

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: P942064

Luminaire Tested: **GALN-SB5D-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942064
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-SB5D-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 22848 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

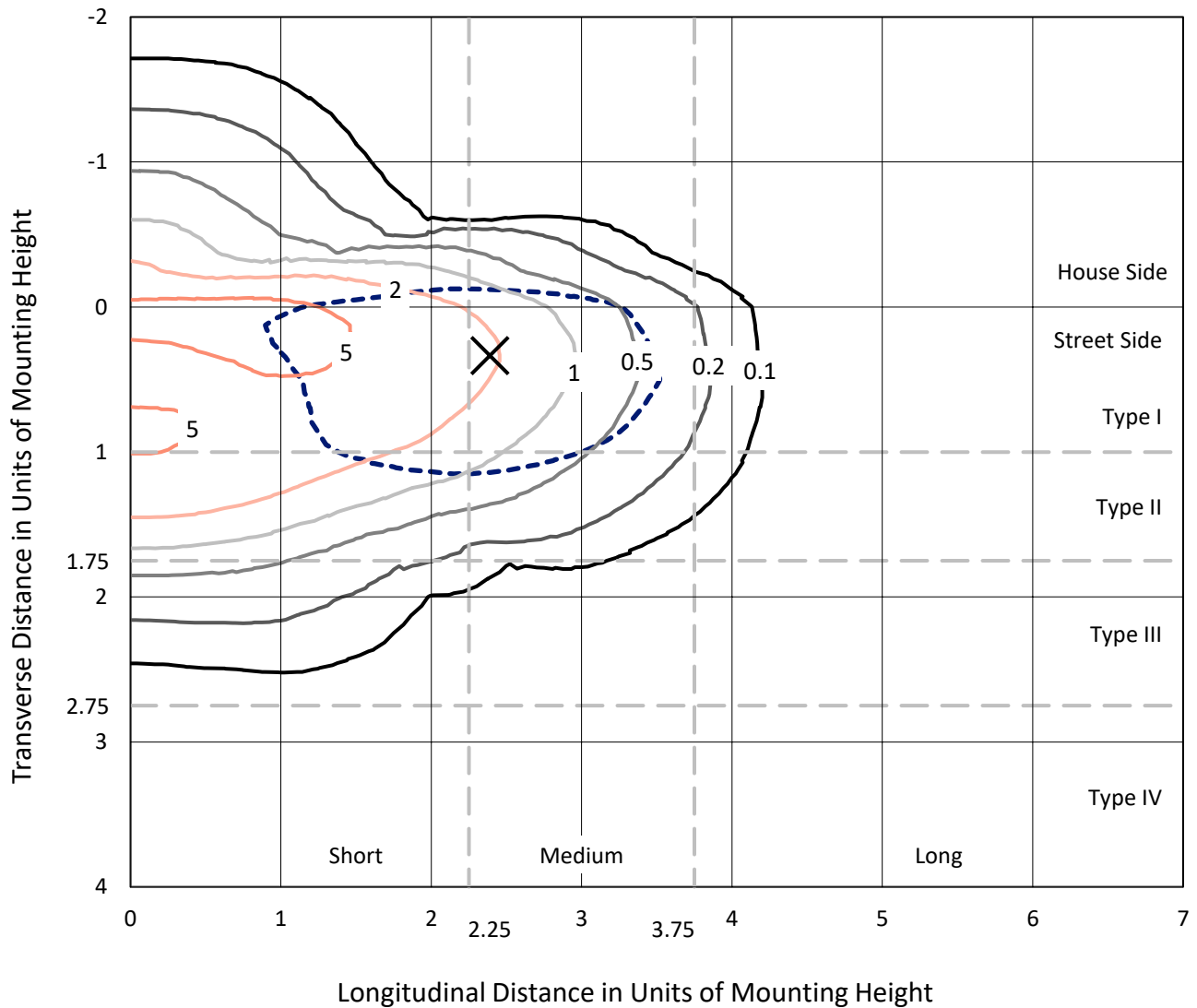
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

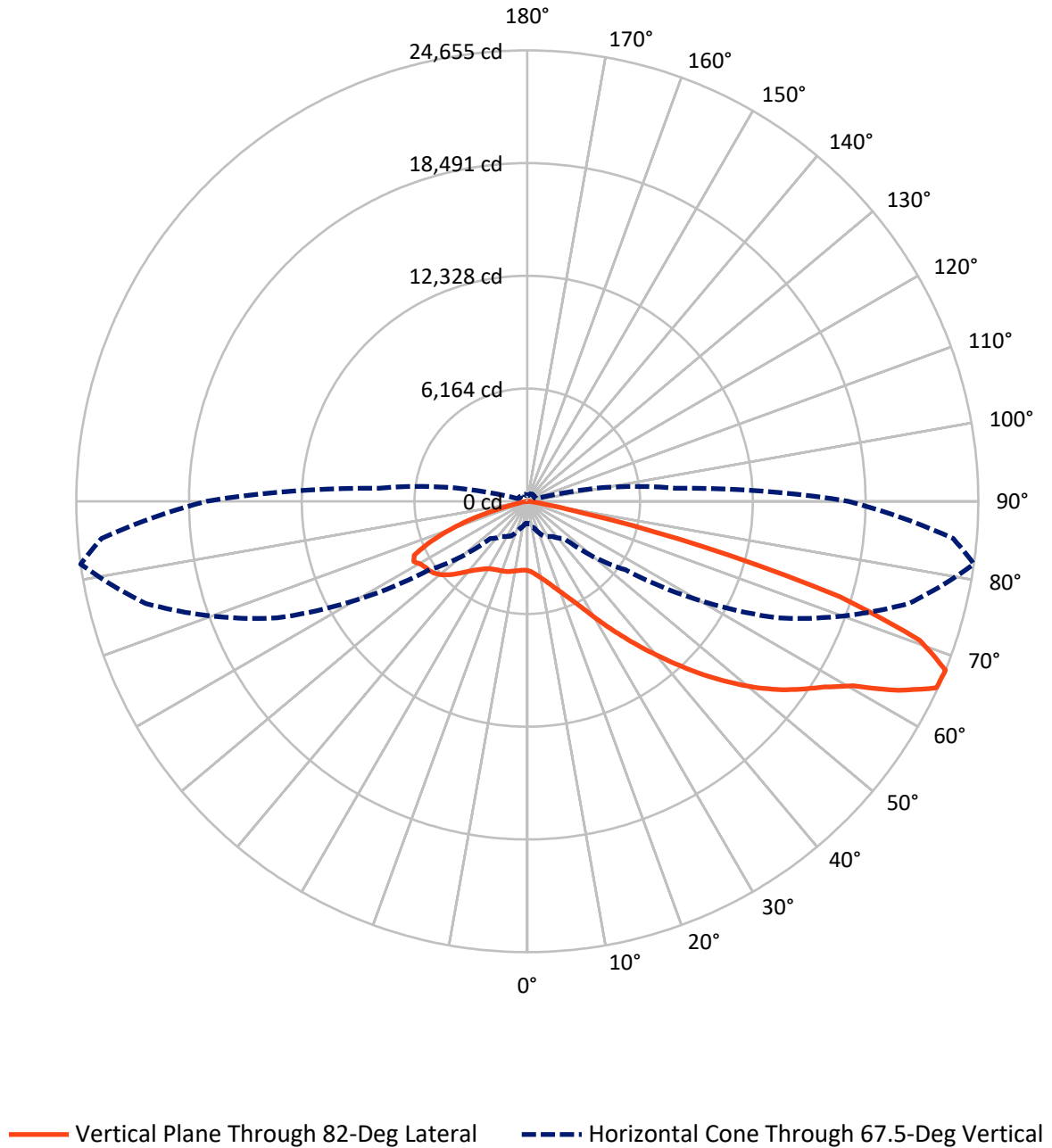
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	4138.7	0.0	4138.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18709.3	0.0	18709.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	22848.0	0.0	22848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.2	1.5
10°-20°	876.3	3.8
20°-30°	1403.6	6.1
30°-40°	2482.0	10.9
40°-50°	4348.6	19.0
50°-60°	5799.9	25.4
60°-70°	5399.4	23.6
70°-80°	2072.3	9.1
80°-90°	128.7	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°	22848.0	100.0
0°-180°	22848.0	100.0

Coefficient of Utilization



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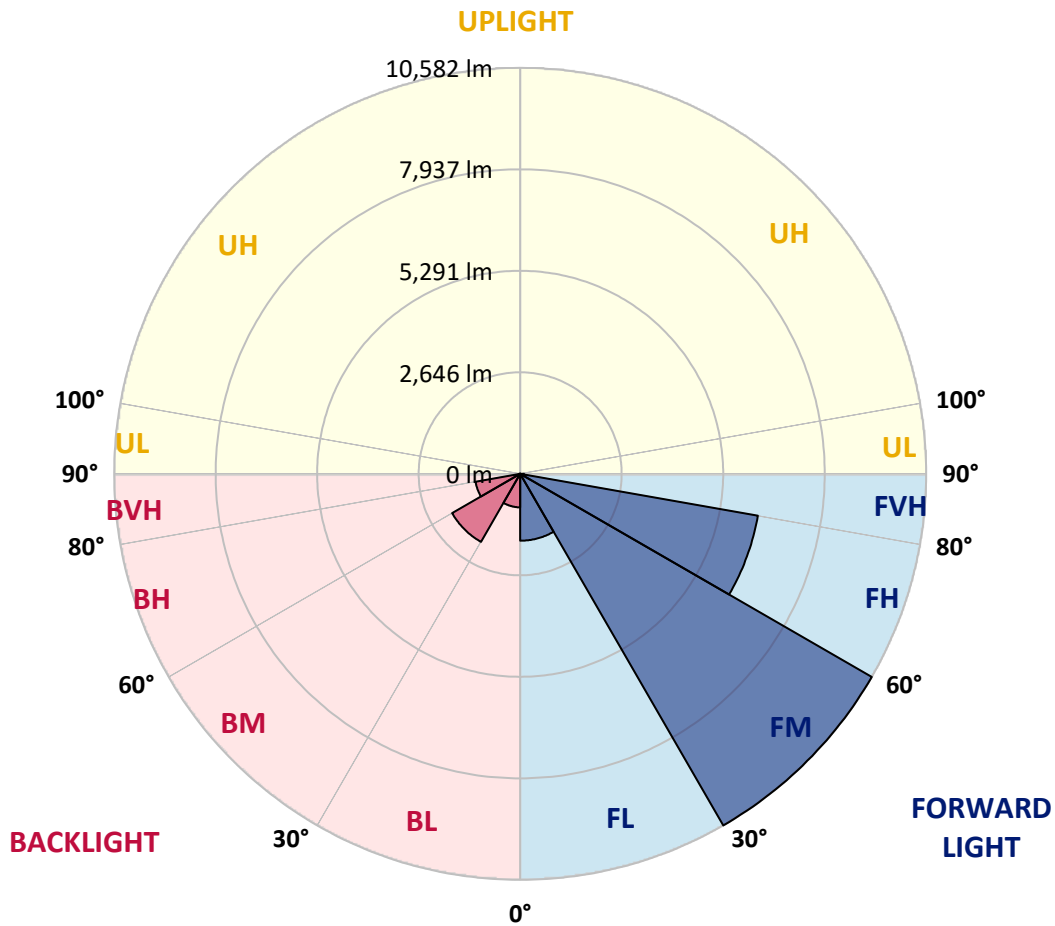
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.0	7.6			
FM (30°-60°)	10582.3	46.3			
FH (60°-80°)	6290.4	27.5			G3/7500
FVH (80°-90°)	93.6	0.4			G1/100
BL (0°-30°)	874.1	3.8	B2/1000		
BM (30°-60°)	2048.2	9.0	B2/2500		
BH (60°-80°)	1181.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	35.1	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°	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1
2.5°	4000.6	4023.7	4010.5	4003.9	3992.4	3976.0	3962.8	3921.7	3878.9	3850.9
5°	4081.2	4104.3	4102.6	4109.2	4117.4	4122.4	4119.1	4073.0	4012.2	3964.4
7.5°	4012.2	4038.5	4059.9	4092.8	4150.3	4211.2	4240.8	4230.9	4168.4	4102.6
10°	3816.4	3844.4	3895.4	3972.7	4094.4	4226.0	4336.2	4387.2	4347.7	4275.3
12.5°	3457.8	3485.8	3586.1	3753.9	3957.9	4186.5	4397.1	4533.6	4543.5	4471.1
15°	3054.8	3082.7	3189.7	3400.2	3711.1	4078.0	4430.0	4688.2	4775.4	4712.9
17.5°	2804.7	2829.4	2910.0	3079.4	3403.5	3860.8	4418.5	4852.7	5051.8	5002.4
20°	2729.1	2750.4	2788.3	2906.7	3176.5	3635.4	4342.8	5007.4	5349.5	5321.6
22.5°	2809.7	2829.4	2840.9	2893.6	3063.0	3487.4	4247.4	5165.3	5695.0	5698.3
25°	2995.5	3015.3	3002.1	3035.0	3109.0	3441.3	4211.2	5351.2	6129.3	6165.5
27.5°	3301.5	3303.2	3271.9	3270.3	3281.8	3510.4	4249.0	5550.2	6677.0	6744.5
30°	3915.1	3890.4	3770.3	3640.4	3581.2	3717.7	4354.3	5785.5	7323.5	7443.6
32.5°	4861.0	4824.8	4604.3	4293.4	3980.9	4051.6	4543.5	6053.6	8027.6	8244.7
35°	5887.4	5877.6	5647.3	5185.0	4638.9	4527.0	4851.1	6405.6	8795.8	9141.3
37.5°	6841.5	6836.6	6705.0	6160.5	5495.9	5190.0	5344.6	6866.2	9618.3	10118.4
40°	7713.4	7728.2	7596.6	7109.7	6440.2	6040.4	6015.8	7435.4	10532.9	11182.7
42.5°	8466.8	8483.3	8350.0	7989.8	7372.9	6981.4	6839.9	8132.9	11426.2	12326.0
45°	8978.4	9080.4	9060.6	8772.8	8330.3	7924.0	7830.2	9008.0	12444.4	13538.3
47.5°	9123.2	9216.9	9365.0	9404.5	9134.7	8734.9	8846.8	10062.5	13474.2	14752.3
50°	8766.2	8853.4	9161.0	9570.6	9758.1	9634.8	9835.4	11192.6	14528.6	15963.1
52.5°	8062.1	8151.0	8539.2	9187.3	9952.2	10340.5	10827.4	12306.2	15550.2	17109.6
55°	7043.9	7137.6	7636.1	8369.7	9582.1	10631.6	11654.8	13418.2	16486.2	18141.0
57.5°	5658.8	5727.9	6246.1	7272.5	8651.0	10342.1	12265.1	14632.3	17367.9	19154.4
60°	3688.1	3749.0	4351.0	5495.9	7108.0	9374.8	12386.8	15986.1	18539.1	20472.0
62.5°	2452.7	2493.8	2850.8	3691.4	5005.7	7517.6	11674.6	17066.9	20256.5	22765.1
65°	1682.8	1724.0	2080.9	2666.5	3234.1	4972.8	9626.5	16923.7	21812.7	24586.1
67.5°	1200.8	1235.4	1538.1	2090.8	2340.8	2888.6	6525.7	15094.5	21589.0	24655.2
70°	860.3	880.1	1130.1	1628.5	1860.5	1735.5	3628.9	11544.6	18902.7	22766.8
72.5°	602.1	608.6	784.7	1240.3	1498.6	1266.6	1727.2	7696.9	14296.7	17869.6
75°	408.0	416.2	528.0	909.7	1202.5	967.3	914.6	4127.3	8392.8	9891.4
77.5°	250.0	253.3	340.5	621.8	899.8	737.0	588.9	1748.6	3247.2	3188.0
80°	141.5	141.5	217.1	386.6	613.6	475.4	412.9	743.5	1028.1	903.1
82.5°	79.0	80.6	157.9	240.2	406.3	281.3	227.0	343.8	444.1	393.2
85°	32.9	36.2	97.1	113.5	194.1	139.8	92.1	144.8	164.5	146.4
87.5°	3.3	4.9	29.6	21.4	23.0	28.0	13.2	28.0	23.0	23.0
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°
3785.1	0°	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1
3841.1	2.5°	3809.8	3785.1	3722.6	3650.3	3554.8	3508.8	3446.3	3403.5	3367.3	3370.6
3936.5	5°	3883.8	3821.3	3681.5	3507.1	3290.0	3135.4	2970.9	2857.4	2765.2	2745.5
4068.1	7.5°	3985.8	3887.1	3642.0	3327.8	2961.0	2683.0	2434.6	2275.0	2161.5	2125.3
4227.6	10°	4117.4	3974.3	3591.0	3102.5	2574.4	2220.7	1954.3	1829.2	1751.9	1725.6
4415.2	12.5°	4270.4	4074.7	3523.6	2827.8	2176.3	1835.8	1666.4	1603.9	1579.2	1571.0
4645.5	15°	4462.9	4199.7	3421.6	2502.0	1839.1	1600.6	1528.2	1520.0	1523.3	1520.0
4921.8	17.5°	4691.5	4336.2	3255.5	2166.5	1612.1	1480.5	1454.2	1460.8	1469.0	1467.3
5231.1	20°	4941.6	4471.1	3043.2	1868.7	1457.5	1395.0	1380.2	1386.7	1393.3	1390.0
5588.1	22.5°	5226.2	4615.9	2808.0	1636.8	1353.8	1316.0	1299.5	1301.2	1301.2	1294.6
6040.4	25°	5566.7	4775.4	2561.3	1472.3	1274.9	1245.3	1225.5	1218.9	1209.1	1189.3
6589.9	27.5°	5973.0	4944.9	2324.4	1357.1	1212.4	1184.4	1161.4	1144.9	1120.2	1087.3
7249.5	30°	6430.3	5150.5	2123.7	1284.7	1163.0	1135.0	1108.7	1084.1	1047.9	1006.7
8007.9	32.5°	6968.2	5370.9	1977.3	1237.0	1118.6	1089.0	1057.7	1028.1	988.6	947.5
8860.0	35°	7609.8	5637.4	1891.7	1204.1	1084.1	1044.6	1010.0	977.1	947.5	911.3
9786.1	37.5°	8305.6	5920.3	1865.4	1187.7	1061.0	1000.2	960.7	937.6	934.4	913.0
10787.9	40°	9067.2	6255.9	1885.2	1177.8	1036.3	957.4	914.6	909.7	917.9	880.1
11858.8	42.5°	9873.3	6654.0	1918.1	1166.3	1001.8	914.6	873.5	873.5	866.9	814.3
12990.5	45°	10745.1	7113.0	1951.0	1138.3	960.7	871.8	840.6	829.1	801.1	750.1
14128.9	47.5°	11623.6	7580.2	1975.6	1087.3	911.3	835.7	807.7	781.4	740.2	694.2
15245.8	50°	12457.6	7999.6	1949.3	1011.7	855.4	801.1	771.5	735.3	690.9	659.6
16303.6	52.5°	13202.8	8363.2	1837.5	922.8	796.2	764.9	738.6	700.8	664.6	631.7
17257.7	55°	13850.9	8657.6	1640.1	838.9	743.5	733.7	707.3	659.6	610.3	582.3
18203.5	57.5°	14472.7	8881.3	1393.3	769.9	695.8	699.1	659.6	616.9	570.8	541.2
19478.4	60°	15300.1	9180.7	1143.3	705.7	644.8	654.7	611.9	580.7	523.1	485.3
21664.6	62.5°	16622.7	9646.3	908.0	626.7	585.6	588.9	570.8	533.0	463.9	419.5
23284.9	65°	17672.2	9475.2	715.6	541.2	518.2	523.1	523.1	482.0	408.0	357.0
23372.1	67.5°	17553.8	8113.1	570.8	457.3	454.0	457.3	468.8	434.3	361.9	320.8
21592.2	70°	16170.3	6453.3	457.3	380.0	394.8	386.6	419.5	396.4	325.7	284.6
16739.5	72.5°	13194.5	4648.8	348.7	314.2	302.7	315.8	378.3	357.0	271.4	225.4
8866.5	75°	7710.1	2480.7	259.9	248.4	218.8	263.2	335.6	304.3	207.3	166.1
2717.5	77.5°	2510.3	865.3	190.8	182.6	162.9	212.2	286.2	256.6	169.4	131.6
796.2	80°	672.8	261.6	130.0	120.1	105.3	157.9	227.0	204.0	121.7	85.5
342.2	82.5°	269.8	110.2	75.7	67.4	57.6	108.6	179.3	164.5	90.5	54.3
106.9	85°	87.2	36.2	28.0	21.4	26.3	67.4	106.9	111.9	64.2	28.0
16.4	87.5°	11.5	4.9	4.9	6.6	4.9	11.5	32.9	31.3	18.1	3.3
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>
3785.1
3337.7
2701.1
2089.1
1705.9
1566.0
1518.3
1464.0
1388.4
1291.3
1186.0
1084.1
1003.4
949.2
908.0
911.3
881.7
814.3
748.5
692.5
654.7
628.4
579.0
537.9
480.3
416.2
352.0
314.2
279.6
220.4
161.2
126.7
83.9
54.3
21.4
0.0
0.0

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