

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: P941714

Luminaire Tested: **GALN-SB5B-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941714
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-SB5B-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 450mA 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: 19868 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

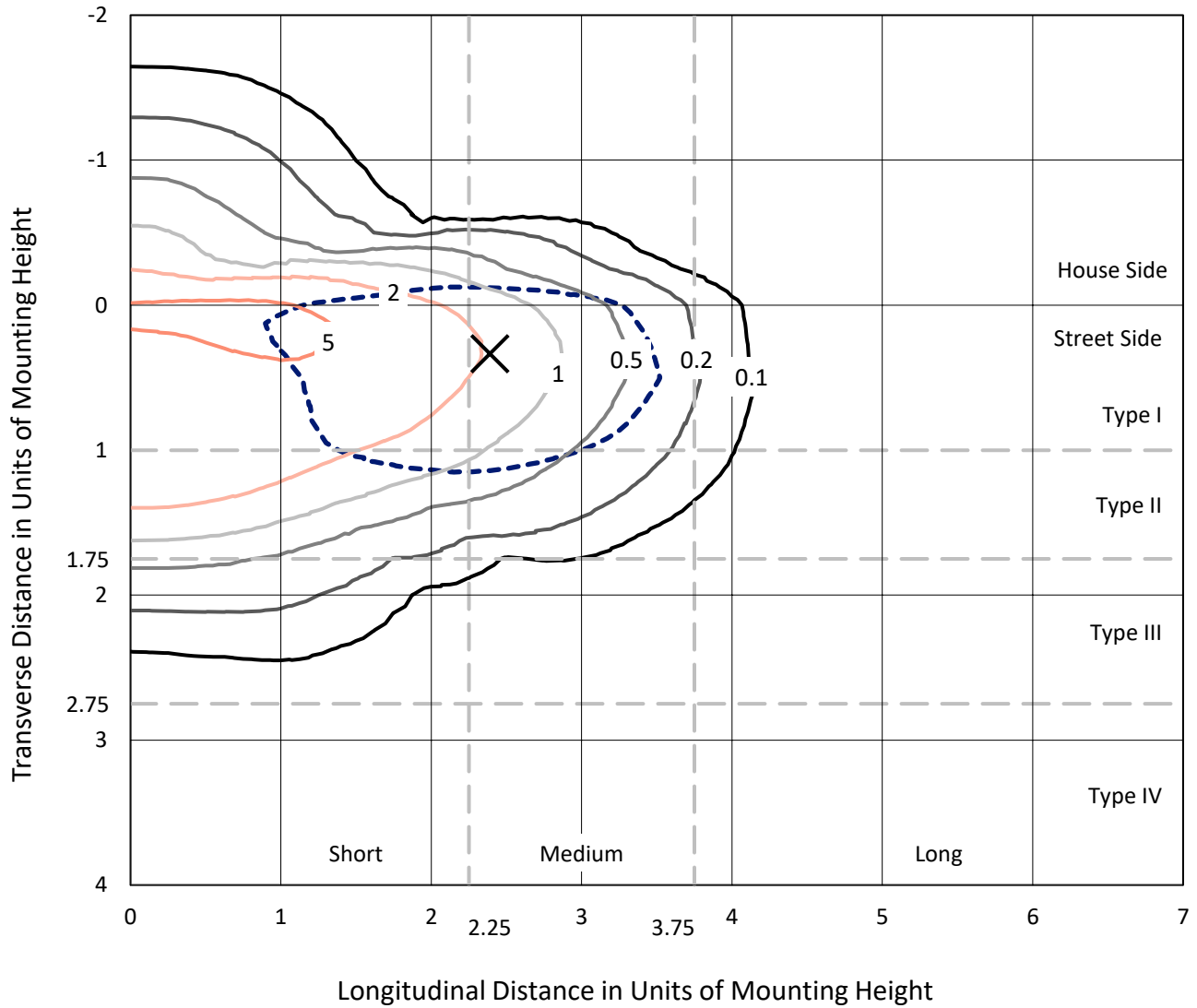
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

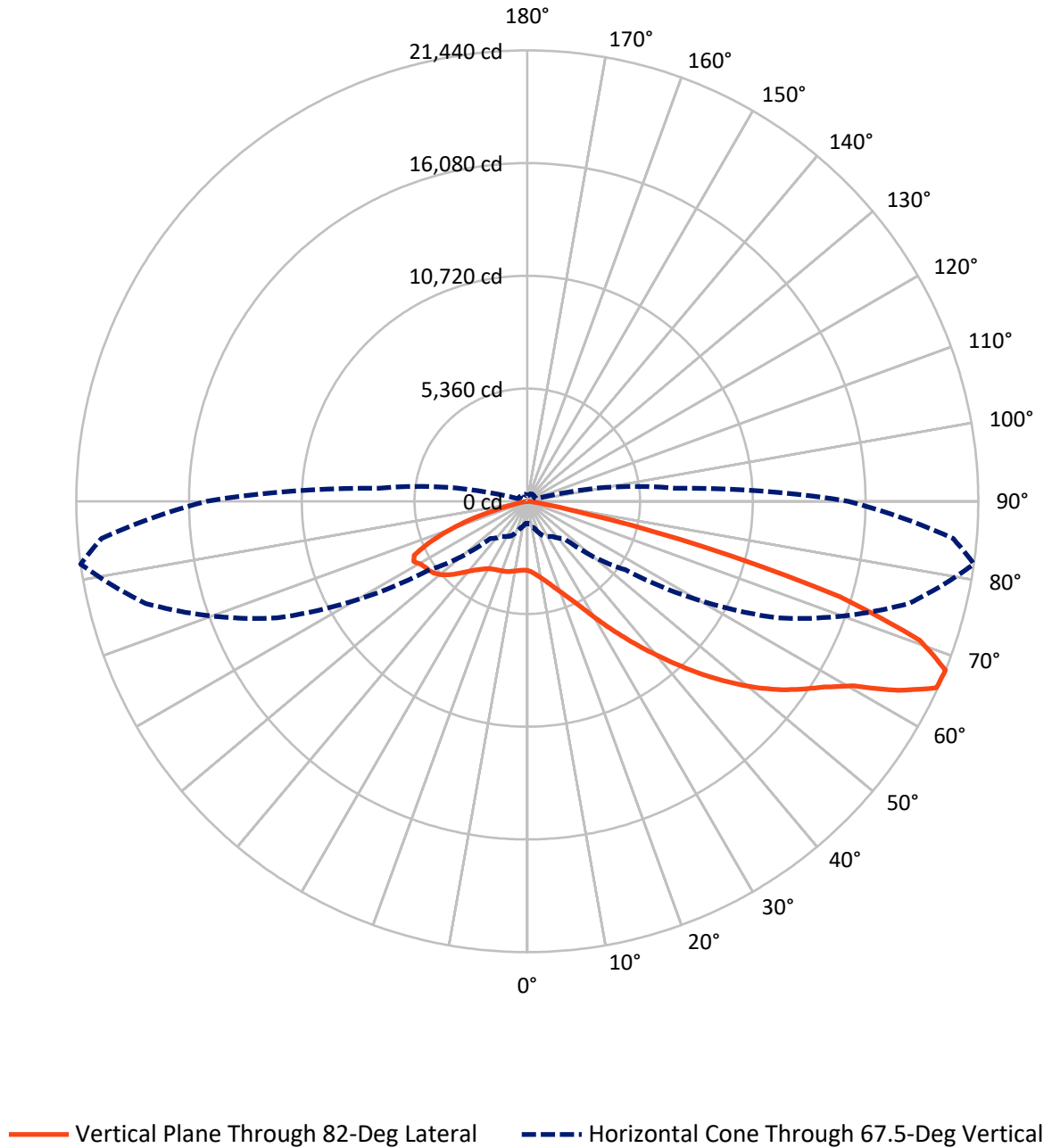
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3598.9	0.0	3598.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16269.1	0.0	16269.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	19868.0	0.0	19868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	1.5
10°-20°	762.0	3.8
20°-30°	1220.5	6.1
30°-40°	2158.3	10.9
40°-50°	3781.5	19.0
50°-60°	5043.4	25.4
60°-70°	4695.2	23.6
70°-80°	1802.0	9.1
80°-90°	111.9	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°	19868.0	100.0
0°-180°	19868.0	100.0

Coefficient of Utilization



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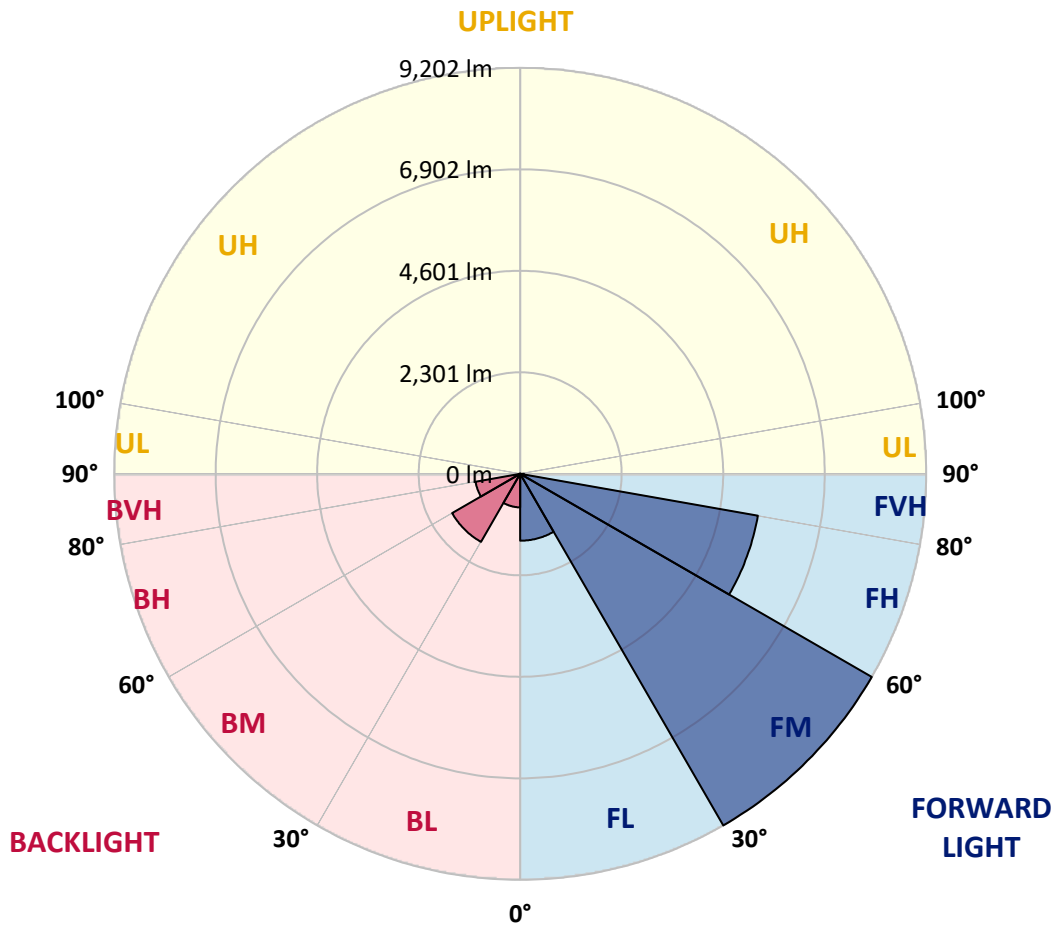
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.7	7.6			
FM (30°-60°)	9202.0	46.3			
FH (60°-80°)	5470.0	27.5			G3/7500
FVH (80°-90°)	81.4	0.4			G1/100
BL (0°-30°)	760.1	3.8	B2/1000		
BM (30°-60°)	1781.1	9.0	B2/2500		
BH (60°-80°)	1027.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	30.5	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5
2.5°	3478.8	3498.9	3487.4	3481.7	3471.7	3457.4	3445.9	3410.2	3373.0	3348.7
5°	3548.9	3569.0	3567.5	3573.3	3580.4	3584.7	3581.8	3541.8	3488.9	3447.4
7.5°	3488.9	3511.7	3530.3	3558.9	3609.0	3661.9	3687.7	3679.1	3624.7	3567.5
10°	3318.6	3343.0	3387.3	3454.5	3560.4	3674.8	3770.7	3815.0	3780.7	3717.7
12.5°	3006.8	3031.1	3118.4	3264.3	3441.7	3640.5	3823.6	3942.3	3950.9	3888.0
15°	2656.3	2680.7	2773.6	2956.7	3227.1	3546.1	3852.2	4076.8	4152.6	4098.2
17.5°	2438.9	2460.4	2530.5	2677.8	2959.6	3357.3	3842.2	4219.8	4392.9	4350.0
20°	2373.1	2391.7	2424.6	2527.6	2762.2	3161.3	3776.4	4354.3	4651.8	4627.5
22.5°	2443.2	2460.4	2470.4	2516.2	2663.5	3032.5	3693.4	4491.6	4952.2	4955.1
25°	2604.8	2622.0	2610.6	2639.2	2703.5	2992.5	3661.9	4653.2	5329.8	5361.3
27.5°	2870.9	2872.3	2845.2	2843.7	2853.7	3052.6	3694.8	4826.3	5806.2	5864.8
30°	3404.5	3383.0	3278.6	3165.6	3114.1	3232.8	3786.4	5030.9	6368.3	6472.8
32.5°	4227.0	4195.5	4003.8	3733.5	3461.7	3523.2	3950.9	5264.0	6980.6	7169.4
35°	5119.6	5111.0	4910.7	4508.8	4033.9	3936.6	4218.4	5570.2	7648.6	7949.0
37.5°	5949.2	5944.9	5830.5	5357.0	4779.1	4513.1	4647.5	5970.7	8363.8	8798.7
40°	6707.4	6720.2	6605.8	6182.4	5600.2	5252.6	5231.1	6465.6	9159.1	9724.2
42.5°	7362.5	7376.8	7260.9	6947.7	6411.3	6070.8	5947.8	7072.1	9935.9	10718.3
45°	7807.4	7896.1	7878.9	7628.6	7243.8	6890.5	6808.9	7833.1	10821.3	11772.6
47.5°	7933.3	8014.8	8143.5	8177.9	7943.3	7595.7	7692.9	8750.0	11716.8	12828.2
50°	7622.8	7698.7	7966.2	8322.3	8485.4	8378.1	8552.6	9732.8	12633.7	13881.0
52.5°	7010.6	7087.9	7425.4	7989.0	8654.2	8991.8	9415.2	10701.2	13522.0	14878.1
55°	6125.2	6206.7	6640.1	7278.1	8332.3	9245.0	10134.7	11668.1	14335.9	15775.0
57.5°	4920.7	4980.8	5431.4	6324.0	7522.7	8993.2	10665.4	12723.8	15102.6	16656.1
60°	3207.1	3260.0	3783.5	4779.1	6181.0	8152.1	10771.3	13901.1	16121.1	17801.9
62.5°	2132.8	2168.6	2479.0	3209.9	4352.8	6537.1	10151.9	14840.9	17614.5	19795.9
65°	1463.3	1499.1	1809.5	2318.8	2812.3	4324.2	8371.0	14716.4	18967.7	21379.4
67.5°	1044.2	1074.3	1337.5	1818.1	2035.5	2511.9	5674.6	13125.8	18773.2	21439.5
70°	748.1	765.3	982.7	1416.1	1617.8	1509.1	3155.6	10038.9	16437.2	19797.4
72.5°	523.5	529.3	682.3	1078.6	1303.1	1101.4	1502.0	6693.1	12432.0	15538.9
75°	354.8	361.9	459.2	791.0	1045.7	841.1	795.3	3589.0	7298.1	8601.3
77.5°	217.4	220.3	296.1	540.7	782.5	640.8	512.1	1520.6	2823.7	2772.2
80°	123.0	123.0	188.8	336.2	533.6	413.4	359.0	646.6	894.0	785.3
82.5°	68.7	70.1	137.3	208.8	353.3	244.6	197.4	299.0	386.2	341.9
85°	28.6	31.5	84.4	98.7	168.8	121.6	80.1	125.9	143.0	127.3
87.5°	2.9	4.3	25.7	18.6	20.0	24.3	11.4	24.3	20.0	20.0
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°
3291.5	0°	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5
3340.1	2.5°	3312.9	3291.5	3237.1	3174.2	3091.2	3051.1	2996.8	2959.6	2928.1	2931.0
3423.1	5°	3377.3	3322.9	3201.3	3049.7	2860.9	2726.4	2583.4	2484.7	2404.6	2387.4
3537.5	7.5°	3466.0	3380.1	3167.0	2893.8	2574.8	2333.1	2117.1	1978.3	1879.6	1848.1
3676.2	10°	3580.4	3456.0	3122.7	2697.8	2238.6	1931.1	1699.4	1590.7	1523.4	1500.5
3839.3	12.5°	3713.4	3543.2	3064.0	2458.9	1892.5	1596.4	1449.0	1394.7	1373.2	1366.1
4039.6	15°	3880.8	3651.9	2975.3	2175.7	1599.2	1391.8	1328.9	1321.7	1324.6	1321.7
4279.9	17.5°	4079.6	3770.7	2830.9	1883.9	1401.8	1287.4	1264.5	1270.2	1277.4	1276.0
4548.8	20°	4297.1	3888.0	2646.3	1625.0	1267.4	1213.0	1200.1	1205.9	1211.6	1208.7
4859.2	22.5°	4544.5	4013.8	2441.8	1423.3	1177.3	1144.4	1130.1	1131.5	1131.5	1125.8
5252.6	25°	4840.6	4152.6	2227.2	1280.2	1108.6	1082.8	1065.7	1060.0	1051.4	1034.2
5730.4	27.5°	5193.9	4299.9	2021.2	1180.1	1054.2	1029.9	1009.9	995.6	974.1	945.5
6304.0	30°	5591.6	4478.7	1846.7	1117.2	1011.3	987.0	964.1	942.7	911.2	875.4
6963.4	32.5°	6059.4	4670.4	1719.4	1075.7	972.7	947.0	919.8	894.0	859.7	823.9
7704.4	35°	6617.2	4902.1	1645.0	1047.1	942.7	908.3	878.3	849.7	823.9	792.5
8509.7	37.5°	7222.3	5148.2	1622.1	1032.8	922.6	869.7	835.4	815.4	812.5	793.9
9380.9	40°	7884.6	5440.0	1639.3	1024.2	901.2	832.5	795.3	791.0	798.2	765.3
10312.1	42.5°	8585.5	5786.2	1667.9	1014.2	871.1	795.3	759.6	759.6	753.8	708.1
11296.2	45°	9343.7	6185.2	1696.5	989.9	835.4	758.1	731.0	720.9	696.6	652.3
12286.1	47.5°	10107.5	6591.5	1718.0	945.5	792.5	726.7	702.3	679.5	643.7	603.6
13257.4	50°	10832.8	6956.3	1695.1	879.7	743.8	696.6	670.9	639.4	600.8	573.6
14177.1	52.5°	11480.8	7272.4	1597.8	802.5	692.3	665.2	642.3	609.4	577.9	549.3
15006.8	55°	12044.4	7528.4	1426.2	729.5	646.6	638.0	615.1	573.6	530.7	506.4
15829.3	57.5°	12585.1	7723.0	1211.6	669.4	605.1	607.9	573.6	536.4	496.4	470.6
16937.9	60°	13304.6	7983.3	994.2	613.7	560.7	569.3	532.1	504.9	454.9	422.0
18839.0	62.5°	14454.7	8388.1	789.6	545.0	509.2	512.1	496.4	463.5	403.4	364.8
20248.0	65°	15367.3	8239.4	622.2	470.6	450.6	454.9	454.9	419.1	354.8	310.4
20323.8	67.5°	15264.3	7055.0	496.4	397.7	394.8	397.7	407.7	377.6	314.7	278.9
18776.0	70°	14061.3	5611.6	397.7	330.4	343.3	336.2	364.8	344.7	283.2	247.5
14556.2	72.5°	11473.6	4042.4	303.3	273.2	263.2	274.6	329.0	310.4	236.0	196.0
7710.1	75°	6704.5	2157.1	226.0	216.0	190.2	228.9	291.8	264.6	180.2	144.5
2363.1	77.5°	2182.9	752.4	165.9	158.8	141.6	184.5	248.9	223.1	147.3	114.4
692.3	80°	585.1	227.4	113.0	104.4	91.5	137.3	197.4	177.4	105.9	74.4
297.5	82.5°	234.6	95.8	65.8	58.6	50.1	94.4	155.9	143.0	78.7	47.2
93.0	85°	75.8	31.5	24.3	18.6	22.9	58.6	93.0	97.3	55.8	24.3
14.3	87.5°	10.0	4.3	4.3	5.7	4.3	10.0	28.6	27.2	15.7	2.9
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>
3291.5
2902.4
2348.8
1816.7
1483.4
1361.8
1320.3
1273.1
1207.3
1122.9
1031.4
942.7
872.6
825.4
789.6
792.5
766.7
708.1
650.9
602.2
569.3
546.4
503.5
467.8
417.7
361.9
306.1
273.2
243.2
191.7
140.2
110.1
73.0
47.2
18.6
0.0
0.0

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