

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: P941215

Luminaire Tested: **GALN-SB4C-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4C-927-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18103 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

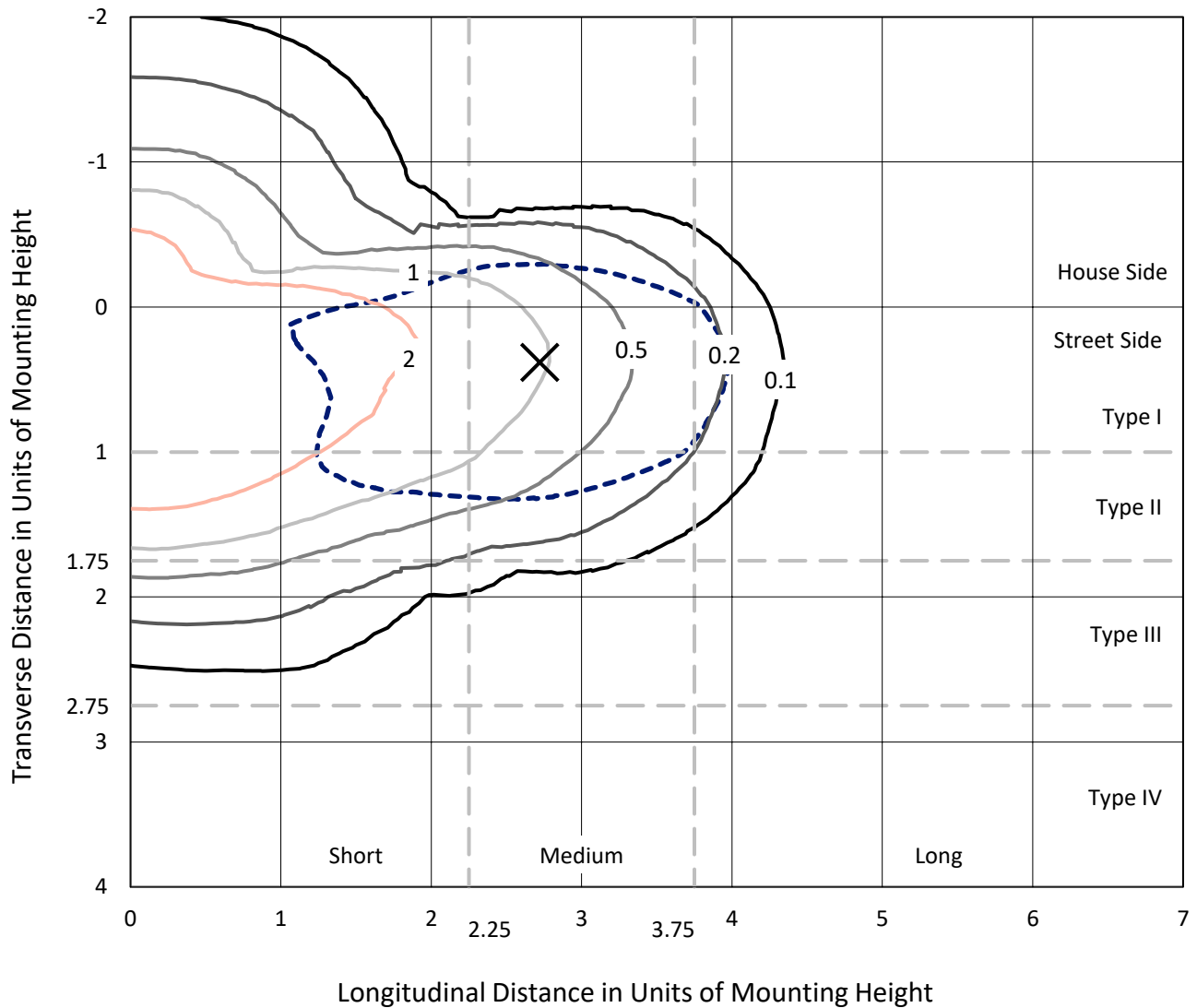
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

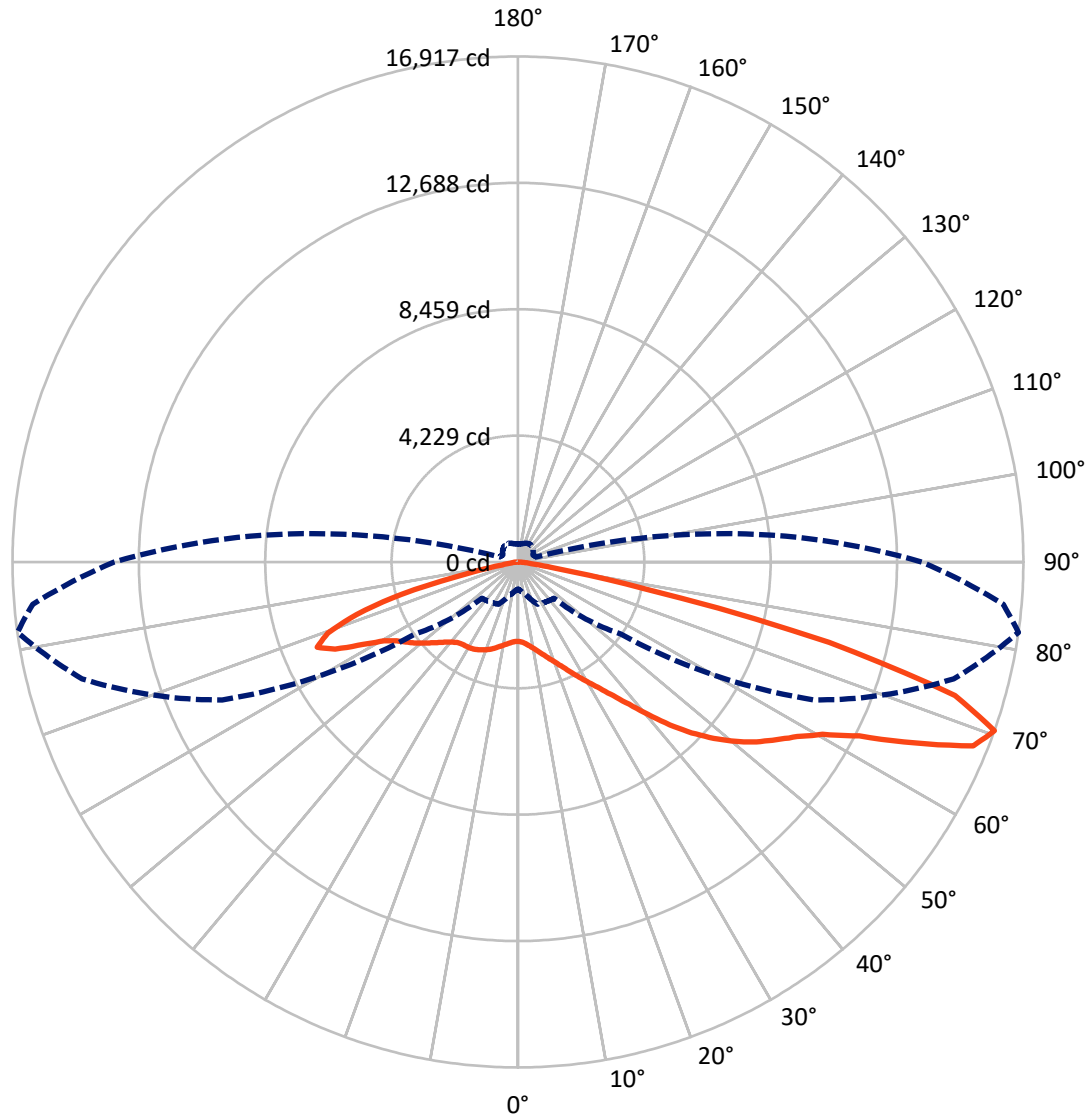
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4462.8	0.0	4462.8
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	13640.2	0.0	13640.2
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	18103.0	0.0	18103.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.6	1.4
10°-20°	720.0	4.0
20°-30°	1204.5	6.7
30°-40°	1881.7	10.4
40°-50°	2996.8	16.6
50°-60°	4170.4	23.0
60°-70°	4362.4	24.1
70°-80°	2280.0	12.6
80°-90°	236.8	1.3
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°	18103.0	100.0
0°-180°	18103.0	100.0

**Coefficient of Utilization**



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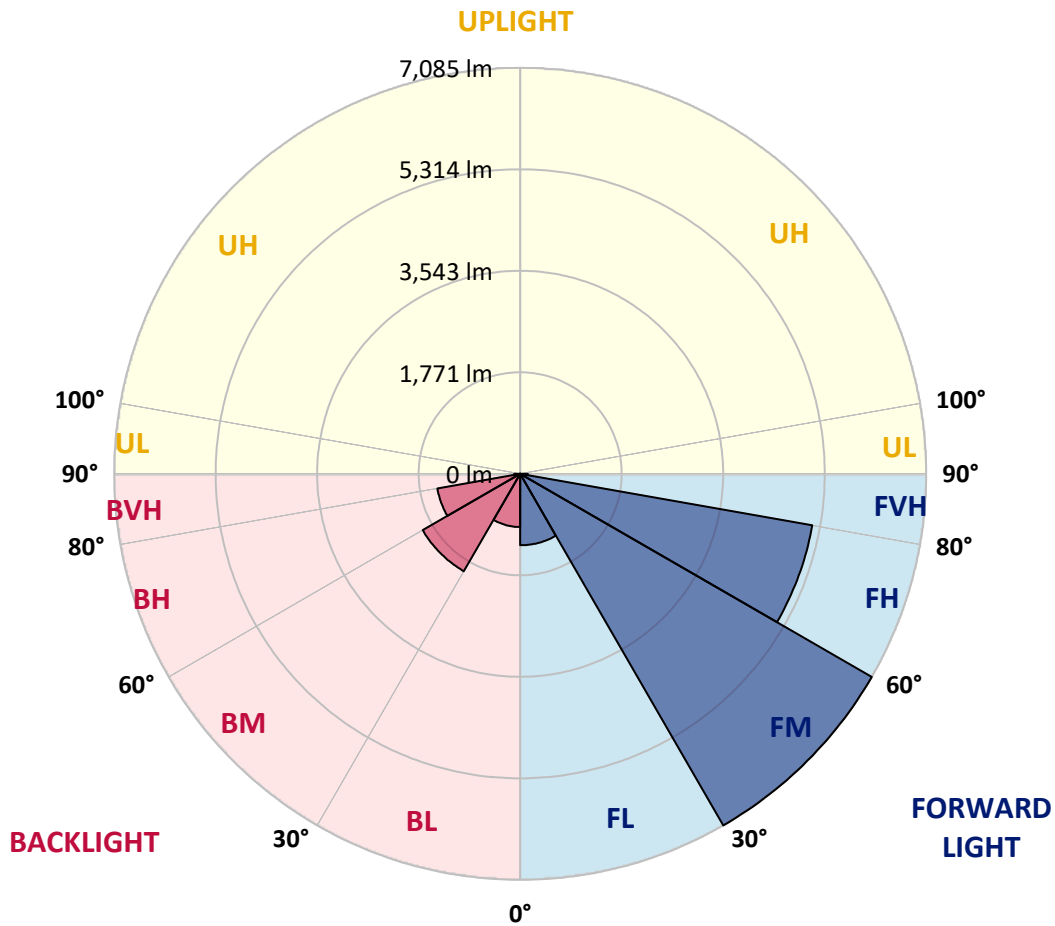
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.6	6.9			
FM (30°-60°)	7085.3	39.1			
FH (60°-80°)	5175.7	28.6			G3/7500
FVH (80°-90°)	132.5	0.7			G2/225
BL (0°-30°)	928.4	5.1	B2/1000		
BM (30°-60°)	1963.5	10.8	B2/2500		
BH (60°-80°)	1466.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	104.2	0.6			G2/225
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°	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1
2.5°	2717.5	2732.9	2728.1	2723.3	2723.3	2716.6	2715.6	2706.0	2698.3	2685.8
5°	2752.1	2768.4	2766.5	2770.4	2782.8	2785.7	2788.6	2782.8	2767.5	2752.1
7.5°	2721.4	2739.6	2745.4	2768.4	2806.9	2841.4	2867.4	2877.9	2863.5	2841.4
10°	2617.6	2637.8	2658.0	2712.7	2780.9	2862.6	2931.7	2973.0	2970.2	2949.0
12.5°	2407.3	2428.4	2471.6	2578.2	2703.1	2847.2	2975.9	3062.4	3092.2	3076.8
15°	2239.1	2257.4	2290.1	2399.6	2561.9	2780.9	2992.3	3160.4	3236.2	3227.6
17.5°	2234.3	2242.0	2262.2	2314.1	2439.0	2677.2	2975.0	3256.4	3401.5	3400.5
20°	2318.9	2321.8	2333.3	2343.9	2414.9	2598.4	2930.8	3336.1	3586.9	3586.9
22.5°	2436.1	2434.1	2445.7	2436.1	2470.7	2591.7	2902.9	3406.3	3793.4	3808.8
25°	2611.9	2602.3	2599.4	2577.3	2584.0	2654.1	2933.7	3486.0	4038.3	4070.0
27.5°	2846.2	2830.9	2820.3	2769.4	2752.1	2782.8	3027.8	3582.1	4311.2	4365.9
30°	3151.7	3123.9	3108.5	3020.1	2957.7	2962.5	3170.0	3709.8	4596.5	4684.8
32.5°	3568.6	3525.4	3484.1	3339.0	3224.7	3187.3	3353.4	3886.6	4905.8	5047.0
35°	4035.5	4000.9	3956.7	3732.9	3557.1	3470.6	3601.3	4133.4	5267.9	5491.7
37.5°	4485.0	4455.2	4476.4	4174.7	3948.0	3822.2	3926.0	4464.8	5714.6	6045.0
40°	4950.0	4926.9	4929.8	4641.6	4377.4	4236.2	4319.8	4880.8	6226.6	6703.0
42.5°	5455.2	5437.9	5380.3	5124.8	4828.0	4696.4	4773.2	5361.1	6776.0	7452.3
45°	6021.0	6010.4	5956.7	5663.7	5323.6	5175.7	5279.4	5891.3	7328.4	8157.4
47.5°	6510.0	6518.6	6511.9	6265.0	5912.5	5695.4	5819.3	6444.6	7842.3	8820.2
50°	6745.3	6790.5	6856.7	6779.9	6560.9	6339.9	6363.9	6978.7	8332.2	9441.7
52.5°	6622.3	6707.8	6888.4	7011.4	7095.9	7049.8	6985.5	7509.0	8793.3	10002.7
55°	6164.1	6284.2	6583.9	6880.7	7312.1	7647.3	7731.8	8096.9	9242.9	10496.4
57.5°	5329.4	5524.4	5793.4	6393.7	7119.9	7936.4	8602.1	8912.4	9719.3	11023.8
60°	3898.1	4159.4	4493.7	5387.0	6447.5	7781.8	9342.8	10165.0	10396.5	11706.8
62.5°	2494.7	2656.0	2963.4	3804.9	5023.9	6989.3	9569.5	11730.8	11544.4	12826.8
65°	1707.9	1811.7	2093.1	2565.8	3247.8	5202.6	8962.4	12904.6	13367.7	14602.0
67.5°	1241.1	1319.9	1560.0	1974.0	2116.2	3078.7	6954.7	12850.9	15140.0	16431.0
70°	904.9	960.6	1162.3	1560.0	1628.2	1712.7	4213.2	10923.9	15101.5	16917.1
72.5°	670.5	708.9	844.4	1210.4	1317.9	1156.6	2085.5	7939.3	12976.7	15301.3
75°	485.1	513.9	613.8	926.0	1054.7	880.9	1040.3	4639.7	9051.7	10763.5
77.5°	370.8	392.9	458.2	678.2	844.4	660.9	645.5	2134.4	4291.9	4313.1
80°	297.8	312.2	347.7	477.4	647.4	494.7	420.7	861.7	1356.4	1147.9
82.5°	219.0	243.0	293.9	335.2	463.0	341.0	256.5	435.1	515.8	443.8
85°	124.9	141.2	177.7	240.1	295.9	208.4	147.0	193.1	240.1	196.9
87.5°	44.2	57.6	62.4	94.1	128.7	86.5	56.7	55.7	78.8	58.6
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°
2654.1	0°	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1	2654.1
2682.9	2.5°	2673.3	2668.5	2649.3	2623.4	2596.5	2570.6	2561.9	2543.7	2531.2	2524.4
2745.4	5°	2727.1	2711.8	2666.6	2609.0	2548.5	2483.1	2437.0	2394.8	2364.0	2335.2
2830.9	7.5°	2804.0	2777.1	2699.3	2598.4	2490.8	2382.3	2301.6	2240.1	2198.8	2171.9
2930.8	10°	2893.3	2852.0	2732.9	2582.1	2415.9	2260.3	2165.2	2112.4	2086.4	2072.0
3045.1	12.5°	2996.1	2937.5	2767.5	2544.6	2301.6	2123.9	2058.6	2043.2	2044.1	2045.1
3189.2	15°	3122.9	3041.2	2795.3	2463.0	2152.7	2019.2	2007.6	2032.6	2058.6	2071.0
3352.5	17.5°	3266.0	3150.8	2800.1	2328.5	2006.7	1951.9	1988.4	2042.2	2081.6	2098.9
3535.0	20°	3419.7	3262.2	2765.6	2138.3	1886.6	1897.2	1962.5	2031.7	2074.9	2097.0
3743.4	22.5°	3595.5	3381.3	2682.9	1938.5	1788.6	1837.6	1914.5	1981.7	2026.9	2049.0
3988.4	25°	3796.3	3514.8	2553.3	1770.4	1704.1	1770.4	1847.2	1902.9	1939.4	1959.6
4262.2	27.5°	4019.1	3654.1	2380.4	1636.9	1630.1	1701.2	1764.6	1807.8	1827.1	1842.4
4553.2	30°	4243.0	3780.9	2170.9	1536.0	1565.8	1633.0	1678.2	1697.4	1703.1	1706.0
4877.9	32.5°	4485.0	3890.4	1951.0	1452.4	1504.3	1566.7	1593.6	1602.3	1575.4	1557.1
5271.7	35°	4778.0	4007.6	1735.8	1386.1	1443.8	1497.6	1506.2	1498.5	1466.8	1429.4
5765.5	37.5°	5140.1	4153.6	1563.8	1339.1	1387.1	1422.6	1412.1	1410.2	1413.0	1368.8
6359.1	40°	5583.9	4343.8	1438.0	1302.6	1341.0	1348.7	1318.9	1335.2	1349.6	1282.4
7010.4	42.5°	6076.7	4573.4	1358.3	1277.6	1302.6	1284.3	1238.2	1256.5	1254.5	1166.2
7664.6	45°	6579.1	4823.2	1330.4	1259.3	1267.0	1230.5	1179.6	1184.4	1144.1	1064.3
8291.9	47.5°	7078.6	5091.2	1347.7	1244.0	1222.8	1181.5	1142.1	1121.0	1061.5	1001.9
8893.2	50°	7568.5	5372.6	1411.1	1213.2	1162.3	1138.3	1109.5	1072.0	1008.6	957.7
9461.9	52.5°	8022.9	5656.0	1482.2	1162.3	1086.4	1100.8	1082.6	1039.4	976.9	925.1
9999.8	55°	8453.2	5939.4	1510.1	1092.2	1015.3	1068.2	1057.6	977.9	903.0	860.7
10562.7	57.5°	8922.0	6280.4	1479.3	1002.9	957.7	1030.7	990.4	902.0	858.8	827.1
11295.6	60°	9571.4	6815.4	1413.0	892.4	903.0	975.0	905.8	869.3	822.3	786.7
12394.6	62.5°	10650.1	7813.5	1306.4	782.9	838.6	892.4	865.5	829.0	781.0	746.4
14273.5	65°	12244.7	9200.6	1105.6	697.4	766.6	811.7	822.3	785.8	735.8	699.3
15920.0	67.5°	13589.5	10070.9	836.7	626.3	692.6	746.4	776.2	740.6	687.8	652.2
16305.2	70°	13515.6	9438.8	638.8	556.2	627.3	682.0	720.4	692.6	635.9	602.3
14810.5	72.5°	12004.6	7896.1	516.8	485.1	561.0	614.8	660.9	639.8	582.1	549.5
10849.9	75°	8819.2	5605.1	413.1	413.1	478.4	544.7	595.6	582.1	529.3	506.2
4555.1	77.5°	3717.5	2351.5	323.7	342.9	397.7	467.8	531.2	536.0	489.9	518.7
1204.6	80°	988.5	648.4	246.9	269.9	312.2	386.2	462.0	460.1	410.2	383.3
447.6	82.5°	376.6	255.5	175.8	190.2	225.7	295.9	366.0	377.5	327.6	283.4
175.8	85°	145.0	109.5	108.5	114.3	131.6	196.0	276.7	286.3	246.9	209.4
49.0	87.5°	37.5	32.7	40.3	38.4	60.5	104.7	158.5	164.3	150.8	87.4
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

<u>180°</u>
2654.1
2532.1
2346.7
2177.7
2075.8
2047.0
2070.1
2102.7
2102.7
2054.7
1965.4
1848.2
1712.7
1562.9
1431.3
1371.7
1284.3
1165.2
1067.2
1001.9
953.9
926.0
856.9
824.2
784.8
746.4
701.2
653.2
605.2
549.5
499.5
470.7
356.4
283.4
216.1
124.9
0.0

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