	2320.2	2275.1	2242.8	2194.5	2130.0
14201.4	30°	12596.6	10089.5	4160.2	2516.7	2278.3	2223.5	2171.9	2123.6	2052.7	1972.1
15686.9	32.5°	13650.4	10521.3	3873.4	2423.3	2191.3	2133.3	2072.0	2014.0	1936.7	1856.1
17356.2	35°	14907.1	11043.4	3705.8	2358.8	2123.6	2046.3	1978.6	1914.1	1856.1	1785.2
19170.4	37.5°	16270.2	11597.6	3654.3	2326.6	2078.5	1959.3	1881.9	1836.8	1830.4	1788.5
21132.9	40°	17762.2	12255.0	3692.9	2307.3	2030.2	1875.5	1791.7	1782.0	1798.1	1724.0
23230.7	42.5°	19341.2	13034.9	3757.4	2284.7	1962.5	1791.7	1711.1	1711.1	1698.2	1595.1
25447.8	45°	21049.1	13933.9	3821.8	2229.9	1881.9	1707.9	1646.7	1624.1	1569.3	1469.4
27677.7	47.5°	22769.9	14849.1	3870.2	2130.0	1785.2	1637.0	1582.2	1530.7	1450.1	1359.9
29865.8	50°	24403.7	15670.8	3818.6	1981.8	1675.7	1569.3	1511.3	1440.4	1353.4	1292.2
31937.8	52.5°	25863.5	16383.0	3599.5	1807.8	1559.7	1498.4	1446.9	1372.8	1301.9	1237.4
33806.9	55°	27133.1	16959.8	3212.8	1643.5	1456.6	1437.2	1385.7	1292.2	1195.5	1140.8
35659.8	57.5°	28351.2	17398.1	2729.4	1508.1	1363.1	1369.5	1292.2	1208.4	1118.2	1060.2
38157.2	60°	29972.1	17984.6	2239.6	1382.4	1263.2	1282.5	1198.8	1137.5	1024.7	950.6
42439.8	62.5°	32563.0	18896.5	1778.8	1227.8	1147.2	1153.6	1118.2	1044.1	908.7	821.7
45614.0	65°	34618.9	18561.4	1401.8	1060.2	1015.1	1024.7	1024.7	944.2	799.2	699.3
45784.7	67.5°	34386.9	15893.2	1118.2	895.8	889.4	895.8	918.4	850.7	708.9	628.4
42298.0	70°	31676.8	12641.7	895.8	744.4	773.4	757.3	821.7	776.6	638.0	557.5
32791.8	72.5°	25847.4	9106.7	683.2	615.5	592.9	618.7	741.2	699.3	531.7	441.5
17369.1	75°	15103.7	4859.5	509.1	486.6	428.6	515.6	657.4	596.2	406.0	325.5
5323.5	77.5°	4917.5	1695.0	373.8	357.7	319.0	415.7	560.7	502.7	331.9	257.8
1559.7	80°	1318.0	512.4	254.6	235.2	206.2	309.4	444.7	399.6	238.5	167.6
670.3	82.5°	528.5	215.9	148.2	132.1	112.8	212.7	351.2	322.2	177.2	106.3
209.5	85°	170.8	70.9	54.8	41.9	51.6	132.1	209.5	219.1	125.7	54.8
32.2	87.5°	22.6	9.7	9.7	12.9	9.7	22.6	64.4	61.2	35.4	6.4
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°
7414.9
6538.4
5291.3
4092.5
3341.7
3067.8
2974.3
2868.0
2719.8
2529.6
2323.4
2123.6
1965.7
1859.4
1778.8
1785.2
1727.2
1595.1
1466.2
1356.7
1282.5
1231.0
1134.3
1053.7
941.0
815.3
689.6
615.5
547.8
431.8
315.8
248.1
164.3
106.3
41.9
0.0
0.0

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