

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: P951222

Luminaire Tested: **GALN-SB5B-940-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5B-940-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

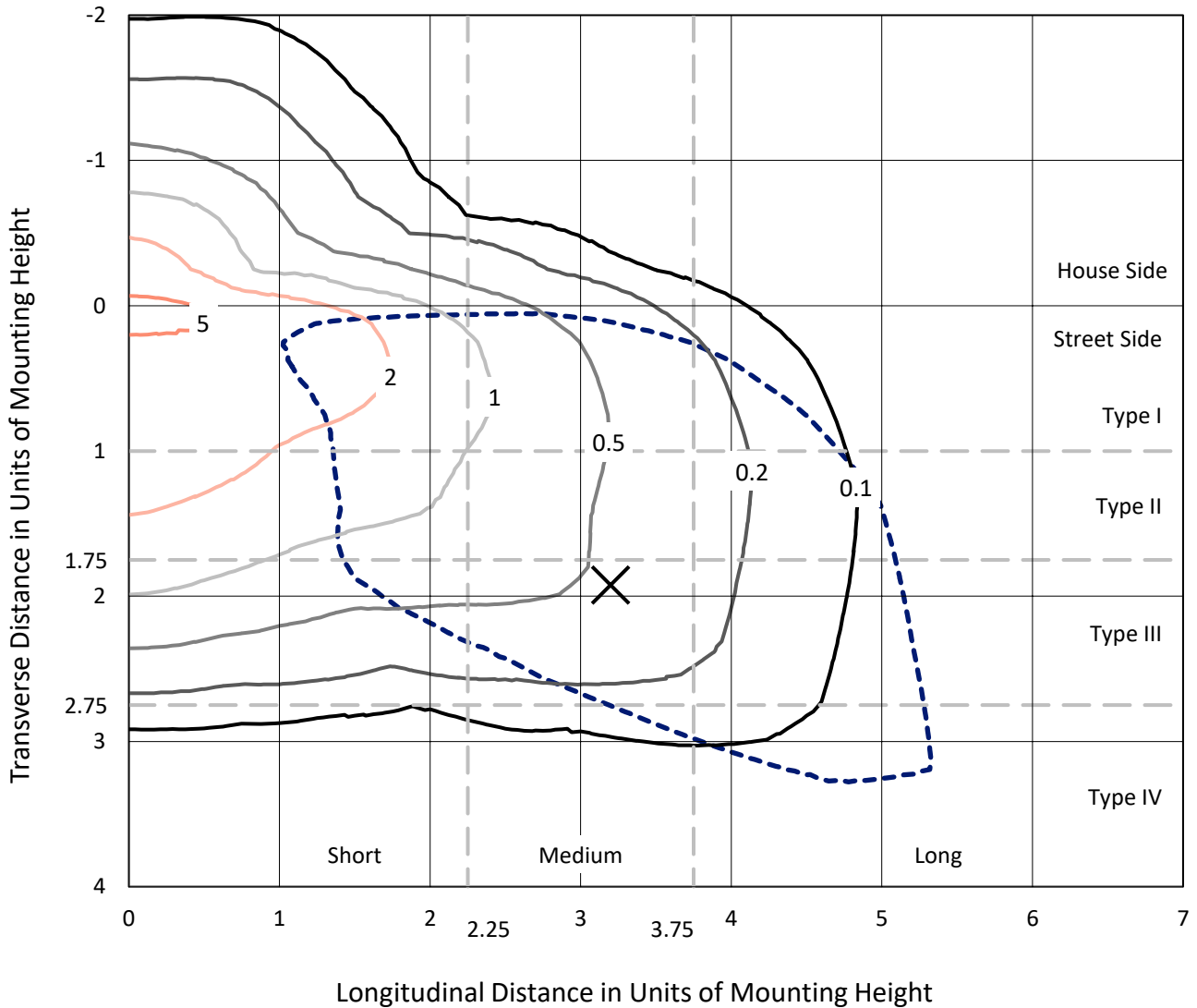
Lumens per Lamp: N/A  
Luminaire Lumens: 20145 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

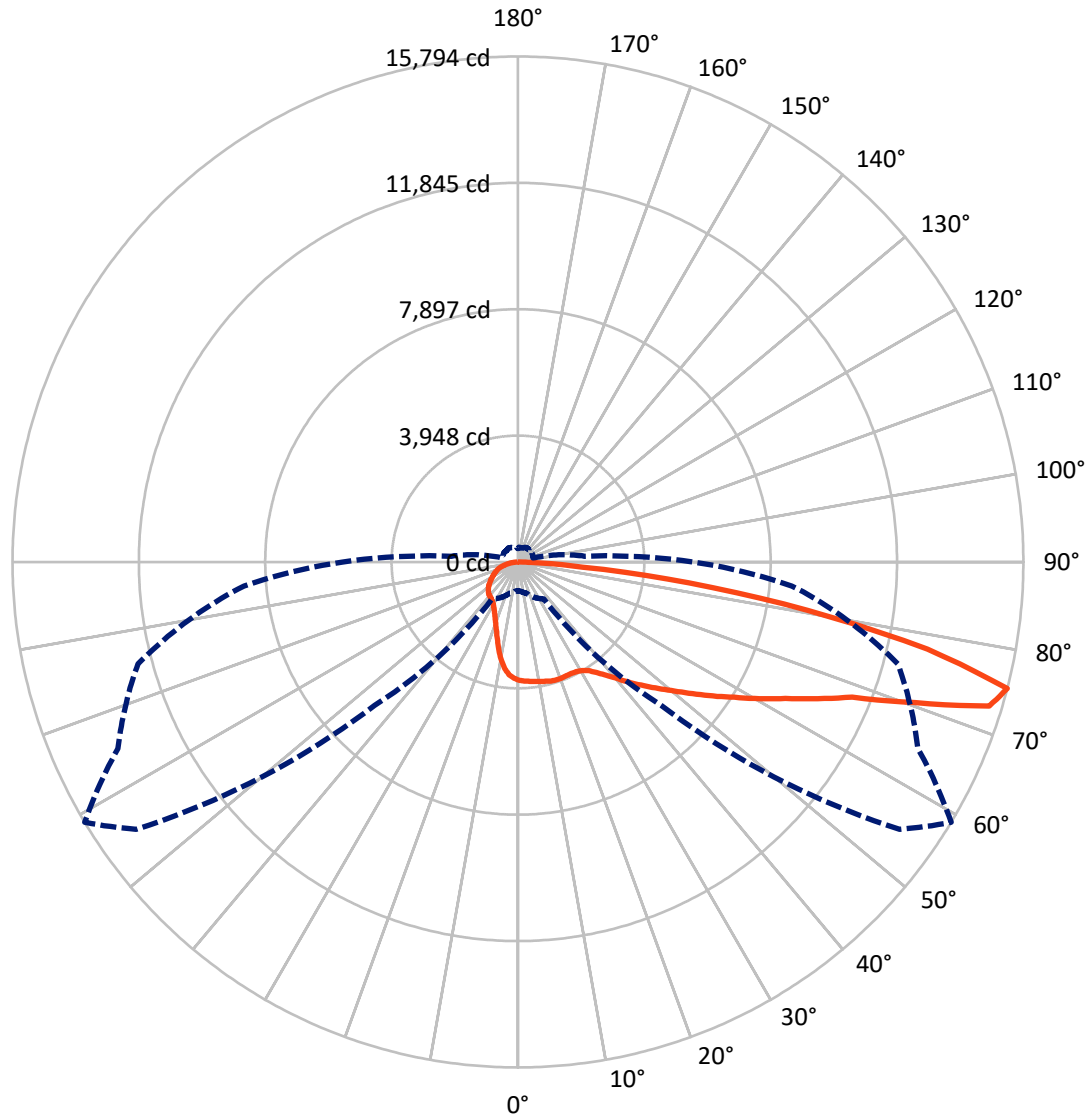
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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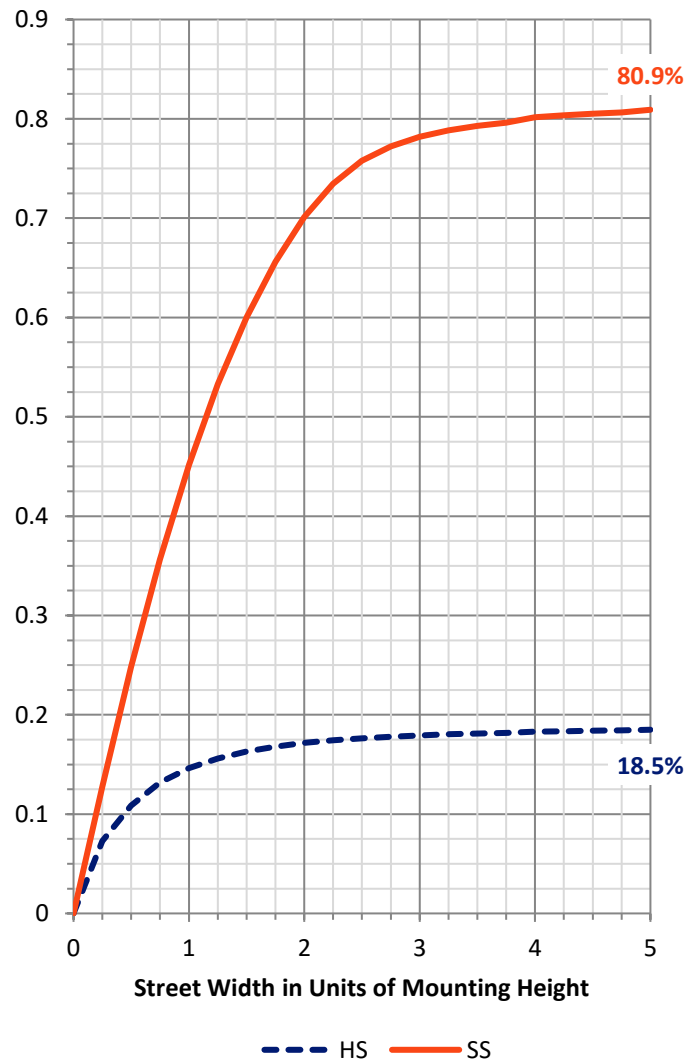
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3778.3	0.0	3778.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	16366.7	0.0	16366.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	20145.0	0.0	20145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.5	1.6
10°-20°	847.5	4.2
20°-30°	1287.2	6.4
30°-40°	1913.4	9.5
40°-50°	2845.6	14.1
50°-60°	3862.5	19.2
60°-70°	4715.5	23.4
70°-80°	3700.7	18.4
80°-90°	641.1	3.2
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°	20145.0	100.0
0°-180°	20145.0	100.0

**Coefficient of Utilization**



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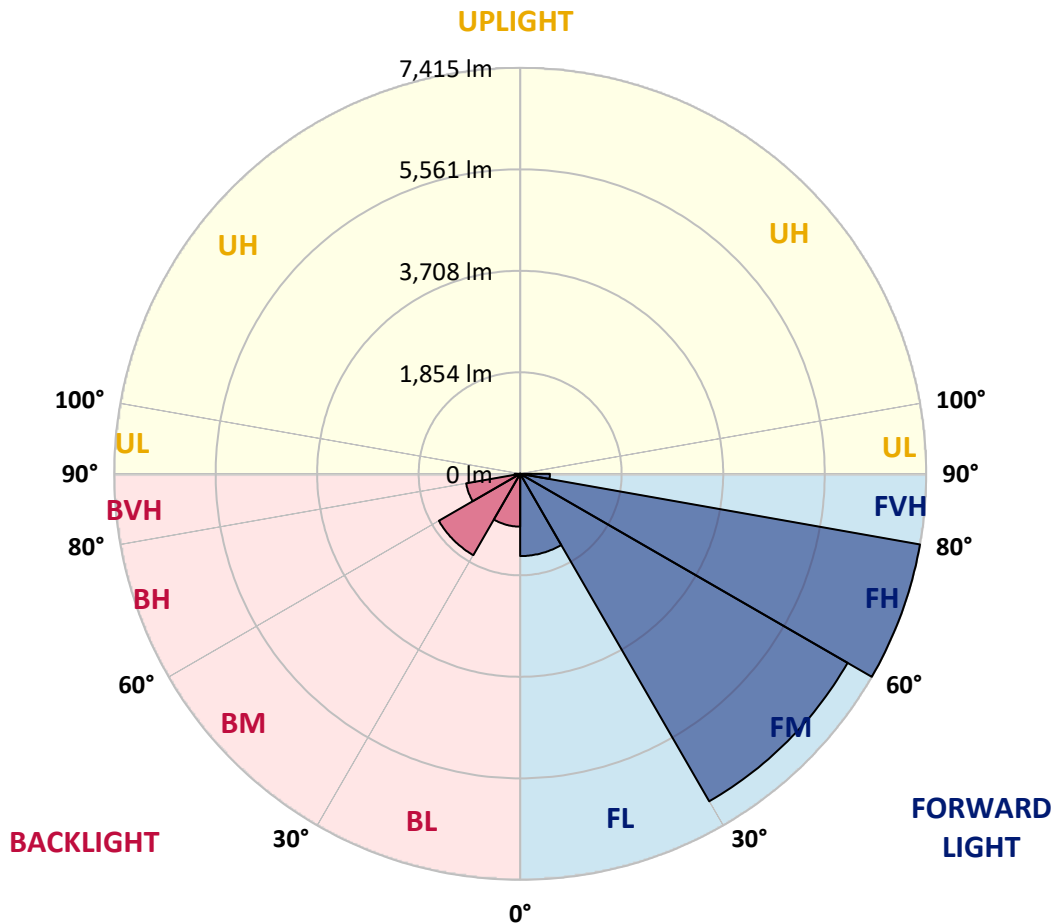
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1502.0	7.5			
FM (30°-60°)	6906.5	34.3			
FH (60°-80°)	7415.2	36.8			G3/7500
FVH (80°-90°)	542.9	2.7			G4/750
BL (0°-30°)	964.2	4.8	B2/1000		
BM (30°-60°)	1715.0	8.5	B2/2500		
BH (60°-80°)	1001.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	98.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6
2.5°	3729.0	3716.0	3729.0	3723.6	3721.4	3717.1	3718.2	3725.7	3721.4	3726.8
5°	3704.1	3696.5	3709.5	3706.2	3720.3	3722.5	3736.6	3745.3	3750.7	3751.8
7.5°	3662.9	3655.3	3673.7	3688.9	3719.2	3727.9	3757.2	3771.3	3778.8	3791.9
10°	3512.3	3509.0	3554.5	3612.0	3683.5	3727.9	3772.3	3796.2	3808.1	3842.8
12.5°	3245.7	3250.0	3309.6	3420.1	3563.2	3706.2	3789.7	3824.4	3842.8	3886.1
15°	2991.0	2989.9	3054.9	3173.1	3373.5	3610.9	3798.4	3858.0	3889.4	3953.3
17.5°	2843.6	2839.3	2884.8	2974.7	3161.1	3464.6	3776.7	3876.4	3943.6	4023.8
20°	2816.5	2807.9	2831.7	2876.1	3008.3	3304.2	3720.3	3876.4	3986.9	4091.0
22.5°	2915.1	2901.1	2891.3	2885.9	2944.4	3172.0	3656.4	3863.4	4050.9	4187.4
25°	3113.5	3091.8	3041.9	2993.2	2975.8	3112.4	3600.0	3860.1	4146.2	4317.4
27.5°	3434.2	3407.1	3306.4	3189.3	3084.2	3142.7	3575.1	3879.6	4251.3	4455.1
30°	3831.9	3802.7	3675.9	3496.0	3307.4	3255.4	3606.5	3937.1	4385.7	4638.2
32.5°	4188.5	4156.0	4047.6	3864.5	3609.8	3450.5	3706.2	4046.5	4597.0	4892.9
35°	4504.9	4467.0	4369.5	4200.4	3980.4	3724.7	3886.1	4240.5	4897.2	5306.9
37.5°	4814.9	4770.4	4664.2	4485.4	4331.5	4089.9	4134.3	4489.8	5296.0	5809.7
40°	5161.6	5097.7	4968.7	4792.1	4642.6	4517.9	4460.5	4795.4	5701.3	6371.0
42.5°	5497.6	5436.9	5283.0	5132.4	4944.9	4909.1	4838.7	5153.0	6144.6	6987.7
45°	5859.5	5786.9	5600.5	5409.8	5291.7	5169.2	5205.0	5510.6	6579.1	7616.2
47.5°	6198.7	6117.5	5897.5	5685.1	5620.0	5388.1	5540.9	5904.0	7031.0	8253.4
50°	6381.9	6301.7	6118.5	5926.7	5875.8	5658.0	5905.1	6336.4	7504.6	8888.5
52.5°	6534.7	6448.0	6208.5	6102.3	6087.1	5951.7	6353.7	6830.5	7978.2	9449.8
55°	6697.2	6600.8	6295.2	6199.8	6269.2	6281.1	6885.8	7390.8	8478.8	9997.1
57.5°	6884.7	6762.3	6378.6	6282.2	6446.9	6666.9	7497.0	7971.7	8970.8	10504.3
60°	7061.4	6937.8	6539.0	6413.3	6638.7	7114.5	8198.2	8675.0	9527.9	10956.2
62.5°	7096.0	6994.2	6666.9	6665.8	6898.8	7636.8	9028.3	9384.8	10014.4	11402.6
65°	6495.7	6431.7	6237.8	6656.1	7271.6	8388.9	9952.7	10292.9	10633.2	11792.8
67.5°	4943.8	4952.5	4938.4	5745.8	6970.3	9469.3	11291.0	11265.0	11397.2	12230.6
70°	2260.6	2311.5	2643.1	3966.3	5584.3	9594.0	13503.9	13166.9	12356.3	12797.4
72.5°	1221.3	1260.3	1395.8	1921.4	3357.3	8529.8	15157.7	15397.1	13631.8	13178.8
75°	896.2	917.9	1012.2	1221.3	1409.9	6339.6	14564.9	15793.8	13791.1	12289.1
77.5°	670.8	680.6	757.5	967.7	721.7	3342.1	11637.8	13080.2	11805.8	10096.8
80°	486.6	497.4	554.9	726.1	506.1	1222.4	7991.2	9181.1	8085.5	6436.1
82.5°	335.9	340.3	365.2	494.2	353.3	474.7	4534.2	5383.8	4513.6	2258.4
85°	202.7	208.1	218.9	288.3	200.5	225.4	1957.2	2024.3	1349.2	539.7
87.5°	83.4	88.9	97.5	121.4	79.1	62.9	322.9	405.3	252.5	158.2
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°
3697.6	0°	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6
3708.4	2.5°	3703.0	3695.4	3674.8	3646.6	3620.6	3588.1	3574.0	3562.1	3551.3	3530.7
3737.7	5°	3725.7	3705.2	3649.9	3578.4	3497.1	3408.2	3321.5	3261.9	3211.0	3173.1
3771.3	7.5°	3760.4	3721.4	3620.6	3474.3	3287.9	3097.2	2924.9	2802.4	2710.3	2676.7
3818.9	10°	3796.2	3749.6	3574.0	3316.1	2994.3	2700.6	2471.9	2346.2	2272.5	2248.7
3875.3	12.5°	3838.5	3770.2	3501.4	3096.1	2665.9	2344.0	2144.6	2070.9	2033.0	2020.0
3944.7	15°	3900.2	3787.5	3392.0	2820.9	2352.7	2083.9	1955.0	1904.1	1884.5	1883.5
4016.2	17.5°	3946.8	3790.8	3221.8	2526.1	2112.1	1926.8	1820.6	1801.1	1814.1	1833.6
4086.6	20°	3998.8	3761.5	2998.6	2257.3	1943.1	1789.2	1744.8	1757.8	1789.2	1817.4
4179.8	22.5°	4035.7	3708.4	2728.7	2048.2	1796.8	1710.1	1707.9	1735.0	1752.3	1766.4
4289.3	25°	4068.2	3618.5	2442.7	1872.6	1676.5	1662.4	1686.2	1677.6	1665.6	1677.6
4398.7	27.5°	4092.0	3476.5	2186.9	1718.7	1591.9	1629.9	1615.8	1596.3	1595.2	1601.7
4527.7	30°	4084.4	3286.8	1976.7	1572.4	1532.3	1569.2	1535.6	1532.3	1529.1	1532.3
4721.7	32.5°	4084.4	3071.2	1815.2	1471.7	1494.4	1480.3	1477.1	1469.5	1456.5	1455.4
4985.0	35°	4107.2	2855.5	1676.5	1417.5	1463.0	1429.4	1431.6	1413.1	1386.0	1373.0
5334.0	37.5°	4153.8	2682.1	1538.8	1391.5	1407.7	1406.6	1398.0	1366.5	1318.9	1277.7
5769.6	40°	4266.5	2631.2	1444.6	1379.5	1381.7	1394.7	1372.0	1311.3	1202.9	1135.7
6211.7	42.5°	4443.2	2716.8	1424.0	1350.3	1364.4	1377.4	1332.9	1192.1	1115.1	1075.0
6675.6	45°	4667.5	2866.4	1468.4	1308.0	1323.2	1346.0	1213.7	1146.6	1111.9	1113.0
7135.1	47.5°	4951.4	3023.5	1550.8	1271.2	1263.6	1276.6	1134.6	1093.4	1045.8	1057.7
7576.1	50°	5279.8	3182.8	1628.8	1221.3	1197.5	1155.2	1083.7	1044.7	984.0	955.8
8002.0	52.5°	5635.2	3336.7	1660.2	1160.6	1126.0	1077.2	1049.0	1001.3	927.6	881.0
8404.1	55°	5972.2	3476.5	1625.5	1088.0	1054.4	1016.5	1012.2	982.9	903.8	838.8
8761.7	57.5°	6290.9	3593.5	1538.8	1014.3	981.8	959.1	988.3	974.2	874.5	791.1
9099.8	60°	6560.7	3673.7	1413.1	939.6	916.8	904.9	949.3	945.0	833.4	740.2
9403.2	62.5°	6775.3	3705.2	1274.4	868.0	862.6	840.9	895.1	895.1	781.3	690.3
9669.8	65°	6943.2	3674.8	1133.5	797.6	808.4	775.9	829.0	822.5	726.1	645.9
9976.5	67.5°	7091.7	3575.1	977.5	728.2	753.2	712.0	759.7	744.5	665.4	601.5
10242.0	70°	7157.8	3343.2	799.8	658.9	689.2	649.1	690.3	662.1	597.1	553.8
9950.5	72.5°	6626.8	2778.6	629.6	586.3	612.3	579.8	615.5	583.0	523.4	503.9
8592.6	75°	5482.4	2085.0	484.4	507.2	526.7	501.8	525.6	501.8	447.6	461.7
6347.2	77.5°	3981.5	1407.7	370.6	423.7	432.4	419.4	440.0	412.9	364.1	360.9
3163.3	80°	1979.9	824.7	290.4	334.9	331.6	322.9	346.8	333.8	292.6	309.9
854.0	82.5°	573.3	353.3	211.3	235.2	228.7	230.8	248.2	254.7	381.5	378.2
265.5	85°	179.9	138.7	126.8	131.1	124.6	127.9	146.3	290.4	268.8	157.1
82.4	87.5°	46.6	47.7	31.4	33.6	34.7	41.2	46.6	176.6	84.5	55.3
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>
3697.6
3520.9
3141.6
2618.2
2211.8
2023.3
1887.8
1841.2
1827.1
1774.0
1685.1
1612.5
1544.3
1469.5
1386.0
1291.8
1144.4
1075.0
1118.4
1088.0
963.4
880.0
838.8
786.8
736.9
687.1
641.5
597.1
545.1
487.7
421.6
344.6
306.7
386.9
170.1
58.5
0.0

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